

# **Common Relational Information Schema CRIS Version 2.2**

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## **Introduction**

This document describes the design of MIMOSA's Common Relational Information Schema.

## **Data Types**

For CRIS V2.2, data types are defined using the following XML primitive data types:

| <u>Data Type</u> | <u>Description</u>  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
|------------------|---|------|-------------------|----|--------------------------------------|----|--|----|---|---|-------------------------|----|--|----|--|---------|---|
| STRING(X)        | Character string data of fixed length X   |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| STRING(0:X)      | Character string data of variable length, minimum 0 length, maximum X length  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| BASE64BINARY     | Long variable-length binary data (picture files, abstract data, etc)  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| SHORT            | Short signed integer; 16 bits (-32,768 to 32,767)   |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| INT              | Long signed integer; 32 bits (-2147483648 to 2147483647)  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| DOUBLE           | Floating point data; 64 bits  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| DATETIME(10:29)  | <p>Date/time in the following ISO 8601 variable length character form:<br/>YYYY-MM-DDThh:mm:ss.fffffff</p> <p>where:</p> <table><tr><td>YYYY</td><td>= four-digit year</td></tr><tr><td>MM</td><td>= two-digit month (01=January, etc.)</td></tr><tr><td>DD</td><td>= two-digit day of month (01 through 31)</td></tr><tr><td>hh</td><td>= two digits of hour (00 through 23)<br/>(am/pm NOT allowed)</td></tr><tr><td>T</td><td>= literal "T" character</td></tr><tr><td>mm</td><td>= two digits of minute (00 through 59)</td></tr><tr><td>ss</td><td>= two digits of second (00 through 59)</td></tr><tr><td>fffffff</td><td>= represents a decimal fraction of a second<br/>to the billionth of a second</td></tr></table> <p>Year, month, and day must be specified. Additional timestamp content should be provided, if known. Zeros will be assumed for the omitted values. Negative DATETIME is not supported. All suffixes after the 29<sup>th</sup> character provided in the ISO 8601 specification, such as "Z" (representing Coordinated Universal Time (UTC), are not necessary since the CRIS specification explicitly manages local offset hours and minutes as distinct columns associated with the UTC (referred to in the CRIS specification prefixed with "GMT") column.</p> <p>Note that the actual difference between the new DATETIME(10:29) data type and the CRIS V2.1 fixed-length STRING(29) form is the separator between date and time information is now a literal "T" instead of a blank space, the separator for the billionths of seconds is now a dot (".") instead of a dash ("-"), and trailing items after the year-month-day fields may be omitted.</p> | YYYY | = four-digit year | MM | = two-digit month (01=January, etc.) | DD | = two-digit day of month (01 through 31) | hh | = two digits of hour (00 through 23)<br>(am/pm NOT allowed) | T | = literal "T" character | mm | = two digits of minute (00 through 59) | ss | = two digits of second (00 through 59) | fffffff | = represents a decimal fraction of a second<br>to the billionth of a second |
| YYYY             | = four-digit year   |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| MM               | = two-digit month (01=January, etc.)  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| DD               | = two-digit day of month (01 through 31)  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| hh               | = two digits of hour (00 through 23)<br>(am/pm NOT allowed)   |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| T                | = literal "T" character   |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| mm               | = two digits of minute (00 through 59)  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| ss               | = two digits of second (00 through 59)  |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |
| fffffff          | = represents a decimal fraction of a second<br>to the billionth of a second   |      |                   |    |                                      |    |  |    |   |   |                         |    |  |    |  |         |   |

## Normalization

Normalization is the process of determining the correct location and function of each data element (columns) within the relations (tables). There are 5 sets of rules governing different levels of normalization, designated as 1<sup>st</sup> through 5<sup>th</sup> Normal Form.

1<sup>st</sup> Normal Form indicates that a relation (table) have atomic values for each data element, that each column in a row will consist of only one data type and value. It is generally accepted that SQL database tables automatically satisfy 1<sup>st</sup> normal form.

2<sup>nd</sup> Normal Form states that every non-key column must depend on the entire primary key, preventing non-coincidentally repeating sets of data that could threaten consistency. For example, a table that was used to hold data of 2 types, and that required duplicates of type 1 data to handle multiples of type 2 data would violate 2<sup>nd</sup> normal form. The proper solution would be to separate the tables and maintain the relationship by use of a common key.

3<sup>rd</sup> Normal Form states that each non-key column must contain data relevant only to the key, not to another non-key column. Violation of this rule can again lead to non-coincidentally repetitive data, making consistency difficult to achieve. Essentially, 2<sup>nd</sup> and 3<sup>rd</sup> normal form ensure that each data element is stored in only one place in the entire database.

4<sup>th</sup> Normal Form attempts to further eliminate repeating sets of data within rows of tables by disallowing one-to-many relationships between non-key columns and keys columns in the same table. For example, a table containing peoples names and addresses and their pet's name could violate 4<sup>th</sup> normal form. Such a table could contain repeating 'blanks' for all those people listed that do not own pets, even though it meets the requirements of 2<sup>nd</sup> and 3<sup>rd</sup> normal form.

A solution satisfying 4<sup>th</sup> normal form is to have a second table containing the pet names having the same key as the name and address table.

5<sup>th</sup> Normal Form takes the concept of normalization to its end, demanding that all tables be broken into the smallest possible pieces to eliminate all redundancy.

The goal of the CRIS database design is to approach 4<sup>th</sup> normal form as closely as is possible, and practical. It is important to remember that any given level of normalization is a guideline, not an absolute requirement. Ideally, any given design should try to strike a balance between redundant data, redundant keys, and data storage and retrieval constraints. It is not desirable to produce a perfectly normalized database if it results in large storage requirements and poor performance.

It should also be noted that normalization does not automatically prevent referential corruption ('orphaned' records, etc.). However, it does make maintaining proper referential links much easier.

Source for normalization rules: 'Database Design: The Relational Rules', David R. McClanahan, DBMS magazine 11/91; 'The Practical SQL Handbook', Emerson, Darnovsky, Bowman, Addison-Wesley Publishing 1989.

## **Site Tables**

### **#13    site**

**Description: Site Table**

The site table holds information about the physical business location in the world where assets or agents reside, and where objects which are being monitored exist and databases reside.

- Note: For all for-profit businesses, the site code is the D-U-N-S number of the location – a randomly-generated nine-digit number assigned by Dunn & Bradstreet. The D-U-N-S number is based on a coding system called the Data Universal Numbering System, hence it's name "D-U-N-S". This code is used to identify 38 million current and former business locations throughout the world. Each location of a company is assigned a unique D-U-N-S number which does not change and will not be reassigned if the location closes. To determine your location's D-U-N-S number, please call Dunn & Bradstreet Information Resources Customer Service at 1-800-333-0505. This is a free service.
- Note: The model stores the D-U-N-S number as an integer, which does not preserve the leading zeros in the D-U-N-S number. To display the number to a user, left pad the number with zeros to 9 digits.
- Note: For non-profit and government locations, you will need to have a MIMOSA number assigned. A group of numbers will be assigned to your corporate organization. A representative from your corporate organization should e-mail the MIMOSA Technical Director [info@mimosa.org](mailto:info@mimosa.org) with the name of your organization, the number of locations in your organization, your name, title, and phone number. You will be sent a range of MIMOSA numbers (all over 999,999,999) which you can then assign to each of your organizations.
- Note: A negative D-U-N-S number can be used for temporary assignment when no correct D-U-N-S number is available. This should not be used permanently because the integration of multiple site data will later be troublesome, i.e., both sites export with the D-U-N-S number of -1.
- Note: The last\_upd\_db\_site, last\_upd\_db\_id columns are included in all tables, except tables managed and populated by MIMOSA, to store the database site and the DB identifier which made the insert or last update to each row. This is a foreign key to the site\_database table, but we cannot define this relationship because the table is not yet created.
- Note: The optional field primary\_sic relates to the primary Standard Industry Code (SIC) for the site. This code is linked in a SIC reference book to the type of industry the site is associated with.
- Note: On address lines, line breaks are denoted by a backslash ("\") character.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>       |
|---------------------|--|------------------------|
| site_code           | Unique D-U-N-S identifier for each business location or a MIMOSA-assigned number.                          | INT NOT NULL           |
| company_name        | Company description  | STRING(0:254) NOT NULL |
| site_name           | Site description   | STRING(0:254) NOT NULL |
| phys_addr           |  | STRING(0:254)          |
| phys_city_name      |  | STRING(0:60)           |
| phys_state_abbr     |  | STRING(2)              |
| phys_postal_code    |  | STRING(0:10)           |
| phys_country_abb    |  | STRING(3)              |
| mail_addr           |  | STRING(0:254)          |
| mail_city_name      |  | STRING(0:60)           |
| mail_state_abbr     |  | STRING(2)              |
| mail_postal_code    |  | STRING(0:10)           |
| mail_country_abb    |  | STRING(3)              |
| us_ph_number        |  | STRING(10)             |
| int_ph_contry_no    |  | STRING(0:3)            |
| int_ph_city_no      |  | STRING(0:5)            |
| int_ph_local_no     |  | STRING(0:10)           |
| us_fax_number       |  | STRING(10)             |
| int_fax_cntry_no    |  | STRING(0:3)            |
| int_fax_city_no     |  | STRING(0:5)            |
| int_fax_local_no    |  | STRING(0:10)           |
| business_desc       |  | STRING(0:254)          |
| primary_sic         |  | STRING(0:8)            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)        |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                    |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                    |
| rstat_type_code     | Row status type code   | SHORT                  |
|                     |  |                        |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                        |
|                     | site_code  |                        |
|                     |  |                        |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code        |
|                     |  |                        |

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## **Database Tables**

### **#15 site\_database**

**Description: Site Database Table**

This table holds information about the machinery databases located at the site. It requires a unique db\_id to exist for each database. This allows for databases to be merged.

Note: The vendor of the database is stored as a foreign key in the mf\_db\_site, mf\_db\_id, mf\_duns\_code rows which relates to the MANUFACTURER table defined below. We cannot define it as a foreign key because the table is not yet created, though indeed it is.

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>       |
|---------------------|---|------------------------|
| db_site             | Unique D-U-N-S identifier for each business location or a MIMOSA-assigned number.                                     | INT NOT NULL           |
| db_id               | Unique index for this database on the designated site   | INT NOT NULL           |
| name                | Database description  | STRING(0:254) NOT NULL |
| mf_db_site          | Unique D-U-N-S identifier for each business location or a MIMOSA-assigned number of the vendor supplying the database | INT                    |
| mf_db_id            | Unique index for the database at the vendor's site  | INT                    |
| mf_duns_code        | Unique D-U-N-S identifier for each business location or a MIMOSA-assigned number of the vendor supplying the database | INT                    |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)        |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                    | INT                    |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record            | INT                    |
| rstat_type_code     | Row status type code  | SHORT                  |
|                     |   |                        |
| <u>Primary Key</u>  | <u>Column(s)</u>  |                        |
|                     | db_site, db_id  |                        |
|                     |   |                        |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>       |
|                     | <a href="#">site</a> (site_code)  | db_site                |
|                     |   |                        |
|                     | <a href="#">row status type</a> (rstat_type_cod)  | rstat_type_code        |

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**#328 db\_mim\_interface****Description: MIMOSA Interfaces Supported By A Database**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| db_site             |  | INT NOT NULL                     |
| db_id               |  | INT NOT NULL                     |
| interf_type_code    |  | INT NOT NULL                     |
| gmt_last_refresh    | Timestamp of last refresh date, if applicable  | DATETIME(10:29)                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | db_site, db_id, interface_id   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                   |
|                     | <a href="#">mim_interface_type</a> (interf_type_code)  | interf_type_code                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## **Reference Tables**

### **#12 row\_status\_type**

**Description: Row Status Type Code**

The row status code is a foreign key in every other table to define the status of the row. These codes will not change.. The entries will include the following:

- 1 = Active Row
- 2 = Inactive Row
- 3 = Soft Deleted Row

Note: MIMOSA populates and maintains this table. No user-defined entries are supported

Note: The gmt\_last\_updated column is in every table to store the date the row was inserted or last updated (whichever is the most recent event).

Note: All gmt fields are in UTC, Coordinated Universal Time (also called Greenwich Mean Time) in the ISO 8601 DATETIME(10:29) format YYYY-MM-DDTHH:MM:SS.FFFFFFFF in 24-hour format like:  
1995-02-27T18:01:03.500000000  
which is equivalent to 27-Feb-1995 6:01 PM at 3.5 seconds.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>       |
|---------------------|--|------------------------|
| rstat_type_cod      | Row status type code   | SHORT NOT NULL         |
| name                | Full description   | STRING(0:254) NOT NULL |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)        |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                    |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                    |
| rstat_type_code     | Row status type code   | SHORT                  |
|                     |  |                        |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                        |
|                     | rstat_type_cod   |                        |
|                     |  |                        |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>       |
|                     |  |                        |

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## #16 manufacturer

**Description:** This table provides basic contact information for the manufacturers list.

Note: MIMOSA maintains the site zero (mf\_db\_site = 0) entries in this table. A database can add entries to this table, but must insert the database's primary key in mf\_db\_site and mf\_db\_id columns and then enter the manufacturer's corporate D-U-N-S number in the mf\_duns\_code column. If this is not known, negative numbers can be generated.

Note: mf\_duns\_code is the D-U-N-S number of the corporate office of the manufacturer of the object.

Note: The optional field primary\_sic relates to the primary Standard Industry Code (SIC) for the site. This code is linked in a SIC reference book to the type of industry the site is associated with.

Note: On address lines, line breaks are denoted by a backslash (“\”) character.

| Column             | Description  | Size/Type              |
|--------------------|--|------------------------|
| mf_db_site         |  | INT NOT NULL           |
| mf_db_id           |  | INT NOT NULL           |
| mf_duns_code       |  | INT NOT NULL           |
| manuf_trade_name   |  | STRING(0:254) NOT NULL |
| company_name       |  | STRING(0:254) NOT NULL |
| phys_addr          |  | STRING(0:254)          |
| phys_city_name     |  | STRING(0:30)           |
| phys_state_abbr    |  | STRING(2)              |
| phys_postal_code   |  | STRING(0:10)           |
| phys_country_abbr  |  | STRING(3)              |
| mail_addr          |  | STRING(0:254)          |
| mail_city_name     |  | STRING(0:60)           |
| mail_state_abbr    |  | STRING(2)              |
| mail_postal_code   |  | STRING(10)             |
| mail_country_abbr  |  | STRING(3)              |
| us_phone_number    |  | STRING(10)             |
| int_ph_country_no  |  | STRING(0:3)            |
| int_ph_city_no     |  | STRING(0:5)            |
| int_ph_local_no    |  | STRING(0:10)           |
| us_fax_number      |  | STRING(10)             |
| int_fax_country_no |  | STRING(0:3)            |
| int_fax_city_no    |  | STRING(0:5)            |
| int_fax_local_no   |  | STRING(0:10)           |
| business_desc      |  | STRING(0:254)          |
| primary_sic        |  | STRING(0:8)            |
| gmt_last_updated   | GMT time stamp for the last change to this record                                  | DATETIME(10:29)        |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record | INT                    |
| last_upd_db_id     | Database Id of the database in which   | INT                    |



|                     |   |                                     |
|---------------------|---|-------------------------------------|
|                     | this record was resident when the last change was made to this record |                                     |
| rstat_type_code     | Row status type code  | SHORT                               |
|                     |   |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>  |                                     |
|                     | mf_db_site, mf_db_id, mf_duns_code                                    |                                     |
|                     |   |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>                                      | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)                        | mf_db_site, mf_db_id                |
|                     | <a href="#">site_database</a> (db_site, db_id)                        | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                      | rstat_type_code                     |
|                     |   |                                     |

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## #17 segment\_type

### Description: Service Segment Type Table

This table standardizes the name of service segments: production processes, their inputs and outputs, physical structures, systems, mechanical devices, and mechanical device areas. Many of these segments appear on the engineering blueprints of the site. These are referred to as “service segments” in this model. Service segment types can be thought of as the labels which are used in plant layout drawings showing the process flow, machine trains, and physical buildings in a plant.

Note: "Spares Area/Storeroom/Stock Room/Parts Crib" where spare assets are stored are segments with a segment type in the family tree of (0,1,0)

Note: MIMOSA populates and maintains the site zero (sg\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| sg_db_site          |  | INT NOT NULL                     |
| sg_db_id            |  | INT NOT NULL                     |
| sg_type_code        |  | INT NOT NULL                     |
| name                | Full description   | STRING(0:254) NOT NULL           |
| default_mnemonic    |  | STRING(3)                        |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | sg_db_site, sg_db_id, sg_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sg_db_site, sg_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #22 ref\_unit\_type

### Description: Reference Unit Type Table

Note: MIMOSA populates and maintains this table. No user-defined entries are supported.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| ru_type_code        |  | INT NOT NULL                        |
| name                | Full description   | STRING(0:254) NOT NULL              |
| physics_descr       |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | ru_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #23 eng\_unit\_type

### Description: Engineering Unit Type

Note: MIMOSA populates and maintains the site zero (eu\_db\_site = 0) entries in this table. To convert between units, a multiplication factor from reference plus an offset scalar is provided in the columns mult\_fact\_to\_ref and refer\_off\_to\_ref, respectively.

$$Y[\text{eng units}] = (X[\text{ref units}] * \text{mult\_fact\_to\_ref}) + \text{refer\_off\_to\_ref}$$

$$Y[\text{ref units}] = (X[\text{eng units}] - \text{refer\_off\_to\_ref}) / \text{mult\_fact\_to\_ref}$$

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| eu_db_site          |  | INT NOT NULL                     |
| eu_db_id            |  | INT NOT NULL                     |
| eu_type_code        |  | INT NOT NULL                     |
| ru_type_code        |  | INT NOT NULL                     |
| mult_fact_to_ref    |  | DOUBLE NOT NULL                  |
| refer_off_to_ref    |  | DOUBLE NOT NULL                  |
| name                | Full description   | STRING(0:254) NOT NULL           |
| abbrev              |  | STRING(0:254)                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | eu_db_site, eu_db_id, eu_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | eu_db_site, eu_db_id             |
|                     | <a href="#">ref_unit_type</a> (ru_type_code)   | ru_type_code                     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #24 eng\_unit\_enum

### Description: Engineering Unit Enumerated List Table

This table stores the alpha-numeric data names for engineering units which are of reference unit type “Enumerated List”.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| eu_db_site          |  | INT NOT NULL                          |
| eu_db_id            |  | INT NOT NULL                          |
| eu_type_code        |  | INT NOT NULL                          |
| data_value          |  | INT NOT NULL                          |
| data_name           |  | STRING(0:254) NOT NULL                |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | eu_db_site, eu_db_id, eu_type_code, data_value   |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">eng_unit_type</a> (eng_db_site, eng_db_id, eng_type_code)                                      | eng_db_site, eng_db_id, eng_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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## #25 sg\_num\_dat\_type

### Description: Segment Numeric Data Type Table

This table defines all the numeric data related to a segment.

Note: MIMOSA maintains the site zero (sn\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| sn_db_site          |  | INT NOT NULL                     |
| sn_db_id            |  | INT NOT NULL                     |
| sn_type_code        |  | INT NOT NULL                     |
| name                | Full description   | STRING(0:254) NOT NULL           |
| default_ru_type     |  | INT                              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | sn_db_site, sn_db_id, sn_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sn_db_site, sn_db_id             |
|                     | <a href="#">ref_unit_type</a> (ru_type_code)   | default_ru_type                  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #26    **sg\_chr\_dat\_type**

### **Description: Segment Character Data Type Table**

This table will define all the alpha-numeric data related to a segment.

Note: MIMOSA maintains the site zero (sc\_db\_site = 0) in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| sc_db_site          |  | INT NOT NULL                     |
| sc_db_id            |  | INT NOT NULL                     |
| sc_type_code        |  | INT NOT NULL                     |
| name                | Full description   | STRING(0:254) NOT NULL           |
| default_ru_type     |  | INT                              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | sc_db_site, sc_db_id, sc_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sc_db_site, sc_db_id             |
|                     | <a href="#">ref_unit_type</a> (ru_type_code)   | default_ru_type                  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #29 sg\_as\_event\_type

### Description: Segment / Asset Event Type Table

This table holds the different types of possible events for segments and assets. These include both operating events and failure events such as; Logged Operating Events, Failure “Modes”, Failure “Effects”, Failure “Mechanisms”, Defect Events Abnormal Situations, Alarm Events, etc. An event is NOT work performed by an entity, but a log of the actual events which occurred at a service segment or asset over time.

Note: MIMOSA populates and maintains the site zero (ev\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ev_db_site          |  | INT NOT NULL                     |
| ev_db_id            |  | INT NOT NULL                     |
| event_type_code     | Event type code  | INT NOT NULL                     |
| name                | Full description   | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ev_db_site, ev_db_id, event_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ev_db_site, ev_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #31    **asset\_type**

### **Description: Asset Type Table**

Note: MIMOSA populates and maintains the site zero (as\_db\_site = 0) entries in this table.

Note: "Spares Area/Storeroom/Stock Room/Parts Crib" where spare assets are stored are assets with a asset type in the family tree of (0,1,0)

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| as_db_site          |  | INT NOT NULL                        |
| as_db_id            |  | INT NOT NULL                        |
| as_type_code        |  | INT NOT NULL                        |
| name                | Full description   | STRING(0:254) NOT NULL              |
| default_mnemonic    |  | STRING(3)                           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | as_db_site, as_db_id, as_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | as_db_site, as_db_id                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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### #33 as\_num\_dat\_type

**Description: Asset Numeric Data Type Table**

This table will define all the numeric data related to an asset or a model of an asset.

Note: MIMOSA maintains the site zero (an\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| an_db_site          |  | INT NOT NULL                        |
| an_db_id            |  | INT NOT NULL                        |
| an_type_code        |  | INT NOT NULL                        |
| name                | Full description   | STRING(0:254) NOT NULL              |
| default_ru_type     |  | INT                                 |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | an_db_site, an_db_id, an_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | an_db_site, an_db_id                |
|                     | <a href="#">ref_unit_type</a> (ru_type_code)   | default_ru_type                     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #34 as\_chr\_dat\_type

### Description: Asset Character Data Type Table

This table defines all the alpha-numeric character data related to an asset or a model of an asset.

Note: MIMOSA maintains the site zero (ac\_db\_site = 0) in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| ac_db_site          |  | INT NOT NULL                        |
| ac_db_id            |  | INT NOT NULL                        |
| ac_type_code        |  | INT NOT NULL                        |
| name                | Full description   | STRING(0:254) NOT NULL              |
| default_ru_type     |  | INT                                 |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | ac_db_site, ac_db_id, ac_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ac_db_site, ac_db_id                |
|                     | <a href="#">ref_unit_type</a> (ru_type_code)   | default_ru_type                     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #46 tr\_axis\_dir\_type

### Description: Transducer Sensitive Axis Direction Type Table

This table stores types of sensitive axis directions which relate to transducers placed at measurement locations on machinery. The axis direction to use for monitoring rotating machinery should conform to the MIMOSA guidelines as specified in MIMOSA Document MIM-VB-001.

Note: MIMOSA populates and maintains the site zero (ta\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ta_db_site          |  | INT NOT NULL                     |
| ta_db_id            |  | INT NOT NULL                     |
| ta_type_code        |  | INT NOT NULL                     |
| name                | Full description   | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ta_db_site, ta_db_id, ta_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ta_db_site, ta_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #51 data\_source\_type

### Description: Data Source Type Table

Note: MIMOSA populates and maintains the site zero (ds\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ds_db_site          |  | INT NOT NULL                     |
| ds_db_id            |  | INT NOT NULL                     |
| ds_type_code        |  | INT NOT NULL                     |
| name                | Full description   | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ds_db_site, ds_db_id, ds_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ds_db_site, ds_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #53 trans\_type

### Description: Transducer Type Table

A subset of the asset type table which defines the types of assets which are valid types of transducers.

Note: The tr\_type\_abbrev field is an optional 2-character abbreviation for the transducer type as defined for vibration in MIMOSA Document MIM-VB-001.

Note: MIMOSA populates and maintains the site zero (tr\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| tr_db_site          |  | INT NOT NULL                       |
| tr_db_id            |  | INT NOT NULL                       |
| tr_type_code        |  | INT NOT NULL                       |
| name                | Full description   | STRING(0:254) NOT NULL             |
| tr_type_abbrev      |  | STRING(2)                          |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | tr_db_site, tr_db_id, tr_type_code   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | tr_db_site, tr_db_id, tr_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## #55 meas\_loc\_type

### Description: Measurement Location Type Table

This table stores all the various types of measurement locations.

Note: MIMOSA populates and maintains all site zero (ml\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| ml_db_site          |  | INT NOT NULL                        |
| ml_db_id            |  | INT NOT NULL                        |
| ml_type_code        |  | INT NOT NULL                        |
| name                | Full description   | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | ml_db_site, ml_db_id, ml_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ml_db_site, ml_db_id                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #60 alarm\_severity

### Description: Alarm Severity Table

This table stores the entries possible for alarm severity.

Note: MIMOSA populates and maintains this table. No user-defined entries are supported.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| al_severity_rank    |  | SHORT NOT NULL                      |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | al_severity_rank   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #61 alarm\_type

### Description: Alarm Type Table

This table stores the different types of alarms used by a database, along with its severity ranking and name.

Note: MIMOSA populates and maintains the site zero (al\_db\_site = 0) entries for this table

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| al_db_site          |  | INT NOT NULL                     |
| al_db_id            |  | INT NOT NULL                     |
| al_type_code        |  | INT NOT NULL                     |
| al_severity_rank    |  | SHORT NOT NULL                   |
| name                | Full description   | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | al_db_site, al_db_id, al_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | al_db_site, al_db_id             |
|                     | <a href="#">alarm_severity</a> (al_severity_rank)  | al_severity_rank                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #64 signal\_proc\_type

Description: Signal Process Type Table

This table stores all the various types of signal processing that could be defined.

Note: MIMOSA maintains the site zero (sp\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| sp_db_site          |  | INT NOT NULL                        |
| sp_db_id            |  | INT NOT NULL                        |
| sp_type_code        |  | INT NOT NULL                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | sp_db_site, sp_db_id, sp_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sp_db_site, sp_db_id                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #66 sp\_num\_dat\_type

### Description: Signal Process Block Numeric Data Type Table

This table stores all the various types of numeric data associated with signal process blocks. Data associated with averaging, source detection, and windows can optionally be stored here, but should be specified when data is stored in the actual time waveform, FFT, CPB or single amplitude value / vector data tables.

Note: MIMOSA populates and maintains the site zero (spn\_db\_site = 0) entries for this table

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| spn_db_site         |  | INT NOT NULL                     |
| spn_db_id           |  | INT NOT NULL                     |
| spn_type_code       |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | spn_db_site, spn_db_id, spn_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | spn_db_site, spn_db_id           |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #70 average\_type

### Description: Average Type Table

This table stores different types of signal processing averaging methods

Note: MIMOSA maintains the site zero (ave\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ave_db_site         |  | INT NOT NULL                     |
| ave_db_id           |  | INT NOT NULL                     |
| ave_type_code       |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ave_db_site, ave_db_id, ave_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ave_db_site, ave_db_id           |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #71    ave\_weight\_type

### Description: Average Weight Type Table

This table stores different types of signal processing average weighting methods.

Note: MIMOSA maintains the site zero (ave\_wt\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ave_wt_db_site      |  | INT NOT NULL                     |
| ave_wt_db_id        |  | INT NOT NULL                     |
| ave_wt_type_code    |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ave_wt_db_site, ave_wt_db_id, ave_wt_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ave_wt_db_site, ave_wt_db_id     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #72    ave\_synch\_type

### Description: Average Synchronization Type Table

This table stores different types of signal processing averaging synchronization methods.

Note: MIMOSA maintains the site zero (ave\_sy\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ave_sy_db_site      |  | INT NOT NULL                     |
| ave_sy_db_id        |  | INT NOT NULL                     |
| ave_sy_type_code    |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ave_sy_db_site, ave_sy_db_id, ave_sy_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ave_sy_db_site, ave_sy_db_id     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #73 src\_detect\_type

### Description: Source Signal Detector Type Table

This table stores different source signal detector types

Note: MIMOSA maintains the site zero (src\_dt\_db\_site = 0) entries in this table

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| src_dt_db_site      |  | INT NOT NULL                     |
| src_dt_db_id        |  | INT NOT NULL                     |
| src_dt_type_code    |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | src_dt_db_site, src_dt_db_id, src_dt_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | src_dt_db_site, src_dt_db_id     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #74 post\_scaling\_type

### Description: Post-processed Signal Processing Scaling Mode Table

This table stores different types of signal processing scaling methods

Note: MIMOSA maintains the site zero (src\_dt\_db\_site = 0) entries in this table

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| pst_sc_db_site      |  | INT NOT NULL                     |
| pst_sc_db_id        |  | INT NOT NULL                     |
| pst_sc_type_code    |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | pst_sc_db_site, pst_sc_db_id, pst_sc_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | pst_sc_db_site, pst_sc_db_id     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #80 window\_type

### Description: Window Type Table

This table stores different types of FFT and time waveform windows.

Note: The pf\_multiplier column is the power factor multiplier for the window

Note: MIMOSA maintains the site zero (win\_db\_site = 0) entries in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| win_db_site         |  | INT NOT NULL                     |
| win_db_id           |  | INT NOT NULL                     |
| win_type_code       |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| pf_multiplier       |  | DOUBLE NOT NULL                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | win_db_site, win_db_id, win_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | win_db_site, win_db_id           |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #88 data\_qual\_type

### Description: Data Quality Type Table

The data quality type defines the various quality states with which data in tables can be classified. These come from the ISO 9000-2 status guidelines:

- 1 = Not Inspected, Quality Unknown
- 2 = Inspected and Accepted, Quality Good
- 3 = Inspected and On Hold, Quality Under Review
- 4 = Inspected and Rejected, Quality Bad

Note: MIMOSA populates and maintains this table. No user-defined entries are supported.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| dqual_type_code     |  | SHORT NOT NULL                      |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | dqual_type_code  |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #98 segment\_type\_child

### Description: Segment Type Child Table

This table shows the parent-child relationships structure of the logical taxonomy of segment types - from the general to more specific. This table will support various classification schemes as desired by different MIMOSA databases.

| Column              | Description  | Size/Type  |
|---------------------|--|--|
| sg_db_site          |  | INT NOT NULL   |
| sg_db_id            |  | INT NOT NULL   |
| sg_type_code        |  | INT NOT NULL   |
| child_sg_db_site    |  | INT NOT NULL   |
| child_sg_db_id      |  | INT NOT NULL   |
| child_sg_type_code  |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                      |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sg_db_site, sg_db_id, sg_type_code, child_sg_db_site, child_sg_db_id, child_sg_type_code                   |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                     |
|                     | segment_type(sg_db_site, sg_db_id, sg_type_code)   | sg_db_site, sg_db_id, sg_type_code                   |
|                     | segment_type(sg_db_site, sg_db_id, sg_type_code)   | child_sg_db_site, child_sg_db_id, child_sg_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                      |
|                     |  |  |

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## #99    **asset\_type\_child**

### **Description: Asset Type Child Table**

This table shows the parent-child relationships structure of the logical taxonomy of asset types - from the general to more specific. This table will support various classification schemes as desired by different MIMOSA databases.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                     |
|---------------------|--|--|
| as_db_site          |  | INT NOT NULL   |
| as_db_id            |  | INT NOT NULL   |
| as_type_code        |  | INT NOT NULL   |
| child_as_db_site    |  | INT NOT NULL   |
| child_as_db_id      |  | INT NOT NULL   |
| child_as_type_code  |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                      |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | as_db_site, as_db_id, as_type_code, child_as_db_site, child_as_db_id, child_as_type_code                   |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                     |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | as_db_site, as_db_id, as_type_code                   |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | child_as_db_site, child_as_db_id, child_as_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                      |
|                     |  |  |

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**#103 severity\_type****Description: Severity Types**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| severity_rank       |  | INT NOT NULL                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | severity_rank  |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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**#104 health\_grade\_type****Description: Health Grade Type Table**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| hgrade_type_code    |  | INT NOT NULL                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | hgrade_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #106 priority\_type

### Description: Priority Type Table

This table maintains the levels of priority for Recommendations and Work Requests

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| priority_type_code  |  | INT NOT NULL                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | priority_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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**#107 ev\_num\_data\_type****Description: Segment / Asset Event Numeric Data Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| en_db_site          |  | INT NOT NULL                        |
| en_db_id            |  | INT NOT NULL                        |
| en_type_code        |  | INT NOT NULL                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | en_db_site, en_db_id, en_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | en_db_site, en_db_id                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #108 work\_task\_type

### Description: Work Task Types Table

This table maintains types of work tasks, steps, actions, activities, etc.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| task_db_site        |  | INT NOT NULL                     |
| task_db_id          |  | INT NOT NULL                     |
| task_type_code      |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | task_db_site, task_db_id, task_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | task_db_site, task_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#109 agent\_type****Description: Agent Type Table**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| agent_db_site       |  | INT NOT NULL                     |
| agent_db_id         |  | INT NOT NULL                     |
| agent_type_code     |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | agent_db_site, agent_db_id, agent_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | agent_db_site, agent_db_id       |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #110 agent\_role\_type

### Description: Agent Role Type Table

This table identifies possible agent role types, i.e. Manager, Owner, Employer, Buyer, Operator, etc.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ag_role_db_site     |  | INT NOT NULL                     |
| ag_role_db_id       |  | INT NOT NULL                     |
| ag_role_type_code   |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ag_role_db_site, ag_role_db_id, ag_role_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ag_role_db_site, ag_role_db_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #119 work\_audit\_type

### Description: Work Audit Type Table

This table maintains the audit types for Work Requests, Work Orders and Work Order Steps

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| waudit_db_site      |  | INT NOT NULL                     |
| waudit_db_id        |  | INT NOT NULL                     |
| waudit_type_code    |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | waudit_db_site, waudit_db_id, waudit_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | waudit_db_site, waudit_db_id     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #121 event\_type\_child

### Description: Event Type Child Table

This table maintains parent-child relationships among the different types of possible events for segments and assets. Events include both operating events and failure events such as; Logged Operating Events, Failure “Modes”, Failure “Effects”, Failure “Mechanisms”, Defect Events Abnormal Situations, Alarm Events, etc. An event is NOT work performed by an entity, but a log of the actual events which occurred at a service segment or asset over time.

| <u>Column</u>         | <u>Description</u>   | <u>Size/Type</u>  |
|-----------------------|--|---|
| ev_db_site            |  | INT NOT NULL  |
| ev_db_id              |  | INT NOT NULL  |
| event_type_code       |  | INT NOT NULL  |
| child_ev_db_site      |  | INT NOT NULL  |
| child_ev_db_id        |  | INT NOT NULL  |
| child_event_type_code |  | INT NOT NULL  |
| gmt_last_updated      | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site      | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id        | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code       | Row status type code   | SHORT   |
|                       |  |   |
| <u>Primary Key</u>    | <u>Column(s)</u>   |   |
|                       | ev_db_site, ev_db_id, event_type_code, child_ev_db_site, child_ev_db_id, child_event_type_code             |   |
|                       |  |   |
| <u>Foreign Keys</u>   | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                       | <a href="#">sg_as_event_type</a> (ev_db_site, ev_db_id, event_type_code)                                   | ev_db_site, ev_db_id, event_type_code                   |
|                       | <a href="#">sg_as_event_type</a> (ev_db_site, ev_db_id, event_type_code)                                   | child_ev_db_site, child_ev_db_id, child_event_type_code |
|                       | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                        |
|                       | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                       |  |   |

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## #128 work\_manage\_type

### Description: Work Management Types Table

This table stores types of work management work requests & work orders

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| wm_type_db_site     |  | INT NOT NULL                     |
| wm_type_db_id       |  | INT NOT NULL                     |
| wm_type_code        |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | wm_type_db_site, wm_type_db_id, wm_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | wm_type_db_site, wm_type_db_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #150 wtask\_type\_child

### Description: Work Task Type Child Table

This table shows the parent-child relationships structure of the logical taxonomy of work task types - from the general to more specific. This table will support various classification schemes as desired by different MIMOSA databases.

| Column              | Description  | Size/Type  |
|---------------------|--|--|
| task_db_site        |  | INT NOT NULL   |
| task_db_id          |  | INT NOT NULL   |
| task_type_code      |  | INT NOT NULL   |
| child_tk_db_site    |  | INT NOT NULL   |
| child_tk_db_id      |  | INT NOT NULL   |
| child_tk_type_code  |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                      |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | task_db_site, task_db_id, task_type_code, child_tk_db_site, child_tk_db_id, child_tk_type_code             |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                     |
|                     | <a href="#">work_task_type</a> (task_db_site, task_db_id, task_type_code)                                  | task_db_site, task_db_id, task_type_code             |
|                     | <a href="#">work_task_type</a> (task_db_site, task_db_id, task_type_code)                                  | child_tk_db_site, child_tk_db_id, child_tk_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                      |
|                     |  |  |

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## #151 change\_patt\_type

### Description: Change Pattern Type Table

This table maintains the types of change pattern observed in problems

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ch_patt_db_site     |  | INT NOT NULL                     |
| ch_patt_db_id       |  | INT NOT NULL                     |
| ch_patt_type_code   |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ch_patt_db_site, ch_patt_db_id, ch_patt_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ch_patt_db_site, ch_patt_db_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #160 sample\_test\_type

### Description: Sample Test Type Table

This table defines types of Oil / Water / Fluid / Air / Gas / Solid sample tests

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| stt_db_site         |  | INT NOT NULL                     |
| stt_db_id           |  | INT NOT NULL                     |
| stt_code            |  | INT NOT NULL                     |
| abbrev              |  | STRING(0:254)                    |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | stt_db_site, stt_db_id, stt_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | stt_db_site, stt_db_id           |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #161 test\_result\_ntype

### Description: Test Results Numeric Data Type

This table maintains numeric results for Oil / Water / Fluid / Air / Gas / Solid / Electrical tests

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| strn_db_site        |  | INT NOT NULL                     |
| strn_db_id          |  | INT NOT NULL                     |
| str_num_type_code   |  | INT NOT NULL                     |
| abbrev              |  | STRING(0:254)                    |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | strn_db_site, strn_db_id, str_num_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | strn_db_site, strn_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #162 blob\_data\_type

### Description: BLOB Data Type Table

This table stores types of Binary Large Object Data such as a Bitmapped Drawing or Image, Ferrographic Image, Thermographic Image, Digitized Video Clip, Document, etc.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| bd_db_site          |  | INT NOT NULL                     |
| bd_db_id            |  | INT NOT NULL                     |
| bd_type_code        |  | INT NOT NULL                     |
| abbrev              |  | STRING(0:254)                    |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | bd_db_site, bd_db_id, bd_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | bd_db_site, bd_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #167 test\_result\_btype

### Description: Test Results Binary Large Object Data Type

This table maintains BLOB form results for Oil / Water / Fluid / Air / Gas  
/ Solid / Electrical tests

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| strb_db_site        |  | INT NOT NULL                     |
| strb_db_id          |  | INT NOT NULL                     |
| str_blob_type_code  |  | INT NOT NULL                     |
| abbrev              |  | STRING(0:254)                    |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | strb_db_site, strb_db_id, str_blob_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | strb_db_site, strb_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #170 work\_num\_data\_type

### Description: Work Numeric Data Type Table

This table maintains numeric data types for Work Requests, Work Orders and Work Order Steps

