

Common Relational Information Schema (CRIS) V3.0

Modifications From V2.2

20-May-2004

Data Types

Data types are defined using the following XML primitive data types:

<u>Data Type</u>	<u>Description</u>
USHORT	Short unsigned integer; 16 bits (0 to 65,535)
UINT	Long unsigned integer; 32 bits (0 to 4,294,967,295)
DATETIME(19:29)	<p>Date/time in the following ISO 8601 variable length character form: YYYY-MM-DDThh:mm:ss{.fffffffff}</p> <p>where:</p> <ul style="list-style-type: none"> 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) (am/pm NOT allowed) T = literal "T" character mm = two digits of minute (00 through 59) ss = two digits of second (00 through 59) fffffffff = represents an optional decimal fraction of a second to the billionth of a second <p>All characters through the second must be specified. Negative DATETIME is not supported. No timezone suffixes in the ISO 8601 specification, such as "Z" (representing Coordinated Universal Time (UTC), are supported 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(19:29) 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 ("-").</p>

#1 enterprise_type (New Table)

Description: Enterprise Table

This table stores the various types of enterprises.

<u>Column</u>	<u>Description</u>	<u>Size/Type</u>
ent_db_site		STRING(16) NOT NULL
ent_db_id		UINT NOT NULL
ent_type_code		UINT NOT NULL
name		STRING(0:254)
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	ent_db_site, ent_db_id, ent_type_code	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

MIMOSA Entries

'0000000000000000', 2, 1, 'Sole Proprietor'
 '0000000000000000', 2, 2, 'Partnership'
 '0000000000000000', 2, 3, 'For-profit Corporation'
 '0000000000000000', 2, 4, 'Not-for-profit Corporation'
 '0000000000000000', 2, 5, 'Governmental Organization'

#2 enterprise (New Table)

Description: Enterprise Table

An enterprise is the corporate level of an organization, or the top organizational structure of a non-profit or military body. An enterprise is composed of many sites. The enterprise uniquely identifies the sites it manages. The enterprise_id GUID is a 4-byte, non-negative integer assigned by MIMOSA. Normally, MIMOSA will issue one enterprise GUID per corporation/organization. For some organizations, multiple enterprise GUIDs may be requested. In addition, MIMOSA will also assign the enterprise with a globally-unique, alpha-numeric user_tag_ident value. This can be used in conjunction with the USER_TAG_IDENT column in the site table to form a globally unique text string. A representative from the registration authority for an organization should e-mail the MIMOSA Enterprise Registrar at info@mimosa.org with the name of the organization, requested USER_TAG_IDENT point of contact name, title, phone number, and e-mail address. The MIMOSA Enterprise Registrar will then assign the enterprise GUID and enterprise USER_TAG_IDENT and return this non-negative integer and associated 8-byte string to the point of contact.

MIMOSA is the enterprise with a GUID of 0 and user_tag_id value of "MIMOSA".

Column	Description	Size/Type
enterprise_id	Globally unique enterprise GUID -- 4-byte non-negative integer assigned by MIMOSA.	UINT NOT NULL
ent_db_site	Enterprise type FK column #1	UINT NOT NULL
ent_db_id	Enterprise type FK column #2	UINT NOT NULL
ent_type_code	Enterprise type FK column #3	UINT NOT NULL
user_tag_ident	Globally unique enterprise short identifier assigned by MIMOSA.	STRING(1:254) NOT NULL
name	Optional long description of the enterprise	STRING(0:254)
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	enterprise_id	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	enterprise_type (ent_db_site, ent_db_id, ent_type_code)	ent_db_site, ent_db_id, ent_type_code
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

#3 site_type (New Table)

Description: Site Table

This table stores the various types of sites including facilities, plants, and fleets.

<u>Column</u>	<u>Description</u>	<u>Size/Type</u>
st_db_site		STRING(16) NOT NULL
st_db_id		UINT NOT NULL
st_type_code		UINT NOT NULL
name		STRING(0:254)
mobile_yn	Mobile platform flag	STRING(1) NOT NULL
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	st_db_site, st_db_id, st_type_code	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code
<u>Check</u>	<u>Column</u>	<u>Value Range</u>
	mobile_yn	'Y','N'

MIMOSA Entries

'0000000000000000', 2, 1, 'Facility', 'N'
 '0000000000000000', 2, 2, 'Office Building', 'N'
 '0000000000000000', 2, 3, 'Industrial Plant', 'N'
 '0000000000000000', 2, 4, 'Mobile Object', 'Y'
 '0000000000000000', 2, 5, 'Vehicle', 'Y'

#4 site_type_child (New Table)

Description: Site Type Child Table

This table shows the parent-child relationship structures of the logical taxonomy of site types – from the general to more specific. This table will support various site classification schemes as desired by different databases.

<u>Column</u>	<u>Description</u>	<u>Size/Type</u>
st_db_site		STRING(16) NOT NULL
st_db_id		UINT NOT NULL
st_type_code		UINT NOT NULL
child_st_db_site		STRING(16) NOT NULL
child_st_db_id		UINT NOT NULL
child_st_type_code		UINT NOT NULL
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	st_db_site, st_db_id, st_type_code, child_st_db_site, child_st_db_id, child_st_type_code	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	site_type (st_db_site, st_db_id, st_type_code)	st_db_site, st_db_id, st_type_code
	site_type (st_db_site, st_db_id, st_type_code)	child_st_db_site, child_st_db_id, child_st_type_code
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

MIMOSA Entries

'0000000000000000', 2, 1, '0000000000000000', 2, 2
 '0000000000000000', 2, 1, '0000000000000000', 2, 3
 '0000000000000000', 2, 4, '0000000000000000', 2, 5

#13 site (Revised Table)

Description: Site/Mobile Platform Table

A “site” is what an enterprise defines as an entity which can be decomposed into segments and which generates new assets, agents, databases, and measurement locations. A given enterprise can contain many sites. A site can contain many segments. For facility applications, the “site” normally represents a building. For industrial applications, this entity normally represents a physical plant. For fleet applications, this entity normally represents a “mobile platform”, which could be an aircraft carrier or a tank. Each enterprise must uniquely identify its sites by a 4-byte, non-negative `site_id` integer to allow multiple sites to utilize the MIMOSA standards without fear of duplication when combining information at the enterprise level. The `site_id` is a 4-byte, non-negative integer. Each enterprise is free to assign `site_id`'s in the range from 0 – 4,294,967,295 (Hex “00000000” – “FFFFFFFF”). Once this assignment has been made, the number should not be changed.

CRIS V3 combines the `enterprise_id` GUID (also 4-bytes) and the `site_id` into a fixed-length 16-character MIMOSA **site_code**. This `site_code` is composed of these two 4-byte non-negative integers which are converted into their hexadecimal format (resulting in 8 characters per integer) and then concatenated into a fixed-length 16-character string.

The site's `user_tag_ident` attribute is the user identification tag which is an alphanumeric string which should be unique for each site in an enterprise.

The **template_yn** column is used to define whether or not a particular Site instance is to be used as a template. Templates are like "models" of sites which allows you to predefine characteristics of a Site, including its Segments, which software can utilize when instantiating a new Site which matches that template.

<u>Column</u>	<u>Description</u>	<u>Size/Type</u>
site_code	The site_code combines the enterprise_id GUID and site_id (both 4-byte integers) into a globally unique, fixed-length 16-character string. The first 8-characters represents the hex value of the 4-byte non-negative enterprise_id integer. The second 8-characters represent the hex value of the 4-byte non-negative site_id integer assigned by the enterprise registration authority.	STRING(16) NOT NULL
enterprise_id	Foreign key to the Enterprise GUID for this site	UINT NOT NULL
site_id	4-byte non-negative integer unique inside the enterprise assigned by the enterprise for each site	UINT NOT NULL
st_db_site	Site type FK column #1	UINT NOT NULL
st_db_id	Site type FK column #2	UINT NOT NULL
st_type_code	Site type FK column #3	UINT NOT NULL
user_tag_ident	Site/Mobile Platform short identifier for	STRING(1:254) NOT NULL

	end-users. This is the alpha-numeric designation for applications to use to display to the end-users. For vehicles, this is normally the Vehicle ID Number (VIN). It is recommended that this identifier be unique for a given enterprise.	
name	Site/Mobile Platform description – optional long description of the site or mobile platform	STRING(0:254)
duns_number	D-U-N-S number for the site, where relevant	UINT
template_yn	If set to 'Y', identifies that a particular Site entry is a template. Templates are like "models" of sites which allow one to predefine characteristics of a Site, including its Segments, which software can utilize when instantiating a new Site which matches that template.	STRING(1) NOT NULL
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	site_code	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	enterprise (enterprise_id)	enterprise_id
	site_type (st_db_site, st_db_id, st_type_code)	st_db_site, st_db_id, st_type_code
	row_status_type (rstat_type_cod)	rstat_type_code
<u>Check</u>	<u>Column</u>	<u>Value Range</u>
	mobile_yn	'Y','N'

MIMOSA Entries (New entries are bolded)

"0000000000000000", 0, 0, "0000000000000000", 2, 2, "MGMT OFFICE", "Alabama Management Office", "N"

NOTE: All other CRIS tables which have a foreign key reference to site_code in the site table must be updated to be fixed-length STRING(16) data type.

#15 site_database (Revised Table)

Description: Site Database Table

This table holds information about the MIMOSA databases located at the site. It requires a unique db_id to exist for each database.