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| wn_db_site          |  | INT NOT NULL                     |
| wn_db_id            |  | INT NOT NULL                     |
| wn_type_code        |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | wn_db_site, wn_db_id, wn_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | wn_db_site, wn_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#171 work\_chr\_data\_type****Description: Work Character Data Type Table**

This table maintains character data types for Work Requests, Work Orders and Work Order Steps

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| wc_db_site          |  | INT NOT NULL                     |
| wc_db_id            |  | INT NOT NULL                     |
| wc_type_code        |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | wc_db_site, wc_db_id, wc_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | wc_db_site, wc_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #182 solution\_pack\_type

### Description: Solution Package Type Table

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| sol_db_site         |  | INT NOT NULL                        |
| sol_db_id           |  | INT NOT NULL                        |
| sol_type_code       |  | INT NOT NULL                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | sol_db_site, sol_db_id, sol_type_code  |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sol_db_site, sol_db_id              |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #212 sample\_ndata\_type

**Description: Sample Numeric Data Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| snum_db_site        |  | INT NOT NULL                     |
| snum_db_id          |  | INT NOT NULL                     |
| snum_type_code      |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | snum_db_site, snum_db_id, snum_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | snum_db_site, snum_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #215 mim\_tech\_type

### Description: Types of MIMOSA Technology

This table identifies all technology types of the MIMOSA database.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| tech_type_code      |  | INT NOT NULL                        |
| abbrev              |  | STRING(0:40)                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | tech_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #216 mim\_support\_type

### Description: MIMOSA Support Levels

This table identifies support levels for the MIMOSA database.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| supp_type_code      |  | INT NOT NULL                        |
| abbrev              |  | STRING(0:40)                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | supp_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #217 mim\_data\_cat\_type

### Description: MIMOSA Data Categories

This table identifies all category types for data in the MIMOSA database.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| dcat_type_code      |  | INT NOT NULL                        |
| abbrev              |  | STRING(0:40)                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | dcat_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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**#261 sp\_stream\_type****Description: Signal Process Stream Type Table**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| sps_type_db_site    |  | INT NOT NULL                     |
| sps_type_db_id      |  | INT NOT NULL                     |
| sps_type_code       |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | sps_type_db_site, sps_type_db_id, sps_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sps_type_db_site, sps_type_db_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#283 network\_type****Description: Network Type Table**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| nt_db_site          |  | INT NOT NULL                     |
| nt_db_id            |  | INT NOT NULL                     |
| nt_type_code        |  | INT NOT NULL                     |
| name                |  | STRING(0:254)                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | nt_db_site, nt_db_id, nt_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | nt_db_site, nt_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#286 test\_result\_ctype****Description: Test Results Character Data Type**

This table maintains character data results for Oil / Water / Fluid / Air /  
Gas / Solid / Electrical tests

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| strc_db_site        |  | INT NOT NULL                     |
| strc_db_id          |  | INT NOT NULL                     |
| str_chr_type_code   |  | INT NOT NULL                     |
| abbrev              |  | STRING(0:254)                    |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | strc_db_site, strc_db_id, str_chr_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | strc_db_site, strc_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#290 sample\_cdata\_type****Description: Sample Character Data Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| schr_db_site        |  | INT NOT NULL                     |
| schr_db_id          |  | INT NOT NULL                     |
| schr_type_code      |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | schr_db_site, schr_db_id, schr_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | schr_db_site, schr_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#291 mevent\_blob\_type****Description: Measurement Event Binary Large Object Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| mebt_db_site        |  | INT NOT NULL                     |
| mebt_db_id          |  | INT NOT NULL                     |
| meb_type_code       |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | mebt_db_site, mebt_db_id, meb_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | mebt_db_site, mebt_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #292 highlight\_type

### Description: Highlight Type Table

Defines highlight area types for drawing attention to certain locations,  
now used for BLOB areas

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| high_db_site        |  | INT NOT NULL                     |
| high_db_id          |  | INT NOT NULL                     |
| high_type_code      |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | high_db_site, high_db_id, high_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | high_db_site, high_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#323 purchase\_cond\_type****Description: Purchase Condition Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| pc_db_site          |  | INT NOT NULL                     |
| pc_db_id            |  | INT NOT NULL                     |
| pc_type_code        |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | pc_db_site, pc_db_id, pc_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | pc_db_site, pc_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#324 as\_readiness\_type****Description: Asset Readiness Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| asr_db_site         |  | INT NOT NULL                     |
| asr_db_id           |  | INT NOT NULL                     |
| asr_type_code       |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| description         |  | STRING(0:254)                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | asr_db_site, asr_db_id, asr_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | asr_db_site, asr_db_id           |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#325 mloc\_calc\_type****Description: Measurement Location Data Collection Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| mc_db_site          |  | INT NOT NULL                     |
| mc_db_id            |  | INT NOT NULL                     |
| mc_type_code        |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| description         |  | STRING(0:254)                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | mc_db_site, mc_db_id, mc_type_code   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | mc_db_site, mc_db_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#326 mim\_func\_type****Description: MIMOSA Functionality Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| func_type_code      |  | INT NOT NULL                        |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | func_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #327 mim\_interface\_type

**Description:** MIMOSA Interface Type

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                    |
|---------------------|--|-------------------------------------|
| interf_type_code    |  | INT NOT NULL                        |
| dcat_type_code      |  | INT NOT NULL                        |
| supp_type_code      |  | INT NOT NULL                        |
| func_type_code      |  | INT NOT NULL                        |
| tech_type_code      |  | INT NOT NULL                        |
| version_supported   |  | SHORT NOT NULL                      |
| subversion_supp     |  | SHORT NOT NULL                      |
| name                |  | STRING(0:254) NOT NULL              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                 |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                 |
| rstat_type_code     | Row status type code   | SHORT                               |
|                     |  |                                     |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                     |
|                     | interf_type_code   |                                     |
|                     |  |                                     |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                    |
|                     | <a href="#">mim_data_cat_type</a> (dcat_type_code)   | dcat_type_code                      |
|                     | <a href="#">mim_support_type</a> (supp_type_code)  | supp_type_code                      |
|                     | <a href="#">mim_func_type</a> (func_type_code)   | func_type_code                      |
|                     | <a href="#">mim_tech_type</a> (tech_type_code)   | tech_type_code                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                     |
|                     |  |                                     |

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## #329 mloc\_type\_child

### Description: Measurement Location Type Child Table

The mloc\_type\_child table shows the parent-child relationships of measurement location types to each other. For example, measurement location type “Speed, Shaft, Input Shaft” is the child of measurement location type “Speed, Shaft” which is the child of measurement location type “Speed”. The model allows for more than one measurement location type to be the child of more than one measurement location type.

The mandatory ordering sequence specifies the order in which child measurement location types appear when an application requests “all children” of a particular measurement location type.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                     |
|---------------------|--|--|
| ml_db_site          |  | INT NOT NULL   |
| ml_db_id            |  | INT NOT NULL   |
| ml_type_code        |  | INT NOT NULL   |
| child_ml_db_site    |  | INT NOT NULL   |
| child_ml_db_id      |  | INT NOT NULL   |
| child_ml_type_code  |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                      |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | ml_db_site, ml_db_id, ml_type_code, child_ml_db_site, child_ml_db_id, child_ml_type_code                   |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                     |
|                     | <a href="#">meas_loc_type</a> (ml_db_site, ml_db_id, ml_type_code)   | ml_db_site, ml_db_id, ml_type_code                   |
|                     | <a href="#">meas_loc_type</a> (ml_db_site, ml_db_id, ml_type_code)   | child_ml_db_site, child_ml_db_id, child_ml_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                      |
|                     |  |  |

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### #333 blob\_content\_type

**Description: Blob Content Type Table**

This table stores the content types of Binary Large Object Data for Segments, Assets, Models and Ordered Lists.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| blct_db_site        |  | INT NOT NULL                     |
| blct_db_id          |  | INT NOT NULL                     |
| blc_type_code       |  | INT NOT NULL                     |
| name                |  | STRING(0:254) NOT NULL           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | blct_db_site, blct_db_id, blc_type_code  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | blct_db_site, blct_db_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## **Service Segment / Location Tables**

### **#18    segment**

#### **Description: Service Segment Table**

This table stores all the service segments which have been designed to perform a function at a site. Service segments include production processes, their inputs and outputs, physical structures, systems, mechanical devices, and mechanical device areas. Many of these segments appear on the engineering blueprints of the site. These segments include components which perform a function (e.g. Turbine-driven pump 1A, Motor outboard bearing, etc.) but do NOT describe the particular asset tracked by the manufacturer, model number, and serial number in the database. This is done in the asset table. Some databases track only data tied to service segments such as a machine train component, but do not tie the measurement data to the physical component assets installed at the time the data was taken. These databases cannot track, for example, a physical motor which is taken out of one machine train, cleaned, and then later used in another train. Other systems track physical assets and tie measurements to them. In order to provide maximum flexibility, this model allows both functional segment objects at a site and physical objects at a site to be placed in the database and data can be related to both as necessary. Table #44 (asset\_on\_segment) stores the utilization of a particular asset on a given segment with the time it was installed and removed.

The segment\_child table shows the parent-child relationships of segments to each other. For example, segment “Steam Turbine” at site “ABC” is the child of segment “Turbine Generator #1” which is the child of segment “Power Generation Line #1”. The model allows for more than one segment to be the child of more than one segment.

The segment\_group\_yn field when set to “Y” means that this segment is really a segment composed of 2 or more segments of the same type. If a count of total segments is made from the database, these group segments should be ignored.

Note: Segment\_id is used like a barcode – to assign a unique, non-changeable identifier since a primary key cannot change and must uniquely define the entity. The user\_tag\_ident field is the identifier which is meaningful to the plant.

Note: Computer systems monitoring or recording information on the same segment should utilize the same segment\_site, segment\_id pair.

Note: User\_tag\_ident is the user identification tag which follows the nomenclature of the plant. This is normally an abbreviation or user-defined alpha-numeric code from which the plant derives meaning. This column is mandatory.

Note: The name column is an optional column which is a full description of the segment.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| segment_site        |  | INT NOT NULL                       |
| segment_id          |  | INT NOT NULL                       |
| sg_db_site          |  | INT NOT NULL                       |
| sg_db_id            |  | INT NOT NULL                       |
| sg_type_code        |  | INT NOT NULL                       |
| segment_group_yn    |  | STRING(1) NOT NULL                 |
| user_tag_ident      |  | STRING(0:254) NOT NULL             |
| name                | Full description   | STRING(0:254)                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | segment_site, segment_id   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">site</a> (site_code)   | segment_site                       |
|                     | <a href="#">segment_type</a> (sg_db_site, sg_db_id, sg_type_code)  | sg_db_site, sg_db_id, sg_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## #19 segment\_child

### Description: Segment Child Table

The segment\_child table shows the parent-child relationships of segments to each other. For example, segment “Steam Turbine” at site “ABC” is the child of segment “Turbine Generator #1” which is the child of segment “Power Generation Line #1”. The model allows for more than one segment to be the child of more than one segment.

The mandatory ordering sequence specifies the order in which child segments appear when an application requests “all children” of a particular segment. The ordering sequence of machine segments, coupling segments, and bearing segments on a rotating machine train should conform to MIMOSA guidelines as specified in Document MIM-VB-001.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| segment_site        |  | INT NOT NULL                     |
| segment_id          |  | INT NOT NULL                     |
| child_sg_site       |  | INT NOT NULL                     |
| child_sg_id         |  | INT NOT NULL                     |
| ordering_seq        |  | INT NOT NULL                     |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | segment_site, segment_id, child_sg_site, child_sg_id   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id         |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | child_sg_site, child_sg_id       |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #27 segment\_num\_data

### Description: Segment Numeric Data Table

This table will hold all the numeric nameplate and composition data related to a segment.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| segment_site        |  | INT NOT NULL                       |
| segment_id          |  | INT NOT NULL                       |
| sn_db_site          |  | INT NOT NULL                       |
| sn_db_id            |  | INT NOT NULL                       |
| sn_type_code        |  | INT NOT NULL                       |
| eu_db_site          |  | INT NOT NULL                       |
| eu_db_id            |  | INT NOT NULL                       |
| eu_type_code        |  | INT NOT NULL                       |
| data_value          |  | DOUBLE NOT NULL                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | segment_site, segment_id, sn_db_site, sn_db_id, sn_type_code   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id           |
|                     | <a href="#">sg_num_dat_type</a> (sn_db_site, sn_db_id, sn_type_code)                                       | sn_db_site, sn_db_id, sn_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## #28 segment\_chr\_data

### Description: Segment Character Data Table

This table will hold all the alpha-numeric data related to a segment.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| segment_site        |  | INT NOT NULL                       |
| segment_id          |  | INT NOT NULL                       |
| sc_db_site          |  | INT NOT NULL                       |
| sc_db_id            |  | INT NOT NULL                       |
| sc_type_code        |  | INT NOT NULL                       |
| eu_db_site          |  | INT NOT NULL                       |
| eu_db_id            |  | INT NOT NULL                       |
| eu_type_code        |  | INT NOT NULL                       |
| data_value          |  | STRING(0:254) NOT NULL             |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | segment_site, segment_id, sc_db_site, sc_db_id, sc_type_code   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id           |
|                     | <a href="#">sc_chr_dat_type</a> (sc_db_site, sc_db_id, sc_type_code)                                       | sc_db_site, sc_db_id, sc_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## **Asset Tables**

### **#32    model**

**Description: Model / Part Number Table (Model Asset)**

This table will store the unique manufacturer and model / part number for a specific type of asset like a turbine, motor , bearing, etc.

Note: The revision number is part of the primary key and is used when a model of a piece of equipment is modified by the manufacturer and specifications will need to be tracked separately for each revision. If no revision information is known, this field should contain zero.

Note: MIMOSA maintains the site zero (mf\_db\_site = 0) entries in this table in order to provide standardized lists of known turbines, bearings, etc.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| mf_db_site          |  | INT NOT NULL                       |
| mf_db_id            |  | INT NOT NULL                       |
| mf_duns_code        |  | INT NOT NULL                       |
| model_number        |  | STRING(0:254) NOT NULL             |
| revision_number     |  | INT NOT NULL                       |
| as_db_site          |  | INT NOT NULL                       |
| as_db_id            |  | INT NOT NULL                       |
| as_type_code        |  | INT NOT NULL                       |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number  |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">manufacturer</a> (mf_db_site, mf_db_id, mf_duns_code)  | mf_db_site, mf_db_id, mf_duns_code |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | as_db_site, as_db_id, as_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## #97 model\_child

### Description: Model / Part Child Table

The Model/Part Child table shows the parent-child relationships of model parts to each other. This might be derived from the drawing schematic diagrams provided by an equipment manufacturer.

Note: The mandatory ordering sequence, `ordering_seq`, specifies the order in which child assets will appear when an application requests “all children” of a particular model.

| <u>Column</u>                   | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------------------|---|--|
| <code>mf_db_site</code>         |   | INT NOT NULL   |
| <code>mf_db_id</code>           |   | INT NOT NULL   |
| <code>mf_duns_code</code>       |   | INT NOT NULL   |
| <code>model_number</code>       |   | STRING(0:254) NOT NULL   |
| <code>revision_number</code>    |   | INT NOT NULL   |
| <code>child_mf_db_site</code>   |   | INT NOT NULL   |
| <code>child_mf_db_id</code>     |   | INT NOT NULL   |
| <code>child_mf_duns_code</code> |   | INT NOT NULL   |
| <code>child_model_num</code>    |   | STRING(0:254) NOT NULL   |
| <code>child_revision_num</code> |   | INT NOT NULL   |
| <code>ordering_seq</code>       |   | INT NOT NULL   |
| <code>gmt_last_updated</code>   | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| <code>last_upd_db_site</code>   | Site code (from the site table) for the site making the last change to this record  | INT  |
| <code>last_upd_db_id</code>     | Database Id of the database in which this record was resident when the last change was made to this record  | INT  |
| <code>rstat_type_code</code>    | Row status type code  | SHORT  |
|                                 |   |  |
| <u>Primary Key</u>              | <u>Column(s)</u>  |  |
|                                 | <code>mf_db_site</code> , <code>mf_db_id</code> , <code>mf_duns_code</code> , <code>model_number</code> , <code>revision_number</code> , <code>child_mf_db_site</code> , <code>child_mf_db_id</code> , <code>child_mf_duns_code</code> , <code>child_model_num</code> , <code>child_revision_num</code> |  |
|                                 |   |  |
| <u>Foreign Keys</u>             | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                                 | <a href="#">model</a> ( <code>mf_db_site</code> , <code>mf_db_id</code> , <code>mf_duns_code</code> , <code>model_number</code> , <code>revision_number</code> )  | <code>mf_db_site</code> , <code>mf_db_id</code> , <code>mf_duns_code</code> , <code>model_number</code> , <code>revision_number</code>                         |
|                                 | <a href="#">model</a> ( <code>mf_db_site</code> , <code>mf_db_id</code> , <code>mf_duns_code</code> , <code>model_number</code> , <code>revision_number</code> )  | <code>child_mf_db_site</code> , <code>child_mf_db_id</code> , <code>child_mf_duns_code</code> , <code>child_model_num</code> , <code>child_revision_num</code> |
|                                 | <a href="#">site_database</a> ( <code>db_site</code> , <code>db_id</code> )   | <code>last_upd_db_site</code> , <code>last_upd_db_id</code>  |

|  |  |                 |
|--|--|-----------------|
|  | <a href="#">row_status_type</a> (rstat_type_cod) | rstat_type_code |
|  |  |                 |

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## #35 model\_num\_data

### Description: Model Numeric Data Table

This table will hold all the numeric nameplate and composition data related to a model.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| mf_db_site          |  | INT NOT NULL  |
| mf_db_id            |  | INT NOT NULL  |
| mf_duns_code        |  | INT NOT NULL  |
| model_number        |  | STRING(0:254) NOT NULL  |
| revision_number     |  | INT NOT NULL  |
| an_db_site          |  | INT NOT NULL  |
| an_db_id            |  | INT NOT NULL  |
| an_type_code        |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| data_value          |  | DOUBLE NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, an_db_site, an_db_id, an_type_code      |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">model</a> (mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number)                  | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number |
|                     | <a href="#">as_num_dat_type</a> (an_db_site, an_db_id, an_type_code)                                       | an_db_site, an_db_id, an_type_code                                |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code                                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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## #36 model\_chr\_data

### Description: Model Character Data Table

This table will hold all the alpha-numeric nameplate and composition data related to a model.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| mf_db_site          |  | INT NOT NULL  |
| mf_db_id            |  | INT NOT NULL  |
| mf_duns_code        |  | INT NOT NULL  |
| model_number        |  | STRING(0:254) NOT NULL  |
| revision_number     |  | INT NOT NULL  |
| ac_db_site          |  | INT NOT NULL  |
| ac_db_id            |  | INT NOT NULL  |
| ac_type_code        |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| data_value          |  | STRING(0:254) NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, an_db_site, an_db_id, an_type_code      |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">model</a> (mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number)                  | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number |
|                     | <a href="#">as_chr_dat_type</a> (ac_db_site, ac_db_id, ac_type_code)                                       | ac_db_site, ac_db_id, ac_type_code                                |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code                                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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## #37    asset

### Description: Serialized Asset Table

This table stores any asset at any site. These might include actual motors, turbines, bearings, data collectors, transducers, etc. Optionally, one can associate this physical asset with a service segment of the same type as the asset in a 1 to 1 association. For example, asset “Induction Motor Model XYZ” with a specific manufacturer can currently be installed on segment “Induction Motor” at site #343434323.

Note: The model allows for more than one asset to be the child of more than 1 parent asset through the asset\_child table.

Note: asset\_org\_site is the ORIGINAL site where the object was installed and always remains part of the primary key. This asset may move to another site, but the asset\_org\_site and asset\_id should remain the same. This relates to the Vehicle ID Number (VIN) on an automobile. The car may change owners but the VIN number does not change.

Note: Asset\_id is used like a barcode – to assign a unique, non-changeable identifier since a primary key cannot change and must uniquely define the entity. The user\_tag\_ident field is the identifier which is meaningful to the plant.

Note: Computer systems monitoring or recording information on the same asset should utilize the same asset\_org\_site, asset\_id pair.

Note: User\_tag\_ident is the user identification tag which follows the nomenclature of the plant. This is normally an abbreviation or user-defined alpha-numeric code from which the plant derives meaning. This column is mandatory.

Note: The “name” column is an optional column which is a full description of the asset.

| <u>Column</u>   | <u>Description</u> | <u>Size/Type</u>       |
|-----------------|--------------------|------------------------|
| asset_org_site  |                    | INT NOT NULL           |
| asset_id        |                    | INT NOT NULL           |
| as_db_site      |                    | INT NOT NULL           |
| as_db_id        |                    | INT NOT NULL           |
| as_type_code    |                    | INT NOT NULL           |
| user_tag_ident  |                    | STRING(0:254) NOT NULL |
| name            |                    | STRING(0:254)          |
| mf_db_site      |                    | INT                    |
| mf_db_id        |                    | INT                    |
| mf_duns_code    |                    | INT                    |
| model_number    |                    | STRING(0:254)          |
| revision_number |                    | INT                    |
| serial_number   |                    | STRING(0:254)          |
| asr_db_site     |                    | INT                    |
| asr_db_id       |                    | INT                    |

|                     |  |   |
|---------------------|--|---|
| asr_type_code       |  | INT   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | asset_org_site, asset_id   |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">site</a> (site_code)   | asset_org_site  |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | as_db_site, as_db_id, as_type_code                                |
|                     | <a href="#">model</a> (mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number)                  | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number |
|                     | <a href="#">as_readiness_type</a> (asr_db_site, asr_db_id, asr_type_code)                                  | asr_db_site, asr_db_id, asr_type_code                             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |

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### #38    **asset\_child**

**Description: Asset Child Table**

The Asset Child table shows the parent-child relationships of assets to each other. The model allows for more than one asset to be the child of more than one asset.

Note: The mandatory ordering sequence, `ordering_seq` specifies the order in which child assets appear when an application requests “all children” of a particular asset. The ordering sequence of machine assets, coupling assets, and bearing assets on a rotating machine train should conform to MIMOSA guidelines as specified in Document MIM-VB-001.

| <u>Column</u>                 | <u>Description</u>  | <u>Size/Type</u>  |
|-------------------------------|---|---|
| <code>asset_org_site</code>   |   | INT NOT NULL  |
| <code>asset_id</code>         |   | INT NOT NULL  |
| <code>child_as_site</code>    |   | INT NOT NULL  |
| <code>child_as_id</code>      |   | INT NOT NULL  |
| <code>ordering_seq</code>     |   | INT NOT NULL  |
| <code>gmt_last_updated</code> | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| <code>last_upd_db_site</code> | Site code (from the site table) for the site making the last change to this record                          | INT   |
| <code>last_upd_db_id</code>   | Database Id of the database in which this record was resident when the last change was made to this record  | INT   |
| <code>rstat_type_code</code>  | Row status type code  | SHORT   |
|                               |   |   |
| <u>Primary Key</u>            | <u>Column(s)</u>  |   |
|                               | <code>asset_org_site</code> , <code>asset_id</code> , <code>child_as_site</code> , <code>child_as_id</code> |   |
|                               |   |   |
| <u>Foreign Keys</u>           | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                               | <a href="#">asset</a> ( <code>asset_org_site</code> , <code>asset_id</code> )                               | <code>asset_org_site</code> , <code>asset_id</code>         |
|                               | <a href="#">asset</a> ( <code>asset_org_site</code> , <code>asset_id</code> )                               | <code>child_as_site</code> , <code>child_as_id</code>       |
|                               | <a href="#">site_database</a> ( <code>db_site</code> , <code>db_id</code> )                                 | <code>last_upd_db_site</code> , <code>last_upd_db_id</code> |
|                               | <a href="#">row_status_type</a> ( <code>rstat_type_cod</code> )   | <code>rstat_type_code</code>                                |
|                               |   |   |

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**#41    asset\_num\_data****Description: Asset Numeric Data Table**

This table will hold all the current numeric data related to an asset.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| asset_org_site      |  | INT NOT NULL                       |
| asset_id            |  | INT NOT NULL                       |
| an_db_site          |  | INT NOT NULL                       |
| an_db_id            |  | INT NOT NULL                       |
| an_type_code        |  | INT NOT NULL                       |
| eu_db_site          |  | INT NOT NULL                       |
| eu_db_id            |  | INT NOT NULL                       |
| eu_type_code        |  | INT NOT NULL                       |
| data_value          |  | DOUBLE NOT NULL                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | asset_org_site, asset_id, an_db_site, an_db_id, an_type_code   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id           |
|                     | <a href="#">as_num_dat_type</a> (an_db_site, an_db_id, an_type_code)                                       | an_db_site, an_db_id, an_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## #42    asset\_chr\_data

### Description:   Asset Character Data Table

This table will hold all the current alpha-numeric character data related to an asset.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| asset_org_site      |  | INT NOT NULL                       |
| asset_id            |  | INT NOT NULL                       |
| ac_db_site          |  | INT NOT NULL                       |
| ac_db_id            |  | INT NOT NULL                       |
| ac_type_code        |  | INT NOT NULL                       |
| eu_db_site          |  | INT NOT NULL                       |
| eu_db_id            |  | INT NOT NULL                       |
| eu_type_code        |  | INT NOT NULL                       |
| data_value          |  | STRING(0:254) NOT NULL             |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | asset_org_site, asset_id, ac_db_site, ac_db_id, ac_type_code   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id           |
|                     | <a href="#">ac_chr_dat_type</a> (ac_db_site, ac_db_id, ac_type_code)                                       | ac_db_site, ac_db_id, ac_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## #44    asset\_on\_segment

### Description:    Asset Utilization on Segment History Table

This table stores when a particular asset was utilized on a given segment and uses the date installed as part of the primary key. If not known when installed, a date of “0000-00-00 00:00:00-0000000000” should be used.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| asset_org_site      |  | INT NOT NULL                     |
| asset_id            |  | INT NOT NULL                     |
| segment_site        |  | INT NOT NULL                     |
| segment_id          |  | INT NOT NULL                     |
| gmt_installed       |  | DATETIME(10:29) NOT NULL         |
| gmt_removed         |  | DATETIME(10:29)                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | asset_org_site, asset_id, segment_site, segment_id, gmt_installed  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id         |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #45    asset\_owner

### Description: Asset Owner History Table

This tables stores the owner of a particular asset over time and stores the date purchased as part of the primary key. If not known when purchased, a date of “000-00-00 00:00:00-0000000000” should be used. If these assets are not currently active in the asset\_on\_segment table, they could be considered “spares”.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| asset_org_site      |  | INT NOT NULL                          |
| asset_id            |  | INT NOT NULL                          |
| gmt_purchased       |  | DATETIME(10:29) NOT NULL              |
| sold_to_site        |  | INT NOT NULL                          |
| purch_from_site     |  | INT                                   |
| pc_db_site          |  | INT                                   |
| pc_db_id            |  | INT                                   |
| pc_type_code        |  | INT                                   |
| asr_db_site         |  | INT                                   |
| asr_db_id           |  | INT                                   |
| asr_type_code       |  | INT                                   |
| gmt_sold            |  | DATETIME(10:29)                       |
| gmt_discarded       |  | DATETIME(10:29)                       |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | asset_org_site, asset_id, gmt_purchased  |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id              |
|                     | <a href="#">site</a> (site_code)   | sold_to_site                          |
|                     | <a href="#">site</a> (site_code)   | purch_from_site                       |
|                     | <a href="#">purchase_cond_type</a> (pc_db_site, pc_db_id, pc_type_code)                                    | pc_db_site, pc_db_id, pc_type_code    |
|                     | <a href="#">as_readiness_type</a> (asr_db_site, asr_db_id, asr_type_code)                                  | asr_db_site, asr_db_id, asr_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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## **Network / Process Tables**

### **#284 network**

**Description: Network Table**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| network_db_site     |  | INT NOT NULL                       |
| network_db_id       |  | INT NOT NULL                       |
| network_id          |  | INT NOT NULL                       |
| nt_db_site          |  | INT NOT NULL                       |
| nt_db_id            |  | INT NOT NULL                       |
| nt_type_code        |  | INT NOT NULL                       |
| user_tag_ident      |  | INT NOT NULL                       |
| name                |  | STRING(0:254)                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | network_db_site, network_db_id, network_id   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | network_db_site, network_db_id     |
|                     | <a href="#">network_type</a> (nt_db_site, nt_db_id, nt_type_code)  | nt_db_site, nt_db_id, nt_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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**#308 sg\_network\_connect****Description: Segment Network Connection Table**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                           |
|---------------------|--|--|
| network_db_site     |  | INT NOT NULL                               |
| network_db_id       |  | INT NOT NULL                               |
| network_id          |  | INT NOT NULL                               |
| segment_site        |  | INT NOT NULL                               |
| segment_id          |  | INT NOT NULL                               |
| output_sg_site      |  | INT NOT NULL                               |
| output_sg_id        |  | INT NOT NULL                               |
| ordering_seq        |  | INT NOT NULL                               |
| gmt_stream_config   |  | DATETIME(10:29)                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                            |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                               | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record       | INT  |
| rstat_type_code     | Row status type code   | SHORT                                      |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | network_db_site, network_db_id, network_id, segment_site, segment_id, output_sg_site, output_sg_id, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                           |
|                     | <a href="#">network</a> (network_db_site, network_db_id, network_id)   | network_db_site, network_db_id, network_id |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id                   |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | output_sg_site, output_sg_id               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id           |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                            |
|                     |  |  |

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**#309 as\_network\_connect****Description: Asset Network Connection Table**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                           |
|---------------------|--|--|
| network_db_site     |  | INT NOT NULL                               |
| network_db_id       |  | INT NOT NULL                               |
| network_id          |  | INT NOT NULL                               |
| asset_org_site      |  | INT NOT NULL                               |
| asset_id            |  | INT NOT NULL                               |
| output_as_site      |  | INT NOT NULL                               |
| output_as_id        |  | INT NOT NULL                               |
| ordering_seq        |  | INT NOT NULL                               |
| gmt_stream_config   |  | DATETIME(10:29)                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                            |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                               | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record       | INT  |
| rstat_type_code     | Row status type code   | SHORT                                      |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | network_db_site, network_db_id, network_id, asset_org_site, asset_id, output_as_site, output_as_id, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                           |
|                     | <a href="#">network</a> (network_db_site, network_db_id, network_id)   | network_db_site, network_db_id, network_id |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id                   |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | output_as_site, output_as_id               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id           |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                            |
|                     |  |  |

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## **Measurement Setup Tables**

### **#52    data\_source**

**Description: Data Source Asset Table (Subset of Asset Table)**

This table is a subset of the asset table and catalogs all the data asset sources (collectors, monitoring systems, etc.) used to take measurements.

Note: Measurements can be stored in the measurement event table without data source information, so entries in this table are not required.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| ds_asset_site       |  | INT NOT NULL                       |
| ds_asset_id         |  | INT NOT NULL                       |
| ds_db_site          |  | INT NOT NULL                       |
| ds_db_id            |  | INT NOT NULL                       |
| ds_type_code        |  | INT NOT NULL                       |
| name                |  | STRING(0:254)                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | ds_asset_site, ds_asset_id   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | ds_asset_site, ds_asset_id         |
|                     | <a href="#">data_source_type</a> (ds_db_site, ds_db_id, ds_type_code)                                      | ds_db_site, ds_db_id, ds_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## #54 transducer

### Description: Transducer Asset Table (Subset of Asset Table)

This table is a subset of the asset table and catalogs all the transducers used to take measurements. The output amplitude and output amplitude units describe the raw analog output signal which comes from the transducer (i.e. 200 millivolts) representing 1 resulting engineering unit (the “per” engineering unit fields, i.e. MIL).

Note: Measurements can be stored in the measurement event table without transducer information, so entries in this table are not required.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                               |
|---------------------|--|--|
| tr_asset_site       |  | INT NOT NULL                                   |
| tr_asset_id         |  | INT NOT NULL                                   |
| tr_db_site          |  | INT NOT NULL                                   |
| tr_db_id            |  | INT NOT NULL                                   |
| tr_type_code        |  | INT NOT NULL                                   |
| out_eu_db_site      |  | INT  |
| out_eu_db_id        |  | INT  |
| out_eu_type_code    |  | INT  |
| out_amplitude       |  | DOUBLE   |
| per_eu_db_site      |  | INT  |
| per_eu_db_id        |  | INT  |
| per_eu_type_code    |  | INT  |
| gmt_last_calib      |  | DATETIME(10:29)                                |
| self_powered_yn     |  | STRING(1)                                      |
| name                |  | STRING(0:254)                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | tr_asset_site, tr_asset_id   |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                               |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | tr_asset_site, tr_asset_id                     |
|                     | <a href="#">trans_type</a> (tr_db_site, tr_db_id, tr_type_code)  | tr_db_site, tr_db_id, tr_type_code             |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | out_eu_db_site, out_eu_db_id, out_eu_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | per_eu_db_site, per_eu_db_id, per_eu_type_code |

|              |  |                                     |
|--------------|--|-------------------------------------|
|              | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|              | <a href="#">row_status_type</a> (rstat_type_cod) | rstat_type_code                     |
|              |  |                                     |
| <u>Check</u> | <u>Column</u>                                    | <u>Value Range</u>                  |
|              | self_powered_yn                                  | NULL, 'Y', 'N'                      |
|              |  |                                     |

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## #47 meas\_location

### Description: Measurement Location Table

This table is used to identify the location where actual measurements will be taken, along with the type of measurement location, the source of the measurement data, the type of transducer which will be used (if applicable), the degree of the transducer's angular orientation (if applicable), the corresponding transducer sensitive axis direction code (if applicable), and to which segment or asset the location is associated.

Note: This table specifies the default location type which will categorize the measurements which will be collected and stored. Each Measurement Event of a Measurement Location can also map to a location type for an "event-specific" category.

The meas\_loc\_id should be assigned by a plant to be the same across all database systems. This allows data from one collection system to be merged with another collection system for the same location.

Although this table does not physically restrict it, a measurement location must be assigned to either a segment or an asset in this table, as indicated by the segment\_or\_asset column, but not both.

The degree of the transducer's angular orientation (column ta\_orient\_deg) (0-360) and the corresponding transducer sensitive axis direction code, if applicable, is stored in this table.

The specification of the MIMOSA Vibration Measurement Location Code as specified in Document MIM-VB-001, is based on appending the following columns together to form a 14-character unique MIMOSA Location Code. The following columns from this table are used directly or as foreign key references to create this code:

Component Part => mim\_user\_prefix (4 characters or XXXX if NULL)

Bearing Housing Location on Machine System => mim\_loc\_seq (3-digits with leading zeroes)

Transducer Type Code => trans\_type.tr\_type\_abbrev (2 characters referenced by tr\_db\_site, tr\_db\_id, tr\_type\_code or XX if NULL)

Angular Orientation => ta\_orient\_deg (3 digits with leading zeroes or XXX if NULL)

Transducer Sensitive Axis Direction => 1<sup>st</sup> character from tr\_axis\_dir\_type.name referenced by ta\_db\_site, ta\_db\_id, ta\_type\_code

Direction of Motion => motion direction (1 character or X if NULL)



Note: meas\_loc\_id is used like a barcode – to assign a unique, non-changeable identifier since a primary key cannot change and must uniquely define the entity. The user\_tag\_ident field is the identifier which is meaningful to the plant.

Note: Computer systems monitoring or recording information on the same location should utilize the same meas\_loc\_site, meas\_loc\_id pair.

Note: User\_tag\_ident is the user identification tag which follows the nomenclature of the plant. This is normally an abbreviation or user-defined alpha-numeric code from which the plant derives meaning. This column is mandatory.

| <u>Column</u>    | <u>Description</u>   | <u>Size/Type</u>       |
|------------------|--|------------------------|
| meas_loc_site    |  | INT NOT NULL           |
| meas_loc_id      |  | INT NOT NULL           |
| ml_db_site       |  | INT NOT NULL           |
| ml_db_id         |  | INT NOT NULL           |
| ml_type_code     |  | INT NOT NULL           |
| segment_or_asset |  | STRING(1) NOT NULL     |
| segment_site     |  | INT                    |
| segment_id       |  | INT                    |
| asset_org_site   |  | INT                    |
| asset_id         |  | INT                    |
| ds_db_site       |  | INT                    |
| ds_db_id         |  | INT                    |
| ds_type_code     |  | INT                    |
| tr_db_site       |  | INT                    |
| tr_db_id         |  | INT                    |
| tr_type_code     |  | INT                    |
| ta_orient_deg    |  | INT                    |
| ta_db_site       |  | INT                    |
| ta_db_id         |  | INT                    |
| ta_type_code     |  | INT                    |
| mim_loc_seq      |  | INT                    |
| motion_direction | Valid 'N' and 'R'  | STRING(1)              |
| mim_user_prefix  |  | STRING(4)              |
| mc_db_site       | Default method that measurement is calculated from raw data          | INT                    |
| mc_db_id         |  | INT                    |
| mc_type_code     |  | INT                    |
| mc_calc_size     | Parameter "x" used for the calculation                               | INT                    |
| update_interval  | Default frequency that measurements at this location will be updated | DOUBLE                 |
| int_eu_db_site   | Time eng. units for default frequency                                | INT                    |
| int_eu_db_id     |  | INT                    |
| int_eu_type_code |  | INT                    |
| collect_duration | Default duration of collection for measurements at this location     | DOUBLE                 |
| dur_eu_db_site   | Time eng. units for default collection duration                      | INT                    |
| dur_eu_db_id     |  | INT                    |
| dur_eu_type_code |  | INT                    |
| user_tag_ident   |  | STRING(0:254) NOT NULL |
| barcode          |  | STRING(0:254)          |

|                     |  |  |
|---------------------|--|--|
| name                |  | STRING(0:254)                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | meas_loc_site, meas_loc_id   |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                               |
|                     | <a href="#">site</a> (site_code)   | meas_loc_site                                  |
|                     | <a href="#">meas_loc_type</a> (ml_db_site, ml_db_id, ml_type_code)   | ml_db_site, ml_db_id, ml_type_code             |
|                     | <a href="#">segment</a> (sement_site, segment_id)  | sement_site, segment_id                        |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id                       |
|                     | <a href="#">data_source_type</a> (ds_db_site, ds_db_id, ds_type_code)                                      | ds_db_site, ds_db_id, ds_type_code             |
|                     | <a href="#">trans_type</a> (tr_db_site, tr_db_id, tr_type_code)  | tr_db_site, tr_db_id, tr_type_code             |
|                     | <a href="#">tr_axis_dir_type</a> (ta_db_site, ta_db_id, ta_type_code)                                      | ta_db_site, ta_db_id, ta_type_code             |
|                     | <a href="#">mloc_calc_type</a> (mc_db_site, mc_db_id, mc_type_code)  | mc_db_site, mc_db_id, mc_type_code             |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | int_eu_db_site, int_eu_db_id, int_eu_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | dur_eu_db_site, dur_eu_db_id, dur_eu_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id               |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                |
|                     |  |  |
| <u>Check</u>        | <u>Column</u>  | <u>Value Range</u>                             |
|                     | segment_or_asset   | 'A','S'  |
|                     | motion_direction   | 'N','R'  |
|                     |  |  |

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### #334 meas\_loc\_assoc

#### Description: Measurement Location Association Table

This table contains measurement locations which are related to one another. An example of its use is to associate a vibration measurement location to its corresponding tachnometer signal measurement location and for multi-channel locations which are related to each other.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| meas_loc_site       |  | INT NOT NULL                       |
| meas_loc_id         |  | INT NOT NULL                       |
| related_mloc_site   |  | INT NOT NULL                       |
| related_mloc_id     |  | INT NOT NULL                       |
| name                |  | STRING(0:254)                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | meas_loc_site, meas_loc_id, related_mloc_site, related_mloc_id   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">meas_location</a> (meas_loc_site, meas_loc_id)   | meas_loc_site, meas_loc_id         |
|                     | <a href="#">meas_location</a> (meas_loc_site, meas_loc_id)   | related_mloc_site, related_mloc_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## Measurement Data Tables

### #56 meas\_event

#### Description: Measurement Event History Table

This table is a history of data collection events occurring at measurement locations. This event could have recorded a single numeric value of a certain type, or a group of related signal processed measurements. Each measurement event relates back to one measurement location.

Foreign keys are defined to the segment, asset, data collection source, and transducer tables in order for a system to track which segment and/or which asset and which data collection source and transducer the measurement is tied to at this particular instance in time. This table does not contain the actual data, but the fact that at a given time, at a measurement location which was then associated with a physical object and/or a functional object, a measurement of a certain location type was taken.

Note: The non-mandatory segment\_site and segment\_id columns are for measurement locations on assets where the actual segment where the asset is installed needs to be captured with the measurement event.

Note: The non-mandatory asset\_org\_site and asset\_id columns are for measurement locations on segments where the actual asset installed on the segment needs to be captured with the measurement event.

Note: ev\_loc\_hr\_delta is the number of hours +/- GMT to calculate the correct local time for the event.

Note: st\_loc\_hr\_delta is the number of hours +/- GMT to calculate the correct local time that the event row was stored in the database.

Note: ev\_loc\_min\_delta: If null, assume local minute offset from GMT = 0

Note: st\_loc\_min\_delta: If null, assume local minute offset from GMT = 0

Note: confid\_percent: Confidence in measurement accuracy (0 = no confidence, 100 = complete confidence)

| <u>Column</u>    | <u>Description</u>                      | <u>Size/Type</u>         |
|------------------|---|--------------------------|
| meas_loc_site    |   | INT NOT NULL             |
| meas_loc_id      |   | INT NOT NULL             |
| gmt_event        | Time of measurement (GMT)               | DATETIME(10:29) NOT NULL |
| ev_loc_hr_delta  | Local event time hour offset from GMT   | SHORT                    |
| ev_loc_min_delta | Local event time minute offset from GMT | SHORT                    |
| gmt_stored       | Time event stored in database (GMT)     | DATETIME(10:29)          |
| st_loc_hr_delta  | Local store time hour offset from GMT   | SHORT                    |
| st_loc_min_delta | Local store time minute offset from GMT | SHORT                    |

|                     |  |                                    |
|---------------------|--|------------------------------------|
| segment_site        |  | INT                                |
| segment_id          |  | INT                                |
| asset_org_site      |  | INT                                |
| asset_id            |  | INT                                |
| ds_asset_site       |  | INT                                |
| ds_asset_id         |  | INT                                |
| tr_asset_site       |  | INT                                |
| tr_asset_id         |  | INT                                |
| dqual_type_code     |  | SHORT NOT NULL                     |
| ml_db_site          | Optional location type which specifically categorizes this measurement event                               | INT                                |
| ml_db_id            |  | INT                                |
| ml_type_code        |  | INT                                |
| mc_db_site          | Actual method that measurement was calculated from raw data  | INT                                |
| mc_db_id            |  | INT                                |
| mc_type_code        |  | INT                                |
| mc_calc_size        | Parameter "x" used for the calculation   | INT                                |
| collect_duration    | Actual duration for this measurement event's data collection   | DOUBLE                             |
| dur_eu_db_site      | Time eng. units for default collection duration  | INT                                |
| dur_eu_db_id        |  | INT                                |
| dur_eu_type_code    |  | INT                                |
| confid_percent      | Confidence in measurement accuracy (0 = no confidence, 100 = complete confidence)                          | SHORT                              |
| name                |  | STRING(0:254)                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | meas_loc_site, meas_loc_id, gmt_event  |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">meas_location</a> (meas_loc_site, meas_loc_id)   | meas_loc_site, meas_loc_id         |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id           |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id           |
|                     | <a href="#">data_source</a> (ds_asset_site, ds_asset_id)   | ds_asset_site, ds_asset_id         |
|                     | <a href="#">transducer</a> (tr_asset_site, tr_asset_id)  | tr_asset_site, tr_asset_id         |
|                     | <a href="#">data_qual_type</a> (dqual_type_code)   | dqual_type_code                    |
|                     | <a href="#">meas_loc_type</a> (ml_db_site, ml_db_id, ml_type_code)   | ml_db_site, ml_db_id, ml_type_code |

|  |  |  |
|--|--|--|
|  | <a href="#">mloc_calc_type</a> (mc_db_site,<br>mc_db_id, mc_type_code) | mc_db_site, mc_db_id,<br>mc_type_code                |
|  | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)  | dur_eu_db_site,<br>dur_eu_db_id,<br>dur_eu_type_code |
|  | <a href="#">site_database</a> (db_site, db_id)                         | last_upd_db_site,<br>last_upd_db_id                  |
|  | <a href="#">row_status_type</a> (rstat_type_cod)                       | rstat_type_code                                      |
|  |  |  |

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**#57 meas\_event\_rem****Description: Measurement Event Remarks Table**

This table is where textual remarks for each measurement event are recorded. This table allows an operator or analyst to enter free-form notes about why this measurement event was recorded, etc.

Note: This table should NOT store measurement event alpha-numeric character data like dates or user identifiers which should be tracked over time. These should be stored in the measurement event character value table #59 (mevent\_chr\_value) with a specific engineering unit associated with it.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| meas_loc_site       |  | INT NOT NULL                          |
| meas_loc_id         |  | INT NOT NULL                          |
| gmt_event           |  | DATETIME(10:29) NOT NULL              |
| ordering_seq        |  | INT NOT NULL                          |
| remark_text         |  | STRING(0:254) NOT NULL                |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | meas_loc_site, meas_loc_id, gmt_event, ordering_seq  |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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## #100 meas\_event\_assoc

### Description: Measurement Event Associations

This table contains measurement events which are related to one another. This is used in vibration to associate a vibration measurement event to its corresponding tachometer signal measurement event and for multi-channel data which are related to each other.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                      |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL                              |
| related_mloc_site   |  | INT NOT NULL  |
| related_mloc_id     |  | INT NOT NULL  |
| related_gmt_event   |  | DATETIME(10:29) NOT NULL                              |
| name                |  | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, related_mloc_site, related_mloc_id, related_gmt_event               |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                      |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event                 |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | related_mloc_site, related_mloc_id, related_gmt_event |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                       |
|                     |  |   |

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## #58    mevent\_num\_data

### Description: Measurement Event Numeric Data Table

This table is where all simple numeric data values which are related to a measurement event for non-signal processed data is stored.

This table could store simple pressures, temperatures, voltages, load readings, etc. which do not need additional information to interpret.

Note: Do NOT store frequency-related overall vibration amplitude data in this table. These values should be stored in the signal-processed, single amplitude value/vector table (sp\_ampl\_data).

Note: Do NOT store fluid/gas test data nor electrical test data which require a “test type” in order to be comprehended. Version 1.1 of CRIS will provide specific tables for this type of data.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| meas_loc_site       |  | INT NOT NULL                          |
| meas_loc_id         |  | INT NOT NULL                          |
| gmt_event           |  | DATETIME(10:29) NOT NULL              |
| eu_db_site          |  | INT NOT NULL                          |
| eu_db_id            |  | INT NOT NULL                          |
| eu_type_code        |  | INT NOT NULL                          |
| data_value          |  | DOUBLE NOT NULL                       |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | meas_loc_site, meas_loc_id, gmt_event, eu_db_site, eu_db_id, eu_type_code                                  |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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**#59    mevent\_chr\_data****Description: Measurement Event Character Data Table**

This table is where all alpha-numeric data values which are related to a measurement event for non-signal processed data is stored.

This table stores measurement location data which needs to be tracked over time and contains an alpha-numeric code or date.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| meas_loc_site       |  | INT NOT NULL                          |
| meas_loc_id         |  | INT NOT NULL                          |
| gmt_event           |  | DATETIME(10:29) NOT NULL              |
| eu_db_site          |  | INT NOT NULL                          |
| eu_db_id            |  | INT NOT NULL                          |
| eu_type_code        |  | INT NOT NULL                          |
| data_value          |  | STRING(0:254) NOT NULL                |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | meas_loc_site, meas_loc_id, gmt_event, eu_db_site, eu_db_id, eu_type_code                                  |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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**#165 mevent\_blob\_data****Description: Measurement Event Binary Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                        |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL                            |
| meas_loc_id         |  | INT NOT NULL                            |
| gmt_event           |  | DATETIME(10:29) NOT NULL                |
| mebt_db_site        |  | INT NOT NULL                            |
| mebt_db_id          |  | INT NOT NULL                            |
| meb_type_code       |  | INT NOT NULL                            |
| bd_db_site          |  | INT NOT NULL                            |
| bd_db_id            |  | INT NOT NULL                            |
| bd_type_code        |  | INT NOT NULL                            |
| name                |  | STRING(0:254)                           |
| assoc_file_name     |  | STRING(0:254)                           |
| image_data          |  | BASE64BINARY                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                         |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                     |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                     |
| rstat_type_code     | Row status type code   | SHORT                                   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, mebt_db_site, mebt_db_id, meb_type_code,                            |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                        |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event   |
|                     | <a href="#">mevent_blob_type</a> (mebt_db_site, mebt_db_id, meb_type_code)                                 | mebt_db_site, mebt_db_id, meb_type_code |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                         |
|                     |  |   |

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## #221 blob\_grid\_data

### Description: Blob Grid Data Table

2-D Linear Rectangular Grid of Numeric Data Associated With Measurement Event BLOB Data – Used for Radiological Data in Thermography, Thickness Data in Ultrasonic Testing, etc.

Note: x\_resolution, y\_resolution – Total dimensions of the rectangular grid related to the BLOB image (grid resolution)

Note: dat\_origin\_x, data\_origin\_y – X, Y coordinates of the origin of the 0-based rectangular grid for the "data rectangle" (top left-most corner)

Note: data\_end\_x, data\_end\_y – X, Y coordinates of the end of the 0-based rectangular grid for the "data rectangle" (lower right-most corner)

Note: float\_data – Stored as a stream of 4-byte IEEE float values (low-order byte first), starting with coordinates (data\_origin\_x, data\_origin\_y) and progressing vertically downward (increment y) until data\_end\_y is exceeded, whereupon y is then set to data\_origin\_y and x is incremented until (data\_end\_x, data\_end\_y) is reached.

| Column           | Description  | Size/Type                |
|------------------|--|--------------------------|
| meas_loc_site    |  | INT NOT NULL             |
| meas_loc_id      |  | INT NOT NULL             |
| gmt_event        |  | DATETIME(10:29) NOT NULL |
| mebt_db_site     |  | INT NOT NULL             |
| mebt_db_id       |  | INT NOT NULL             |
| meb_type_code    |  | INT NOT NULL             |
| grid_seq         |  | INT NOT NULL             |
| eu_db_site       |  | INT NOT NULL             |
| eu_db_id         |  | INT NOT NULL             |
| eu_type_code     |  | INT NOT NULL             |
| x_resolution     |  | INT NOT NULL             |
| y_resolution     |  | INT NOT NULL             |
| data_origin_x    |  | INT NOT NULL             |
| data_origin_y    |  | INT NOT NULL             |
| data_end_x       |  | INT NOT NULL             |
| data_end_y       |  | INT NOT NULL             |
| name             |  | STRING(0:254)            |
| float_data       |  | BASE64BINARY             |
| gmt_last_updated | GMT time stamp for the last change to this record  | DATETIME(10:29)          |
| last_upd_db_site | Site code (from the site table) for the site making the last change to this record                         | INT                      |
| last_upd_db_id   | Database Id of the database in which this record was resident when the last change was made to this record | INT                      |
| rstat_type_code  | Row status type code   | SHORT                    |

|                     |  |   |
|---------------------|--|---|
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id,<br>gmt_event, mebt_db_site, mebt_db_id,<br>meb_type_code, grid_seq                             |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">mevent_blob_data</a> (meas_loc_site,<br>meas_loc_id, gmt_event,<br>mebt_db_site, mebt_db_id,<br>meb_type_code) | meas_loc_site, meas_loc_id,<br>gmt_event, mebt_db_site,<br>mebt_db_id,<br>meb_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)  | eu_db_site, eu_db_id,<br>eu_type_code   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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## #65 signal\_proc\_blk

### Description: Signal Process Block Table

This table stores all the signal process block entries specified in a given database, each of a specified signal processing type.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| sp_blk_db_site      |  | INT NOT NULL                       |
| sp_blk_db_id        |  | INT NOT NULL                       |
| sp_block_id         |  | INT NOT NULL                       |
| sp_db_site          |  | INT NOT NULL                       |
| sp_db_id            |  | INT NOT NULL                       |
| sp_type_code        |  | INT NOT NULL                       |
| name                |  | STRING(0:254)                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | sp_blk_db_site, sp_blk_db_id, sp_block_id  |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sp_blk_db_site, sp_blk_db_id       |
|                     | <a href="#">signal_proc_type</a> (sp_db_site, sp_db_id, sp_type_code)                                      | sp_db_site, sp_db_id, sp_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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**#67 sp\_blk\_num\_data****Description: Signal Process Block Numeric Data Table**

This table stores the numeric data related to an entry in the signal process block table.

Note: Care must be taken not to change the numeric data of blocks used in a signal process stream if measurements have been stored for the stream.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                          |
|---------------------|--|---|
| sp_blk_db_site      |  | INT NOT NULL                              |
| sp_blk_db_id        |  | INT NOT NULL                              |
| sp_block_id         |  | INT NOT NULL                              |
| spn_db_site         |  | INT NOT NULL                              |
| spn_db_id           |  | INT NOT NULL                              |
| spn_type_code       |  | INT NOT NULL                              |
| eu_db_site          |  | INT NOT NULL                              |
| eu_db_id            |  | INT NOT NULL                              |
| eu_type_code        |  | INT NOT NULL                              |
| data_value          |  | DOUBLE NOT NULL                           |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                           |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                       |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                       |
| rstat_type_code     | Row status type code   | SHORT                                     |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | sp_blk_db_site, sp_blk_db_id, sp_block_id, spn_db_site, spn_db_id, spn_type_code                           |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                          |
|                     | <a href="#">signal_proc_blk</a> (sp_blk_db_site, sp_blk_db_id, sp_block_id)                                | sp_blk_db_site, sp_blk_db_id, sp_block_id |
|                     | <a href="#">sp_num_dat_type</a> (spn_db_site, spn_db_id, spn_type_code)                                    | spn_db_site, spn_db_id, spn_type_code     |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id          |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                           |
|                     |  |   |

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**#68    sp\_stream****Description: Signal Process Stream Table**

This table stores the signal process streams for a given database. These streams contain sequences of signal process blocks which define the processing sequence which data passed through

Note: Actual single amplitude value / vector data, FFT data, time waveform data, and CPB data can optionally be associated with an entry in this table.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                |
|---------------------|--|---|
| sp_str_db_site      |  | INT NOT NULL                                    |
| sp_str_db_id        |  | INT NOT NULL                                    |
| sp_stream_id        |  | INT NOT NULL                                    |
| sps_type_db_site    |  | INT NOT NULL                                    |
| sps_type_db_id      |  | INT NOT NULL                                    |
| sps_type_code       |  | INT NOT NULL                                    |
| name                |  | STRING(0:254)                                   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                 |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | sp_str_db_site, sp_str_db_id, sp_stream_id   |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sp_str_db_site, sp_str_db_id                    |
|                     | <a href="#">sp_stream_type</a> (sps_type_db_site, sps_type_db_id, sps_type_code)                           | sps_type_db_site, sps_type_db_id, sps_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                 |
|                     |  |   |

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## #69 sp\_stream\_block

### Description: Signal Process Stream Blocks Table

This table details the sequence of signal process blocks for each signal process stream.

Note: Care must be taken not to change the sequence of blocks in a stream if measurements have been stored for the stream. Normally, a new stream should be defined instead of updating the original stream.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                           |
|---------------------|--|--|
| sp_str_db_site      |  | INT NOT NULL                               |
| sp_str_db_id        |  | INT NOT NULL                               |
| sp_stream_id        |  | INT NOT NULL                               |
| sp_blk_db_site      |  | INT NOT NULL                               |
| sp_blk_db_id        |  | INT NOT NULL                               |
| sp_block_id         |  | INT NOT NULL                               |
| ordering_seq        |  | INT NOT NULL                               |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                            |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT                                      |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sp_str_db_site, sp_str_db_id, sp_stream_id, sp_blk_db_site, sp_blk_db_id, sp_block_id                      |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                           |
|                     | <a href="#">sp_stream</a> (sp_str_db_site, sp_str_db_id, sp_stream_id)                                     | sp_str_db_site, sp_str_db_id, sp_stream_id |
|                     | <a href="#">signal_proc_blk</a> (sp_blk_db_site, sp_blk_db_id, sp_block_id)                                | sp_blk_db_site, sp_blk_db_id, sp_block_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id           |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                            |
|                     |  |  |

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**#75 sp\_ampl\_data****Description: Signal-Process Frequency / Order Single Amplitude / Vector Data Table**

This table stores one or more single amplitudes AND / OR single vectors which are related to frequency or order ranges which resulted as an output of a measurement event.

Note: A vector can be stored by placing the angle in degrees in the angle\_in\_degrees column.

Note: If the source signal detector type is “FFT Power RMS”, the amplitude field is calculated from the spectra by taking the square root of the sum of all amplitude values squared which is then divided by the window factor.

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u>         |
|--------------------|--|--------------------------|
| meas_loc_site      |  | INT NOT NULL             |
| meas_loc_id        |  | INT NOT NULL             |
| gmt_event          |  | DATETIME(10:29) NOT NULL |
| ordering_seq       |  | INT NOT NULL             |
| eu_db_site         |  | INT NOT NULL             |
| eu_db_id           |  | INT NOT NULL             |
| eu_type_code       |  | INT NOT NULL             |
| pst_sc_db_site     |  | INT NOT NULL             |
| pst_sc_db_id       |  | INT NOT NULL             |
| pst_sc_type_code   |  | INT NOT NULL             |
| freq_or_order      |  | STRING(1) NOT NULL       |
| min_in_hz_or_ord   |  | DOUBLE NOT NULL          |
| max_in_hz_or_ord   |  | DOUBLE NOT NULL          |
| src_dt_db_site     |  | INT                      |
| src_dt_db_id       |  | INT                      |
| src_dt_type_code   |  | INT                      |
| sp_str_db_site     |  | INT                      |
| sp_str_db_id       |  |                          |
| sp_stream_id       |  |                          |
| assoc_rpm_in_hz    |  | DOUBLE                   |
| amplitude          |  | DOUBLE NOT NULL          |
| angle_in_degrees   |  | DOUBLE                   |
| name               |  | STRING(0:254)            |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)          |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT                      |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT                      |
| rstat_type_code    | Row status type code   | SHORT                    |
|                    |  |                          |
| <u>Primary Key</u> | <u>Column(s)</u>   |                          |

|                     |   |  |
|---------------------|---|--|
|                     | meas_loc_site, meas_loc_id,<br>gmt_event, ordering_seq                                |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>                                     |
|                     | <a href="#">meas_event</a> (meas_loc_site,<br>meas_loc_id, gmt_event)                 | meas_loc_site, meas_loc_id,<br>gmt_event             |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)                 | eu_db_site, eu_db_id,<br>eu_type_code                |
|                     | <a href="#">post_scaling_type</a> (pst_sc_db_site,<br>pst_sc_db_id, pst_sc_type_code) | pst_sc_db_site,<br>pst_sc_db_id,<br>pst_sc_type_code |
|                     | <a href="#">src_detect_type</a> (src_dt_db_site,<br>src_dt_db_id, src_dt_type_code)   | src_dt_db_site,<br>src_dt_db_id,<br>src_dt_type_code |
|                     | <a href="#">sp_stream</a> (sp_str_db_site,<br>sp_str_db_id, sp_stream_id)             | sp_str_db_site,<br>sp_str_db_id, sp_stream_id        |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                      | rstat_type_code                                      |
| <u>Check</u>        | <u>Column</u>   | <u>Value Range</u>                                   |
|                     | freq_or_order   | 'F','O'  |
|                     |   |  |

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## #81 sp\_fft\_data

### Description: Signal-Processed, Real / Complex Linear Frequency / Order FFT Spectrum Data Table

This table stores real-only or complex FFT data which is related to a frequency or order range which resulted as an output of a measurement event.

Note: The spectrum\_data column is a variable-length binary field, first containing 4-byte IEEE float real values for each line of resolution in the spectra. If the complex\_yn field = 'Y', the imaginary float values in 4-byte IEEE format follow the set of real values.

The IEEE format is:

```
--> Low-Order Byte First
      bits 0-22 --> Mantissa
      bits 23-30 --> Exponent
      bit 31 --> Sign
```

Note: The bin width = (max\_in\_hz\_or\_ord – min\_in\_hz\_or\_ord) / resolution\_lines

Note: The frequency / order associated with the first line of the spectrum = min\_in\_hz\_or\_ord + the bin width

Note: The ave\_overlap\_pct column is a percentage ranging from 0 to 100 of the average overlap percentage used.

| Column           | Description | Size/Type                |
|------------------|-------------|--------------------------|
| meas_loc_site    |             | INT NOT NULL             |
| meas_loc_id      |             | INT NOT NULL             |
| gmt_event        |             | DATETIME(10:29) NOT NULL |
| ordering_seq     |             | INT NOT NULL             |
| eu_db_site       |             | INT NOT NULL             |
| eu_db_id         |             | INT NOT NULL             |
| eu_type_code     |             | INT NOT NULL             |
| pst_sc_db_site   |             | INT NOT NULL             |
| pst_sc_db_id     |             | INT NOT NULL             |
| pst_sc_type_code |             | INT NOT NULL             |
| freq_or_order    |             | STRING(1) NOT NULL       |
| min_in_hz_or_ord |             | DOUBLE NOT NULL          |
| max_in_hz_or_ord |             | DOUBLE NOT NULL          |
| resolution_lines |             | INT NOT NULL             |
| win_db_site      |             | INT NOT NULL             |
| win_db_id        |             | INT NOT NULL             |
| win_type_code    |             | INT NOT NULL             |
| ave_db_site      |             | INT                      |
| ave_db_id        |             | INT                      |
| ave_type_code    |             | INT                      |
| ave_wt_db_site   |             | INT                      |
| ave_wt_db_id     |             | INT                      |

|                     |  |  |
|---------------------|--|--|
| ave_wt_type_code    |  | INT  |
| ave_sy_db_site      |  | INT  |
| ave_sy_db_id        |  | INT  |
| ave_sy_type_code    |  | INT  |
| ave_overlap_pct     |  | DOUBLE   |
| num_of_averages     |  | INT  |
| sp_str_db_site      |  | INT  |
| sp_str_db_id        |  | INT  |
| sp_stream_id        |  | INT  |
| assoc_rpm_in_hz     |  | DOUBLE   |
| name                |  | STRING(0:254)                                  |
| dc_level            |  | DOUBLE   |
| complex_yn          |  | STRING(1) NOT NULL                             |
| spectrum_data       |  | BASE64BINARY                                   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | meas_loc_site, meas_loc_id, gmt_event, ordering_seq  |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                               |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event          |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code             |
|                     | <a href="#">post_scaling_type</a> (pst_sc_db_site, pst_sc_db_id, pst_sc_type_code)                         | pst_sc_db_site, pst_sc_db_id, pst_sc_type_code |
|                     | <a href="#">window_type</a> (win_db_site, win_db_id, win_type_code)  | win_db_site, win_db_id, win_type_code          |
|                     | <a href="#">average_type</a> (ave_db_site, ave_db_id, ave_type_code)                                       | ave_db_site, ave_db_id, ave_type_code          |
|                     | <a href="#">ave_weight_type</a> (ave_wt_db_site, ave_wt_db_id, ave_wt_type_code)                           | ave_wt_db_site, ave_wt_db_id, ave_wt_type_code |
|                     | <a href="#">ave_synch_type</a> (ave_sy_db_site, ave_sy_db_id, ave_sy_type_code)                            | ave_sy_db_site, ave_sy_db_id, ave_sy_type_code |
|                     | <a href="#">sp_stream</a> (sp_str_db_site, sp_str_db_id, sp_stream_id)                                     | sp_str_db_site, sp_str_db_id, sp_stream_id     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id               |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                |
|                     |  |  |
| <u>Check</u>        | <u>Column</u>  | <u>Value Range</u>                             |
|                     | freq_or_order  | 'F','O'  |

|  |            |         |
|--|------------|---------|
|  | complex_yn | 'Y','N' |
|  |            |         |

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## #83 sp\_time\_data

### Description: Signal-Processed, Real / Complex Linear Time Waveform Data Table

This table stores real-only or complex time waveform data which resulted as an output of a measurement event. A complex time waveform is obtained when you have a decimated signal over a certain frequency range.

Note: The waveform\_data column is a variable-length binary field, first containing number\_of\_samples 4-byte IEEE float real values. If the complex\_yn field = 'Y', another set of number\_of\_samples 4-byte IEEE float format values, the imaginary values, follow the set of real values.

The IEEE format is:

```
--> Low-Order Byte First
      bits 0-22 --> Mantissa
      bits 23-30 --> Exponent
      bit 31 --> Sign
```

Note: The off\_secs\_or\_revs column is the delta offset start time in seconds or offset number of revolutions from gmt\_event time when the sample started.

Note: The ave\_overlap\_pct column is a percentage ranging from 0 to 100 of the average overlap percentage used.

| Column            | Description | Size/Type                |
|-------------------|-------------|--------------------------|
| meas_loc_site     |             | INT NOT NULL             |
| meas_loc_id       |             | INT NOT NULL             |
| gmt_event         |             | DATETIME(10:29) NOT NULL |
| ordering_seq      |             | INT NOT NULL             |
| eu_db_site        |             | INT NOT NULL             |
| eu_db_id          |             | INT NOT NULL             |
| eu_type_code      |             | INT NOT NULL             |
| secs_or_revs      |             | STRING(1) NOT NULL       |
| off_secs_or_revs  |             | DOUBLE NOT NULL          |
| max_secs_or_revs  |             | DOUBLE NOT NULL          |
| number_of_samples |             | DOUBLE NOT NULL          |
| win_db_site       |             | INT NOT NULL             |
| win_db_id         |             | INT NOT NULL             |
| win_type_code     |             | INT NOT NULL             |
| ave_db_site       |             | INT                      |
| ave_db_id         |             | INT                      |
| ave_type_code     |             | INT                      |
| ave_wt_db_site    |             | INT                      |
| ave_wt_db_id      |             | INT                      |
| ave_wt_type_code  |             | INT                      |
| ave_sy_db_site    |             | INT                      |
| ave_sy_db_id      |             | INT                      |
| ave_sy_type_code  |             | INT                      |
| ave_overlap_pct   |             | DOUBLE                   |



|                     |  |  |
|---------------------|--|--|
| num_of_averages     |  | INT  |
| sp_str_db_site      |  | INT  |
| sp_str_db_id        |  | INT  |
| sp_stream_id        |  | INT  |
| assoc_rpm_in_hz     |  | DOUBLE   |
| name                |  | STRING(0:254)                                  |
| complex_yn          |  | STRING(1) NOT NULL                             |
| waveform_data       |  | BASE64BINARY                                   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | meas_loc_site, meas_loc_id, gmt_event, ordering_seq  |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                               |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event          |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code             |
|                     | <a href="#">window_type</a> (win_db_site, win_db_id, win_type_code)  | win_db_site, win_db_id, win_type_code          |
|                     | <a href="#">average_type</a> (ave_db_site, ave_db_id, ave_type_code)                                       | ave_db_site, ave_db_id, ave_type_code          |
|                     | <a href="#">ave_weight_type</a> (ave_wt_db_site, ave_wt_db_id, ave_wt_type_code)                           | ave_wt_db_site, ave_wt_db_id, ave_wt_type_code |
|                     | <a href="#">ave_synch_type</a> (ave_sy_db_site, ave_sy_db_id, ave_sy_type_code)                            | ave_sy_db_site, ave_sy_db_id, ave_sy_type_code |
|                     | <a href="#">sp_stream</a> (sp_str_db_site, sp_str_db_id, sp_stream_id)                                     | sp_str_db_site, sp_str_db_id, sp_stream_id     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id               |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                |
|                     |  |  |
| <u>Check</u>        | <u>Column</u>  | <u>Value Range</u>                             |
|                     | secs_or_revs   | 'S','R'  |
|                     | complex_yn   | 'Y','N'  |
|                     |  |  |

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**#85 sp\_cpb\_data****Description: Signal-Processed, Real Linear Constant Percentage Band Spectrum Table**

This table stores real CPB spectrum data which resulted as an output of a measurement event.

Note: The spectrum\_data column is a variable-length binary field, containing 4-byte IEEE float real values for each band in the spectra.

The IEEE format is:

--> Low-Order Byte First

bits 0-22 --> Mantissa

bits 23-30 --> Exponent

bit 31 --> Sign

Note: The width\_pct\_or\_oct column stores a “P” for percent band width (0 – 100) or an “O” for octave width associated with the band\_width column.

Note: The field center\_in\_hz\_1bd is the first band’s center frequency in hertz

| <u>Column</u>    | <u>Description</u> | <u>Size/Type</u>         |
|------------------|--------------------|--------------------------|
| meas_loc_site    |                    | INT NOT NULL             |
| meas_loc_id      |                    | INT NOT NULL             |
| gmt_event        |                    | DATETIME(10:29) NOT NULL |
| ordering_seq     |                    | INT NOT NULL             |
| eu_db_site       |                    | INT NOT NULL             |
| eu_db_id         |                    | INT NOT NULL             |
| eu_type_code     |                    | INT NOT NULL             |
| pst_sc_db_site   |                    | INT NOT NULL             |
| pst_sc_db_id     |                    | INT NOT NULL             |
| pst_sc_type_code |                    | INT NOT NULL             |
| number_of_bands  |                    | INT NOT NULL             |
| center_in_hz_1bd |                    | DOUBLE NOT NULL          |
| width_pct_or_oct |                    | STRING(1) NOT NULL       |
| band_width       |                    | DOUBLE NOT NULL          |
| ave_db_site      |                    | INT                      |
| ave_db_id        |                    | INT                      |
| ave_type_code    |                    | INT                      |
| ave_wt_db_site   |                    | INT                      |
| ave_wt_db_id     |                    | INT                      |
| ave_wt_type_code |                    | INT                      |
| ave_sy_db_site   |                    | INT                      |
| ave_sy_db_id     |                    | INT                      |
| ave_sy_type_code |                    | INT                      |
| ave_overlap_pct  |                    | DOUBLE                   |
| num_of_averages  |                    | INT                      |
| sp_str_db_site   |                    | INT                      |
| sp_str_db_id     |                    | INT                      |
| sp_stream_id     |                    | INT                      |
| assoc_rpm_in_hz  |                    | DOUBLE                   |
| name             |                    | STRING(0:254)            |

|                     |  |  |
|---------------------|--|--|
| spectrum_data       |  | BASE64BINARY                                   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | meas_loc_site, meas_loc_id, gmt_event, ordering_seq  |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                               |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event          |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code             |
|                     | <a href="#">post_scaling_type</a> (pst_sc_db_site, pst_sc_db_id, pst_sc_type_code)                         | pst_sc_db_site, pst_sc_db_id, pst_sc_type_code |
|                     | <a href="#">average_type</a> (ave_db_site, ave_db_id, ave_type_code)                                       | ave_db_site, ave_db_id, ave_type_code          |
|                     | <a href="#">ave_weight_type</a> (ave_wt_db_site, ave_wt_db_id, ave_wt_type_code)                           | ave_wt_db_site, ave_wt_db_id, ave_wt_type_code |
|                     | <a href="#">ave_synch_type</a> (ave_sy_db_site, ave_sy_db_id, ave_sy_type_code)                            | ave_sy_db_site, ave_sy_db_id, ave_sy_type_code |
|                     | <a href="#">sp_stream</a> (sp_str_db_site, sp_str_db_id, sp_stream_id)                                     | sp_str_db_site, sp_str_db_id, sp_stream_id     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id               |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                |
|                     |  |  |
| <u>Check</u>        | <u>Column</u>  | <u>Value Range</u>                             |
|                     | width_pct_oct  | 'P','O'  |
|                     |  |  |

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## **Ordered List Tables**

### **#48    ordered\_list**

#### **Description: Ordered List Table**

This table is used to identify the name of an ordered list (like a route of measurement points) for a database.

Note: ord\_list\_id should be a non-changeable, unique identifier since a primary key cannot change and must uniquely define the entity. System-assigned “hidden” ord\_list\_id’s are strongly recommended.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| ord_list_db_site    |  | INT NOT NULL                     |
| ord_list_db_id      |  | INT NOT NULL                     |
| ord_list_id         |  | INT NOT NULL                     |
| name                |  | STRING(0:254)                    |
| user_tag_ident      |  | STRING(0:254)                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id  |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ord_list_db_site, ord_list_db_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## #49 meas\_loc\_list

### Description: Ordered List of Measurement Locations Table

This table is used to store the measurement locations for a given ordered list.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| ord_list_db_site    |  | INT NOT NULL                                  |
| ord_list_db_id      |  | INT NOT NULL                                  |
| ord_list_id         |  | INT NOT NULL                                  |
| ordering_seq        |  | INT NOT NULL                                  |
| meas_loc_site       |  | INT NOT NULL                                  |
| meas_loc_id         |  | INT NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq  |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">ordered_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id)                               | ord_list_db_site, ord_list_db_id, ord_list_id |
|                     | <a href="#">meas_location</a> (meas_loc_site, meas_loc_id)   | meas_loc_site, meas_loc_id                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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## #50 mloc\_unit\_list

### Description: Ordered List of Engineering Units at Measurement Locations Table

This table is used to store the measurement location with associated engineering units and channel number (set to 1 if not a multi-channel input) which has been requested for data collection / reporting at a certain place (ordering\_seq) on an ordered list.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| ord_list_db_site    |  | INT NOT NULL                                  |
| ord_list_db_id      |  | INT NOT NULL                                  |
| ord_list_id         |  | INT NOT NULL                                  |
| ordering_seq        |  | INT NOT NULL                                  |
| channel_number      |  | INT NOT NULL                                  |
| meas_loc_site       |  | INT NOT NULL                                  |
| meas_loc_id         |  | INT NOT NULL                                  |
| eu_db_site          |  | INT NOT NULL                                  |
| eu_db_id            |  | INT NOT NULL                                  |
| eu_type_code        |  | INT NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number                                |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">ordered_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id)                               | ord_list_db_site, ord_list_db_id, ord_list_id |
|                     | <a href="#">meas_location</a> (meas_loc_site, meas_loc_id)   | meas_loc_site, meas_loc_id                    |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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## #89 sp\_ampl\_setup

**Description:** Collection Setup Parameters for Signal-Processed Frequency / Order Single Amplitude / Vector Data Table

This table stores the setup parameters used to capture frequency / order single amplitudes (or vectors) for a given database. These setup id's can then be referenced in the mloc\_ulist\_sp\_ampl table to associate the ordered list's measurement location unit with the signal processing parameters needed to capture the unit in a specified manner.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                               |
|---------------------|--|--|
| spa_setup_db_site   |  | INT NOT NULL                                   |
| spa_setup_db_id     |  | INT NOT NULL                                   |
| spa_setup_id        |  | INT NOT NULL                                   |
| pst_sc_db_site      |  | INT NOT NULL                                   |
| pst_sc_db_id        |  | INT NOT NULL                                   |
| pst_sc_type_code    |  | INT NOT NULL                                   |
| freq_or_order       |  | STRING(1) NOT NULL                             |
| min_in_hz_or_ord    |  | DOUBLE NOT NULL                                |
| max_in_hz_or_ord    |  | DOUBLE NOT NULL                                |
| src_dt_db_site      |  | INT  |
| src_dt_db_id        |  | INT  |
| src_dt_type_code    |  | INT  |
| sp_str_db_site      |  | INT  |
| sp_str_db_id        |  | INT  |
| sp_stream_id        |  | INT  |
| name                |  | STRING(0:254)                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | spa_setup_db_site, spa_setup_db_id, spa_setup_id   |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | spa_setup_db_site, spa_setup_db_id             |
|                     | <a href="#">post_scaling_type</a> (pst_sc_db_site, pst_sc_db_id, pst_sc_type_code)                         | pst_sc_db_site, pst_sc_db_id, pst_sc_type_code |
|                     | <a href="#">src_detect_type</a> (src_dt_db_site, src_dt_db_id, src_dt_type_code)                           | src_dt_db_site, src_dt_db_id, src_dt_type_code |
|                     | <a href="#">sp_stream</a> (sp_str_db_site, sp_str_db_id, sp_stream_id)                                     | sp_str_db_site, sp_str_db_id, sp_stream_id     |

|              |  |                                     |
|--------------|--|-------------------------------------|
|              | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|              | <a href="#">row_status_type</a> (rstat_type_cod) | rstat_type_code                     |
|              |  |                                     |
| <u>Check</u> | <u>Column</u>                                    | <u>Value Range</u>                  |
|              | freq_or_order                                    | 'F','O'                             |
|              |  |                                     |

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## #93 mloc\_ulist\_sp\_ampl

### Description: Collection Setup Parameters Needed to Collect Amplitude Data in the Ordered List of Engineering Units at Measurement Locations Table

This table stores the associated collection setup parameter to be used to capture amplitude data for the engineering unit referenced in the ordered list measurement location unit table.

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| ord_list_db_site    |   | INT NOT NULL  |
| ord_list_db_id      |   | INT NOT NULL  |
| ord_list_id         |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| channel_number      |   | INT NOT NULL  |
| spa_setup_db_site   |   | INT NOT NULL  |
| spa_setup_db_id     |   | INT NOT NULL  |
| spa_setup_id        |   | INT NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                    | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number, spa_setup_db_site, spa_setup_db_id, spa_setup_id |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">mloc_unit_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number)                  | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number |
|                     | <a href="#">sp_ampl_setup</a> (spa_setup_db_site, spa_setup_db_id, spa_setup_id)  | spa_setup_db_site, spa_setup_db_id, spa_setup_id                            |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#90 sp\_fft\_setup****Description: Collection Setup Parameters for Signal-Processed Real / Complex Linear Frequency / Order FFT Spectrum Data Table**

This table stores the setup parameters used to capture real / complex linear frequency / order FFT spectrum data for a given database. These setup id's can then be referenced in the mloc\_ulist\_sp\_fft table to associate the ordered list's measurement location unit with the signal processing parameters needed to capture the unit in a specified manner.

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u>   |
|--------------------|--|--------------------|
| spf_setup_db_site  |  | INT NOT NULL       |
| spf_setup_db_id    |  | INT NOT NULL       |
| spf_setup_id       |  | INT NOT NULL       |
| pst_sc_db_site     |  | INT NOT NULL       |
| pst_sc_db_id       |  | INT NOT NULL       |
| pst_sc_type_code   |  | INT NOT NULL       |
| freq_or_order      |  | STRING(1) NOT NULL |
| min_in_hz_or_ord   |  | DOUBLE NOT NULL    |
| max_in_hz_or_ord   |  | DOUBLE NOT NULL    |
| resolution_lines   |  | INT NOT NULL       |
| win_db_site        |  | INT NOT NULL       |
| win_db_id          |  | INT NOT NULL       |
| win_type_code      |  | INT NOT NULL       |
| ave_db_site        |  | INT                |
| ave_db_id          |  | INT                |
| ave_type_code      |  | INT                |
| ave_wt_db_site     |  | INT                |
| ave_wt_db_id       |  | INT                |
| ave_wt_type_code   |  | INT                |
| ave_sy_db_site     |  | INT                |
| ave_sy_db_id       |  | INT                |
| ave_sy_type_code   |  | INT                |
| ave_overlap_pct    |  | DOUBLE             |
| num_of_averages    |  | INT                |
| sp_str_db_site     |  | INT                |
| sp_str_db_id       |  | INT                |
| sp_stream_id       |  | INT                |
| complex_yn         |  | STRING(1) NOT NULL |
| name               |  | STRING(0:254)      |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)    |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT                |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT                |
| rstat_type_code    | Row status type code   | SHORT              |
|                    |  |                    |
| <u>Primary Key</u> | <u>Column(s)</u>   |                    |
|                    | spf_setup_db_site, spf_setup_db_id,  |                    |

|                     |   |  |
|---------------------|---|--|
|                     | spf_setup_id  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>                                     |
|                     | <a href="#">site_database</a> (db_site, db_id)  | spf_setup_db_site,<br>spf_setup_db_id                |
|                     | <a href="#">post_scaling_type</a> (pst_sc_db_site,<br>pst_sc_db_id, pst_sc_type_code) | pst_sc_db_site,<br>pst_sc_db_id,<br>pst_sc_type_code |
|                     | <a href="#">window_type</a> (win_db_site, win_db_id,<br>win_type_code)                | win_db_site, win_db_id,<br>win_type_code             |
|                     | <a href="#">average_type</a> (ave_db_site, ave_db_id,<br>ave_type_code)               | ave_db_site, ave_db_id,<br>ave_type_code             |
|                     | <a href="#">ave_weight_type</a> (ave_wt_db_site,<br>ave_wt_db_id, ave_wt_type_code)   | ave_wt_db_site,<br>ave_wt_db_id,<br>ave_wt_type_code |
|                     | <a href="#">ave_synch_type</a> (ave_sy_db_site,<br>ave_sy_db_id, ave_sy_type_code)    | ave_sy_db_site,<br>ave_sy_db_id,<br>ave_sy_type_code |
|                     | <a href="#">sp_stream</a> (sp_str_db_site,<br>sp_str_db_id, sp_stream_id)             | sp_str_db_site,<br>sp_str_db_id, sp_stream_id        |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                      | rstat_type_code                                      |
| <u>Check</u>        | <u>Column</u>   | <u>Value Range</u>                                   |
|                     | freq_or_order   | 'F','O'  |
|                     | complex_yn  | 'Y','N'  |

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**#94 mloc\_ulist\_sp\_fft****Description: Collection Setup Parameters Needed to Collect FFT Spectrum Data in the Ordered List of Engineering Units at Measurement Locations Table**

This table stores the associated collection setup parameter to be used to capture FFT spectrum data for the engineering unit referenced in the ordered list measurement location unit table.

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| ord_list_db_site    |   | INT NOT NULL  |
| ord_list_db_id      |   | INT NOT NULL  |
| ord_list_id         |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| channel_number      |   | INT NOT NULL  |
| spf_setup_db_site   |   | INT NOT NULL  |
| spf_setup_db_id     |   | INT NOT NULL  |
| spf_setup_id        |   | INT NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                    | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number, spf_setup_db_site, spf_setup_db_id, spf_setup_id |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">mloc_unit_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number)                  | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number |
|                     | <a href="#">sp_fft_setup</a> (spf_setup_db_site, spf_setup_db_id, spf_setup_id)   | spf_setup_db_site, spf_setup_db_id, spf_setup_id                            |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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## #91 sp\_time\_setup

### Description: Collection Setup Parameters for Signal-Processed Real / Complex Linear Linear Time Waveform Data Table

This table stores the setup parameters used to capture real / complex linear time waveform data for a given database. These setup id's can then be referenced in the mloc\_ulist\_sp\_time table to associate the ordered list's measurement location unit with the signal processing parameters needed to capture the unit in a specified manner.

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u>   |
|--------------------|--|--------------------|
| spt_setup_db_site  |  | INT NOT NULL       |
| spt_setup_db_id    |  | INT NOT NULL       |
| spt_setup_id       |  | INT NOT NULL       |
| secs_or_revs       |  | STRING(1) NOT NULL |
| off_secs_or_revs   |  | DOUBLE NOT NULL    |
| max_secs_or_revs   |  | DOUBLE NOT NULL    |
| number_of_samples  |  | DOUBLE NOT NULL    |
| win_db_site        |  | INT NOT NULL       |
| win_db_id          |  | INT NOT NULL       |
| win_type_code      |  | INT NOT NULL       |
| ave_db_site        |  | INT                |
| ave_db_id          |  | INT                |
| ave_type_code      |  | INT                |
| ave_wt_db_site     |  | INT                |
| ave_wt_db_id       |  | INT                |
| ave_wt_type_code   |  | INT                |
| ave_sy_db_site     |  | INT                |
| ave_sy_db_id       |  | INT                |
| ave_sy_type_code   |  | INT                |
| ave_overlap_pct    |  | DOUBLE             |
| num_of_averages    |  | INT                |
| sp_str_db_site     |  | INT                |
| sp_str_db_id       |  | INT                |
| sp_stream_id       |  | INT                |
| complex_yn         |  | STRING(1) NOT NULL |
| name               |  | STRING(0:254)      |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)    |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT                |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT                |
| rstat_type_code    | Row status type code   | SHORT              |
|                    |  |                    |
| <u>Primary Key</u> | <u>Column(s)</u>   |                    |
|                    | spt_setup_db_site, spt_setup_db_id, spt_setup_id   |                    |
|                    |  |                    |

| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>                                     |
|---------------------|---|--|
|                     | <a href="#">site_database</a> (db_site, db_id)                                      | spt_setup_db_site,<br>spt_setup_db_id                |
|                     | <a href="#">window_type</a> (win_db_site, win_db_id,<br>win_type_code)              | win_db_site, win_db_id,<br>win_type_code             |
|                     | <a href="#">average_type</a> (ave_db_site, ave_db_id,<br>ave_type_code)             | ave_db_site, ave_db_id,<br>ave_type_code             |
|                     | <a href="#">ave_weight_type</a> (ave_wt_db_site,<br>ave_wt_db_id, ave_wt_type_code) | ave_wt_db_site,<br>ave_wt_db_id,<br>ave_wt_type_code |
|                     | <a href="#">ave_synch_type</a> (ave_sy_db_site,<br>ave_sy_db_id, ave_sy_type_code)  | ave_sy_db_site,<br>ave_sy_db_id,<br>ave_sy_type_code |
|                     | <a href="#">sp_stream</a> (sp_str_db_site,<br>sp_str_db_id, sp_stream_id)           | sp_str_db_site,<br>sp_str_db_id, sp_stream_id        |
|                     | <a href="#">site_database</a> (db_site, db_id)                                      | last_upd_db_site,<br>last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                    | rstat_type_code                                      |
|                     |   |  |
| <u>Check</u>        | <u>Column</u>   | <u>Value Range</u>                                   |
|                     | secs_or_revs  | 'S','R'  |
|                     | complex_yn  | 'Y','N'  |
|                     |   |  |

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## #95 mloc\_ulist\_sp\_time

### Description: Collection Setup Parameters Needed to Collect Time Waveform Data in the Ordered List of Engineering Units at Measurement Locations Table

This table stores the associated collection setup parameter to be used to capture time waveform data for the engineering unit referenced in the ordered list measurement location unit table.

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| ord_list_db_site    |   | INT NOT NULL  |
| ord_list_db_id      |   | INT NOT NULL  |
| ord_list_id         |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| channel_number      |   | INT NOT NULL  |
| spt_setup_db_site   |   | INT NOT NULL  |
| spt_setup_db_id     |   | INT NOT NULL  |
| spt_setup_id        |   | INT NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                    | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number, spt_setup_db_site, spt_setup_db_id, spt_setup_id |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">mloc_unit_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number)                  | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number |
|                     | <a href="#">sp_time_setup</a> (spt_setup_db_site, spt_setup_db_id, spt_setup_id)  | spt_setup_db_site, spt_setup_db_id, spt_setup_id                            |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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## #92 sp\_cpb\_setup

### Description: Collection Setup Parameters for Signal-Processed Real Linear Constant Percentage Band Data Table

This table stores the setup parameters used to capture real CPB spectrum data for a given database. These setup id's can then be referenced in the mloc\_ulist\_sp\_cpb table to associate the ordered list's measurement location unit with the signal processing parameters needed to capture the unit in a specified manner.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--------------------|
| spc_setup_db_site   |  | INT NOT NULL       |
| spc_setup_db_id     |  | INT NOT NULL       |
| spc_setup_id        |  | INT NOT NULL       |
| pst_sc_db_site      |  | INT NOT NULL       |
| pst_sc_db_id        |  | INT NOT NULL       |
| pst_sc_type_code    |  | INT NOT NULL       |
| number_of_bands     |  | INT NOT NULL       |
| center_in_hz_1bd    |  | DOUBLE NOT NULL    |
| width_pct_or_oct    |  | STRING(1) NOT NULL |
| band_width          |  | DOUBLE NOT NULL    |
| ave_db_site         |  | INT                |
| ave_db_id           |  | INT                |
| ave_type_code       |  | INT                |
| ave_wt_db_site      |  | INT                |
| ave_wt_db_id        |  | INT                |
| ave_wt_type_code    |  | INT                |
| ave_sy_db_site      |  | INT                |
| ave_sy_db_id        |  | INT                |
| ave_sy_type_code    |  | INT                |
| ave_overlap_pct     |  | DOUBLE             |
| num_of_averages     |  | INT                |
| sp_str_db_site      |  | INT                |
| sp_str_db_id        |  | INT                |
| sp_stream_id        |  | INT                |
| name                |  | STRING(0:254)      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                |
| rstat_type_code     | Row status type code   | SHORT              |
|                     |  |                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                    |
|                     | spc_setup_db_site, spc_setup_db_id, spc_setup_id   |                    |
|                     |  |                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |



|              |   |  |
|--------------|---|--|
|              | <a href="#">site_database</a> (db_site, db_id)  | spc_setup_db_site,<br>spc_setup_db_id                |
|              | <a href="#">post_scaling_type</a> (pst_sc_db_site,<br>pst_sc_db_id, pst_sc_type_code) | pst_sc_db_site,<br>pst_sc_db_id,<br>pst_sc_type_code |
|              | <a href="#">average_type</a> (ave_db_site, ave_db_id,<br>ave_type_code)               | ave_db_site, ave_db_id,<br>ave_type_code             |
|              | <a href="#">ave_weight_type</a> (ave_wt_db_site,<br>ave_wt_db_id, ave_wt_type_code)   | ave_wt_db_site,<br>ave_wt_db_id,<br>ave_wt_type_code |
|              | <a href="#">ave_synch_type</a> (ave_sy_db_site,<br>ave_sy_db_id, ave_sy_type_code)    | ave_sy_db_site,<br>ave_sy_db_id,<br>ave_sy_type_code |
|              | <a href="#">sp_stream</a> (sp_str_db_site,<br>sp_str_db_id, sp_stream_id)             | sp_str_db_site,<br>sp_str_db_id, sp_stream_id        |
|              | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id                  |
|              | <a href="#">row_status_type</a> (rstat_type_cod)                                      | rstat_type_code                                      |
|              |   |  |
| <u>Check</u> | <u>Column</u>   | <u>Value Range</u>                                   |
|              | width_pct_or_oct  | 'P','O'  |
|              |   |  |

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**#96 mloc\_ulist\_sp\_cpb****Description: Collection Setup Parameters Needed to Collect CPB Spectrum Data in the Ordered List of Engineering Units at Measurement Locations Table**

This table stores the associated collection setup parameter to be used to capture CPB spectrum data for the engineering unit referenced in the ordered list measurement location unit table.

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| ord_list_db_site    |   | INT NOT NULL  |
| ord_list_db_id      |   | INT NOT NULL  |
| ord_list_id         |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| channel_number      |   | INT NOT NULL  |
| spc_setup_db_site   |   | INT NOT NULL  |
| spc_setup_db_id     |   | INT NOT NULL  |
| spc_setup_id        |   | INT NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                    | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number, spc_setup_db_site, spc_setup_db_id, spc_setup_id |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">mloc_unit_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number)                  | ord_list_db_site, ord_list_db_id, ord_list_id, ordering_seq, channel_number |
|                     | <a href="#">sp_cpb_setup</a> (spc_setup_db_site, spc_setup_db_id, spc_setup_id)   | spc_setup_db_site, spc_setup_db_id, spc_setup_id                            |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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## Alarm Tables

### #317 num\_alarm\_reg

**Description:** Measurement Location Numeric Alarm Regions

| <u>Column</u>      | <u>Description</u>  | <u>Size/Type</u>         |
|--------------------|---|--------------------------|
| alarm_db_site      |   | INT NOT NULL             |
| alarm_db_id        |   | INT NOT NULL             |
| meas_loc_site      |   | INT NOT NULL             |
| meas_loc_id        |   | INT NOT NULL             |
| ordering_seq       |   | INT NOT NULL             |
| ml_db_site         | Optional location type which specifically applies this alarm for a particular category of measurement events which has this matching measurement location type      | INT                      |
| ml_db_id           | ""  | INT                      |
| ml_type_code       | ""  | INT                      |
| mc_db_site         | Optional calculated data method which specifically applies this alarm to a particular category of measurement events which has this matching calculated data method | INT                      |
| mc_db_id           | ""  | INT                      |
| mc_type_code       | ""  | INT                      |
| al_db_site         |   | INT NOT NULL             |
| al_db_id           |   | INT NOT NULL             |
| al_type_code       |   | INT NOT NULL             |
| eu_db_site         |   | INT NOT NULL             |
| eu_db_id           |   | INT NOT NULL             |
| eu_type_code       |   | INT NOT NULL             |
| gmt_alarm_start    | Time alarm becomes effective (GMT)  | DATETIME(10:29) NOT NULL |
| st_loc_hr_delta    | Start time local hour offset from GMT   | SHORT                    |
| st_loc_min_delta   | Start time local minute offset from GMT   | SHORT                    |
| min_amplitude      |   | DOUBLE NOT NULL          |
| max_amplitude      |   | DOUBLE NOT NULL          |
| name               |   | STRING(0:254)            |
| gmt_last_updated   | GMT time stamp for the last change to this record   | DATETIME(10:29)          |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record  | INT                      |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record  | INT                      |
| rstat_type_code    | Row status type code  | SHORT                    |
|                    |   |                          |
| <u>Primary Key</u> | <u>Column(s)</u>  |                          |
|                    | alarm_db_site, alarm_db_id, meas_loc_site, meas_loc_id, ordering_seq  |                          |
|                    |   |                          |

| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>                                    | <u>Column(s)</u>                     |
|---------------------|---|--------------------------------------|
|                     | <a href="#">site_database</a> (db_site, db_id)                      | alarm_db_site, alarm_db_id           |
|                     | <a href="#">meas_location</a> (meas_loc_site, meas_loc_id)          | meas_loc_site, meas_loc_id           |
|                     | <a href="#">meas_loc_type</a> (ml_db_site, ml_db_id, ml_type_code)  | ml_db_site, ml_db_id, ml_type_code   |
|                     | <a href="#">mloc_calc_type</a> (mc_db_site, mc_db_id, mc_type_code) | mc_db_site, mc_db_id, mc_type_code   |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_siid, al_type_code)   | al_db_site, al_db_siid, al_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)  | eu_db_site, eu_db_id, eu_type_code   |
|                     | <a href="#">site_database</a> (db_site, db_id)                      | last_upd_db_site, last_upd_db_id     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                    | rstat_type_code                      |

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**#319 spa\_alarm\_reg****Description: Signal-processed Amplitudes Alarm Regions**

| <u>Column</u>    | <u>Description</u>  | <u>Size/Type</u>         |
|------------------|---|--------------------------|
| alarm_db_site    |   | INT NOT NULL             |
| alarm_db_id      |   | INT NOT NULL             |
| meas_loc_site    |   | INT NOT NULL             |
| meas_loc_id      |   | INT NOT NULL             |
| ordering_seq     |   | INT NOT NULL             |
| ml_db_site       | Optional location type which specifically applies this alarm for a particular category of measurement events which has this matching measurement location type      | INT                      |
| ml_db_id         | ""  | INT                      |
| ml_type_code     | ""  | INT                      |
| mc_db_site       | Optional calculated data method which specifically applies this alarm to a particular category of measurement events which has this matching calculated data method | INT                      |
| mc_db_id         | ""  | INT                      |
| mc_type_code     | ""  | INT                      |
| al_db_site       |   | INT NOT NULL             |
| al_db_id         |   | INT NOT NULL             |
| al_type_code     |   | INT NOT NULL             |
| freq_or_order    |   | STRING(1) NOT NULL       |
| min_in_hz_or_ord |   | DOUBLE NOT NULL          |
| max_in_hz_or_ord |   | DOUBLE NOT NULL          |
| gmt_alarm_start  | Time alarm becomes effective (GMT)  | DATETIME(10:29) NOT NULL |
| st_loc_hr_delta  | Time local hour offset from GMT   | SHORT                    |
| st_loc_min_delta | Time local minute offset from GMT   | SHORT                    |
| eu_db_site       |   | INT NOT NULL             |
| eu_db_id         |   | INT NOT NULL             |
| eu_type_code     |   | INT NOT NULL             |
| pst_sc_db_site   |   | INT NOT NULL             |
| pst_sc_db_id     |   | INT NOT NULL             |
| pst_sc_type_code |   | INT NOT NULL             |
| src_dt_db_site   |   | INT                      |
| src_dt_db_id     |   | INT                      |
| src_dt_type_code |   | INT                      |
| min_amplitude    |   | DOUBLE NOT NULL          |
| max_amplitude    |   | DOUBLE NOT NULL          |
| name             |   | STRING(0:254)            |
| gmt_last_updated | GMT time stamp for the last change to this record   | DATETIME(10:29)          |
| last_upd_db_site | Site code (from the site table) for the site making the last change to this record  | INT                      |
| last_upd_db_id   | Database Id of the database in which this record was resident when the last change was made to this record  | INT                      |

|                     |   |  |
|---------------------|---|--|
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | alarm_db_site, alarm_db_id,<br>meas_loc_site, meas_loc_id,<br>ordering_seq            |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>                                     |
|                     | <a href="#">site_database</a> (db_site, db_id)  | alarm_db_site, alarm_db_id                           |
|                     | <a href="#">meas_location</a> (meas_loc_site,<br>meas_loc_id)                         | meas_loc_site, meas_loc_id                           |
|                     | <a href="#">meas_loc_type</a> (ml_db_site, ml_db_id,<br>ml_type_code)                 | ml_db_site, ml_db_id,<br>ml_type_code                |
|                     | <a href="#">mloc_calc_type</a> (mc_db_site,<br>mc_db_id, mc_type_code)                | mc_db_site, mc_db_id,<br>mc_type_code                |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_id,<br>al_type_code)                    | al_db_site, al_db_id,<br>al_type_code                |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)                 | eu_db_site, eu_db_id,<br>eu_type_code                |
|                     | <a href="#">post_scaling_type</a> (pst_sc_db_site,<br>pst_sc_db_id, pst_sc_type_code) | pst_sc_db_site,<br>pst_sc_db_id,<br>pst_sc_type_code |
|                     | <a href="#">src_detect_type</a> (src_dt_db_site,<br>src_dt_db_id, src_dt_type_code)   | src_dt_db_site,<br>src_dt_db_id,<br>src_dt_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                      | rstat_type_code                                      |
|                     |   |  |
| <u>Check</u>        | <u>Column</u>   | <u>Value Range</u>                                   |
|                     | freq_or_order   | 'F','O'  |
|                     |   |  |

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**#310 mloc\_test\_alarm\_rg**

**Description: Alarm Regions for Measurement Location Sample Test Numeric Results**

| <u>Column</u>     | <u>Description</u>  | <u>Size/Type</u>         |
|-------------------|---|--------------------------|
| alarm_db_site     |   | INT NOT NULL             |
| alarm_db_id       |   | INT NOT NULL             |
| meas_loc_site     |   | INT NOT NULL             |
| meas_loc_id       |   | INT NOT NULL             |
| ordering_seq      |   | INT NOT NULL             |
| ml_db_site        | Optional location type which specifically applies this alarm for a particular category of measurement events which has this matching measurement location type      | INT                      |
| ml_db_id          | ""  | INT                      |
| ml_type_code      | ""  | INT                      |
| mc_db_site        | Optional calculated data method which specifically applies this alarm to a particular category of measurement events which has this matching calculated data method | INT                      |
| mc_db_id          | ""  | INT                      |
| mc_type_code      | ""  | INT                      |
| stt_db_site       |   | INT NOT NULL             |
| stt_db_id         |   | INT NOT NULL             |
| stt_code          |   | INT NOT NULL             |
| al_db_site        |   | INT NOT NULL             |
| al_db_id          |   | INT NOT NULL             |
| al_type_code      |   | INT NOT NULL             |
| strn_db_site      |   | INT NOT NULL             |
| strn_db_id        |   | INT NOT NULL             |
| str_num_type_code |   | INT NOT NULL             |
| eu_db_site        |   | INT NOT NULL             |
| eu_db_id          |   | INT NOT NULL             |
| eu_type_code      |   | INT NOT NULL             |
| gmt_alarm_start   |   | DATETIME(10:29) NOT NULL |
| st_loc_hr_delta   |   | SHORT                    |
| st_loc_min_delta  |   | SHORT                    |
| min_data_value    |   | DOUBLE NOT NULL          |
| max_data_value    |   | DOUBLE NOT NULL          |
| name              |   | STRING(0:254)            |
| gmt_last_updated  | GMT time stamp for the last change to this record   | DATETIME(10:29)          |
| last_upd_db_site  | Site code (from the site table) for the site making the last change to this record  | INT                      |
| last_upd_db_id    | Database Id of the database in which this record was resident when the last change was made to this record  | INT                      |

|                     |  |  |
|---------------------|--|--|
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | alarm_db_site, alarm_db_id,<br>meas_loc_site, meas_loc_id,<br>ordering_seq         |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                               |
|                     | <a href="#">site_database</a> (db_site, db_id)                                     | alarm_db_site, alarm_db_id                     |
|                     | <a href="#">meas_location</a> (meas_loc_site,<br>meas_loc_id)                      | meas_loc_site, meas_loc_id                     |
|                     | <a href="#">meas_loc_type</a> (ml_db_site, ml_db_id,<br>ml_type_code)              | ml_db_site, ml_db_id,<br>ml_type_code          |
|                     | <a href="#">mloc_calc_type</a> (mc_db_site,<br>mc_db_id, mc_type_code)             | mc_db_site, mc_db_id,<br>mc_type_code          |
|                     | <a href="#">sample_test_type</a> (stt_db_site,<br>stt_db_id, stt_code)             | stt_db_site, stt_db_id,<br>stt_code            |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_id,<br>al_type_code)                 | al_db_site, al_db_id,<br>al_type_code          |
|                     | <a href="#">test_result_ntype</a> (strn_db_site,<br>strn_db_id, str_num_type_code) | strn_db_site, strn_db_id,<br>str_num_type_code |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)              | eu_db_site, eu_db_id,<br>eu_type_code          |
|                     | <a href="#">site_database</a> (db_site, db_id)                                     | last_upd_db_site,<br>last_upd_db_id            |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                   | rstat_type_code                                |
|                     |  |  |

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## #63 mevent\_num\_alarm

### Description: Measurement Event Numeric Data Alarm Table

This table stores all the alarms triggered by the numeric value stored in the Measurement Event Numeric Data Table (mevent\_num\_data.) If data is available in the Measurement Location Numeric Data Alarm Region Table (num\_alarm\_reg), then the alarm data in this table can be derived and does not need to be stored here. However, some systems do not send all the alarm region data, and we need to store the fact that an alarm was triggered.

Note: MIMOSA maintains the site zero (meas\_loc\_site = 0) entries in this table

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| meas_loc_site       |   | INT NOT NULL  |
| meas_loc_id         |   | INT NOT NULL  |
| gmt_event           |   | DATETIME(10:29) NOT NULL  |
| eu_db_site          |   | INT NOT NULL  |
| eu_db_id            |   | INT NOT NULL  |
| eu_type_code        |   | INT NOT NULL  |
| al_db_site          |   | INT NOT NULL  |
| al_db_id            |   | INT NOT NULL  |
| al_type_code        |   | INT NOT NULL  |
| gmt_acknowledged    |   | DATETIME(10:29)   |
| ack_loc_hr_delta    |   | SHORT   |
| ack_loc_min_delta   |   | SHORT   |
| org_agent_site      | Agent which acknowledged the alarm  | INT   |
| agent_id            | Agent which acknowledged the alarm  | INT   |
| name                |   | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                            | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record    | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, eu_db_site, eu_db_id, eu_type_code, al_db_site, al_db_id, al_type_code |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">mevent_num_data</a> (meas_loc_site, meas_loc_id, gmt_event, eu_db_site, eu_db_id, eu_type_code)   | meas_loc_site, meas_loc_id, gmt_event, eu_db_site, eu_db_id, eu_type_code |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_id, al_type_code)   | al_db_site, al_db_id, al_type_code  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | org_agent_site, agent_id  |

|  |  |                                     |
|--|--|-------------------------------------|
|  | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|  | <a href="#">row_status_type</a> (rstat_type_cod) | rstat_type_code                     |
|  |  |                                     |

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**#318 num\_al\_assoc\_reg****Description: Numeric Alarm Associated Regions in Alarm**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| al_db_site          |  | INT NOT NULL  |
| al_db_id            |  | INT NOT NULL  |
| al_type_code        |  | INT NOT NULL  |
| alarm_db_site       |  | INT NOT NULL  |
| alarm_db_id         |  | INT NOT NULL  |
| al_meas_loc_site    |  | INT NOT NULL  |
| al_meas_loc_id      |  | INT NOT NULL  |
| al_ordering_seq     |  | INT NOT NULL  |
| name                |  | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, eu_db_site, eu_db_id, eu_type_code, al_db_site, al_db_id, al_type_code, alarm_db_site, alarm_db_id, al_meas_loc_site, al_meas_loc_id, al_ordering_seq |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">mevent_num_alarm</a> (meas_loc_site, meas_loc_id, gmt_event, eu_db_site, eu_db_id, eu_type_code, al_db_site, al_db_id, al_type_code)   | meas_loc_site, meas_loc_id, gmt_event, eu_db_site, eu_db_id, eu_type_code, al_db_site, al_db_id, al_type_code |
|                     | <a href="#">num_alarm_reg</a> (alarm_db_site, alarm_db_id, meas_loc_site, meas_loc_id, ordering_seq)   | alarm_db_site, alarm_db_id, al_meas_loc_site, al_meas_loc_id, al_ordering_seq                                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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## #79 sp\_ampl\_alarm

### Description: Signal-Processed Frequency / Order Single Amplitude Data Alarm Table

This table stores all the alarms triggered by the signal-processed single amplitudes stored in the sp\_ampl\_data table. If data is available in the Measurement Location Signal-Processed Single Amplitude Alarm Region Table, the alarm data in this table can be derived and does not need to be stored here. However, some systems do not send all the alarm region data and we need to store the fact that an alarm was triggered.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                    |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL                            |
| ordering_seq        |  | INT NOT NULL  |
| al_db_site          |  | INT NOT NULL  |
| al_db_id            |  | INT NOT NULL  |
| al_type_code        |  | INT NOT NULL  |
| gmt_acknowledged    | Time of acknowledgement (GMT)  | DATETIME(10:29)                                     |
| ack_loc_hr_delta    | Local hour offset from GMT   | SHORT   |
| ack_loc_min_delta   | Local minute offset from GMT   | SHORT   |
| org_agent_site      | Agent which acknowledged the alarm   | INT   |
| agent_id            | Agent which acknowledged the alarm   | INT   |
| name                |  | STRING(0:254)                                       |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                     |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, ordering_seq, al_db_site, al_db_id, al_type_code                    |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                    |
|                     | <a href="#">sp_ampl_data</a> (meas_loc_site, meas_loc_id, gmt_event, ordering_seq)                         | meas_loc_site, meas_loc_id, gmt_event, ordering_seq |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_id, al_type_code)  | al_db_site, al_db_id, al_type_code                  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | org_agent_site, agent_id                            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                    |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                     |

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**#320 spa\_al\_assoc\_reg****Description: Signal-Processed Amplitude Associated Regions in Alarm**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| al_db_site          |  | INT NOT NULL  |
| al_db_id            |  | INT NOT NULL  |
| al_type_code        |  | INT NOT NULL  |
| alarm_db_site       |  | INT NOT NULL  |
| alarm_db_id         |  | INT NOT NULL  |
| al_meas_loc_site    |  | INT NOT NULL  |
| al_meas_loc_id      |  | INT NOT NULL  |
| al_ordering_seq     |  | INT NOT NULL  |
| name                |  | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, ordering_seq, al_db_site, al_db_id, al_type_code, alarm_db_site, alarm_db_id, al_meas_loc_site, al_meas_loc_id, al_ordering_seq |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">sp_ampl_alarm</a> (meas_loc_site, meas_loc_id, gmt_event, ordering_seq, al_db_site, al_db_id, al_type_code)  | meas_loc_site, meas_loc_id, gmt_event, ordering_seq, al_db_site, al_db_id, al_type_code |
|                     | <a href="#">spa_alarm_reg</a> (alarm_db_site, alarm_db_id, meas_loc_site, meas_loc_id, ordering_seq)   | alarm_db_site, alarm_db_id, al_meas_loc_site, al_meas_loc_id, al_ordering_seq           |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#120 blob\_alarm****Description: Measurement Event BLOB Data Alarm**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| meas_loc_site       |  | INT NOT NULL   |
| meas_loc_id         |  | INT NOT NULL   |
| gmt_event           |  | DATETIME(10:29) NOT NULL   |
| mebt_db_site        |  | INT NOT NULL   |
| mebt_db_id          |  | INT NOT NULL   |
| meb_type_code       |  | INT NOT NULL   |
| al_db_site          |  | INT NOT NULL   |
| al_db_id            |  | INT NOT NULL   |
| al_type_code        |  | INT NOT NULL   |
| gmt_acknowledged    |  | DATETIME(10:29)  |
| ack_loc_hr_delta    |  | SHORT  |
| ack_loc_min_delta   |  | SHORT  |
| org_agent_site      | Agent which acknowledged the alarm   | INT  |
| agent_id            | Agent which acknowledged the alarm   | INT  |
| name                |  | STRING(0:254)  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                 | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record         | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | meas_loc_site, meas_loc_id, gmt_event, mebt_db_site, mebt_db_id, meb_type_code, al_db_site, al_db_id, al_type_code |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">mevent_blob_data</a> (meas_loc_site, meas_loc_id, gmt_event, mebt_db_site, mebt_db_id, meb_type_code)  | meas_loc_site, meas_loc_id, gmt_event, mebt_db_site, mebt_db_id, meb_type_code |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_id, al_type_code)  | al_db_site, al_db_id, al_type_code   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | org_agent_site, agent_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#293 blob\_area\_alarm****Description: Measurement Event BLOB Data Area in Alarm.**

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u>         |
|--------------------|--|--------------------------|
| meas_loc_site      |  | INT NOT NULL             |
| meas_loc_id        |  | INT NOT NULL             |
| gmt_event          |  | DATETIME(10:29) NOT NULL |
| mebt_db_site       |  | INT NOT NULL             |
| mebt_db_id         |  | INT NOT NULL             |
| meb_type_code      |  | INT NOT NULL             |
| area_seq           |  | INT NOT NULL             |
| x_resolution       | Total dimensions of the rectangular  | INT NOT NULL             |
| y_resolution       | grid related to the BLOB image (grid resolution)   | INT NOT NULL             |
| high_db_site       | Highlight area type (arrow, rectangle, etc.)   | INT NOT NULL             |
| high_db_id         |  | INT NOT NULL             |
| high_type_code     |  | INT NOT NULL             |
| data_origin_x      | X, Y coordinates of the origin of the  | INT NOT NULL             |
| data_origin_y      | highlighted area or point in alarm. This data must be interpreted based on the highlight area type (see description in table #292 <a href="#">highlight_type</a> ) | INT NOT NULL             |
| data_end_x         | X, Y coordinates of the end of the   | INT NOT NULL             |
| data_end_y         | highlighted area or point in alarm. This data must be interpreted based on the highlight area type (see description in table #292 <a href="#">highlight_type</a> ) | INT NOT NULL             |
| al_db_site         |  | INT NOT NULL             |
| al_db_id           |  | INT NOT NULL             |
| al_type_code       |  | INT NOT NULL             |
| gmt_acknowledged   |  | DATETIME(10:29)          |
| ack_loc_hr_delta   |  | SHORT                    |
| ack_loc_min_delta  |  | SHORT                    |
| org_agent_site     | Agent which acknowledged the alarm   | INT                      |
| agent_id           | Agent which acknowledged the alarm   | INT                      |
| name               |  | STRING(0:254)            |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)          |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record   | INT                      |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record   | INT                      |
| rstat_type_code    | Row status type code   | SHORT                    |
|                    |  |                          |
| <u>Primary Key</u> | <u>Column(s)</u>   |                          |
|                    | meas_loc_site, meas_loc_id, gmt_event, mebt_db_site, mebt_db_id, meb_type_code, area_seq   |                          |



| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|---------------------|---|--|
|                     | <a href="#">mevent_blob_data</a> (meas_loc_site, meas_loc_id, gmt_event, mebt_db_site, mebt_db_id, meb_type_code) | meas_loc_site, meas_loc_id, gmt_event, mebt_db_site, mebt_db_id, meb_type_code |
|                     | <a href="#">highlight_type</a> (high_db_site, high_db_id, high_type_code)   | high_db_site, high_db_id, high_type_code                                       |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_id, al_type_code)   | al_db_site, al_db_id, al_type_code   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | org_agent_site, agent_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> ( rstat_type_cod)   | rstat_type_code  |
|                     |   |  |

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**#191 test\_nres\_alarm****Description: Measurement Sample Test Numeric Result Alarms**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| meas_loc_site       |   | INT NOT NULL  |
| meas_loc_id         |   | INT NOT NULL  |
| gmt_event           |   | DATETIME(10:29) NOT NULL  |
| sample_order_seq    |   | INT NOT NULL  |
| test_order_seq      |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| al_db_site          |   | INT NOT NULL  |
| al_db_id            |   | INT NOT NULL  |
| al_type_code        |   | INT NOT NULL  |
| gmt_acknowledged    |   | DATETIME(10:29)   |
| ack_loc_hr_delta    |   | SHORT   |
| ack_loc_min_delta   |   | SHORT   |
| org_agent_site      | Agent which acknowledged the alarm  | INT   |
| agent_id            | Agent which acknowledged the alarm  | INT   |
| name                |   | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq, al_db_site, al_db_id, al_type_code |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">test_num_results</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq,) | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_id, al_type_code)   | al_db_site, al_db_id, al_type_code  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | org_agent_site, agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#321 test\_al\_assoc\_reg****Description: Sample Test Alarm Associated Regions in Alarm**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL  |
| sample_order_seq    |  | INT NOT NULL  |
| test_order_seq      |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| al_db_site          |  | INT NOT NULL  |
| al_db_id            |  | INT NOT NULL  |
| al_type_code        |  | INT NOT NULL  |
| alarm_db_site       |  | INT NOT NULL  |
| alarm_db_id         |  | INT NOT NULL  |
| al_meas_loc_site    |  | INT NOT NULL  |
| al_meas_loc_id      |  | INT NOT NULL  |
| al_ordering_seq     |  | INT NOT NULL  |
| name                |  | STRING(0:254) NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq, al_db_site, al_db_id, al_type_code, alarm_db_site, alarm_db_id, al_meas_loc_site, al_meas_loc_id, al_ordering_seq |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">test_nres_alarm</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq, al_db_site, al_db_id, al_type_code)  | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq, al_db_site, al_db_id, al_type_code |
|                     | <a href="#">mloc_test_alarm_rg</a> (alarm_db_site, alarm_db_id, meas_loc_site, meas_loc_id, ordering_seq)  | alarm_db_site, alarm_db_id, al_meas_loc_site, al_meas_loc_id, al_ordering_seq   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |

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**#192 test\_bres\_alarm****Description: Measurement Sample Test BLOB Result Alarms**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| meas_loc_site       |   | INT NOT NULL  |
| meas_loc_id         |   | INT NOT NULL  |
| gmt_event           |   | DATETIME(10:29) NOT NULL  |
| sample_order_seq    |   | INT NOT NULL  |
| test_order_seq      |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| al_db_site          |   | INT NOT NULL  |
| al_db_id            |   | INT NOT NULL  |
| al_type_code        |   | INT NOT NULL  |
| gmt_acknowledged    |   | DATETIME(10:29)   |
| ack_loc_hr_delta    |   | SHORT   |
| ack_loc_min_delta   |   | SHORT   |
| org_agent_site      | Agent which acknowledged the alarm  | INT   |
| agent_id            | Agent which acknowledged the alarm  | INT   |
| name                |   | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq, al_db_site, al_db_id, al_type_code |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">test_blob_results</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq) | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq |
|                     | <a href="#">alarm_type</a> (al_db_site, al_db_id, al_type_code)   | al_db_site, al_db_id, al_type_code  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | org_agent_site, agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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## **Agent Tables**

### **#117 agent**

#### **Description: Agent Table**

This table identifies all of the agents for a database. An agent is any “intelligent” entity which might act on the database such as an Organization, Group, Individual, Intelligent Agent, System, etc.

Note: org\_agent\_site is the original site (home site) of the agent

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                            |
|---------------------|--|---|
| org_agent_site      | Original agent site (home site)  | INT NOT NULL                                |
| agent_id            |  | INT NOT NULL                                |
| agent_db_site       |  | INT NOT NULL                                |
| agent_db_id         |  | INT NOT NULL                                |
| agent_type_code     |  | INT NOT NULL                                |
| name                |  | STRING(0:254) NOT NULL                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                             |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT                                       |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | org_agent_site, agent_id   |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | org_agent_site, agent_id                    |
|                     | <a href="#">agent_type</a> (agent_db_site, agent_db_id, agent_type_code)                                   | agent_db_site, agent_db_id, agent_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id            |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                             |
|                     |  |   |

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## #118 agent\_role

### Description: Agent Roles Table

This table assigns roles to individual agents. Possible agent role types include Manager, Owner, Employer, Buyer, Operator, etc.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                  |
|---------------------|--|---|
| org_agent_site      |  | INT NOT NULL                                      |
| agent_id            |  | INT NOT NULL                                      |
| ag_role_db_site     |  | INT NOT NULL                                      |
| ag_role_db_id       |  | INT NOT NULL                                      |
| ag_role_type_code   |  | INT NOT NULL                                      |
| name                |  | STRING(0:254)                                     |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | org_agent_site, agent_id, ag_role_db_site, ag_role_db_id, ag_role_type_code                                |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | org_agent_site, agent_id                          |
|                     | <a href="#">agent_role_type</a> (ag_role_db_site, ag_role_db_id, ag_role_type_code)                        | ag_role_db_site, ag_role_db_id, ag_role_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                   |
|                     |  |   |

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## #223 agent\_role\_with\_agent

### Description: Agent in Defined Role with Associated Agent Table

This table defines roles for agents in relationship to other agents. In this context, possible agent role types might include Manager Of, Owner Of, Employer Of, Buyer From, etc.

Note: The columns org\_agent\_site, agent\_id, ag\_role\_db\_site and ag\_rolld\_db\_id define the agent's role: Manager Of, Buyer From, etc.

Note: The columns other\_org\_agent\_site and other\_agent\_id identify the associated agent.

| Column               | Description   | Size/Type   |
|----------------------|---|---|
| org_agent_site       |   | INT NOT NULL  |
| agent_id             |   | INT NOT NULL  |
| ag_role_db_site      |   | INT NOT NULL  |
| ag_role_db_id        |   | INT NOT NULL  |
| ag_role_type_code    |   | INT NOT NULL  |
| other_org_agent_site |   | INT NOT NULL  |
| other_agent_id       |   | INT NOT NULL  |
| name                 |   | STRING(0:254)   |
| gmt_last_updated     | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site     | Site code (from the site table) for the site making the last change to this record                                | INT   |
| last_upd_db_id       | Database Id of the database in which this record was resident when the last change was made to this record        | INT   |
| rstat_type_code      | Row status type code  | SHORT   |
|                      |   |   |
| <u>Primary Key</u>   | <u>Column(s)</u>  |   |
|                      | org_agent_site, agent_id, ag_role_db_site, ag_role_db_id, ag_role_type_code, other_org_agent_site, other_agent_id |   |
|                      |   |   |
| <u>Foreign Keys</u>  | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                      | <a href="#">agent_role</a> (org_agent_site, agent_id, ag_role_db_site, ag_role_db_id, ag_role_type_code)          | org_agent_site, agent_id, ag_role_db_site, ag_role_db_id, ag_role_type_code |
|                      | <a href="#">agent</a> (org_agent_site, agent_id)  | other_org_agent_site, other_agent_id  |
|                      | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                      | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
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## **Sample Test Data Tables**

### **#166 meas\_sample**

#### **Description: Measurement Sample Table**

Note: The required user\_tab\_ident field is the alpha-numeric sample number.

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| meas_loc_site       |  | INT NOT NULL                          |
| meas_loc_id         |  | INT NOT NULL                          |
| gmt_event           |  | DATETIME(10:29) NOT NULL              |
| sample_order_seq    |  | INT NOT NULL                          |
| user_tag_ident      | Alpha-numeric sample number  | STRING(0:254) NOT NULL                |
| by_agent_site       |  | INT                                   |
| by_agent_id         |  | INT                                   |
| name                |  | STRING(0:254)                         |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq  |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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## #163 meas\_sample\_child

### Description: Measurement Sample Child Table

This table relates a measurement sample master to a subsequent child measurement sample

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| meas_loc_site       |   | INT NOT NULL   |
| meas_loc_id         |   | INT NOT NULL   |
| gmt_event           |   | DATETIME(10:29) NOT NULL   |
| sample_order_seq    |   | INT NOT NULL   |
| child_mloc_site     |   | INT NOT NULL   |
| child_mloc_id       |   | INT NOT NULL   |
| child_gmt_event     |   | DATETIME(10:29) NOT NULL   |
| child_sam_ord_seq   |   | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                  | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, child_mloc_site, child_mloc_id, child_gmt_event, child_sam_ord_seq |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">meas_sample</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq)                                       | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq            |
|                     | <a href="#">meas_sample</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq)                                       | child_mloc_site, child_mloc_id, child_gmt_event, child_sam_ord_seq |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id                                   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#213 sample\_num\_data****Description: Measurement Sample Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL                                |
| sample_order_seq    |  | INT NOT NULL  |
| snum_db_site        |  | INT NOT NULL  |
| snum_db_id          |  | INT NOT NULL  |
| snum_type_code      |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| data_value          |  | DOUBLE NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, snum_db_site, snum_db_id, snum_type_code          |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq)                      | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq |
|                     | <a href="#">sample_ndata_type</a> (snum_db_site, snum_db_id, snum_type_code)                               | snum_db_site, snum_db_id, snum_type_code                |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#288 sample\_chr\_data****Description: Measurement Sample Character Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL                                |
| sample_order_seq    |  | INT NOT NULL  |
| schr_db_site        |  | INT NOT NULL  |
| schr_db_id          |  | INT NOT NULL  |
| schr_type_code      |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| data_value          |  | STRING(0:254) NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, schr_db_site, schr_db_id, schr_type_code          |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq)                      | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq |
|                     | <a href="#">sample_cdata_type</a> (schr_db_site, schr_db_id, schr_type_code)                               | schr_db_site, schr_db_id, schr_type_code                |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#289 sample\_remark****Description: Measurement Sample Remark**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL                                |
| sample_order_seq    |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| remark_text         |  | STRING(0:254) NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, ordering_seq                                      |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq)                      | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#122 meas\_sample\_test****Description: Measurement Sample Test**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL                                |
| sample_order_seq    |  | INT NOT NULL  |
| test_order_seq      |  | INT NOT NULL  |
| stt_db_site         |  | INT NOT NULL  |
| stt_db_id           |  | INT NOT NULL  |
| stt_code            |  | INT NOT NULL  |
| user_tag_ident      |  | STRING(0:254) NOT NULL                                  |
| name                |  | STRING(0:254)   |
| by_agent_site       |  | INT NOT NULL  |
| by_agent_id         |  | INT NOT NULL  |
| test_asset_site     | Asset used to perform the test   | INT   |
| test_asset_id       | Asset used to perform the test   | INT   |
| gmt_started         |  | DATETIME(10:29)   |
| st_loc_hr_delta     |  | SHORT   |
| st_loc_min_delta    |  | SHORT   |
| gmt_ended           |  | DATETIME(10:29)   |
| end_loc_hr_delta    |  | SHORT   |
| end_loc_min_delta   |  | SHORT   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq                                    |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq)                      | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq |
|                     | <a href="#">sample_test_type</a> (stt_db_site, stt_db_id, stt_code)  | stt_db_site, stt_db_id, stt_code                        |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id                              |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | test_asset_site, test_asset_id                          |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |

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**#164 test\_num\_results****Description: Measurement Sample Test Numeric Results**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL  |
| sample_order_seq    |  | INT NOT NULL  |
| test_order_seq      |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| strn_db_site        |  | INT NOT NULL  |
| strn_db_id          |  | INT NOT NULL  |
| str_num_type_code   |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| real_data_value     |  | DOUBLE NOT NULL   |
| imag_data_value     |  | DOUBLE  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq                      |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample_test</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq) | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq |
|                     | <a href="#">test_result_ntype</a> (strn_db_site, strn_db_id, str_num_type_code)                            | strn_db_site, strn_db_id, str_num_type_code                             |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code                                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#285 test\_chr\_results****Description: Measurement Sample Test Character Results**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL  |
| sample_order_seq    |  | INT NOT NULL  |
| test_order_seq      |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| strc_db_site        |  | INT NOT NULL  |
| strc_db_id          |  | INT NOT NULL  |
| str_chr_type_code   |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| data_value          |  | STRING(0:254) NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq                      |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample_test</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq) | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq |
|                     | <a href="#">test_result_ctype</a> (strc_db_site, strc_db_id, str_chr_type_code)                            | strc_db_site, strc_db_id, str_chr_type_code                             |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code                                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#168 test\_blob\_results****Description: Measurement Sample Test Binary Results For Ferrography / Etc.**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL  |
| sample_order_seq    |  | INT NOT NULL  |
| test_order_seq      |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| strb_db_site        |  | INT NOT NULL  |
| strb_db_id          |  | INT NOT NULL  |
| str_blob_type_code  |  | INT NOT NULL  |
| bd_db_site          |  | INT NOT NULL  |
| bd_db_id            |  | INT NOT NULL  |
| bd_type_code        |  | INT NOT NULL  |
| name                |  | STRING(0:254)   |
| assoc_file_name     |  | STRING(0:254)   |
| image_data          |  | BASE64BINARY  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq                      |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample_test</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq) | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq |
|                     | <a href="#">test_result_btype</a> (strb_db_site, strb_db_id, str_blob_type_code)                           | strb_db_site, strb_db_id, str_blob_type_code                            |
|                     | <a href="#">blob_data_type</a> (strb_db_site, strb_db_id, str_blob_type_code)                              | bd_db_site, bd_db_id, bd_type_code                                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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## #214 test\_histogram

### Description: Measurement Sample Test Histogram

Note: The constant screen width = (max\_screen\_in\_eu – min\_screen\_in\_eu) / resolution\_lines. The screen size of the first histogram value in histogram\_data = min\_screen\_in\_eu + constant screen width.  
Histogram\_data is a variable-length binary field, containing 4-byte IEEE float real values for each line of resolution in the histogram

| Column              | Description  | Size/Type   |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL  |
| sample_order_seq    |  | INT NOT NULL  |
| test_order_seq      |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| strn_db_site        |  | INT NOT NULL  |
| strn_db_id          |  | INT NOT NULL  |
| str_num_type_code   |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| min_screen_in_eu    |  | INT NOT NULL  |
| max_screen_in_eu    |  | INT NOT NULL  |
| resolution_lines    |  | INT NOT NULL  |
| name                |  | STRING(0:254)   |
| histogram_data      |  | BASE64BINARY  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq                      |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample_test</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq) | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq |
|                     | <a href="#">test_result_ntype</a> (strn_db_site, strn_db_id, str_num_type_code)                            | strn_db_site, strn_db_id, str_num_type_code                             |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,   | eu_db_site, eu_db_id,   |

|  |  |                                     |
|--|--|-------------------------------------|
|  | eu_type_code)                                    | eu_type_code                        |
|  | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id |
|  | <a href="#">row_status_type</a> (rstat_type_cod) | rstat_type_code                     |
|  |  |                                     |

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**#287 test\_remark****Description: Measurement Sample Test Remark**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| meas_loc_site       |  | INT NOT NULL  |
| meas_loc_id         |  | INT NOT NULL  |
| gmt_event           |  | DATETIME(10:29) NOT NULL  |
| sample_order_seq    |  | INT NOT NULL  |
| test_order_seq      |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| remark_text         |  | STRING(0:254) NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq, ordering_seq                      |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">meas_sample_test</a> (meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq) | meas_loc_site, meas_loc_id, gmt_event, sample_order_seq, test_order_seq |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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## **BLOB Drawing / Photographic / Document Tables**

### **#224 sg\_type\_blob\_data**

**Description: Segment Type Binary Data Related To a Specific Database**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                        |
|---------------------|--|---|
| db_site             |  | INT NOT NULL                            |
| db_id               |  | INT NOT NULL                            |
| sg_db_site          |  | INT NOT NULL                            |
| sg_db_id            |  | INT NOT NULL                            |
| sg_type_code        |  | INT NOT NULL                            |
| bd_db_site          |  | INT NOT NULL                            |
| bd_db_id            |  | INT NOT NULL                            |
| bd_type_code        |  | INT NOT NULL                            |
| ordering_seq        |  | INT NOT NULL                            |
| blct_db_site        |  | INT NOT NULL                            |
| blct_db_id          |  | INT NOT NULL                            |
| blc_type_code       |  | INT NOT NULL                            |
| name                |  | STRING(0:254)                           |
| assoc_file_name     |  | STRING(0:254)                           |
| image_data          |  | BASE64BINARY                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                         |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                     |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                     |
| rstat_type_code     | Row status type code   | SHORT                                   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | db_site, db_id, sg_db_site, sg_db_id, sg_type_code, bd_db_site, bd_db_id, bd_type_code, ordering_seq       |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                          |
|                     | <a href="#">segment_type</a> (sg_db_site, sg_db_id, sg_type_code)  | sg_db_site, sg_db_id, sg_type_code      |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code      |
|                     | <a href="#">blob_content_type</a> (blct_db_site, blct_db_id, blc_type_code)                                | blct_db_site, blct_db_id, blc_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                         |
|                     |  |   |

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**#225 as\_type\_blob\_data****Description: Asset Type Binary Data Related To a Specific Database**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                        |
|---------------------|--|---|
| db_site             |  | INT NOT NULL                            |
| db_id               |  | INT NOT NULL                            |
| as_db_site          |  | INT NOT NULL                            |
| as_db_id            |  | INT NOT NULL                            |
| as_type_code        |  | INT NOT NULL                            |
| bd_db_site          |  | INT NOT NULL                            |
| bd_db_id            |  | INT NOT NULL                            |
| bd_type_code        |  | INT NOT NULL                            |
| ordering_seq        |  | INT NOT NULL                            |
| blct_db_site        |  | INT NOT NULL                            |
| blct_db_id          |  | INT NOT NULL                            |
| blc_type_code       |  | INT NOT NULL                            |
| name                |  | STRING(0:254)                           |
| assoc_file_name     |  | STRING(0:254)                           |
| image_data          |  | BASE64BINARY                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                         |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                     |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                     |
| rstat_type_code     | Row status type code   | SHORT                                   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | db_site, db_id, as_db_site, as_db_id, as_type_code, bd_db_site, bd_db_id, bd_type_code, ordering_seq       |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                          |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | as_db_site, as_db_id, as_type_code      |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code      |
|                     | <a href="#">blob_content_type</a> (blct_db_site, blct_db_id, blc_type_code)                                | blct_db_site, blct_db_id, blc_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                         |
|                     |  |   |

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**#188 segment\_blob\_data****Description: Segment Binary Data Related To a Specific Database**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                        |
|---------------------|--|---|
| db_site             |  | INT NOT NULL                            |
| db_id               |  | INT NOT NULL                            |
| segment_site        |  | INT NOT NULL                            |
| segment_id          |  | INT NOT NULL                            |
| bd_db_site          |  | INT NOT NULL                            |
| bd_db_id            |  | INT NOT NULL                            |
| bd_type_code        |  | INT NOT NULL                            |
| ordering_seq        |  | INT NOT NULL                            |
| blct_db_site        |  | INT NOT NULL                            |
| blct_db_id          |  | INT NOT NULL                            |
| blc_type_code       |  | INT NOT NULL                            |
| name                |  | STRING(0:254)                           |
| assoc_file_name     | In addition to blob  | STRING(0:254)                           |
| image_data          |  | BASE64BINARY                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                         |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                     |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                     |
| rstat_type_code     | Row status type code   | SHORT                                   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | db_site, db_id, segment_site, segment_id, bd_db_site, bd_db_id, bd_type_code, ordering_seq                 |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                          |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id                |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code      |
|                     | <a href="#">blob_content_type</a> (blct_db_site, blct_db_id, blc_type_code)                                | blct_db_site, blct_db_id, blc_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                         |
|                     |  |   |

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**#220 model\_blob\_data****Description: Model Binary Data Related To a Specific Database**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| db_site             |   | INT NOT NULL  |
| db_id               |   | INT NOT NULL  |
| mf_db_site          |   | INT NOT NULL  |
| mf_db_id            |   | INT NOT NULL  |
| mf_duns_code        |   | INT NOT NULL  |
| model_number        |   | STRING(0:254) NOT NULL  |
| revision_number     |   | INT NOT NULL  |
| bd_db_site          |   | INT NOT NULL  |
| bd_db_id            |   | INT NOT NULL  |
| bd_type_code        |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| blct_db_site        |   | INT NOT NULL  |
| blct_db_id          |   | INT NOT NULL  |
| blc_type_code       |   | INT NOT NULL  |
| name                |   | STRING(0:254)   |
| assoc_file_name     |   | STRING(0:254)   |
| image_data          |   | BASE64BINARY  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                          | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | db_site, db_id, mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, bd_db_site, bd_db_id, bd_type_code, ordering_seq |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | db_site, db_id  |
|                     | <a href="#">model</a> (mf_db_site, mf_db_id, mf_type_code, model_number, revision_number)   | mf_db_site, mf_db_id, mf_type_code, model_number, revision_number |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)   | bd_db_site, bd_db_id, bd_type_code                                |
|                     | <a href="#">blob_content_type</a> (blct_db_site, blct_db_id, blc_type_code)   | blct_db_site, blct_db_id, blc_type_code                           |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id                                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#189 asset\_blob\_data****Description: Asset Binary Data Related To a Specific Database**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                        |
|---------------------|--|---|
| db_site             |  | INT NOT NULL                            |
| db_id               |  | INT NOT NULL                            |
| asset_org_site      |  | INT NOT NULL                            |
| asset_id            |  | INT NOT NULL                            |
| bd_db_site          |  | INT NOT NULL                            |
| bd_db_id            |  | INT NOT NULL                            |
| bd_type_code        |  | INT NOT NULL                            |
| ordering_seq        |  | INT NOT NULL                            |
| blct_db_site        |  | INT NOT NULL                            |
| blct_db_id          |  | INT NOT NULL                            |
| blc_type_code       |  | INT NOT NULL                            |
| name                |  | STRING(0:254)                           |
| assoc_file_name     | In addition to blob  | STRING(0:254)                           |
| image_data          |  | BASE64BINARY                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                         |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                     |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                     |
| rstat_type_code     | Row status type code   | SHORT                                   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | db_site, db_id, asset_org_site, asset_id, bd_db_site, bd_db_id, bd_type_code, ordering_seq                 |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                          |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id                |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code      |
|                     | <a href="#">blob_content_type</a> (blct_db_site, blct_db_id, blc_type_code)                                | blct_db_site, blct_db_id, blc_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id        |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                         |
|                     |  |   |

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**#190 olist\_blob\_data****Description: Ordered List Binary Data Related To a Specific Database**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>                              |
|---------------------|---|---|
| db_site             |   | INT NOT NULL                                  |
| db_id               |   | INT NOT NULL                                  |
| ord_list_db_site    |   | INT NOT NULL                                  |
| ord_list_db_id      |   | INT NOT NULL                                  |
| ord_list_id         |   | INT NOT NULL                                  |
| bd_db_site          |   | INT NOT NULL                                  |
| bd_db_id            |   | INT NOT NULL                                  |
| bd_type_code        |   | INT NOT NULL                                  |
| ordering_seq        |   | INT NOT NULL                                  |
| blct_db_site        |   | INT NOT NULL                                  |
| blct_db_id          |   | INT NOT NULL                                  |
| blc_type_code       |   | INT NOT NULL                                  |
| name                |   | STRING(0:254)                                 |
| assoc_file_name     |   | STRING(0:254)                                 |
| image_data          |   | BASE64BINARY                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                              | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record      | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | db_site, db_id, ord_list_db_site, ord_list_db_id, ord_list_id, bd_db_site, bd_db_id, bd_type_code, ordering_seq |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>                              |
|                     | <a href="#">site_database</a> (db_site, db_id)  | db_site, db_id                                |
|                     | <a href="#">ordered_list</a> (ord_list_db_site, ord_list_db_id, ord_id)   | ord_list_db_site, ord_list_db_id, ord_list_id |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)   | bd_db_site, bd_db_id, bd_type_code            |
|                     | <a href="#">blob_content_type</a> (blct_db_site, blct_db_id, blc_type_code)                                     | blct_db_site, blct_db_id, blc_type_code       |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code                               |
|                     |   |   |

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## **Function Data Tables**

### **#264 sg\_type\_function**

**Description: Function Codes, Descriptions of a Service Segment Type**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| db_site             |  | INT NOT NULL                       |
| db_id               |  | INT NOT NULL                       |
| sg_db_site          |  | INT NOT NULL                       |
| sg_db_id            |  | INT NOT NULL                       |
| sg_type_code        |  | INT NOT NULL                       |
| ordering_seq        |  | INT NOT NULL                       |
| user_tag_id         |  | STRING(0:254) NOT NULL             |
| name                |  | STRING(0:254)                      |
| gmt_created         |  | DATETIME(10:29)                    |
| cr_loc_hr_delta     |  | SHORT                              |
| cr_loc_min_delta    |  | SHORT                              |
| by_org_asite        |  | INT                                |
| by_agent_id         |  | INT                                |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | db_site, db_id, sg_db_site, sg_db_id, sg_type_code, ordering_seq   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                     |
|                     | <a href="#">segment_type</a> (sg_db_site, sg_db_id, sg_type_code)  | sg_db_site, sg_db_id, sg_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id          |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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## #265 as\_type\_function

### Description: Function Codes, Descriptions of an Asset Type

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| db_site             |  | INT NOT NULL                       |
| db_id               |  | INT NOT NULL                       |
| as_db_site          |  | INT NOT NULL                       |
| as_db_id            |  | INT NOT NULL                       |
| as_type_code        |  | INT NOT NULL                       |
| ordering_seq        |  | INT NOT NULL                       |
| user_tag_id         |  | STRING(0:254) NOT NULL             |
| name                |  | STRING(0:254)                      |
| gmt_created         |  | DATETIME(10:29)                    |
| cr_loc_hr_delta     |  | SHORT                              |
| cr_loc_min_delta    |  | SHORT                              |
| by_org_asite        |  | INT                                |
| by_agent_id         |  | INT                                |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | db_site, db_id, as_db_site, as_db_id, as_type_code, ordering_seq   |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                     |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | as_db_site, as_db_id, as_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id          |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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**#268 model\_function****Description: Function Codes, Descriptions of a Model**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| db_site             |  | INT NOT NULL  |
| db_id               |  | INT NOT NULL  |
| mf_db_site          |  | INT NOT NULL  |
| mf_db_id            |  | INT NOT NULL  |
| mf_duns_code        |  | INT NOT NULL  |
| model_number        |  | STRING(0:254) NOT NULL  |
| revision_number     |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| user_tag_id         |  | STRING(0:254) NOT NULL  |
| name                |  | STRING(0:254)   |
| gmt_created         |  | DATETIME(10:29)   |
| cr_loc_hr_delta     |  | SHORT   |
| cr_loc_min_delta    |  | SHORT   |
| by_org_asite        |  | INT   |
| by_agent_id         |  | INT   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | db_site, db_id, mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, ordering_seq            |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id  |
|                     | <a href="#">model</a> (mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number)                  | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#226 segment\_function****Description: Function Codes, Descriptions of a Service Segment**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| db_site             |  | INT NOT NULL                     |
| db_id               |  | INT NOT NULL                     |
| segment_site        |  | INT NOT NULL                     |
| segment_id          |  | INT NOT NULL                     |
| ordering_seq        |  | INT NOT NULL                     |
| user_tag_id         |  | STRING(0:254) NOT NULL           |
| name                |  | STRING(0:254)                    |
| gmt_created         |  | DATETIME(10:29)                  |
| cr_loc_hr_delta     |  | SHORT                            |
| cr_loc_min_delta    |  | SHORT                            |
| by_org_asite        |  | INT                              |
| by_agent_id         |  | INT                              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | db_site, db_id, segment_site, segment_id, ordering_seq   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                   |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id         |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#227 asset\_function****Description: Function Codes, Descriptions of an Asset**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| db_site             |  | INT NOT NULL                     |
| db_id               |  | INT NOT NULL                     |
| asset_org_site      |  | INT NOT NULL                     |
| asset_id            |  | INT NOT NULL                     |
| ordering_seq        |  | INT NOT NULL                     |
| user_tag_id         |  | STRING(0:254) NOT NULL           |
| name                |  | STRING(0:254)                    |
| gmt_created         |  | DATETIME(10:29)                  |
| cr_loc_hr_delta     |  | SHORT                            |
| cr_loc_min_delta    |  | SHORT                            |
| by_org_asite        |  | INT                              |
| by_agent_id         |  | INT                              |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | db_site, db_id, asset_site, asset_id, ordering_seq   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | db_site, db_id                   |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id         |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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## **Actual Event / Hypothesized Event / Proposed Event / Event Causal Networks Tables**

### **#240 sg\_typ\_hyp\_event**

**Description: Hypothetical Segment Type Events / Possible Failure Modes / Possible Failure Mechanisms**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| sgt_hyp_db_site     |  | INT NOT NULL                          |
| sgt_hyp_db_id       |  | INT NOT NULL                          |
| sgt_hyp_event_id    |  | INT NOT NULL                          |
| sg_db_site          |  | INT NOT NULL                          |
| sg_db_id            |  | INT NOT NULL                          |
| sg_type_code        |  | INT NOT NULL                          |
| ev_db_site          |  | INT NOT NULL                          |
| ev_db_id            |  | INT NOT NULL                          |
| event_type_code     |  | INT NOT NULL                          |
| severity_rank       |  | INT                                   |
| gmt_created         |  | DATETIME(10:29)                       |
| cr_loc_hr_delta     |  | SHORT                                 |
| cr_loc_min_delta    |  | SHORT                                 |
| by_org_asite        |  | INT                                   |
| by_agent_id         |  | INT                                   |
| name                |  | STRING(0:254)                         |
| associated_blob     | Associated document, drawing, etc.   | BASE64BINARY                          |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id   |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sgt_hyp_db_site, sgt_hyp_db_id        |
|                     | <a href="#">segment_type</a> (sg_db_site, sg_db_id, sg_type_code)  | sg_db_site, sg_db_id, sg_type_code    |
|                     | <a href="#">sg_as_event_type</a> (ev_db_site, ev_db_id, event_type_code)                                   | ev_db_site, ev_db_id, event_type_code |
|                     | <a href="#">severity_type</a> (severity_rank)  | severity_rank                         |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |

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**#241 as\_typ\_hyp\_event**

**Description: Hypothetical Asset Type Events / Possible Failure Modes / Possible Failure Mechanisms**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| ast_hyp_db_site     |  | INT NOT NULL                          |
| ast_hyp_db_id       |  | INT NOT NULL                          |
| ast_hyp_event_id    |  | INT NOT NULL                          |
| as_db_site          |  | INT NOT NULL                          |
| as_db_id            |  | INT NOT NULL                          |
| as_type_code        |  | INT NOT NULL                          |
| ev_db_site          |  | INT NOT NULL                          |
| ev_db_id            |  | INT NOT NULL                          |
| event_type_code     |  | INT NOT NULL                          |
| severity_rank       |  | INT                                   |
| gmt_created         |  | DATETIME(10:29)                       |
| cr_loc_hr_delta     |  | SHORT                                 |
| cr_loc_min_delta    |  | SHORT                                 |
| by_org_asite        |  | INT                                   |
| by_agent_id         |  | INT                                   |
| name                |  | STRING(0:254)                         |
| associated_blob     | Associated document, drawing, etc.   | BASE64BINARY                          |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id   |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | ast_hyp_db_site, ast_hyp_db_id        |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | as_db_site, as_db_id, as_type_code    |
|                     | <a href="#">sq_as_event_type</a> (ev_db_site, ev_db_id, event_type_code)                                   | ev_db_site, ev_db_id, event_type_code |
|                     | <a href="#">severity_type</a> (severity_rank)  | severity_rank                         |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |

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**#246 model\_hyp\_event**

**Description: Hypothetical Model Events / Possible Failure Modes / Possible Failure Mechanisms**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| mod_hyp_db_site     |  | INT NOT NULL  |
| mod_hyp_db_id       |  | INT NOT NULL  |
| mod_hyp_event_id    |  | INT NOT NULL  |
| mf_db_site          |  | INT NOT NULL  |
| mf_db_id            |  | INT NOT NULL  |
| mf_duns_code        |  | INT NOT NULL  |
| model_number        |  | STRING(0:254) NOT NULL  |
| revision_number     |  | INT NOT NULL  |
| ev_db_site          |  | INT NOT NULL  |
| ev_db_id            |  | INT NOT NULL  |
| event_type_code     |  | INT NOT NULL  |
| severity_rank       |  | INT   |
| gmt_created         |  | DATETIME(10:29)   |
| cr_loc_hr_delta     |  | SHORT   |
| cr_loc_min_delta    |  | SHORT   |
| by_org_asite        |  | INT   |
| by_agent_id         |  | INT   |
| name                |  | STRING(0:254)   |
| associated_blob     | Associated document, drawing, etc.   | BASE64BINARY  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id   |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | mod_hyp_db_site, mod_hyp_db_id                                    |
|                     | <a href="#">model</a> (mf_db_site, mf_db_id, mf_type_code, model_number, revision_number)                  | mf_db_site, mf_db_id, mf_type_code, model_number, revision_number |
|                     | <a href="#">sq_as_event_type</a> (ev_db_site, ev_db_id, event_type_code)                                   | ev_db_site, ev_db_id, event_type_code                             |
|                     | <a href="#">severity_type</a> (severity_rank)  | severity_rank   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |

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**#230 sg\_hyp\_event**

**Description: Hypothetical Segment Events / Possible Failure Modes / Possible Failure Mechanisms**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| sg_hyp_db_site      |  | INT NOT NULL                          |
| sg_hyp_db_id        |  | INT NOT NULL                          |
| sg_hyp_event_id     |  | INT NOT NULL                          |
| segment_site        |  | INT NOT NULL                          |
| segment_id          |  | INT NOT NULL                          |
| ev_db_site          |  | INT NOT NULL                          |
| ev_db_id            |  | INT NOT NULL                          |
| event_type_code     |  | INT NOT NULL                          |
| severity_rank       |  | INT                                   |
| gmt_created         |  | DATETIME(10:29)                       |
| cr_loc_hr_delta     |  | SHORT                                 |
| cr_loc_min_delta    |  | SHORT                                 |
| by_org_asite        |  | INT                                   |
| by_agent_id         |  | INT                                   |
| name                |  | STRING(0:254)                         |
| associated_blob     | Associated document, drawing, etc.   | BASE64BINARY                          |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id  |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sg_hyp_db_site, sg_hyp_db_id          |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id              |
|                     | <a href="#">sg_as_event_type</a> (ev_db_site, ev_db_id, event_type_code)                                   | ev_db_site, ev_db_id, event_type_code |
|                     | <a href="#">severity_type</a> (severity_rank)  | severity_rank                         |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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**#231 as\_hyp\_event**

**Description: Hypothetical Asset Events / Possible Failure Modes / Possible Failure Mechanisms**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| as_hyp_db_site      |  | INT NOT NULL                          |
| as_hyp_db_id        |  | INT NOT NULL                          |
| as_hyp_event_id     |  | INT NOT NULL                          |
| asset_org_site      |  | INT NOT NULL                          |
| asset_id            |  | INT NOT NULL                          |
| ev_db_site          |  | INT NOT NULL                          |
| ev_db_id            |  | INT NOT NULL                          |
| event_type_code     |  | INT NOT NULL                          |
| severity_rank       |  | INT                                   |
| gmt_created         |  | DATETIME(10:29)                       |
| cr_loc_hr_delta     |  | SHORT                                 |
| cr_loc_min_delta    |  | SHORT                                 |
| by_org_asite        |  | INT                                   |
| by_agent_id         |  | INT                                   |
| name                |  | STRING(0:254)                         |
| associated_blob     | Associated document, drawing, etc.   | BASE64BINARY                          |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id  |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | as_hyp_db_site, as_hyp_db_id          |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id              |
|                     | <a href="#">sq_as_event_type</a> (ev_db_site, ev_db_id, event_type_code)                                   | ev_db_site, ev_db_id, event_type_code |
|                     | <a href="#">severity_type</a> (severity_rank)  | severity_rank                         |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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**#242 sg\_typ\_hyp\_ev\_link**

**Description: Hypothetical Segment Type Event Cause / Effect Links in an Event Causal Network**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| sgt_hyp_db_site     |  | INT NOT NULL                                     |
| sgt_hyp_db_id       |  | INT NOT NULL                                     |
| sgt_hyp_event_id    |  | INT NOT NULL                                     |
| caused_db_site      |  | INT NOT NULL                                     |
| caused_db_id        |  | INT NOT NULL                                     |
| caused_event_id     |  | INT NOT NULL                                     |
| likelihood_prob     | Likelihood probability between 0 and 1   | DOUBLE   |
| name                |  | STRING(0:254)                                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id, caused_db_site, caused_db_id, caused_event_id            |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">sg_typ_hyp_event</a> (sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id)                        | sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id |
|                     | <a href="#">sg_typ_hyp_event</a> (sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id)                        | caused_db_site, caused_db_id, caused_event_id    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#243 as\_typ\_hyp\_ev\_link**

**Description: Hypothetical Asset Type Event Cause / Effect Links in an Event Causal Network**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| ast_hyp_db_site     |  | INT NOT NULL                                     |
| ast_hyp_db_id       |  | INT NOT NULL                                     |
| ast_hyp_event_id    |  | INT NOT NULL                                     |
| caused_db_site      |  | INT NOT NULL                                     |
| caused_db_id        |  | INT NOT NULL                                     |
| caused_event_id     |  | INT NOT NULL                                     |
| likelihood_prob     | Likelihood probability between 0 and 1   | DOUBLE   |
| name                |  | STRING(0:254)                                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id, caused_db_site, caused_db_id, caused_event_id            |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">as_typ_hyp_event</a> (ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id)                        | ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id |
|                     | <a href="#">as_typ_hyp_event</a> (ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id)                        | caused_db_site, caused_db_id, caused_event_id    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#247 model\_hyp\_ev\_link**

**Description: Hypothetical Model Event Cause / Effect Links in an Event Causal Network**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| mod_hyp_db_site     |  | INT NOT NULL                                     |
| mod_hyp_db_id       |  | INT NOT NULL                                     |
| mod_hyp_event_id    |  | INT NOT NULL                                     |
| caused_db_site      |  | INT NOT NULL                                     |
| caused_db_id        |  | INT NOT NULL                                     |
| caused_event_id     |  | INT NOT NULL                                     |
| likelihood_prob     | Likelihood probability between 0 and 1   | DOUBLE   |
| name                |  | STRING(0:254)                                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id, caused_db_site, caused_db_id, caused_event_id            |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">model_hyp_event</a> (mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id)                         | mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id |
|                     | <a href="#">model_hyp_event</a> (mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id)                         | caused_db_site, caused_db_id, caused_event_id    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#232 sg\_hyp\_event\_link**

**Description: Hypothetical Segment Event Cause / Effect Links in an Event Causal Network**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| sg_hyp_db_site      |  | INT NOT NULL                                  |
| sg_hyp_db_id        |  | INT NOT NULL                                  |
| sg_hyp_event_id     |  | INT NOT NULL                                  |
| caused_db_site      |  | INT NOT NULL                                  |
| caused_db_id        |  | INT NOT NULL                                  |
| caused_event_id     |  | INT NOT NULL                                  |
| likelihood_prob     | Likelihood probability between 0 and 1   | DOUBLE  |
| name                |  | STRING(0:254)                                 |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id, caused_db_site, caused_db_id, caused_event_id               |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">sg_hyp_event</a> (sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id)                               | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id |
|                     | <a href="#">sg_hyp_event</a> (sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id)                               | caused_db_site, caused_db_id, caused_event_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#233 as\_hyp\_event\_link**

**Description: Hypothetical Asset Event Cause / Effect Links in an Event Causal Network**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| as_hyp_db_site      |  | INT NOT NULL                                  |
| as_hyp_db_id        |  | INT NOT NULL                                  |
| as_hyp_event_id     |  | INT NOT NULL                                  |
| caused_db_site      |  | INT NOT NULL                                  |
| caused_db_id        |  | INT NOT NULL                                  |
| caused_event_id     |  | INT NOT NULL                                  |
| likelihood_prob     | Likelihood probability between 0 and 1   | DOUBLE  |
| name                |  | STRING(0:254)                                 |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id, caused_db_site, caused_db_id, caused_event_id               |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">as_hyp_event</a> (as_hyp_db_site, as_hyp_db_id, as_hyp_event_id)                               | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id |
|                     | <a href="#">as_hyp_event</a> (as_hyp_db_site, as_hyp_db_id, as_hyp_event_id)                               | caused_db_site, caused_db_id, caused_event_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#244 sg\_typ\_hyp\_ev\_num\_data****Description: Segment Type Hypothetical Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| sgt_hyp_db_site     |  | INT NOT NULL                                     |
| sgt_hyp_db_id       |  | INT NOT NULL                                     |
| sgt_hyp_event_id    |  | INT NOT NULL                                     |
| en_db_site          |  | INT NOT NULL                                     |
| en_db_id            |  | INT NOT NULL                                     |
| en_type_code        |  | INT NOT NULL                                     |
| eu_db_site          |  | INT NOT NULL                                     |
| eu_db_id            |  | INT NOT NULL                                     |
| eu_type_code        |  | INT NOT NULL                                     |
| data_value          |  | DOUBLE NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id, en_db_site, en_db_id, en_type_code                       |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">sg_typ_hyp_event</a> (sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id)                        | sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)                                      | en_db_site, en_db_id, en_type_code               |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#245 as\_typ\_hyp\_ev\_num\_data****Description: Asset Type Hypothetical Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| ast_hyp_db_site     |  | INT NOT NULL                                     |
| ast_hyp_db_id       |  | INT NOT NULL                                     |
| ast_hyp_event_id    |  | INT NOT NULL                                     |
| en_db_site          |  | INT NOT NULL                                     |
| en_db_id            |  | INT NOT NULL                                     |
| en_type_code        |  | INT NOT NULL                                     |
| eu_db_site          |  | INT NOT NULL                                     |
| eu_db_id            |  | INT NOT NULL                                     |
| eu_type_code        |  | INT NOT NULL                                     |
| data_value          |  | DOUBLE NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id, en_db_site, en_db_id, en_type_code                       |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">as_typ_hyp_event</a> (ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id)                        | ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)                                      | en_db_site, en_db_id, en_type_code               |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#248 model\_hyp\_ev\_num\_data****Description: Model Hypothetical Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| mod_hyp_db_site     |  | INT NOT NULL                                     |
| mod_hyp_db_id       |  | INT NOT NULL                                     |
| mod_hyp_event_id    |  | INT NOT NULL                                     |
| en_db_site          |  | INT NOT NULL                                     |
| en_db_id            |  | INT NOT NULL                                     |
| en_type_code        |  | INT NOT NULL                                     |
| eu_db_site          |  | INT NOT NULL                                     |
| eu_db_id            |  | INT NOT NULL                                     |
| eu_type_code        |  | INT NOT NULL                                     |
| data_value          |  | DOUBLE NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id, en_db_site, en_db_id, en_type_code                       |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">model_hyp_event</a> (mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id)                         | mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)                                      | en_db_site, en_db_id, en_type_code               |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#234 sg\_hyp\_ev\_num\_data****Description: Segment Hypothetical Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| sg_hyp_db_site      |  | INT NOT NULL                                  |
| sg_hyp_db_id        |  | INT NOT NULL                                  |
| sg_hyp_event_id     |  | INT NOT NULL                                  |
| en_db_site          |  | INT NOT NULL                                  |
| en_db_id            |  | INT NOT NULL                                  |
| en_type_code        |  | INT NOT NULL                                  |
| eu_db_site          |  | INT NOT NULL                                  |
| eu_db_id            |  | INT NOT NULL                                  |
| eu_type_code        |  | INT NOT NULL                                  |
| data_value          |  | DOUBLE NOT NULL                               |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id, en_db_site, en_db_id, eu_type_code                          |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">sg_hyp_event</a> (sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id)                               | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)                                      | en_db_site, en_db_id, en_type_code            |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#235 as\_hyp\_ev\_num\_data****Description: Asset Hypothetical Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| as_hyp_db_site      |  | INT NOT NULL                                  |
| as_hyp_db_id        |  | INT NOT NULL                                  |
| as_hyp_event_id     |  | INT NOT NULL                                  |
| en_db_site          |  | INT NOT NULL                                  |
| en_db_id            |  | INT NOT NULL                                  |
| en_type_code        |  | INT NOT NULL                                  |
| eu_db_site          |  | INT NOT NULL                                  |
| eu_db_id            |  | INT NOT NULL                                  |
| eu_type_code        |  | INT NOT NULL                                  |
| data_value          |  | DOUBLE NOT NULL                               |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id, en_db_site, en_db_id, eu_type_code                          |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">as_hyp_event</a> (as_hyp_db_site, as_hyp_db_id, as_hyp_event_id)                               | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)                                      | en_db_site, en_db_id, en_type_code            |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#266 sg\_typ\_hyp\_ev\_func****Description: Segment Type Hypothetical Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| sgt_hyp_db_site     |  | INT NOT NULL   |
| sgt_hyp_db_id       |  | INT NOT NULL   |
| sgt_hyp_event_id    |  | INT NOT NULL   |
| db_site             |  | INT NOT NULL   |
| db_id               |  | INT NOT NULL   |
| sg_db_site          |  | INT NOT NULL   |
| sg_db_id            |  | INT NOT NULL   |
| sg_type_code        |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                 | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record         | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id, db_site, db_id, sg_db_site, sg_db_id, sg_type_code, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">sg_typ_hyp_event</a> (sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id)                                | sgt_hyp_db_site, sgt_hyp_db_id, sgt_hyp_event_id                 |
|                     | <a href="#">sg_type_function</a> (db_site, db_id, sg_db_site, sg_db_id, sg_type_code, ordering_seq)                | db_site, db_id, sg_db_site, sg_db_id, sg_type_code, ordering_seq |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#267 as\_typ\_hyp\_ev\_func****Description: Asset Type Hypothetical Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| ast_hyp_db_site     |  | INT NOT NULL   |
| ast_hyp_db_id       |  | INT NOT NULL   |
| ast_hyp_event_id    |  | INT NOT NULL   |
| db_site             |  | INT NOT NULL   |
| db_id               |  | INT NOT NULL   |
| as_db_site          |  | INT NOT NULL   |
| as_db_id            |  | INT NOT NULL   |
| as_type_code        |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                 | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record         | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id, db_site, db_id, as_db_site, as_db_id, as_type_code, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">as_typ_hyp_event</a> (ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id)                                | ast_hyp_db_site, ast_hyp_db_id, ast_hyp_event_id                 |
|                     | <a href="#">as_type_function</a> (db_site, db_id, as_db_site, as_db_id, as_type_code, ordering_seq)                | db_site, db_id, as_db_site, as_db_id, as_type_code, ordering_seq |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#269 model\_hyp\_ev\_func****Description: Model Hypothetical Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| mod_hyp_db_site     |   | INT NOT NULL  |
| mod_hyp_db_id       |   | INT NOT NULL  |
| mod_hyp_event_id    |   | INT NOT NULL  |
| db_site             |   | INT NOT NULL  |
| db_id               |   | INT NOT NULL  |
| mf_db_site          |   | INT NOT NULL  |
| mf_db_id            |   | INT NOT NULL  |
| mf_duns_code        |   | INT NOT NULL  |
| model_number        |   | STRING(0:254) NOT NULL  |
| revision_number     |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| name                |   | STRING(0:254)   |
| by_org_asite        |   | INT   |
| by_agent_id         |   | INT   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record  | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id, db_site, db_id, mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, ordering_seq |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">model_hyp_event</a> (mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id)  | mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id  |
|                     | <a href="#">model_function</a> (db_site, db_id, mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, ordering_seq)                  | db_site, db_id, mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, ordering_seq |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | by_org_asite, by_agent_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#236 sg\_hyp\_ev\_sg\_func****Description: Segment Hypothetical Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                       |
|---------------------|--|--|
| sg_hyp_db_site      |  | INT NOT NULL   |
| sg_hyp_db_id        |  | INT NOT NULL   |
| sg_hyp_event_id     |  | INT NOT NULL   |
| db_site             |  | INT NOT NULL   |
| db_id               |  | INT NOT NULL   |
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id, db_site, db_id, segment_site, segment_id, ordering_seq      |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                       |
|                     | <a href="#">sg_hyp_event</a> (sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id)                               | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id          |
|                     | <a href="#">segment_function</a> (db_site, db_id, segment_site, segment_id, ordering_seq)                  | db_site, db_id, segment_site, segment_id, ordering_seq |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id                              |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#237 as\_hyp\_ev\_as\_func****Description: Asset Hypothetical Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                       |
|---------------------|--|--|
| as_hyp_db_site      |  | INT NOT NULL   |
| as_hyp_db_id        |  | INT NOT NULL   |
| as_hyp_event_id     |  | INT NOT NULL   |
| db_site             |  | INT NOT NULL   |
| db_id               |  | INT NOT NULL   |
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id, db_site, db_id, asset_org_site, asset_id, ordering_seq      |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                       |
|                     | <a href="#">as_hyp_event</a> (as_hyp_db_site, as_hyp_db_id, as_hyp_event_id)                               | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id          |
|                     | <a href="#">asset_function</a> (db_site, db_id, asset_site, asset_id, ordering_seq)                        | db_site, db_id, asset_org_site, asset_id, ordering_seq |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id                              |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#250 sg\_proposed\_event**

**Description: Proposed Past / Present / Future Segment Events including Diagnostic / Prognostic Event Outputs**

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u> |
|--------------------|--|------------------|
| sg_prop_db_site    |  | INT NOT NULL     |
| sg_prop_db_id      |  | INT NOT NULL     |
| sg_prop_event_id   |  | INT NOT NULL     |
| segment_site       |  | INT NOT NULL     |
| segment_id         |  | INT NOT NULL     |
| ev_db_site         |  | INT NOT NULL     |
| ev_db_id           |  | INT NOT NULL     |
| event_type_code    |  | INT NOT NULL     |
| severity_rank      | Severity level of proposed event   | INT              |
| gmt_proposed       | Timestamp when proposed as an event  | DATETIME(10:29)  |
| pr_loc_hr_delta    | Hours from GMT when proposed as an event   | SHORT            |
| pr_loc_min_delta   | Minutes from GMT when proposed as an event   | SHORT            |
| by_org_asite       | Agent who proposed event   | INT              |
| by_agent_id        | Agent who proposed event   | INT              |
| likelihood_prob    | Likelihood probability between 0 and 1   | DOUBLE           |
| est_gmt_start      | Estimated GMT event started or will start  | DATETIME(10:29)  |
| st_loc_hr_delta    | Hours from GMT for local start time  | SHORT            |
| st_loc_min_delta   | Minutes from GMT for local start time  | SHORT            |
| est_gmt_occur_end  | Estimated GMT event ended or will end  | DATETIME(10:29)  |
| end_loc_hr_delta   | Hours from GMT for local end time  | SHORT            |
| end_loc_min_delta  | Minutes from GMT for local end time  | SHORT            |
| ch_patt_db_site    | Change Pattern Code  | INT              |
| ch_patt_db_id      | Change Pattern Code  | INT              |
| ch_patt_type_code  | Change Pattern Code  | INT              |
| name               | Description  | STRING(0:254)    |
| gmt_audited        | GMT proposed event audited   | DATETIME(10:29)  |
| aud_loc_hr_delta   | Hours from GMT for local audit time  | SHORT            |
| aud_loc_min_delta  | Minutes from GMT for local audit time  | SHORT            |
| aud_quality_code   | Audit Quality Code (proposed event, not inspected, good / confirmed, bad / incorrect, or under review)     | INT              |
| aud_by_org_asite   | Audited by Agent   | INT              |
| aud_by_agent_id    | Audited by Agent   | INT              |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT              |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT              |
| rstat_type_code    | Row status type code   | SHORT            |
|                    |  |                  |
| <u>Primary Key</u> | <u>Column(s)</u>   |                  |

|                     |   |   |
|---------------------|---|---|
|                     | sg_prop_db_site, sg_prop_db_id,<br>sg_prop_event_id                                     |   |
| <b>Foreign Keys</b> | <b>Foreign Table (Column(s))</b>  | <b>Column(s)</b>  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | sg_prop_db_site,<br>sg_prop_db_id                       |
|                     | <a href="#">segment</a> (segment_site, segment_id)                                      | segment_site, segment_id                                |
|                     | <a href="#">sg_as_event_type</a> (ev_db_site,<br>ev_db_id, event_type_code)             | ev_db_site, ev_db_id,<br>event_type_code                |
|                     | <a href="#">severity_type</a> (severity_rank)   | severity_rank   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | by_org_asite, by_agent_id                               |
|                     | <a href="#">change_patt_type</a> (ch_patt_db_site,<br>ch_patt_db_id, ch_patt_type_code) | ch_patt_db_site,<br>ch_patt_db_id,<br>ch_patt_type_code |
|                     | <a href="#">data_qual_type</a> (dqual_type_code)  | aud_quality_code  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | aud_by_org_asite,<br>aud_by_agent_id                    |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#251 as\_proposed\_event**

**Description: Proposed Past / Present / Future Asset Events including Diagnostic / Prognostic Event Outputs**

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u> |
|--------------------|--|------------------|
| as_prop_db_site    |  | INT NOT NULL     |
| as_prop_db_id      |  | INT NOT NULL     |
| as_prop_event_id   |  | INT NOT NULL     |
| asset_org_site     |  | INT NOT NULL     |
| asset_id           |  | INT NOT NULL     |
| ev_db_site         |  | INT NOT NULL     |
| ev_db_id           |  | INT NOT NULL     |
| event_type_code    |  | INT NOT NULL     |
| severity_rank      | Severity level of proposed event   | INT              |
| gmt_proposed       | Timestamp when proposed as an event  | DATETIME(10:29)  |
| pr_loc_hr_delta    | Hours from GMT when proposed as an event   | SHORT            |
| pr_loc_min_delta   | Minutes from GMT when proposed as an event   | SHORT            |
| by_org_asite       | Agent who proposed event   | INT              |
| by_agent_id        | Agent who proposed event   | INT              |
| liklihood_prob     | Likelihood probability between 0 and 1   | DOUBLE           |
| est_gmt_start      | Estimated GMT event started or will start  | DATETIME(10:29)  |
| st_loc_hr_delta    | Hours from GMT for local start time  | SHORT            |
| st_loc_min_delta   | Minutes from GMT for local start time  | SHORT            |
| est_gmt_occur_end  | Estimated GMT event ended or will end  | DATETIME(10:29)  |
| end_loc_hr_delta   | Hours from GMT for local end time  | SHORT            |
| end_loc_min_delta  | Minutes from GMT for local end time  | SHORT            |
| ch_patt_db_site    | Change Pattern Code  | INT              |
| ch_patt_db_id      | Change Pattern Code  | INT              |
| ch_patt_type_code  | Change Pattern Code  | INT              |
| name               | Description  | STRING(0:254)    |
| gmt_audited        | GMT proposed event audited   | DATETIME(10:29)  |
| aud_loc_hr_delta   | Hours from GMT for local audit time  | SHORT            |
| aud_loc_min_delta  | Minutes from GMT for local audit time  | SHORT            |
| aud_quality_code   | Audit Quality Code (proposed event, not inspected, good / confirmed, bad / incorrect, or under review)     | INT              |
| aud_by_org_asite   | Audited by Agent   | INT              |
| aud_by_agent_id    | Audited by Agent   | INT              |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT              |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT              |
| rstat_type_code    | Row status type code   | SHORT            |
|                    |  |                  |
| <u>Primary Key</u> | <u>Column(s)</u>   |                  |

|                     |   |   |
|---------------------|---|---|
|                     | as_prop_db_site, as_prop_db_id,<br>as_prop_event_id                                     |   |
| <b>Foreign Keys</b> | <b>Foreign Table (Column(s))</b>  | <b>Column(s)</b>  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | as_prop_db_site,<br>as_prop_db_id                       |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)  | asset_org_site, asset_id                                |
|                     | <a href="#">sq_as_event_type</a> (ev_db_site,<br>ev_db_id, event_type_code)             | ev_db_site, ev_db_id,<br>event_type_code                |
|                     | <a href="#">severity_type</a> (severity_rank)   | severity_rank   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | by_org_asite, by_agent_id                               |
|                     | <a href="#">change_patt_type</a> (ch_patt_db_site,<br>ch_patt_db_id, ch_patt_type_code) | ch_patt_db_site,<br>ch_patt_db_id,<br>ch_patt_type_code |
|                     | <a href="#">data_qual_type</a> (dqual_type_code)  | aud_quality_code  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | aud_by_org_asite,<br>aud_by_agent_id                    |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#252 sg\_prop\_ev\_link**

**Description: Proposed Segment Event Cause / Effect Links in an Event Causal Network**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| sg_prop_db_site     |  | INT NOT NULL                                     |
| sg_prop_db_id       |  | INT NOT NULL                                     |
| sg_prop_event_id    |  | INT NOT NULL                                     |
| caused_db_site      |  | INT NOT NULL                                     |
| caused_db_id        |  | INT NOT NULL                                     |
| caused_event_id     |  | INT NOT NULL                                     |
| likelihood_prob     | Likelihood probability between 0 and 1   | DOUBLE   |
| name                | Description  | STRING(0:254)                                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id, caused_db_site, caused_db_id, caused_event_id            |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)                       | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)                       | caused_db_site, caused_db_id, caused_event_id    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#253 as\_prop\_ev\_link**

**Description: Proposed Asset Event Cause / Effect Links in an Event Causal Network**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| as_prop_db_site     |  | INT NOT NULL                                     |
| as_prop_db_id       |  | INT NOT NULL                                     |
| as_prop_event_id    |  | INT NOT NULL                                     |
| caused_db_site      |  | INT NOT NULL                                     |
| caused_db_id        |  | INT NOT NULL                                     |
| caused_event_id     |  | INT NOT NULL                                     |
| likelihood_prob     | Likelihood probability between 0 and 1   | DOUBLE   |
| name                | Description  | STRING(0:254)                                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | as_prop_db_site, as_prop_db_id, as_prop_event_id, caused_db_site, caused_db_id, caused_event_id            |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)                       | as_prop_db_site, as_prop_db_id, as_prop_event_id |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)                       | caused_db_site, caused_db_id, caused_event_id    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#254 sg\_prop\_ev\_ndat****Description: Segment Proposed Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| sg_prop_db_site     |  | INT NOT NULL                                     |
| sg_prop_db_id       |  | INT NOT NULL                                     |
| sg_prop_event_id    |  | INT NOT NULL                                     |
| en_db_site          |  | INT NOT NULL                                     |
| en_db_id            |  | INT NOT NULL                                     |
| en_type_code        |  | INT NOT NULL                                     |
| eu_db_site          |  | INT NOT NULL                                     |
| eu_db_id            |  | INT NOT NULL                                     |
| eu_type_code        |  | INT NOT NULL                                     |
| data_value          |  | DOUBLE NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id, en_db_site, en_db_id, en_type_code                       |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)                       | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)                                      | en_db_site, en_db_id, en_type_code               |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#255 as\_prop\_ev\_ndat****Description: Asset Proposed Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| as_prop_db_site     |  | INT NOT NULL                                     |
| as_prop_db_id       |  | INT NOT NULL                                     |
| as_prop_event_id    |  | INT NOT NULL                                     |
| en_db_site          |  | INT NOT NULL                                     |
| en_db_id            |  | INT NOT NULL                                     |
| en_type_code        |  | INT NOT NULL                                     |
| eu_db_site          |  | INT NOT NULL                                     |
| eu_db_id            |  | INT NOT NULL                                     |
| eu_type_code        |  | INT NOT NULL                                     |
| data_value          |  | DOUBLE NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | as_prop_db_site, as_prop_db_id, as_prop_event_id, en_db_site, en_db_id, en_type_code                       |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)                       | as_prop_db_site, as_prop_db_id, as_prop_event_id |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)                                      | en_db_site, en_db_id, en_type_code               |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#256 sg\_prop\_ev\_hyp\_ev****Description: Proposed Segment Events Linked to Hypothetical Segment Events**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                  |
|---------------------|--|---|
| sg_prop_db_site     |  | INT NOT NULL                                      |
| sg_prop_db_id       |  | INT NOT NULL                                      |
| sg_prop_event_id    |  | INT NOT NULL                                      |
| sg_hypev_db_site    |  | INT NOT NULL                                      |
| sg_hypev_db_id      |  | INT NOT NULL                                      |
| sg_hyp_event_id     |  | INT NOT NULL                                      |
| name                |  | STRING(0:254)                                     |
| by_org_asite        |  | INT   |
| by_agent_id         |  | INT   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id, sg_hypev_db_site, sg_hypev_db_id, sg_hyp_event_id        |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                  |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)                       | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id  |
|                     | <a href="#">sg_hyp_event</a> (sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id)                               | sg_hypev_db_site, sg_hypev_db_id, sg_hyp_event_id |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id                         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                   |
|                     |  |   |

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**#257 as\_prop\_ev\_hyp\_ev****Description: Proposed Asset Events Linked to Hypothetical Asset Events**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                  |
|---------------------|--|---|
| as_prop_db_site     |  | INT NOT NULL                                      |
| as_prop_db_id       |  | INT NOT NULL                                      |
| as_prop_event_id    |  | INT NOT NULL                                      |
| as_hypev_db_site    |  | INT NOT NULL                                      |
| as_hypev_db_id      |  | INT NOT NULL                                      |
| as_hyp_event_id     |  | INT NOT NULL                                      |
| name                |  | STRING(0:254)                                     |
| by_org_asite        |  | INT   |
| by_agent_id         |  | INT   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | as_prop_db_site, as_prop_db_id, as_prop_event_id, as_hypev_db_site, as_hypev_db_id, as_hyp_event_id        |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                  |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)                       | as_prop_db_site, as_prop_db_id, as_prop_event_id  |
|                     | <a href="#">as_hyp_event</a> (as_hyp_db_site, as_hyp_db_id, as_hyp_event_id)                               | as_hypev_db_site, as_hypev_db_id, as_hyp_event_id |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id                         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                   |
|                     |  |   |

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**#258 sg\_prop\_ev\_sg\_ev**

**Description: Proposed Segment Events Linked to Actual Segment Events – Event Evidence Link**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| sg_prop_db_site     |  | INT NOT NULL   |
| sg_prop_db_id       |  | INT NOT NULL   |
| sg_prop_event_id    |  | INT NOT NULL   |
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                         | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id, segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)   | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id                                 |
|                     | <a href="#">segment_event</a> (segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)                   | segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#259 as\_prop\_ev\_as\_ev**

Description: Proposed Asset Events Linked to Actual Asset Events – Event Evidence Link

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| as_prop_db_site     |  | INT NOT NULL   |
| as_prop_db_id       |  | INT NOT NULL   |
| as_prop_event_id    |  | INT NOT NULL   |
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                         | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | as_prop_db_site, as_prop_db_id, as_prop_event_id, asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)   | as_prop_db_site, as_prop_db_id, as_prop_event_id                                 |
|                     | <a href="#">asset_event</a> (asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)                     | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#262 sg\_prop\_ev\_sg\_func****Description: Proposed Segment Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                       |
|---------------------|--|--|
| sg_prop_db_site     |  | INT NOT NULL   |
| sg_prop_db_id       |  | INT NOT NULL   |
| sg_prop_event_id    |  | INT NOT NULL   |
| db_site             |  | INT NOT NULL   |
| db_id               |  | INT NOT NULL   |
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id, db_site, db_id, segment_site, segment_id, ordering_seq   |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                       |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)                       | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id       |
|                     | <a href="#">segment_function</a> (db_site, db_id, segment_site, segment_id, ordering_seq)                  | db_site, db_id, segment_site, segment_id, ordering_seq |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id                              |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#263 as\_prop\_ev\_sg\_func****Description: Proposed Asset Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                       |
|---------------------|--|--|
| as_prop_db_site     |  | INT NOT NULL   |
| as_prop_db_id       |  | INT NOT NULL   |
| as_prop_event_id    |  | INT NOT NULL   |
| db_site             |  | INT NOT NULL   |
| db_id               |  | INT NOT NULL   |
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | as_prop_db_site, as_prop_db_id, as_prop_event_id, db_site, db_id, asset_org_site, asset_id, ordering_seq   |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                       |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)                       | as_prop_db_site, as_prop_db_id, as_prop_event_id       |
|                     | <a href="#">asset_function</a> (db_site, db_id, asset_site, asset_id, ordering_seq)                        | db_site, db_id, asset_org_site, asset_id, ordering_seq |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id                              |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#296 sg\_prop\_ev\_meas\_ev**

**Description: Proposed Segment Events Associated With Measurement Events  
Which Substantiate the Proposed Event – Measurement Evidence  
Link**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| sg_prop_db_site     |  | INT NOT NULL                                     |
| sg_prop_db_id       |  | INT NOT NULL                                     |
| sg_prop_event_id    |  | INT NOT NULL                                     |
| meas_loc_site       |  | INT NOT NULL                                     |
| meas_loc_id         |  | INT NOT NULL                                     |
| gmt_event           |  | DATETIME(10:29) NOT NULL                         |
| name                |  | STRING(0:254)                                    |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id, meas_loc_site, meas_loc_id, gmt_event                    |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)                       | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event            |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id                        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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**#297 as\_prop\_ev\_meas\_ev**

**Description: Proposed Asset Events Associated With Measurement Events Which Substantiate the Proposed Event – Measurement Evidence Link**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                                 |
|---------------------|--|--|
| as_prop_db_site     |  | INT NOT NULL                                     |
| as_prop_db_id       |  | INT NOT NULL                                     |
| as_prop_event_id    |  | INT NOT NULL                                     |
| meas_loc_site       |  | INT NOT NULL                                     |
| meas_loc_id         |  | INT NOT NULL                                     |
| gmt_event           |  | DATETIME(10:29) NOT NULL                         |
| name                |  | STRING(0:254)                                    |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | as_prop_db_site, as_prop_db_id, as_prop_event_id, meas_loc_site, meas_loc_id, gmt_event                    |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                 |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)                       | as_prop_db_site, as_prop_db_id, as_prop_event_id |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)   | meas_loc_site, meas_loc_id, gmt_event            |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id                        |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                 |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                                  |
|                     |  |  |

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### #30 segment\_event

#### Description: Segment Event Table

This table holds the different events which occurred on segments. These include both operating events and failure events such as; Logged Operating Events, Failure “Modes”, Failure “Effects”, Failure “Mechanisms”, Defect Events Abnormal Situations, Alarm Events, etc. An event is NOT work performed by an entity, but a log of the actual events which occurred at a service segment over time.

Note: gmt\_event\_start, gmt\_event\_stop, and gmt\_stored are Greenwich Mean Time.

Note: ev\_loc\_hr\_delta, is the number of hours +/- GMT to calculate the correct local time(s) for the event.

Note: st\_loc\_hr\_delta is the number of hours +/- GMT to calculate the correct local time that the event record was stored in the database.

Note: ev\_loc\_min\_delta: If null, assume local minute offset from GMT = 0

Note: st\_loc\_min\_delta: If null, assume local minute offset from GMT = 0

| Column           | Description  | Size/Type                |
|------------------|--|--------------------------|
| segment_site     |  | INT NOT NULL             |
| segment_id       |  | INT NOT NULL             |
| ev_db_site       |  | INT NOT NULL             |
| ev_db_id         |  | INT NOT NULL             |
| event_type_code  |  | INT NOT NULL             |
| gmt_event_start  | Event start time (GMT)   | DATETIME(10:29) NOT NULL |
| gmt_event_stop   | Event end time (GMT)   | DATETIME(10:29)          |
| ev_loc_hr_delta  | Event start/stop time local hour offset from GMT   | SHORT                    |
| ev_loc_min_delta | Event start/stop time local minute offset from GMT   | SHORT                    |
| gmt_stored       | Time event record was stored in database (GMT)   | DATETIME(10:29)          |
| st_loc_hr_delta  | Stored time local hour offset from GMT   | SHORT                    |
| st_loc_min_delta | Stored time local minute offset from GMT   | SHORT                    |
| name             |  | STRING(0:254)            |
| gmt_last_updated | GMT time stamp for the last change to this record  | DATETIME(10:29)          |
| last_upd_db_site | Site code (from the site table) for the site making the last change to this record                         | INT                      |
| last_upd_db_id   | Database Id of the database in which this record was resident when the last change was made to this record | INT                      |
| rstat_type_code  | Row status type code   | SHORT                    |

|                     |  |  |
|---------------------|--|--|
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, ev_db_site,<br>ev_db_id, event_type_code,<br>gmt_event_start |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                         |
|                     | <a href="#">segment</a> (segment_site, segment_id)                                     | segment_site, segment_id                 |
|                     | <a href="#">sq_as_event_type</a> (ev_db_site,<br>ev_db_id, event_type_code)            | ev_db_site, ev_db_id,<br>event_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                       | rstat_type_code                          |
|                     |  |  |

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## #43    asset\_event

### Description: Asset Event Table

This table holds the different types of possible events for assets. These include both operating events and failure events such as; Timestamped Facts, Logged Operating Events, Failure “Modes”, Failure “Effects”, Failure “Mechanisms”, Defect Events, Abnormal Situations, Alarm Events, etc.. An event is NOT work performed by an entity, but a log of the actual events which occurred at an asset over time.

Note: gmt\_event\_start, gmt\_event\_stop, and gmt\_stored are Greenwich Mean Time.

Note: ev\_loc\_hr\_delta, is the number of hours +/- GMT to calculate the correct local time for the event.

Note: st\_loc\_hr\_delta is the number of hours +/- GMT to calculate the correct local time that the event record was stored in the database.

Note: ev\_loc\_min\_delta: If null, assume local minute offset from GMT = 0

Note: st\_loc\_min\_delta: If null, assume local minute offset from GMT = 0

| Column           | Description  | Size/Type                |
|------------------|--|--------------------------|
| asset_org_site   |  | INT NOT NULL             |
| asset_id         |  | INT NOT NULL             |
| ev_db_site       |  | INT NOT NULL             |
| ev_db_id         |  | INT NOT NULL             |
| event_type_code  |  | INT NOT NULL             |
| gmt_event_start  | Event start time (GMT)   | DATETIME(10:29) NOT NULL |
| gmt_event_stop   | Event end time (GMT)   | DATETIME(10:29)          |
| ev_loc_hr_delta  | Event start/stop time local hour offset from GMT   | SHORT                    |
| ev_loc_min_delta | Event start/stop time local minute offset from GMT   | SHORT                    |
| gmt_stored       | Time event stored in database (GMT)  | DATETIME(10:29)          |
| st_loc_hr_delta  | Store time local hour offset from GMT  | SHORT                    |
| st_loc_min_delta | Store time local minute offset from GMT  | SHORT                    |
| name             |  | STRING(0:254)            |
| gmt_last_updated | GMT time stamp for the last change to this record  | DATETIME(10:29)          |
| last_upd_db_site | Site code (from the site table) for the site making the last change to this record                         | INT                      |
| last_upd_db_id   | Database Id of the database in which this record was resident when the last change was made to this record | INT                      |
| rstat_type_code  | Row status type code   | SHORT                    |
|                  |  |                          |

| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|---------------------|--|--|
|                     | asset_org_site, asset_id, ev_db_site,<br>ev_db_id, event_type_code,<br>gmt_event_start |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                         |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)                                       | asset_org_site, asset_id                 |
|                     | <a href="#">sq_as_event_type</a> (ev_db_site,<br>ev_db_id, event_type_code)            | ev_db_site, ev_db_id,<br>event_type_code |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                       | rstat_type_code                          |
|                     |  |  |

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## #152 segment\_event\_link

**Description:** Segment Event Cause / Effect Links in an Event Causal Network

| Column              | Description  | Size/Type  |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| caused_sg_site      |  | INT NOT NULL   |
| caused_sg_id        |  | INT NOT NULL   |
| caused_ev_db_site   |  | INT NOT NULL   |
| caused_ev_db_id     |  | INT NOT NULL   |
| caused_ev_code      |  | INT NOT NULL   |
| caused_gmt          |  | DATETIME(10:29) NOT NULL   |
| name                |  | STRING(0:254)  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start, caused_sg_site, caused_sg_id, caused_ev_db_site, caused_ev_db_id, caused_ev_code, caused_gmt |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">segment_event</a> (segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)   | segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start             |
|                     | <a href="#">segment_event</a> (segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)   | caused_sg_site, caused_sg_id, caused_ev_db_site, caused_ev_db_id, caused_ev_code, caused_gmt |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#153 asset\_event\_link****Description: Asset Event Cause / Effect Links in an Event Causal Network**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| caused_as_site      |  | INT NOT NULL   |
| caused_as_id        |  | INT NOT NULL   |
| caused_ev_db_site   |  | INT NOT NULL   |
| caused_ev_db_id     |  | INT NOT NULL   |
| caused_ev_code      |  | INT NOT NULL   |
| caused_gmt          |  | DATETIME(10:29) NOT NULL   |
| name                |  | STRING(0:254)  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start, caused_as_site, caused_as_id, caused_ev_db_site, caused_ev_db_id, caused_ev_code, caused_gmt |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">asset_event</a> (asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)   | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start             |
|                     | <a href="#">asset_event</a> (asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)   | caused_as_site, caused_as_id, caused_ev_db_site, caused_ev_db_id, caused_ev_code, caused_gmt |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#111 sg\_event\_num\_data****Description: Segment Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| en_db_site          |  | INT NOT NULL   |
| en_db_id            |  | INT NOT NULL   |
| en_type_code        |  | INT NOT NULL   |
| eu_db_site          |  | INT NOT NULL   |
| eu_db_id            |  | INT NOT NULL   |
| eu_type_code        |  | INT NOT NULL   |
| data_value          |  | DOUBLE NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record           | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start, en_db_site, en_db_id, en_type_code |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">segment_event</a> (segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)     | segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)  | en_db_site, en_db_id, en_type_code   |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#113 as\_event\_num\_data****Description: Asset Event Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| en_db_site          |  | INT NOT NULL   |
| en_db_id            |  | INT NOT NULL   |
| en_type_code        |  | INT NOT NULL   |
| eu_db_site          |  | INT NOT NULL   |
| eu_db_id            |  | INT NOT NULL   |
| eu_type_code        |  | INT NOT NULL   |
| data_value          |  | DOUBLE NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record           | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start, en_db_site, en_db_id, en_type_code |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">asset_event</a> (asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)       | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">ev_num_data_type</a> (en_db_site, en_db_id, en_type_code)  | en_db_site, en_db_id, en_type_code   |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#294 sg\_ev\_meas\_event**

**Description: Segment Events Associated With Measurement Events Which Substantiate the Actual Event**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| segment_site        |   | INT NOT NULL   |
| segment_id          |   | INT NOT NULL   |
| ev_db_site          |   | INT NOT NULL   |
| ev_db_id            |   | INT NOT NULL   |
| event_type_code     |   | INT NOT NULL   |
| gmt_event_start     |   | DATETIME(10:29) NOT NULL   |
| meas_loc_site       |   | INT NOT NULL   |
| meas_loc_id         |   | INT NOT NULL   |
| gmt_event           |   | DATETIME(10:29) NOT NULL   |
| name                |   | STRING(0:254)  |
| by_org_asite        |   | INT  |
| by_agent_id         |   | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                      | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record              | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start, meas_loc_site, meas_loc_id, gmt_event |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">segment_event</a> (segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)        | segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)  | meas_loc_site, meas_loc_id, gmt_event  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | by_org_asite, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#295 as\_ev\_meas\_event**

**Description: Asset Events Associated With Measurement Events Which Substantiate the Actual Event**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| asset_org_site      |   | INT NOT NULL   |
| asset_id            |   | INT NOT NULL   |
| ev_db_site          |   | INT NOT NULL   |
| ev_db_id            |   | INT NOT NULL   |
| event_type_code     |   | INT NOT NULL   |
| gmt_event_start     |   | DATETIME(10:29) NOT NULL   |
| meas_loc_site       |   | INT NOT NULL   |
| meas_loc_id         |   | INT NOT NULL   |
| gmt_event           |   | DATETIME(10:29) NOT NULL   |
| name                |   | STRING(0:254)  |
| by_org_asite        |   | INT  |
| by_agent_id         |   | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                      | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record              | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start, meas_loc_site, meas_loc_id, gmt_event |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">asset_event</a> (asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)          | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)  | meas_loc_site, meas_loc_id, gmt_event  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | by_org_asite, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#228 sg\_ev\_sg\_func\_link****Description: Segment Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| ev_segment_site     |  | INT NOT NULL   |
| ev_segment_id       |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| fn_db_site          |  | INT NOT NULL   |
| fn_db_id            |  | INT NOT NULL   |
| fn_segment_site     |  | INT NOT NULL   |
| fn_segment_id       |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT  |
| by_agent_id         |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | ev_segment_site, ev_segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start, fn_db_site, fn_db_id, fn_segment_site, fn_segment_id, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">segment_event</a> (segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)   | ev_segment_site, ev_segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">segment_function</a> (db_site, db_id, segment_site, segment_id, ordering_seq)  | fn_db_site, fn_db_id, fn_segment_site, fn_segment_id, ordering_seq                     |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#229 as\_ev\_as\_func\_link****Description: Asset Events Linked to Functions Affected**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| db_site             |  | INT NOT NULL   |
| db_id               |  | INT NOT NULL   |
| fc_as_org_site      |  | INT NOT NULL   |
| fc_as_id            |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| by_org_asite        |  | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                               | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start, db_site, db_id, fc_as_org_site, fc_as_id, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">asset_event</a> (asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)                           | asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">asset_function</a> (db_site, db_id, asset_site, asset_id, ordering_seq)  | db_site, db_id, fc_as_org_site, fc_as_id, ordering_seq                           |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_org_asite, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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## **Health and Estimated Life Assessment Tables**

### **#127 segment\_health**

**Description: Segment Health Assessment For Past / Present / Future**

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u>         |
|--------------------|--|--------------------------|
| segment_site       |  | INT NOT NULL             |
| segment_id         |  | INT NOT NULL             |
| gmt_assessment     | Assessment applies to this instant in time related to this segment   | DATETIME(10:29) NOT NULL |
| by_agent_site      | Agent who made the assessment / "Doctor"   | INT NOT NULL             |
| by_agent_id        | Agent who made the assessment / Doctor   | INT NOT NULL             |
| loc_hr_delta       | Local hours from GMT for gmt_assessment  | SHORT                    |
| loc_min_delta      | Local minutes from GMT for gmt_assessment  | SHORT                    |
| hgrade_type_code   | Health Grade Code (required)   | INT NOT NULL             |
| hgrade_float       | Optional precise health grade float value between 0 and 10 (10 = perfect health)                           | DOUBLE                   |
| likelihood_prob    | Likelihood probability between 0 and 1 that health assessment is accurate                                  | DOUBLE                   |
| gmt_created        | Health assessment created on timestamp   | DATETIME(10:29)          |
| cr_loc_hr_delta    | Hours from GMT for creation timestamp  | SHORT                    |
| cr_loc_min_delta   | Minutes from GMT for creation timestamp  | SHORT                    |
| ch_patt_db_site    | Change Pattern Code  | INT                      |
| ch_patt_db_id      | Change Pattern Code  | INT                      |
| ch_patt_type_code  | Change Pattern Code  | INT                      |
| gmt_audited        | GMT proposed assessment audited  | DATETIME(10:29)          |
| aud_loc_hr_delta   | Hours from GMT for local audit time  | SHORT                    |
| aud_loc_min_delta  | Minutes from GMT for local audit time  | SHORT                    |
| aud_quality_code   | Audit Quality Code (health assessment not inspected, good / confirmed, bad / incorrect, or under review)   | INT                      |
| aud_by_org_asite   | Audit Agent  | INT                      |
| aud_by_agent_id    | Audit Agent  | INT                      |
| name               | Description  | STRING(0:254)            |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)          |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT                      |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT                      |
| rstat_type_code    | Row status type code   | SHORT                    |
|                    |  |                          |
| <u>Primary Key</u> | <u>Column(s)</u>   |                          |

|                     |   |   |
|---------------------|---|---|
|                     | segment_site, segment_id,<br>gmt_assessment, by_agent_site,<br>by_agent_id              |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">segment</a> (segment_site, segment_id)                                      | segment_site, segment_id                                |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | by_agent_site, by_agent_id                              |
|                     | <a href="#">health_grade_type</a> (hgrade_type_code)                                    | hgrade_type_code  |
|                     | <a href="#">change_patt_type</a> (ch_patt_db_site,<br>ch_patt_db_id, ch_patt_type_code) | ch_patt_db_site,<br>ch_patt_db_id,<br>ch_patt_type_code |
|                     | <a href="#">data_qual_type</a> (dqual_type_code)  | aud_quality_code  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | aud_by_org_asite,<br>aud_by_agent_id                    |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#129 asset\_health****Description: Asset Health Assessment For Past / Present / Future**

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u>         |
|--------------------|--|--------------------------|
| asset_org_site     |  | INT NOT NULL             |
| asset_id           |  | INT NOT NULL             |
| gmt_assessment     | Assessment applies to this instant in time related to this segment   | DATETIME(10:29) NOT NULL |
| by_agent_site      | Agent who made the assessment / "Doctor"   | INT NOT NULL             |
| by_agent_id        | Agent who made the assessment / Doctor   | INT NOT NULL             |
| loc_hr_delta       | Local hours from GMT for gmt_assessment  | SHORT                    |
| loc_min_delta      | Local minutess from GMT for gmt_assessment   | SHORT                    |
| hgrade_type_code   | Health Grade Code (required)   | INT NOT NULL             |
| hgrade_float       | Optional precise health grade float value between 0 and 10 (10 = perfect health)                           | DOUBLE                   |
| likelihood_prob    | Likelihood probability between 0 and 1 that health assessment is accurate                                  | DOUBLE                   |
| gmt_created        | Health assessment created on timestamp   | DATETIME(10:29)          |
| cr_loc_hr_delta    | Hours from GMT for creation timestamp  | SHORT                    |
| cr_loc_min_delta   | Minutes from GMT for creation timestamp  | SHORT                    |
| ch_patt_db_site    | Change Pattern Code  | INT                      |
| ch_patt_db_id      | Change Pattern Code  | INT                      |
| ch_patt_type_code  | Change Pattern Code  | INT                      |
| gmt_audited        | GMT proposed assessment audited  | DATETIME(10:29)          |
| aud_loc_hr_delta   | Hours from GMT for local audit time  | SHORT                    |
| aud_loc_min_delta  | Minutes from GMT for local audit time  | SHORT                    |
| aud_quality_code   | Audit Quality Code (health assessment not inspected, good / confirmed, bad / incorrect, or under review)   | INT                      |
| aud_by_org_asite   | Audit Agent  | INT                      |
| aud_by_agent_id    | Audit Agent  | INT                      |
| name               | Description  | STRING(0:254)            |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)          |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT                      |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT                      |
| rstat_type_code    | Row status type code   | SHORT                    |
|                    |  |                          |
| <u>Primary Key</u> | <u>Column(s)</u>   |                          |
|                    | asset_org_site, asset_id, gmt_assessment, by_agent_site,   |                          |

|                     |  |   |
|---------------------|--|---|
|                     | by_agent_id  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                  |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)                                     | asset_org_site, asset_id                          |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)                                     | by_agent_site, by_agent_id                        |
|                     | <a href="#">health_grade_type</a> (hgrade_type_code)                                 | hgrade_type_code                                  |
|                     | <a href="#">change_patt_type</a> (ch_patt_db_site, ch_patt_db_id, ch_patt_type_code) | ch_patt_db_site, ch_patt_db_id, ch_patt_type_code |
|                     | <a href="#">data_qual_type</a> (dqual_type_code)                                     | aud_quality_code                                  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)                                     | aud_by_org_asite, aud_by_agent_id                 |
|                     | <a href="#">site_database</a> (db_site, db_id)                                       | last_upd_db_site, last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                     | rstat_type_code                                   |
|                     |  |   |

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**#146 sg\_remaining\_life****Description: Segment Remaining Life Assessment For Past / Present / Future**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>              |
|---------------------|--|-------------------------------|
| segment_site        |  | INT NOT NULL                  |
| segment_id          |  | INT NOT NULL                  |
| gmt_assessment      | Remaining life assessment baseline timestamp from which to add estimated remaining useful life             | DATETIME(10:29) NOT NULL      |
| by_agent_site       | Agent who made the assessment / "Doctor"   | INT NOT NULL                  |
| by_agent_id         | Agent who made the assessment / "Doctor"   | INT NOT NULL                  |
| loc_hr_delta        | Local time hour offset from GMT  | SHORT                         |
| loc_min_delta       | Local time minute offset from GMT  | SHORT                         |
| est_remaining_life  | Estimated remaining life assuming no intervention  | DOUBLE                        |
| erl_eu_db_site      | Time units for est. remaining life   | INT                           |
| erl_eu_db_id        | Time units for est. remaining life   | INT                           |
| erl_eu_type_code    | Time units for est. remaining life   | INT                           |
| error_estimate      | Error estimate (+/- X duration)  | DOUBLE                        |
| err_eu_db_site      | Time units for error estimate  | INT                           |
| err_eu_db_id        | Time units for error estimate  | INT                           |
| err_eu_type_code    | Time units for error estimate  | INT                           |
| likelihood_prob     | Likelihood probability between 0 and 1 that assessment is accurate   | DOUBLE                        |
| gmt_created         | Life assessment created on timestamp   | DATETIME(10:29)               |
| cr_loc_hr_delta     | Hours from GMT for creation timestamp  | SHORT                         |
| cr_loc_min_delta    | Minutess from GMT for creation timestamp   | SHORT                         |
| name                | Description  | STRING(0:254)                 |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                           |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                           |
| rstat_type_code     | Row status type code   | SHORT                         |
|                     |  |                               |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                               |
|                     | segment_site, segment_id, gmt_assessment, by_agent_site, by_agent_id                                       |                               |
|                     |  |                               |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>              |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id      |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id    |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | erl_eu_db_site, erl_eu_db_id, |

|  |  |  |
|--|--|--|
|  |  | erl_eu_type_code                                     |
|  | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code) | err_eu_db_site,<br>err_eu_db_id,<br>err_eu_type_code |
|  | <a href="#">site_database</a> (db_site, db_id)                     | last_upd_db_site,<br>last_upd_db_id                  |
|  | <a href="#">row_status_type</a> (rstat_type_cod)                   | rstat_type_code                                      |
|  |  |  |

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**#147 as\_remaining\_life****Description: Asset Remaining Life Assessment For Past / Present / Future**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>              |
|---------------------|--|-------------------------------|
| asset_org_site      |  | INT NOT NULL                  |
| asset_id            |  | INT NOT NULL                  |
| gmt_assessment      | Remaining life assessment baseline timestamp from which to add estimated remaining useful life             | DATETIME(10:29) NOT NULL      |
| by_agent_site       | Agent who made the assessment / "Doctor"   | INT NOT NULL                  |
| by_agent_id         | Agent who made the assessment / "Doctor"   | INT NOT NULL                  |
| loc_hr_delta        | Local time, hour offset from GMT   | SHORT                         |
| loc_min_delta       | Local time, minute offset from GMT   | SHORT                         |
| est_remaining_life  | Estimated remaining life assuming no intervention  | DOUBLE                        |
| erl_eu_db_site      | Time units for est. remaining life   | INT                           |
| erl_eu_db_id        | Time units for est. remaining life   | INT                           |
| erl_eu_type_code    | Time units for est. remaining life   | INT                           |
| error_estimate      | Error estimate (+/- X duration)  | DOUBLE                        |
| err_eu_db_site      | Time units for error estimate  | INT                           |
| err_eu_db_id        | Time units for error estimate  | INT                           |
| err_eu_type_code    | Time units for error estimate  | INT                           |
| likelihood_prob     | Likelihood probability between 0 and 1 that assessment is accurate   | DOUBLE                        |
| gmt_created         | Life assessment created on timestamp   | DATETIME(10:29)               |
| cr_loc_hr_delta     | Hours from GMT for creation timestamp  | SHORT                         |
| cr_loc_min_delta    | Minutess from GMT for creation timestamp   | SHORT                         |
| name                | Description  | STRING(0:254)                 |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                           |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                           |
| rstat_type_code     | Row status type code   | SHORT                         |
|                     |  |                               |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                               |
|                     | asset_org_site, asset_id, gmt_assessment, by_agent_site, by_agent_id                                       |                               |
|                     |  |                               |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>              |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id      |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id    |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | erl_eu_db_site, erl_eu_db_id, |

|  |  |  |
|--|--|--|
|  |  | erl_eu_type_code                                     |
|  | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code) | err_eu_db_site,<br>err_eu_db_id,<br>err_eu_type_code |
|  | <a href="#">site_database</a> (db_site, db_id)                     | last_upd_db_site,<br>last_upd_db_id                  |
|  | <a href="#">row_status_type</a> (rstat_type_cod)                   | rstat_type_code                                      |
|  |  |  |

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**#298 sg\_health\_sg\_event**

**Description: Actual Segment Events Associated With Segment Health Which Substantiate the Health Assessment**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| gmt_assessment      |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       |  | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| ev_sg_site          |  | INT NOT NULL   |
| ev_sg_id            |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| name                | Description  | STRING(0:254)  |
| assoc_by_org_asite  |  | INT  |
| assoc_by_agent_id   |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, gmt_assessment, by_agent_site, by_agent_id, ev_sg_site, ev_sg_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">segment_health</a> (segment_site, segment_id, gmt_assessment, by_agent_site, by_agent_id)  | segment_site, segment_id, gmt_assessment, by_agent_site, by_agent_id         |
|                     | <a href="#">segment_event</a> (segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)                                   | ev_sg_site, ev_sg_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | assoc_by_org_asite, assoc_by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#299 as\_health\_as\_event**

**Description: Actual Asset Events Associated With Asset Health Which Substantiate the Health Assessment**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| gmt_assessment      |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       |  | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| ev_as_org_site      |  | INT NOT NULL   |
| ev_as_id            |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| name                | Description  | STRING(0:254)  |
| assoc_by_org_asite  |  | INT  |
| assoc_by_agent_id   |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, gmt_assessment, by_agent_site, by_agent_id, ev_as_org_site, ev_as_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">asset_health</a> (asset_org_site, asset_id, gmt_assessment, by_agent_site, by_agent_id)  | asset_org_site, asset_id, gmt_assessment, by_agent_site, by_agent_id             |
|                     | <a href="#">asset_event</a> (asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)   | ev_as_org_site, ev_as_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | assoc_by_org_asite, assoc_by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#300 sg\_health\_sg\_prop\_ev**

**Description: Proposed Segment Events Associated With Segment Health Which Substantiate the Health Assessment**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| gmt_assessment      |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       |  | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| sg_prop_db_site     |  | INT NOT NULL   |
| sg_prop_db_id       |  | INT NOT NULL   |
| sg_prop_event_id    |  | INT NOT NULL   |
| name                | Description  | STRING(0:254)  |
| assoc_by_org_asite  |  | INT  |
| assoc_by_agent_id   |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                     | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record             | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, gmt_assessment, by_agent_site, by_agent_id, sg_prop_db_site, sg_prop_db_id, sg_prop_event_id |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">segment_health</a> (segment_site, segment_id, gmt_assessment, by_agent_site, by_agent_id)                  | segment_site, segment_id, gmt_assessment, by_agent_site, by_agent_id |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)                                   | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id                     |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | assoc_by_org_asite, assoc_by_agent_id                                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#301 as\_health\_as\_prop\_ev**

**Description: Proposed Asset Events Associated With Asset Health Which Substantiate the Health Assessment**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| gmt_assessment      |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       |  | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| as_prop_db_site     |  | INT NOT NULL   |
| as_prop_db_id       |  | INT NOT NULL   |
| as_prop_event_id    |  | INT NOT NULL   |
| name                | Description  | STRING(0:254)  |
| assoc_by_org_asite  |  | INT  |
| assoc_by_agent_id   |  | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                     | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record             | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, gmt_assessment, by_agent_site, by_agent_id, as_prop_db_site, as_prop_db_id, as_prop_event_id |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">asset_health</a> (asset_org_site, asset_id, gmt_assessment, by_agent_site, by_agent_id)                    | asset_org_site, asset_id, gmt_assessment, by_agent_site, by_agent_id |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)                                   | as_prop_db_site, as_prop_db_id, as_prop_event_id                     |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | assoc_by_org_asite, assoc_by_agent_id                                |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id                                     |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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## **Recommendation Tables**

### **#274 sg\_type\_recomm**

**Description: Segment Type Recommendation – Purpose is To Be Associated With Hypothesized Events**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| sg_db_site          |  | INT NOT NULL                       |
| sg_db_id            |  | INT NOT NULL                       |
| sg_type_code        |  | INT NOT NULL                       |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL           |
| by_agent_site       | Originator   | INT NOT NULL                       |
| by_agent_id         |  | INT NOT NULL                       |
| loc_hr_delta        | Local time, hour offset from GMT   | SHORT                              |
| loc_min_delta       | Local time, minute offset from GMT   | SHORT                              |
| priority_type_code  |  | INT                                |
| name                | Recommendation ID / Other Info.  | STRING(0:254)                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id                         |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">segment_type</a> (sg_db_site, sg_db_id, sg_type_code)  | sg_db_site, sg_db_id, sg_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id         |
|                     | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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**#275 as\_type\_recomm**

**Description: Asset Type Recommendation – Purpose is to be Associated With Hypothesized Events**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                   |
|---------------------|--|------------------------------------|
| as_db_site          |  | INT NOT NULL                       |
| as_db_id            |  | INT NOT NULL                       |
| as_type_code        |  | INT NOT NULL                       |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL           |
| by_agent_site       | Originator   | INT NOT NULL                       |
| by_agent_id         |  | INT NOT NULL                       |
| loc_hr_delta        | Local time, hour offset from GMT   | SHORT                              |
| loc_min_delta       | Local time, minute offset from GMT   | SHORT                              |
| priority_type_code  |  | INT                                |
| name                | Recommendation ID / Other Info.  | STRING(0:254)                      |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                    |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                |
| rstat_type_code     | Row status type code   | SHORT                              |
|                     |  |                                    |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                    |
|                     | as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id                         |                                    |
|                     |  |                                    |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                   |
|                     | <a href="#">asset_type</a> (as_db_site, as_db_id, as_type_code)  | as_db_site, as_db_id, as_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id         |
|                     | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code                 |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                    |
|                     |  |                                    |

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**#276 model\_recomm**

**Description: Model Recommendation – Purpose is to be Associated With Hypothesized Events**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| mf_db_site          |   | INT NOT NULL  |
| mf_db_id            |   | INT NOT NULL  |
| mf_duns_code        |   | INT NOT NULL  |
| model_number        |   | STRING(0:254) NOT NULL  |
| revision_number     |   | INT NOT NULL  |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL  |
| by_agent_site       | Originator  | INT NOT NULL  |
| by_agent_id         |   | INT NOT NULL  |
| loc_hr_delta        | Local time, hour offset from GMT  | SHORT   |
| loc_min_delta       | Local time, minute offset from GMT  | SHORT   |
| priority_type_code  |   | INT   |
| name                | Recommendation ID / Other Info.   | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record        | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">model</a> (mf_db_site, mf_db_id, mf_type_code, model_number, revision_number)                         | mf_db_site, mf_db_id, mf_type_code, model_number, revision_number |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | by_agent_site, by_agent_id  |
|                     | <a href="#">priority_type</a> (priority_type_code)  | priority_type_code  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id                                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#184 sg\_recommendation****Description: Segment Recommendation**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| segment_site        |  | INT NOT NULL                     |
| segment_id          |  | INT NOT NULL                     |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL         |
| by_agent_site       | Originator   | INT NOT NULL                     |
| by_agent_id         |  | INT NOT NULL                     |
| loc_hr_delta        | Local time, hour offset from GMT   | SHORT                            |
| loc_min_delta       | Local time, minute offset from GMT   | SHORT                            |
| priority_type_code  |  | INT                              |
| name                | Recommendation ID / Other Info.  | STRING(0:254)                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id                                   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id         |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id       |
|                     | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#185 as\_recommendation****Description: Asset Recommendation**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                 |
|---------------------|--|----------------------------------|
| asset_org_site      |  | INT NOT NULL                     |
| asset_id            |  | INT NOT NULL                     |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL         |
| by_agent_site       | Originator   | INT NOT NULL                     |
| by_agent_id         |  | INT NOT NULL                     |
| loc_hr_delta        | Local time, hour offset from GMT   | SHORT                            |
| loc_min_delta       | Local time, minute offset from GMT   | SHORT                            |
| priority_type_code  |  | INT                              |
| name                | Recommendation ID / Other Info.  | STRING(0:254)                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                              |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                              |
| rstat_type_code     | Row status type code   | SHORT                            |
|                     |  |                                  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                  |
|                     | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id                                   |                                  |
|                     |  |                                  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                 |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id         |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id       |
|                     | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code               |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                  |
|                     |  |                                  |

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**#316 ol\_recommendation****Description: Ordered List Recommendation**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| ord_list_db_site    |  | INT NOT NULL                                  |
| ord_list_db_id      |  | INT NOT NULL                                  |
| ord_list_id         |  | INT NOT NULL                                  |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL                      |
| by_agent_site       | Originator   | INT NOT NULL                                  |
| by_agent_id         |  | INT NOT NULL                                  |
| loc_hr_delta        | Local time, hour offset from GMT   | SHORT   |
| loc_min_delta       | Local time, minute offset from GMT   | SHORT   |
| priority_type_code  |  | INT   |
| name                | Recommendation ID / Other Info.  | STRING(0:254)                                 |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, gmt_recommendation, by_agent_site, by_agent_id              |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">ordered_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id)                               | ord_list_db_site, ord_list_db_id, ord_list_id |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id                    |
|                     | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code                            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#277 sg\_type\_rec\_remark****Description: Segment Type Recommendation Remarks**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| sg_db_site          |   | INT NOT NULL   |
| sg_db_id            |   | INT NOT NULL   |
| sg_type_code        |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator  | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| ordering_seq        |   | INT NOT NULL   |
| remark_text         |   | STRING(0:254) NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                  | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record          | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id, ordering_seq                    |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">sg_type_recomm</a> (sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id) | sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#278 as\_type\_rec\_remark****Description: Asset Type Recommendation Remarks**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| as_db_site          |   | INT NOT NULL   |
| as_db_id            |   | INT NOT NULL   |
| as_type_code        |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator  | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| ordering_seq        |   | INT NOT NULL   |
| remark_text         |   | STRING(0:254) NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                  | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record          | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id, ordering_seq                    |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">as_type_recomm</a> (as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id) | as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#279 model\_rec\_remark****Description: Model Recommendation Remarks**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| mf_db_site          |  | INT NOT NULL  |
| mf_db_id            |  | INT NOT NULL  |
| mf_duns_code        |  | INT NOT NULL  |
| model_number        |  | STRING(0:254) NOT NULL  |
| revision_number     |  | INT NOT NULL  |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL  |
| by_agent_site       | Originator   | INT NOT NULL  |
| by_agent_id         |  | INT NOT NULL  |
| ordering_seq        |  | INT NOT NULL  |
| remark_text         |  | STRING(0:254) NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                                       | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id, ordering_seq                  |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">model_recomm</a> (mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id) | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#130 sg\_rec\_remark****Description: Segment Recommendation Remarks**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| remark_text         |  | STRING(0:254) NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                           | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id, ordering_seq                       |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id) | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#131 as\_rec\_remark****Description: Asset Recommendation Remarks**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| remark_text         |  | STRING(0:254) NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                           | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id, ordering_seq                       |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">as_recommendation</a> (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id) | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#322 ol\_rec\_remark****Description: Ordered List Recommendation Remarks**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| ord_list_db_site    |   | INT NOT NULL  |
| ord_list_db_id      |   | INT NOT NULL  |
| ord_list_id         |   | INT NOT NULL  |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL  |
| by_agent_site       | Originator  | INT NOT NULL  |
| by_agent_id         |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| remark_text         |   | STRING(0:254) NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                        | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, gmt_recommendation, by_agent_site, by_agent_id, ordering_seq                       |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">ol_recommendation</a> (ord_list_db_site, ord_list_db_id, ord_list_id, gmt_recommendation, by_agent_site, by_agent_id) | ord_list_db_site, ord_list_db_id, ord_list_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#313 sg\_type\_rec\_blob****Description: Binary Data Related to a Segment Type Recommendation**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| sg_db_site          |  | INT NOT NULL   |
| sg_db_id            |  | INT NOT NULL   |
| sg_type_code        |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| bd_db_site          |  | INT NOT NULL   |
| bd_db_id            |  | INT NOT NULL   |
| bd_type_code        |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| assoc_file_name     |  | STRING(0:254)  |
| image_data          |  | LONGBINARY   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                           | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id, bd_db_site, bd_db_id, bd_type_code, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">sg_type_recomm</a> (sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id)                  | sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#314 as\_type\_rec\_blob****Description: Binary Data Related to an Asset Type Recommendation**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| as_db_site          |  | INT NOT NULL   |
| as_db_id            |  | INT NOT NULL   |
| as_type_code        |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| bd_db_site          |  | INT NOT NULL   |
| bd_db_id            |  | INT NOT NULL   |
| bd_type_code        |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| assoc_file_name     |  | STRING(0:254)  |
| image_data          |  | LONGBINARY   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                           | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id, bd_id_site, bd_db_id, bd_type_code, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">as_type_recomm</a> (as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id)                  | as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#315 model\_rec\_blob****Description: Binary Data Related to a Model Recommendation**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| mf_db_site          |   | INT NOT NULL  |
| mf_db_id            |   | INT NOT NULL  |
| mf_duns_code        |   | INT NOT NULL  |
| model_number        |   | STRING(0:254) NOT NULL  |
| revision_number     |   | INT NOT NULL  |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL  |
| by_agent_site       | Originator  | INT NOT NULL  |
| by_agent_id         |   | INT NOT NULL  |
| bd_db_site          |   | INT NOT NULL  |
| bd_db_id            |   | INT NOT NULL  |
| bd_type_code        |   | INT NOT NULL  |
| ordering_seq        |   | INT NOT NULL  |
| name                |   | STRING(0:254)   |
| assoc_file_name     |   | STRING(0:254)   |
| image_data          |   | LONGBINARY  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record  | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id, bd_db_site, bd_db_id, bd_type_code, ordering_seq |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">model_recomm</a> (mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id)                    | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)   | bd_db_site, bd_db_id, bd_type_code  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#311 sg\_rec\_blob****Description: Binary Data Related to a Segment Recommendation**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| bd_db_site          |  | INT NOT NULL   |
| bd_db_id            |  | INT NOT NULL   |
| bd_type_code        |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| assoc_file_name     |  | STRING(0:254)  |
| image_data          |  | LONGBINARY   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                 | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id, bd_db_site, bd_db_id, bd_type_code, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id)               | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code                                       |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#312 as\_rec\_blob****Description: Binary Data Related to an Asset Recommendation**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| bd_db_site          |  | INT NOT NULL   |
| bd_db_id            |  | INT NOT NULL   |
| bd_type_code        |  | INT NOT NULL   |
| ordering_seq        |  | INT NOT NULL   |
| name                |  | STRING(0:254)  |
| assoc_file_name     |  | STRING(0:254)  |
| image_data          |  | LONGBINARY   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                 | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id, bd_db_site, bd_db_id, bd_type_code, ordering_seq |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">as_recommendation</a> (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id)               | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">blob_data_type</a> (bd_db_site, bd_db_id, bd_type_code)  | bd_db_site, bd_db_id, bd_type_code                                       |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#280 sg\_type\_rec\_hyp\_ev**

**Description: Hypothetical Segment Events Linked to Segment Type Recommendations**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| sg_db_site          |   | INT NOT NULL   |
| sg_db_id            |   | INT NOT NULL   |
| sg_type_code        |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator  | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| sg_hyp_db_site      |   | INT NOT NULL   |
| sg_hyp_db_id        |   | INT NOT NULL   |
| sg_hyp_event_id     |   | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                        | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id, sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">sg_type_recomm</a> (sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id)               | sg_db_site, sg_db_id, sg_type_code, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">sg_hyp_event</a> (sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id)  | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id                                      |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#281 as\_type\_rec\_hyp\_ev****Description:** Hypothetical Asset Events Linked to Asset Type Recommendations

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| as_db_site          |   | INT NOT NULL   |
| as_db_id            |   | INT NOT NULL   |
| as_type_code        |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator  | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| as_hyp_db_site      |   | INT NOT NULL   |
| as_hyp_db_id        |   | INT NOT NULL   |
| as_hyp_event_id     |   | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                        | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id, as_hyp_db_site, as_hyp_db_id, as_hyp_event_id |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">as_type_recomm</a> (as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id)               | as_db_site, as_db_id, as_type_code, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">as_hyp_event</a> (as_hyp_db_site, as_hyp_db_id, as_hyp_event_id)  | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id                                      |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#282 model\_rec\_hyp\_ev****Description: Hypothetical Model Events Linked To Model Recommendations**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| mf_db_site          |   | INT NOT NULL  |
| mf_db_id            |   | INT NOT NULL  |
| mf_duns_code        |   | INT NOT NULL  |
| model_number        |   | STRING(0:254) NOT NULL  |
| revision_number     |   | INT NOT NULL  |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL  |
| by_agent_site       | Originator  | INT NOT NULL  |
| by_agent_id         |   | INT NOT NULL  |
| mod_hyp_db_site     |   | INT NOT NULL  |
| mod_hyp_db_id       |   | INT NOT NULL  |
| mod_hyp_event_id    |   | INT NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record  | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id, mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">model_recomm</a> (mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id)                    | mf_db_site, mf_db_id, mf_duns_code, model_number, revision_number, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">model_hyp_event</a> (mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id)  | mod_hyp_db_site, mod_hyp_db_id, mod_hyp_event_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#270 sg\_rec\_sg\_hyp\_ev**

**Description: Hypothetical Service Segment Events Linked to Segment Recommendations**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| segment_site        |   | INT NOT NULL   |
| segment_id          |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator  | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| sg_hyp_db_site      |   | INT NOT NULL   |
| sg_hyp_db_id        |   | INT NOT NULL   |
| sg_hyp_event_id     |   | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                      | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record              | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id, sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id)            | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">sg_hyp_event</a> (sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id)  | sg_hyp_db_site, sg_hyp_db_id, sg_hyp_event_id                            |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#271 as\_rec\_as\_hyp\_ev****Description: Hypothetical Asset Events Linked to Asset Recommendations**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| asset_org_site      |   | INT NOT NULL   |
| asset_id            |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator  | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| as_hyp_db_site      |   | INT NOT NULL   |
| as_hyp_db_id        |   | INT NOT NULL   |
| as_hyp_event_id     |   | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                      | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record              | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id, as_hyp_db_site, as_hyp_db_id, as_hyp_event_id |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">as_recommendation</a> (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id)            | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">as_hyp_event</a> (as_hyp_db_site, as_hyp_db_id, as_hyp_event_id)  | as_hyp_db_site, as_hyp_db_id, as_hyp_event_id                            |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#272 sg\_rec\_sg\_prop\_ev**

**Description: Proposed Service Segment Events Linked to Segment Recommendations**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| sg_prop_db_site     |  | INT NOT NULL   |
| sg_prop_db_id       |  | INT NOT NULL   |
| sg_prop_event_id    |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                 | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id, sg_prop_db_site, sg_prop_db_id, sg_prop_event_id |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id)               | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">sg_proposed_event</a> (sg_prop_db_site, sg_prop_db_id, sg_prop_event_id)                                       | sg_prop_db_site, sg_prop_db_id, sg_prop_event_id                         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#273 as\_rec\_as\_prop\_ev****Description: Proposed Asset Events Linked to Asset Recommendations**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| as_prop_db_site     |  | INT NOT NULL   |
| as_prop_db_id       |  | INT NOT NULL   |
| as_prop_event_id    |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                 | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id, as_prop_db_site, as_prop_db_id, as_prop_event_id |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">as_recommendation</a> (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id)               | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">as_proposed_event</a> (as_prop_db_site, as_prop_db_id, as_prop_event_id)                                       | as_prop_db_site, as_prop_db_id, as_prop_event_id                         |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#208 sg\_rec\_sg\_event****Description: Actual Segment Events Linked to Segment Recommendations**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| ev_sg_site          |  | INT NOT NULL   |
| ev_sg_id            |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id, ev_sg_site, ev_sg_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id)   | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id     |
|                     | <a href="#">segment_event</a> (segment_site, segment_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)                                       | ev_sg_site, ev_sg_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#209 as\_rec\_as\_event****Description: Actual Asset Events Linked to Asset Recommendations**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| ev_as_org_site      |  | INT NOT NULL   |
| ev_as_id            |  | INT NOT NULL   |
| ev_db_site          |  | INT NOT NULL   |
| ev_db_id            |  | INT NOT NULL   |
| event_type_code     |  | INT NOT NULL   |
| gmt_event_start     |  | DATETIME(10:29) NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id, ev_as_org_site, ev_as_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">as_recommendation</a> (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id)   | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id         |
|                     | <a href="#">asset_event</a> (asset_org_site, asset_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start)   | ev_as_org_site, ev_as_id, ev_db_site, ev_db_id, event_type_code, gmt_event_start |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#302 sg\_rec\_sg\_health****Description: Segment Health Assessment Linked to Segment Recommendations**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| segment_site        |  | INT NOT NULL   |
| segment_id          |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| hth_sg_site         |  | INT NOT NULL   |
| hth_sg_id           |  | INT NOT NULL   |
| hth_gmt_assess      |  | DATETIME(10:29) NOT NULL   |
| hth_by_agent_site   |  | INT NOT NULL   |
| hth_by_agent_id     |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id, hth_sg_site, hth_sg_id, hth_gmt_assess, hth_by_agent_site, hth_by_agent_id |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id)   | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id   |
|                     | <a href="#">segment_health</a> (segment_site, segment_id, gmt_assessment, by_agent_site, by_agent_id)  | hth_sg_site, hth_sg_id, hth_gmt_assess, hth_by_agent_site, hth_by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#303 as\_rec\_as\_health****Description: Asset Health Assessment Linked to Asset Recommendations**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>   |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL   |
| asset_id            |  | INT NOT NULL   |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator   | INT NOT NULL   |
| by_agent_id         |  | INT NOT NULL   |
| hth_as_site         |  | INT NOT NULL   |
| hth_as_id           |  | INT NOT NULL   |
| hth_gmt_assess      |  | DATETIME(10:29) NOT NULL   |
| hth_by_agent_site   |  | INT NOT NULL   |
| hth_by_agent_id     |  | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id, hth_as_site, hth_as_id, hth_gmt_assess, hth_by_agent_site, hth_by_agent_id |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">as_recommendation</a> (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id)   | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id   |
|                     | <a href="#">asset_health</a> (asset_org_site, asset_id, gmt_assessment, by_agent_site, by_agent_id)  | hth_as_site, hth_as_id, hth_gmt_assess, hth_by_agent_site, hth_by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#304 sg\_rec\_mevent****Description: Measurement Events Linked to Segment Recommendations**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| segment_site        |   | INT NOT NULL   |
| segment_id          |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator  | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| meas_loc_site       |   | INT NOT NULL   |
| meas_loc_id         |   | INT NOT NULL   |
| gmt_event           |   | DATETIME(10:29) NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                              | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record      | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id, meas_loc_site, meas_loc_id, gmt_event |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id)    | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)  | meas_loc_site, meas_loc_id, gmt_event                                    |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#305 as\_rec\_mevent****Description: Proposed Asset Events Linked to Asset Recommendations**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| asset_org_site      |   | INT NOT NULL   |
| asset_id            |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       | Originator  | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| meas_loc_site       |   | INT NOT NULL   |
| meas_loc_id         |   | INT NOT NULL   |
| gmt_event           |   | DATETIME(10:29) NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                              | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record      | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id, meas_loc_site, meas_loc_id, gmt_event |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">as_recommendation</a> (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id)    | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">meas_event</a> (meas_loc_site, meas_loc_id, gmt_event)  | meas_loc_site, meas_loc_id, gmt_event                                    |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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## **Work Management Tables**

### **#181 solution\_package**

**Description: Package of Pre-defined Work and Associated Information to Be Done Based On a Need**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                      |
|---------------------|--|---------------------------------------|
| sol_pack_db_site    |  | INT NOT NULL                          |
| sol_pack_db_id      |  | INT NOT NULL                          |
| sol_pack_id         |  | INT NOT NULL                          |
| sol_db_site         |  | INT NOT NULL                          |
| sol_db_id           |  | INT NOT NULL                          |
| sol_type_code       |  | INT NOT NULL                          |
| gmt_created         |  | DATETIME(10:29)                       |
| loc_hr_delta        |  | SHORT                                 |
| loc_min_delta       |  | SHORT                                 |
| priority_type_code  |  | INT                                   |
| user_tag_ident      | User alpha-numeric solution package number   | STRING(0:254) NOT NULL                |
| name                |  | STRING(0:254)                         |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                       |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                   |
| rstat_type_code     | Row status type code   | SHORT                                 |
|                     |  |                                       |
| <u>Primary Key</u>  | <u>Column(s)</u>   |                                       |
|                     | sol_pack_db_site, sol_pack_db_id, sol_pack_id  |                                       |
|                     |  |                                       |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                      |
|                     | <a href="#">site_database</a> (db_site, db_id)   | sol_pack_db_site, sol_pack_db_id      |
|                     | <a href="#">solution_pack_type</a> (sol_db_site, sol_db_id, sol_type_code)                                 | sol_db_site, sol_db_id, sol_type_code |
|                     | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code                    |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id      |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                       |
|                     |  |                                       |

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**#136 work\_request****Description: Work Request**

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u>       |
|--------------------|--|------------------------|
| work_req_db_site   |  | INT NOT NULL           |
| work_req_db_id     |  | INT NOT NULL           |
| work_req_id        |  | INT NOT NULL           |
| wm_type_db_site    |  | INT NOT NULL           |
| wm_type_db_id      |  | INT NOT NULL           |
| wm_type_code       |  | INT NOT NULL           |
| gmt_created        |  | DATETIME(10:29)        |
| loc_hr_delta       |  | SHORT                  |
| loc_min_delta      |  | SHORT                  |
| by_agent_site      | Originator   | INT                    |
| by_agent_id        |  | INT                    |
| start_before_gmt   | Request for action to begin before this time   | DATETIME(10:29)        |
| end_before_gmt     | Request for action to end before this time   | DATETIME(10:29)        |
| start_after_gmt    | Request for action to begin after this time  | DATETIME(10:29)        |
| end_after_gmt      | Request for action to end after this time  | DATETIME(10:29)        |
| repeat_interval    | Time interval to re-submit time-based actions  | INT                    |
| int_eu_db_site     | Time interval eng unit reference   | INT                    |
| int_eu_db_id       |  | INT                    |
| int_eu_type_code   |  | INT                    |
| from_sy_agent_site | System the request generated from  | INT                    |
| from_sy_agent_id   |  | INT                    |
| to_agent_site      |  | INT                    |
| to_agent_id        |  | INT                    |
| priority_type_code |  | INT                    |
| user_tag_ident     | Work Request or Work Requested Number  | STRING(0:254) NOT NULL |
| abbrev             | User-generated short description   | STRING(0:254)          |
| name               | User-generated full description  | STRING(0:254)          |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)        |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT                    |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT                    |
| rstat_type_code    | Row status type code   | SHORT                  |
|                    |  |                        |
| <u>Primary Key</u> | <u>Column(s)</u>   |                        |
|                    | work_req_db_site, work_req_db_id, work_req_id  |                        |
|                    |  |                        |



| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                     |
|---------------------|--|--|
|                     | <a href="#">site_database</a> (db_site, db_id)                                     | work_req_db_site,<br>work_req_db_id                  |
|                     | <a href="#">work_manage_type</a> (wm_type_db_site,<br>wm_type_db_id, wm_type_code) | wm_type_db_site,<br>wm_type_db_id,<br>wm_type_code   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)                                   | by_agent_site, by_agent_id                           |
|                     | <a href="#">eng_unit_type</a> eu_db_site, eu_db_id,<br>eu_type_code)               | int_eu_db_site,<br>int_eu_db_id,<br>int_eu_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)                                   | from_sy_agent_site,<br>from_sy_agent_id              |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)                                   | to_agent_site, to_agent_id                           |
|                     | <a href="#">priority_type</a> (priority_type_code)                                 | priority_type_code                                   |
|                     | <a href="#">site_database</a> (db_site, db_id)                                     | last_upd_db_site,<br>last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                   | rstat_type_code                                      |
|                     |  |  |

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**#172 work\_req\_num\_data****Description: Work Request Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| work_req_db_site    |  | INT NOT NULL                                  |
| work_req_db_id      |  | INT NOT NULL                                  |
| work_req_id         |  | INT NOT NULL                                  |
| wn_db_site          |  | INT NOT NULL                                  |
| wn_db_id            |  | INT NOT NULL                                  |
| wn_type_code        |  | INT NOT NULL                                  |
| eu_db_site          |  | INT NOT NULL                                  |
| eu_db_id            |  | INT NOT NULL                                  |
| eu_type_code        |  | INT NOT NULL                                  |
| data_value          |  | DOUBLE NOT NULL                               |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_req_db_site, work_req_db_id, work_req_id, wn_db_site, wn_db_id, wn_type_code                          |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">work_request</a> (work_req_db_site, work_req_db_id, work_req_id)                               | work_req_db_site, work_req_db_id, work_req_id |
|                     | <a href="#">work_num_data_type</a> (wn_db_site, wn_db_id, wn_type_code)                                    | wn_db_site, wn_db_id, wn_type_code            |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#173 work\_req\_chr\_data****Description: Work Request Character Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| work_req_db_site    |  | INT NOT NULL                                  |
| work_req_db_id      |  | INT NOT NULL                                  |
| work_req_id         |  | INT NOT NULL                                  |
| wc_db_site          |  | INT NOT NULL                                  |
| wc_db_id            |  | INT NOT NULL                                  |
| wc_type_code        |  | INT NOT NULL                                  |
| eu_db_site          |  | INT NOT NULL                                  |
| eu_db_id            |  | INT NOT NULL                                  |
| eu_type_code        |  | INT NOT NULL                                  |
| data_value          |  | STRING(0:254) NOT NULL                        |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_req_db_site, work_req_db_id, work_req_id, wc_db_site, wc_db_id, wc_type_code                          |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">work_request</a> (work_req_db_site, work_req_db_id, work_req_id)                               | work_req_db_site, work_req_db_id, work_req_id |
|                     | <a href="#">work_chr_data_type</a> (wc_db_site, wc_db_id, wc_type_code)                                    | wc_db_site, wc_db_id, wc_type_code            |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)   | eu_db_site, eu_db_id, eu_type_code            |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#174 work\_request\_audit****Description: Work Request Audit**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>                               |
|---------------------|---|--|
| work_req_db_site    |   | INT NOT NULL                                   |
| work_req_db_id      |   | INT NOT NULL                                   |
| work_req_id         |   | INT NOT NULL                                   |
| waudit_db_site      |   | INT NOT NULL                                   |
| waudit_db_id        |   | INT NOT NULL                                   |
| waudit_type_code    |   | INT NOT NULL                                   |
| gmt_audit_posted    |   | DATETIME(10:29) NOT NULL                       |
| loc_hr_delta        |   | SHORT  |
| loc_min_delta       |   | SHORT  |
| by_agent_site       | Agent who posted audit record   | INT  |
| by_agent_id         |   | INT  |
| from_sy_agent_site  | System audit record generated from  | INT  |
| from_sy_agent_id    |   | INT  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)                                |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                              | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record      | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | work_req_db_site, work_req_db_id, work_req_id, waudit_db_site, waudit_db_id, waudit_type_code, gmt_audit_posted |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>                               |
|                     | <a href="#">work_request</a> (work_req_db_site, work_req_db_id, work_req_id)                                    | work_req_db_site, work_req_db_id, work_req_id  |
|                     | <a href="#">work_audit_type</a> (waudit_db_site, waudit_db_id, waudit_type_code)                                | waudit_db_site, waudit_db_id, waudit_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | by_agent_site, by_agent_id                     |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | from_sy_agent_site, from_sy_agent_id           |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id               |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code                                |
|                     |   |  |

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## #183 work\_req\_sol\_pack

**Description:** Associated Solution Packages for a Work Request

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| work_req_db_site    |  | INT NOT NULL                                  |
| work_req_db_id      |  | INT NOT NULL                                  |
| work_req_id         |  | INT NOT NULL                                  |
| sol_pack_db_site    |  | INT NOT NULL                                  |
| sol_pack_db_id      |  | INT NOT NULL                                  |
| sol_pack_id         |  | INT NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_req_db_site, work_req_db_id, work_req_id, sol_pack_db_site, sol_pack_db_id, sol_pack_id               |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">work_request</a> (work_req_db_site, work_req_db_id, work_req_id)                               | work_req_db_site, work_req_db_id, work_req_id |
|                     | <a href="#">solution_package</a> (sol_pack_db_site, sol_pack_db_id, sol_pack_id)                           | sol_pack_db_site, sol_pack_db_id, sol_pack_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#186 work\_req\_sg\_recomm****Description: Associated Segment Recommendations for a Work Request**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| work_req_db_site    |   | INT NOT NULL   |
| work_req_db_id      |   | INT NOT NULL   |
| work_req_id         |   | INT NOT NULL   |
| segment_site        |   | INT NOT NULL   |
| segment_id          |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       |   | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                      | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record              | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | work_req_db_site, work_req_db_id, work_req_id, segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">work_request</a> (work_req_db_site, work_req_db_id, work_req_id)  | work_req_db_site, work_req_db_id, work_req_id                            |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id)            | segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#197 work\_req\_as\_recomm****Description: Associated Asset Recommendations for a Work Request**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>   |
|---------------------|---|--|
| work_req_db_site    |   | INT NOT NULL   |
| work_req_db_id      |   | INT NOT NULL   |
| work_req_id         |   | INT NOT NULL   |
| asset_org_site      |   | INT NOT NULL   |
| asset_id            |   | INT NOT NULL   |
| gmt_recommendation  |   | DATETIME(10:29) NOT NULL   |
| by_agent_site       |   | INT NOT NULL   |
| by_agent_id         |   | INT NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                      | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record              | INT  |
| rstat_type_code     | Row status type code  | SHORT  |
|                     |   |  |
| <u>Primary Key</u>  | <u>Column(s)</u>  |  |
|                     | work_req_db_site, work_req_db_id, work_req_id, asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id |  |
|                     |   |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>   |
|                     | <a href="#">work_request</a> (work_req_db_site, work_req_db_id, work_req_id)  | work_req_db_site, work_req_db_id, work_req_id                            |
|                     | <a href="#">as_recommendation</a> (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id)            | asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code  |
|                     |   |  |

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**#134 sg\_req\_for\_work****Description: Request for Work for Segment**

| <u>Column</u>      | <u>Description</u>                                  | <u>Size/Type</u>         |
|--------------------|---|--------------------------|
| segment_site       |   | INT NOT NULL             |
| segment_id         |   | INT NOT NULL             |
| gmt_requested      |   | DATETIME(10:29) NOT NULL |
| req_by_agent_site  |   | INT NOT NULL             |
| req_by_agent_id    |   | INT NOT NULL             |
| ordering_seq       |   | INT NOT NULL             |
| req_loc_hr_delta   |   | SHORT                    |
| req_loc_min_delta  |   | SHORT                    |
| wm_type_db_site    |   | INT NOT NULL             |
| wm_type_db_id      |   | INT NOT NULL             |
| wm_type_code       |   | INT NOT NULL             |
| task_db_site       |   | INT NOT NULL             |
| task_db_id         |   | INT NOT NULL             |
| task_type_code     |   | INT NOT NULL             |
| start_before_gmt   | Request for action to begin before this time        | DATETIME(10:29)          |
| end_before_gmt     | Request for action to end before this time          | DATETIME(10:29)          |
| start_after_gmt    | Request for action to begin after this time         | DATETIME(10:29)          |
| end_after_gmt      | Request for action to end after this time           | DATETIME(10:29)          |
| repeat_interval    | Time interval to re-submit time-based actions       | INT                      |
| int_eu_db_site     | Time interval eng unit reference                    | INT                      |
| int_eu_db_id       |   | INT                      |
| int_eu_type_code   |   | INT                      |
| from_sy_agent_site | System the request generated from                   | INT                      |
| from_sy_agent_id   |   | INT                      |
| to_agent_site      | Agent to receive the request for work               | INT                      |
| to_agent_id        |   | INT                      |
| priority_type_code | Priority  | INT                      |
| sol_pack_db_site   | Associated solution package                         | INT                      |
| sol_pack_db_id     |   | INT                      |
| sol_pack_id        |   | INT                      |
| rec_segment_site   | Associated segment recommendation                   | INT                      |
| rec_segment_id     |   | INT                      |
| rec_gmt_recomm     |   | DATETIME(10:29)          |
| rec_by_agent_site  |   | INT                      |
| rec_by_agent_id    |   | INT                      |
| work_req_db_site   | Associated Work Request in local or remote database | INT                      |
| work_req_db_id     |   | INT                      |
| work_req_id        |   | INT                      |
| abbrev             | User-generated short work description               | STRING(0:254) NOT NULL   |
| name               | User-generated full work description                | STRING(0:254)            |



|                     |  |  |
|---------------------|--|--|
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                           | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | segment_site, segment_id, gmt_requested, req_by_agent_site, req_by_agent_id, ordering_seq                    |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | req_by_agent_site, req_by_agent_id   |
|                     | <a href="#">work_manage_type</a> (wm_type_db_site, wm_type_db_id, wm_type_code)                              | wm_type_db_site, wm_type_db_id, wm_type_code   |
|                     | <a href="#">work_task_type</a> (task_db_site, task_db_id, task_type_code)                                    | task_db_site, task_db_id, task_type_code   |
|                     | <a href="#">eng_unit_type</a> eu_db_site, eu_db_id, eu_type_code)  | int_eu_db_site, int_eu_db_id, int_eu_type_code                                       |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | from_sy_agent_site, from_sy_agent_id   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | to_agent_site, to_agent_id   |
|                     | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code   |
|                     | <a href="#">solution_package</a> (sol_pack_db_site, sol_pack_db_id, sol_pack_id)                             | sol_pack_db_site, sol_pack_db_id, sol_pack_id  |
|                     | <a href="#">sg_recommendation</a> (segment_site, segment_id, gmt_recommendation, by_agent_site, by_agent_id) | rec_segment_site, rec_segment_id, rec_gmt_recomm, rec_by_agent_site, rec_by_agent_id |
|                     | <a href="#">work_request</a> (work_req_db_site, work_req_db_id, work_req_id)                                 | work_req_db_site, work_req_db_id, work_req_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#135 as\_req\_for\_work****Description: Request for Work for Asset**

| <u>Column</u>      | <u>Description</u>                                  | <u>Size/Type</u>         |
|--------------------|---|--------------------------|
| asset_org_site     |   | INT NOT NULL             |
| asset_id           |   | INT NOT NULL             |
| gmt_requested      |   | DATETIME(10:29) NOT NULL |
| req_by_agent_site  |   | INT NOT NULL             |
| req_by_agent_id    |   | INT NOT NULL             |
| ordering_seq       |   | INT NOT NULL             |
| req_loc_hr_delta   |   | SHORT                    |
| req_loc_min_delta  |   | SHORT                    |
| wm_type_db_site    |   | INT NOT NULL             |
| wm_type_db_id      |   | INT NOT NULL             |
| wm_type_code       |   | INT NOT NULL             |
| task_db_site       |   | INT NOT NULL             |
| task_db_id         |   | INT NOT NULL             |
| task_type_code     |   | INT NOT NULL             |
| start_before_gmt   | Request for action to begin before this time        | DATETIME(10:29)          |
| end_before_gmt     | Request for action to end before this time          | DATETIME(10:29)          |
| start_after_gmt    | Request for action to begin after this time         | DATETIME(10:29)          |
| end_after_gmt      | Request for action to end after this time           | DATETIME(10:29)          |
| repeat_interval    | Time interval to re-submit time-based actions       | INT                      |
| int_eu_db_site     | Time interval eng unit reference                    | INT                      |
| int_eu_db_id       |   | INT                      |
| int_eu_type_code   |   | INT                      |
| from_sy_agent_site | System the request generated from                   | INT                      |
| from_sy_agent_id   |   | INT                      |
| to_agent_site      | Agent to receive the request for work               | INT                      |
| to_agent_id        |   | INT                      |
| priority_type_code | Priority  | INT                      |
| sol_pack_db_site   | Associated solution package                         | INT                      |
| sol_pack_db_id     |   | INT                      |
| sol_pack_id        |   | INT                      |
| rec_asset_org_site | Associated asset recommendation                     | INT                      |
| rec_asset_id       |   | INT                      |
| rec_gmt_recomm     |   | DATETIME(10:29)          |
| rec_by_agent_site  |   | INT                      |
| rec_by_agent_id    |   | INT                      |
| work_req_db_site   | Associated Work Request in local or remote database | INT                      |
| work_req_db_id     |   | INT                      |
| work_req_id        |   | INT                      |
| abbrev             | User-generated short work description               | STRING(0:254) NOT NULL   |
| name               | User-generated full work description                | STRING(0:254)            |

|                     |  |  |
|---------------------|--|--|
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)  |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                 | INT  |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record         | INT  |
| rstat_type_code     | Row status type code   | SHORT  |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id,<br>gmt_requested, req_by_agent_site,<br>req_by_agent_id, ordering_seq                    |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>   |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | req_by_agent_site,<br>req_by_agent_id  |
|                     | <a href="#">work_manage_type</a> (wm_type_db_site,<br>wm_type_db_id, wm_type_code)                                 | wm_type_db_site,<br>wm_type_db_id,<br>wm_type_code   |
|                     | <a href="#">work_task_type</a> (task_db_site,<br>task_db_id, task_type_code)                                       | task_db_site, task_db_id,<br>task_type_code  |
|                     | <a href="#">eng_unit_type</a> eu_db_site, eu_db_id,<br>eu_type_code)   | int_eu_db_site,<br>int_eu_db_id,<br>int_eu_type_code   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | from_sy_agent_site,<br>from_sy_agent_id  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | to_agent_site, to_agent_id   |
|                     | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code   |
|                     | <a href="#">solution_package</a> (sol_pack_db_site,<br>sol_pack_db_id, sol_pack_id)                                | sol_pack_db_site,<br>sol_pack_db_id, sol_pack_id   |
|                     | <a href="#">as_recommendation</a> (asset_org_site,<br>asset_id, gmt_recommendation,<br>by_agent_site, by_agent_id) | rec_asset_org_site,<br>rec_asset_id,<br>rec_gmt_recomm,<br>rec_by_agent_site,<br>rec_by_agent_id |
|                     | <a href="#">work_request</a> (work_req_db_site,<br>work_req_db_id, work_req_id)                                    | work_req_db_site,<br>work_req_db_id,<br>work_req_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code  |
|                     |  |  |

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**#148 ol\_req\_for\_work****Description: Request for Work for Ordered List / Route**

| <u>Column</u>      | <u>Description</u>                                  | <u>Size/Type</u>         |
|--------------------|---|--------------------------|
| ord_list_db_site   |   | INT NOT NULL             |
| ord_list_db_id     |   | INT NOT NULL             |
| ord_list_id        |   | INT NOT NULL             |
| gmt_requested      |   | DATETIME(10:29) NOT NULL |
| req_by_agent_site  |   | INT NOT NULL             |
| req_by_agent_id    |   | INT NOT NULL             |
| ordering_seq       |   | INT NOT NULL             |
| req_loc_hr_delta   |   | SHORT                    |
| req_loc_min_delta  |   | SHORT                    |
| wm_type_db_site    |   | INT NOT NULL             |
| wm_type_db_id      |   | INT NOT NULL             |
| wm_type_code       |   | INT NOT NULL             |
| task_db_site       |   | INT NOT NULL             |
| task_db_id         |   | INT NOT NULL             |
| task_type_code     |   | INT NOT NULL             |
| start_before_gmt   | Request for action to begin before this time        | DATETIME(10:29)          |
| end_before_gmt     | Request for action to end before this time          | DATETIME(10:29)          |
| start_after_gmt    | Request for action to begin after this time         | DATETIME(10:29)          |
| end_after_gmt      | Request for action to end after this time           | DATETIME(10:29)          |
| repeat_interval    | Time interval to re-submit time-based actions       | INT                      |
| int_eu_db_site     | Time interval eng unit reference                    | INT                      |
| int_eu_db_id       |   | INT                      |
| int_eu_type_code   |   | INT                      |
| from_sy_agent_site | System the request generated from                   | INT                      |
| from_sy_agent_id   |   | INT                      |
| to_agent_site      | Agent to receive the request for work               | INT                      |
| to_agent_id        |   | INT                      |
| priority_type_code | Priority  | INT                      |
| sol_pack_db_site   | Associated solution package                         | INT                      |
| sol_pack_db_id     |   | INT                      |
| sol_pack_id        |   | INT                      |
| rec_ord_db_site    | Associated ordered list recommendation              | INT                      |
| rec_ord_db_id      |   | INT                      |
| rec_ord_list       |   | INT                      |
| rec_gmt_recomm     |   | DATETIME(10:29)          |
| rec_by_agent_site  |   | INT                      |
| rec_by_agent_id    |   | INT                      |
| work_req_db_site   | Associated Work Request in local or remote database | INT                      |
| work_req_db_id     |   | INT                      |

|                     |   |   |
|---------------------|---|---|
| work_req_id         |   | INT   |
| abbrev              | User-generated short work description   | STRING(0:254) NOT NULL  |
| name                | User-generated full work description  | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                        | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, gmt_requested, req_by_agent_site, req_by_agent_id, ordering_seq                    |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">ordered_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id)  | ord_list_db_site, ord_list_db_id, ord_list_id   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | req_by_agent_site, req_by_agent_id  |
|                     | <a href="#">work_manage_type</a> (wm_type_db_site, wm_type_db_id, wm_type_code)   | wm_type_db_site, wm_type_db_id, wm_type_code  |
|                     | <a href="#">work_task_type</a> (task_db_site, task_db_id, task_type_code)   | task_db_site, task_db_id, task_type_code  |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id, eu_type_code)  | int_eu_db_site, int_eu_db_id, int_eu_type_code  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | from_sy_agent_site, from_sy_agent_id  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)  | to_agent_site, to_agent_id  |
|                     | <a href="#">priority_type</a> (priority_type_code)  | priority_type_code  |
|                     | <a href="#">solution_package</a> (sol_pack_db_site, sol_pack_db_id, sol_pack_id)  | sol_pack_db_site, sol_pack_db_id, sol_pack_id   |
|                     | <a href="#">ol_recommendation</a> (ord_list_db_site, ord_list_db_id, ord_list_id, gmt_recommendation, by_agent_site, by_agent_id) | rec_ord_list_site, rec_ord_list_db, rec_ord_list_id, rec_gmt_recomm, rec_by_agent_site, rec_by_agent_id |
|                     | <a href="#">work_request</a> (work_req_db_site, work_req_db_id, work_req_id)  | work_req_db_site, work_req_db_id, work_req_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site, last_upd_db_id  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#139 work\_order****Description: Work Order**

| <u>Column</u>      | <u>Description</u>   | <u>Size/Type</u>       |
|--------------------|--|------------------------|
| work_order_db_site |  | INT NOT NULL           |
| work_order_db_id   |  | INT NOT NULL           |
| work_order_id      |  | INT NOT NULL           |
| wm_type_db_site    |  | INT NOT NULL           |
| wm_type_db_id      |  | INT NOT NULL           |
| wm_type_code       |  | INT NOT NULL           |
| gmt_created        |  | DATETIME(10:29)        |
| loc_hr_delta       |  | SHORT                  |
| loc_min_delta      |  | SHORT                  |
| by_agent_site      | Originator   | INT                    |
| by_agent_id        |  | INT                    |
| start_before_gmt   | Request for action to begin before this time   | DATETIME(10:29)        |
| end_before_gmt     | Request for action to end before this time   | DATETIME(10:29)        |
| start_after_gmt    | Request for action to begin after this time  | DATETIME(10:29)        |
| end_after_gmt      | Request for action to end after this time  | DATETIME(10:29)        |
| repeat_interval    | Time interval to automatically have work re-submitted for time-based actions                               | INT                    |
| int_eu_db_site     | Time interval eng unit reference (hours, days, months, etc.)   | INT                    |
| int_eu_db_id       |  | INT                    |
| int_eu_type_code   |  | INT                    |
| from_sy_agent_site | System generated from  | INT                    |
| from_sy_agent_id   |  | INT                    |
| to_agent_site      |  | INT                    |
| to_agent_id        |  | INT                    |
| priority_type_code |  | INT                    |
| user_tag_ident     | User alpha-numeric work order number   | STRING(0:254) NOT NULL |
| abbrev             | User-generated short description   | STRING(0:254)          |
| name               | User-generated full description  | STRING(0:254)          |
| gmt_last_updated   | GMT time stamp for the last change to this record  | DATETIME(10:29)        |
| last_upd_db_site   | Site code (from the site table) for the site making the last change to this record                         | INT                    |
| last_upd_db_id     | Database Id of the database in which this record was resident when the last change was made to this record | INT                    |
| rstat_type_code    | Row status type code   | SHORT                  |
|                    |  |                        |
| <u>Primary Key</u> | <u>Column(s)</u>   |                        |
|                    | work_order_db_site,<br>work_order_db_id, work_order_id   |                        |

| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                                     |
|---------------------|--|--|
|                     | <a href="#">site_database</a> (db_site, db_id)                                     | work_order_db_site,<br>work_order_db_id              |
|                     | <a href="#">work_manage_type</a> (wm_type_db_site,<br>wm_type_db_id, wm_type_code) | wm_type_db_site,<br>wm_type_db_id,<br>wm_type_code   |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)                                   | by_agent_site, by_agent_id                           |
|                     | <a href="#">eng_unit_type</a> eu_db_site, eu_db_id,<br>eu_type_code)               | int_eu_db_site,<br>int_eu_db_id,<br>int_eu_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)                                   | from_sy_agent_site,<br>from_sy_agent_id              |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)                                   | to_agent_site, to_agent_id                           |
|                     | <a href="#">priority_type</a> (priority_type_code)                                 | priority_type_code                                   |
|                     | <a href="#">site_database</a> (db_site, db_id)                                     | last_upd_db_site,<br>last_upd_db_id                  |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)                                   | rstat_type_code                                      |
|                     |  |  |

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**#159 work\_order\_child**

**Description: Relationship of Master Parent Work Order to Follow-on Work Orders**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| work_order_db_site  |   | INT NOT NULL  |
| work_order_db_id    |   | INT NOT NULL  |
| work_order_id       |   | INT NOT NULL  |
| child_wo_db_site    |   | INT NOT NULL  |
| child_wo_db_id      |   | INT NOT NULL  |
| child_wo_id         |   | INT NOT NULL  |
| name                |   | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                          | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record  | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>child_wo_db_site, child_wo_db_id,<br>child_wo_id |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">work_order</a> (work_order_db_site,<br>work_order_db_id, work_order_id)                         | work_order_db_site,<br>work_order_db_id,<br>work_order_id |
|                     | <a href="#">work_order</a> (work_order_db_site,<br>work_order_db_id, work_order_id)                         | child_wo_db_site,<br>child_wo_db_id, child_wo_id          |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id                       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#175 work\_order\_num\_data****Description: Work Order Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| work_order_db_site  |  | INT NOT NULL  |
| work_order_db_id    |  | INT NOT NULL  |
| work_order_id       |  | INT NOT NULL  |
| wn_db_site          |  | INT NOT NULL  |
| wn_db_id            |  | INT NOT NULL  |
| wn_type_code        |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| data_value          |  | DOUBLE NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>wn_db_site, wn_db_id, wn_type_code              |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">work_order</a> (work_order_db_site,<br>work_order_db_id, work_order_id)                        | work_order_db_site,<br>work_order_db_id,<br>work_order_id |
|                     | <a href="#">work_num_data_type</a> (wn_db_site,<br>wn_db_id, wn_type_code)                                 | wn_db_site, wn_db_id,<br>wn_type_code                     |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)                                      | eu_db_site, eu_db_id,<br>eu_type_code                     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id                       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#176 work\_order\_chr\_data****Description: Work Order Numeric Data**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| work_order_db_site  |  | INT NOT NULL  |
| work_order_db_id    |  | INT NOT NULL  |
| work_order_id       |  | INT NOT NULL  |
| wc_db_site          |  | INT NOT NULL  |
| wc_db_id            |  | INT NOT NULL  |
| wc_type_code        |  | INT NOT NULL  |
| eu_db_site          |  | INT NOT NULL  |
| eu_db_id            |  | INT NOT NULL  |
| eu_type_code        |  | INT NOT NULL  |
| data_value          |  | STRING(0:254) NOT NULL                                    |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>wc_db_site, wc_db_id, wc_type_code              |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">work_order</a> (work_order_db_site,<br>work_order_db_id, work_order_id)                        | work_order_db_site,<br>work_order_db_id,<br>work_order_id |
|                     | <a href="#">work_chr_data_type</a> (wc_db_site,<br>wc_db_id, wc_type_code)                                 | wc_db_site, wc_db_id,<br>wc_type_code                     |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)                                      | eu_db_site, eu_db_id,<br>eu_type_code                     |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id                       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#177 work\_order\_audit****Description: Work Order Audit**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| work_order_db_site  |  | INT NOT NULL  |
| work_order_db_id    |  | INT NOT NULL  |
| work_order_id       |  | INT NOT NULL  |
| waudit_db_site      |  | INT NOT NULL  |
| waudit_db_id        |  | INT NOT NULL  |
| waudit_type_code    |  | INT NOT NULL  |
| gmt_audit_posted    |  | DATETIME(10:29) NOT NULL                                  |
| loc_hr_delta        |  | SHORT   |
| loc_min_delta       |  | SHORT   |
| by_agent_site       | Agent who posted audit record  | INT   |
| by_agent_id         |  | INT   |
| from_sy_agent_site  | System audit record generated from   | INT   |
| from_sy_agent_id    |  | INT   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                     | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>waudit_db_site, waudit_db_id,<br>waudit_type_code, gmt_audit_posted |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">work_order</a> (work_order_db_site,<br>work_order_db_id, work_order_id)  | work_order_db_site,<br>work_order_db_id,<br>work_order_id |
|                     | <a href="#">work_audit_type</a> (waudit_db_site,<br>waudit_db_id, waudit_type_code)  | waudit_db_site,<br>waudit_db_id,<br>waudit_type_code      |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id                                |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | from_sy_agent_site,<br>from_sy_agent_id                   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id                       |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#140 work\_order\_step****Description: Work Order Step**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                         |
|---------------------|--|--|
| work_order_db_site  |  | INT NOT NULL                             |
| work_order_db_id    |  | INT NOT NULL                             |
| work_order_id       |  | INT NOT NULL                             |
| work_ord_step_seq   |  | INT NOT NULL                             |
| gmt_created         |  | DATETIME(10:29)                          |
| loc_hr_delta        |  | SHORT                                    |
| loc_min_delta       |  | SHORT                                    |
| by_agent_site       | Originator   | INT                                      |
| by_agent_id         |  | INT                                      |
| sol_pack_db_site    |  | INT                                      |
| sol_pack_db_id      |  | INT                                      |
| sol_pack_id         |  | INT                                      |
| start_before_gmt    | Request for action to begin before this time   | DATETIME(10:29)                          |
| end_before_gmt      | Request for action to end before this time   | DATETIME(10:29)                          |
| start_after_gmt     | Request for action to begin after this time  | DATETIME(10:29)                          |
| end_after_gmt       | Request for action to end after this time  | DATETIME(10:29)                          |
| from_sy_agent_site  | System generated from  | INT                                      |
| from_sy_agent_id    |  | INT                                      |
| to_agent_site       |  | INT                                      |
| to_agent_id         |  | INT                                      |
| priority_type_code  | 0 = lowest, 10 = highest   | INT                                      |
| user_tag_ident      |  | STRING(0:254) NOT NULL                   |
| abbrev              | User-generated short description   | STRING(0:254)                            |
| name                | User-generated full description  | STRING(0:254)                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                          |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                      |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                      |
| rstat_type_code     | Row status type code   | SHORT                                    |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq                               |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                         |
|                     | <a href="#">work_order</a> (work_order_db_site,<br>work_order_db_id, work_order_id)                        | work_order_db_site,<br>work_order_db_id, |

|  |  |   |
|--|--|---|
|  |  | work_order_id                                 |
|  | <a href="#">agent</a> (org_agent_site, agent_id)                                 | by_agent_site, by_agent_id                    |
|  | <a href="#">solution_package</a> (sol_pack_db_site, sol_pack_db_id, sol_pack_id) | sol_pack_db_site, sol_pack_db_id, sol_pack_id |
|  | <a href="#">agent</a> (org_agent_site, agent_id)                                 | from_sy_agent_site, from_sy_agent_id          |
|  | <a href="#">agent</a> (org_agent_site, agent_id)                                 | to_agent_site, to_agent_id                    |
|  | <a href="#">priority_type</a> (priority_type_code)                               | priority_type_code                            |
|  | <a href="#">site_database</a> (db_site, db_id)                                   | last_upd_db_site, last_upd_db_id              |
|  | <a href="#">row_status_type</a> (rstat_type_cod)                                 | rstat_type_code                               |
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**#178 wo\_step\_num\_data****Description: Work Order Step Numeric Data**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| work_order_db_site  |   | INT NOT NULL  |
| work_order_db_id    |   | INT NOT NULL  |
| work_order_id       |   | INT NOT NULL  |
| work_ord_step_seq   |   | INT NOT NULL  |
| wn_db_site          |   | INT NOT NULL  |
| wn_db_id            |   | INT NOT NULL  |
| wn_type_code        |   | INT NOT NULL  |
| eu_db_site          |   | INT NOT NULL  |
| eu_db_id            |   | INT NOT NULL  |
| eu_type_code        |   | INT NOT NULL  |
| data_value          |   | DOUBLE NOT NULL   |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record          | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq, wn_db_site,<br>wn_db_id, wn_type_code |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq)      | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|                     | <a href="#">work_num_data_type</a> (wn_db_site,<br>wn_db_id, wn_type_code)  | wn_db_site, wn_db_id,<br>wn_type_code   |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)   | eu_db_site, eu_db_id,<br>eu_type_code   |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#179 wo\_step\_chr\_data****Description: Work Order Step Character Data**

| <u>Column</u>       | <u>Description</u>  | <u>Size/Type</u>  |
|---------------------|---|---|
| work_order_db_site  |   | INT NOT NULL  |
| work_order_db_id    |   | INT NOT NULL  |
| work_order_id       |   | INT NOT NULL  |
| work_ord_step_seq   |   | INT NOT NULL  |
| wc_db_site          |   | INT NOT NULL  |
| wc_db_id            |   | INT NOT NULL  |
| wc_type_code        |   | INT NOT NULL  |
| eu_db_site          |   | INT NOT NULL  |
| eu_db_id            |   | INT NOT NULL  |
| eu_type_code        |   | INT NOT NULL  |
| data_value          |   | STRING(0:254) NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record   | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                                  | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record          | INT   |
| rstat_type_code     | Row status type code  | SHORT   |
|                     |   |   |
| <u>Primary Key</u>  | <u>Column(s)</u>  |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq, wc_db_site,<br>wc_db_id, wc_type_code |   |
|                     |   |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>  | <u>Column(s)</u>  |
|                     | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq)      | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|                     | <a href="#">work_chr_data_type</a> (wc_db_site,<br>wc_db_id, wc_type_code)  | wc_db_site, wc_db_id,<br>wc_type_code   |
|                     | <a href="#">eng_unit_type</a> (eu_db_site, eu_db_id,<br>eu_type_code)   | eu_db_site, eu_db_id,<br>eu_type_code   |
|                     | <a href="#">site_database</a> (db_site, db_id)  | last_upd_db_site,<br>last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)  | rstat_type_code   |
|                     |   |   |

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**#180 wo\_step\_audit****Description: Work Order Step Audit**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| work_order_db_site  |  | INT NOT NULL  |
| work_order_db_id    |  | INT NOT NULL  |
| work_order_id       |  | INT NOT NULL  |
| work_ord_step_seq   |  | INT NOT NULL  |
| waudit_db_site      |  | INT NOT NULL  |
| waudit_db_id        |  | INT NOT NULL  |
| waudit_type_code    |  | INT NOT NULL  |
| gmt_audit_posted    |  | DATETIME(10:29) NOT NULL  |
| loc_hr_delta        |  | SHORT   |
| loc_min_delta       |  | SHORT   |
| by_agent_site       | Agent who posted audit record  | INT   |
| by_agent_id         |  | INT   |
| from_sy_agent_site  | System audit record generated from   | INT   |
| from_sy_agent_id    |  | INT   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq, waudit_db_site,<br>waudit_db_id, waudit_type_code,<br>gmt_audit_posted |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq)                                       | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|                     | <a href="#">work_audit_type</a> (waudit_db_site,<br>waudit_db_id, waudit_type_code)  | waudit_db_site,<br>waudit_db_id,<br>waudit_type_code                            |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | from_sy_agent_site,<br>from_sy_agent_id   |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |

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**#201 wo\_step\_sg\_recomm****Description: Associated Segment Recommendations for a Work Order Step**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| work_order_db_site  |  | INT NOT NULL  |
| work_order_db_id    |  | INT NOT NULL  |
| work_order_id       |  | INT NOT NULL  |
| work_ord_step_seq   |  | INT NOT NULL  |
| segment_site        |  | INT NOT NULL  |
| segment_id          |  | INT NOT NULL  |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL  |
| by_agent_site       |  | INT NOT NULL  |
| by_agent_id         |  | INT NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq, segment_site,<br>segment_id, gmt_recommendation,<br>by_agent_site, by_agent_id |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq)   | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|                     | <a href="#">sg_recommendation</a> (segment_site,<br>segment_id, gmt_recommendation,<br>by_agent_site, by_agent_id)   | segment_site, segment_id,<br>gmt_recommendation,<br>by_agent_site, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#202 wo\_step\_as\_recomm****Description: Associated Asset Recommendations for a Work Order Step**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| work_order_db_site  |  | INT NOT NULL  |
| work_order_db_id    |  | INT NOT NULL  |
| work_order_id       |  | INT NOT NULL  |
| work_ord_step_seq   |  | INT NOT NULL  |
| asset_org_site      |  | INT NOT NULL  |
| asset_id            |  | INT NOT NULL  |
| gmt_recommendation  |  | DATETIME(10:29) NOT NULL  |
| by_agent_site       |  | INT NOT NULL  |
| by_agent_id         |  | INT NOT NULL  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record   | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq, asset_org_site,<br>asset_id, gmt_recommendation,<br>by_agent_site, by_agent_id |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq)   | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|                     | <a href="#">as_recommendation</a> (asset_org_site,<br>asset_id, gmt_recommendation,<br>by_agent_site, by_agent_id)   | asset_org_site, asset_id,<br>gmt_recommendation,<br>by_agent_site, by_agent_id  |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#141 wo\_step\_work\_req****Description: Work Requests Related to Work Order Steps**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>  |
|---------------------|--|---|
| work_order_db_site  |  | INT NOT NULL  |
| work_order_db_id    |  | INT NOT NULL  |
| work_order_id       |  | INT NOT NULL  |
| work_ord_step_seq   |  | INT NOT NULL  |
| work_req_db_site    |  | INT NOT NULL  |
| work_req_db_id      |  | INT NOT NULL  |
| work_req_id         |  | INT NOT NULL  |
| name                |  | STRING(0:254)   |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)   |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record   | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record                     | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq, work_req_db_site,<br>work_req_db_id, work_req_id |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>  |
|                     | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq)                 | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|                     | <a href="#">work_request</a> (work_req_db_site,<br>work_req_db_id, work_req_id)  | work_req_db_site,<br>work_req_db_id,<br>work_req_id                             |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id   |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|                     |  |   |

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**#144 sg\_completed\_work****Description: Completed Work Tasks For Segments**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                            |
|---------------------|--|---|
| segment_site        |  | INT NOT NULL                                |
| segment_id          |  | INT NOT NULL                                |
| task_db_site        |  | INT NOT NULL                                |
| task_db_id          |  | INT NOT NULL                                |
| task_type_code      |  | INT NOT NULL                                |
| gmt_completed       | Actual completion time   | DATETIME(10:29) NOT NULL                    |
| cp_loc_hr_delta     | Local completion time hours from GMT   | SHORT                                       |
| cp_loc_min_delta    | Local completion time minutes from GMT   | SHORT                                       |
| gmt_started         | Actual start time  | DATETIME(10:29)                             |
| st_loc_hr_delta     | Local start time hours from GMT  | SHORT                                       |
| st_loc_min_delta    | Local start time minutes from GMT  | SHORT                                       |
| by_agent_site       | Agent accomplishing the work   | INT   |
| by_agent_id         |  | INT   |
| from_sy_agent_site  | System generated from  | INT   |
| from_sy_agent_id    |  | INT   |
| priority_type_code  | 0 = lowest, 10 = highest   | INT   |
| work_order_db_site  | Associated Work Order Step   | INT   |
| work_order_db_id    |  | INT   |
| work_order_id       |  | INT   |
| work_ord_step_seq   |  | INT   |
| abbrev              | User-generated short work description  | STRING(0:254) NOT NULL                      |
| name                | User-generated full work description   | STRING(0:254)                               |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                             |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT                                       |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | segment_site, segment_id,<br>task_db_site, task_db_id,<br>task_type_code, gmt_completed                    |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                            |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id                    |
|                     | <a href="#">work_task_type</a> (task_db_site,<br>task_db_id, task_type_code)                               | task_db_site, task_db_id,<br>task_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id                  |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | from_sy_agent_site,<br>from_sy_agent_id     |

|  |  |   |
|--|--|---|
|  | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code  |
|  | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq) | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|  | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id   |
|  | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|  |  |   |

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**#145 as\_completed\_work****Description: Completed Work Tasks For Assets**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                         |
|---------------------|--|--|
| asset_org_site      |  | INT NOT NULL                             |
| asset_id            |  | INT NOT NULL                             |
| task_db_site        |  | INT NOT NULL                             |
| task_db_id          |  | INT NOT NULL                             |
| task_type_code      |  | INT NOT NULL                             |
| gmt_completed       | Actual completion time   | DATETIME(10:29) NOT NULL                 |
| cp_loc_hr_delta     | Local completion time hours from GMT   | SHORT                                    |
| cp_loc_min_delta    | Local completion time minutes from GMT   | SHORT                                    |
| gmt_started         | Actual start time  | DATETIME(10:29)                          |
| st_loc_hr_delta     | Local start time hours from GMT  | SHORT                                    |
| st_loc_min_delta    | Local start time minutes from GMT  | SHORT                                    |
| by_agent_site       | Agent accomplishing the work   | INT                                      |
| by_agent_id         |  | INT                                      |
| from_sy_agent_site  | System generated from  | INT                                      |
| from_sy_agent_id    |  | INT                                      |
| priority_type_code  | 0 = lowest, 10 = highest   | INT                                      |
| work_order_db_site  | Associated Work Order Step   | INT                                      |
| work_order_db_id    |  | INT                                      |
| work_order_id       |  | INT                                      |
| work_ord_step_seq   |  | INT                                      |
| abbrev              | User-generated short work description  | STRING(0:254) NOT NULL                   |
| name                | User-generated full work description   | STRING(0:254)                            |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                          |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT                                      |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT                                      |
| rstat_type_code     | Row status type code   | SHORT                                    |
|                     |  |  |
| <u>Primary Key</u>  | <u>Column(s)</u>   |  |
|                     | asset_org_site, asset_id, task_db_site, task_db_id, task_type_code, gmt_completed                          |  |
|                     |  |  |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                         |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id                 |
|                     | <a href="#">work_task_type</a> (task_db_site, task_db_id, task_type_code)                                  | task_db_site, task_db_id, task_type_code |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id               |
|                     | <a href="#">agent</a> (org_agent_site, agent_id)   | from_sy_agent_site, from_sy_agent_id     |

|  |  |   |
|--|--|---|
|  | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code  |
|  | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq) | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|  | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id   |
|  | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|  |  |   |

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**#187 ol\_completed\_work****Description: Completed Work Tasks For Ordered Lists**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| ord_list_db_site    |  | INT NOT NULL                                  |
| ord_list_db_id      |  | INT NOT NULL                                  |
| ord_list_id         |  | INT NOT NULL                                  |
| task_db_site        |  | INT NOT NULL                                  |
| task_db_id          |  | INT NOT NULL                                  |
| task_type_code      |  | INT NOT NULL                                  |
| gmt_completed       | Actual completion time   | DATETIME(10:29) NOT NULL                      |
| cp_loc_hr_delta     | Local completion time hours from GMT   | SHORT   |
| cp_loc_min_delta    | Local completion time minutes from GMT   | SHORT   |
| gmt_started         | Actual start time  | DATETIME(10:29)                               |
| st_loc_hr_delta     | Local start time hours from GMT  | SHORT   |
| st_loc_min_delta    | Local start time minutes from GMT  | SHORT   |
| by_agent_site       | Agent accomplishing the work   | INT   |
| by_agent_id         |  | INT   |
| from_sy_agent_site  | System generated from  | INT   |
| from_sy_agent_id    |  | INT   |
| priority_type_code  | 0 = lowest, 10 = highest   | INT   |
| work_order_db_site  | Associated Work Order Step   | INT   |
| work_order_db_id    |  | INT   |
| work_order_id       |  | INT   |
| work_ord_step_seq   |  | INT   |
| abbrev              | User-generated short work description  | STRING(0:254) NOT NULL                        |
| name                | User-generated full work description   | STRING(0:254)                                 |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, task_db_site, task_db_id, task_type_code, gmt_completed     |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">ordered_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id)                               | ord_list_db_site, ord_list_db_id, ord_list_id |
|                     | <a href="#">work_task_type</a> (task_db_site, task_db_id, task_type_code)                                  | task_db_site, task_db_id, task_type_code      |



|  |  |   |
|--|--|---|
|  | <a href="#">agent</a> (org_agent_site, agent_id)   | by_agent_site, by_agent_id  |
|  | <a href="#">agent</a> (org_agent_site, agent_id)   | from_sy_agent_site,<br>from_sy_agent_id   |
|  | <a href="#">priority_type</a> (priority_type_code)   | priority_type_code  |
|  | <a href="#">work_order_step</a> (work_order_db_site,<br>work_order_db_id, work_order_id,<br>work_ord_step_seq) | work_order_db_site,<br>work_order_db_id,<br>work_order_id,<br>work_ord_step_seq |
|  | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site,<br>last_upd_db_id   |
|  | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code   |
|  |  |   |

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**#330 as\_sol\_pack****Description: Associated Solution Packages for an Asset**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| asset_org_site      |  | INT NOT NULL                                  |
| asset_id            |  | INT NOT NULL                                  |
| sol_pack_db_site    |  | INT NOT NULL                                  |
| sol_pack_db_id      |  | INT NOT NULL                                  |
| sol_pack_id         |  | INT NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | asset_org_site, asset_id, sol_pack_db_site, sol_pack_db_id, sol_pack_id                                    |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">asset</a> (asset_org_site, asset_id)   | asset_org_site, asset_id                      |
|                     | <a href="#">solution_package</a> (sol_pack_db_site, sol_pack_db_id, sol_pack_id)                           | sol_pack_db_site, sol_pack_db_id, sol_pack_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#331 sg\_sol\_pack****Description: Associated Solution Packages for a Segment**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| segment_site        |  | INT NOT NULL                                  |
| segment_id          |  | INT NOT NULL                                  |
| sol_pack_db_site    |  | INT NOT NULL                                  |
| sol_pack_db_id      |  | INT NOT NULL                                  |
| sol_pack_id         |  | INT NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | segment_site, segment_id, sol_pack_db_site, sol_pack_db_id, sol_pack_id                                    |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">segment</a> (segment_site, segment_id)   | segment_site, segment_id                      |
|                     | <a href="#">solution_package</a> (sol_pack_db_site, sol_pack_db_id, sol_pack_id)                           | sol_pack_db_site, sol_pack_db_id, sol_pack_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
|                     |  |   |

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**#332 ol\_sol\_pack****Description: Associated Solution Packages for an Ordered List**

| <u>Column</u>       | <u>Description</u>   | <u>Size/Type</u>                              |
|---------------------|--|---|
| ord_list_db_site    |  | INT NOT NULL                                  |
| ord_list_db_id      |  | INT NOT NULL                                  |
| ord_list_id         |  | INT NOT NULL                                  |
| sol_pack_db_site    |  | INT NOT NULL                                  |
| sol_pack_db_id      |  | INT NOT NULL                                  |
| sol_pack_id         |  | INT NOT NULL                                  |
| gmt_last_updated    | GMT time stamp for the last change to this record  | DATETIME(10:29)                               |
| last_upd_db_site    | Site code (from the site table) for the site making the last change to this record                         | INT   |
| last_upd_db_id      | Database Id of the database in which this record was resident when the last change was made to this record | INT   |
| rstat_type_code     | Row status type code   | SHORT   |
|                     |  |   |
| <u>Primary Key</u>  | <u>Column(s)</u>   |   |
|                     | ord_list_db_site, ord_list_db_id, ord_list_id, sol_pack_db_site, sol_pack_db_id, sol_pack_id               |   |
|                     |  |   |
| <u>Foreign Keys</u> | <u>Foreign Table (Column(s))</u>   | <u>Column(s)</u>                              |
|                     | <a href="#">ordered_list</a> (ord_list_db_site, ord_list_db_id, ord_list_id)                               | ord_list_db_site, ord_list_db_id, ord_list_id |
|                     | <a href="#">solution_package</a> (sol_pack_db_site, sol_pack_db_id, sol_pack_id)                           | sol_pack_db_site, sol_pack_db_id, sol_pack_id |
|                     | <a href="#">site_database</a> (db_site, db_id)   | last_upd_db_site, last_upd_db_id              |
|                     | <a href="#">row_status_type</a> (rstat_type_cod)   | rstat_type_code                               |
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| 34             | as_chr_dat_type  | Asset Character Data Type                           | 27       |
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