<u>Column</u>	<u>Description</u>	<u>Size/Type</u>
db_site	Unique identifier for each business location or a MIMOSA-assigned number.	STRING(16) NOT NULL
db_id	Unique index for this database on the designated site	UINT NOT NULL
user_tag_ident	Short, user-defined database identifier	STRING(0:254) NOT NULL
Name	Optional database description	STRING(0:254)
mf_db_site	Unique identifier for each business location or a MIMOSA-assigned number of the vendor supplying the database	STRING(16)
mf_db_id	Unique index for the database at the vendor's site	UINT
mf_duns_code	Unique D-U-N-S identifier for each business location or a MIMOSA-assigned number of the vendor supplying the database	UINT
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<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>
	site (site_code)	db_site
	manufacturer (mf_db_site, mf_db_id, mf_duns_code)	mf_db_site, mf_db_id, mf_duns_code
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

MIMOSA Entries (New entries are bolded)

"0000000000000000", 0, "MIMOSA Reference Database 0"

"0000000000000000", 1, "MIMOSA Reference Database 1"

"0000000000000000" **2**, "MIMOSA Reference Database 2"

#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)	STRING(16) NOT NULL
agent_id		UINT NOT NULL
agent_db_site		STRING(16) NOT NULL
agent_db_id		UINT NOT NULL
agent_type_code		UINT NOT NULL
user_tag_ident	Short user identifier for the agent	STRING (0:254) NOT NULL
name	Long description of the agent	STRING(0:254)
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<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>
	site_database (db_site, db_id)	org_agent_site, agent_id
	agent_type (agent_db_site, agent_db_id, agent_type_code)	agent_db_site, agent_db_id, agent_type_code
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

#5 mim_access_type (New Table)

Description: MIMOSA OSA-EAI Server Applications Access Type Table

This table stores the various types of access (read-only, write-only, read/write) which MIMOSA OSA-EAI server applications can support.

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

<u>Column</u>	<u>Description</u>	<u>Size/Type</u>
acc_type_code		UINT NOT NULL
name		STRING(0:254)
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	acc_type_code	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

MIMOSA Entries

- 1, 'Read-Only'
- 2, 'Write-Only'
- 3, 'Read/Write'

#216 mim_support_type (Revised table entries)

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		UINT 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(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<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>
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

MIMOSA Entries (New entries are bolded)

- 1, "File", "Tech-File Export"
- 3, "SQL", "Tech-SQL Server"
- 4, "XML", "Tech-XML Server"**
- 6, "Web", "Tech-Web HTTP Server"

#327 mim_interface_type (Revised Table)

Description: MIMOSA Interface Type

<u>Column</u>	<u>Description</u>	<u>Size/Type</u>
interf_type_code		UINT NOT NULL
dcat_type_code		UINT NOT NULL
supp_type_code		UINT NOT NULL
func_type_code		UINT NOT NULL
tech_type_code		UINT NOT NULL
acc_type_code		UINT NOT NULL
support_level		USHORT NOT NULL
version_supported		USHORT NOT NULL
subversion_supp		USHORT NOT NULL
name		STRING(0:254) NOT NULL
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	UINT
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<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>
	mim_data_cat_type (dcat_type_code)	dcat_type_code
	mim_support_type (supp_type_code)	supp_type_code
	mim_func_type (func_type_code)	func_type_code
	mim_tech_type (tech_type_code)	tech_type_code
	mim_access_type (acc_type_code)	acc_type_code
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

MIMOSA Entries (New entries are bolded)

922011130,9,2, 2, 01, 1, 1, 3, 0, "TREND-Doc Read-Only, Support Level 1 V3.0 Producer"
 922021130,9,2, 2, 02, 1, 1, 3, 0, "DYN-Doc Read-Only, Support Level 1 V3.0 Producer"
 922031130,9,2, 2, 03, 1, 1, 3, 0, "SAMPLE-Doc Read-Only, Support Level 1 V3.0 Producer"
 922041130,9,2, 2, 04, 1, 1, 3, 0, "BLOB-Doc Read-Only, Support Level 1 V3.0 Producer"
 922051130,9,2, 2, 05, 1, 1, 3, 0, "REG-Doc Read-Only, Support Level 1 V3.0 Producer"
 922061130,9,2, 2, 06, 1, 1, 3, 0, "DIAG-Doc Read-Only, Support Level 1 V3.0 Producer"
 922071130,9,2, 2, 07, 1, 1, 3, 0, "REL-Doc Read-Only, Support Level 1 V3.0 Producer"
 922081130,9,2, 2, 08, 1, 1, 3, 0, "WORK-Doc Read-Only, Support Level 1 V3.0 Producer"

922011230,9,2, 2, 01, 1, 2, 3, 0, "TREND-Doc Read-Only, Support Level 2 V3.0 Producer"
 922021230,9,2, 2, 02, 1, 2, 3, 0, "DYN-Doc Read-Only, Support Level 2 V3.0 Producer"

922031230,9,2, 2, 03, 1, 2, 3, 0, "SAMPLE-Doc Read-Only, Support Level 2 V3.0 Producer"
 922041230,9,2, 2, 04, 1, 2, 3, 0, "BLOB-Doc Read-Only, Support Level 2 V3.0 Producer"
 922051230,9,2, 2, 05, 1, 2, 3, 0, "REG-Doc Read-Only, Support Level 2 V3.0 Producer"
 922061230,9,2, 2, 06, 1, 2, 3, 0, "DIAG-Doc Read-Only, Support Level 2 V3.0 Producer"
 922071230,9,2, 2, 07, 1, 2, 3, 0, "REL-Doc Read-Only, Support Level 2 V3.0 Producer"
 922081230,9,2, 2, 08, 1, 2, 3, 0, "WORK-Doc Read-Only, Support Level 2 V3.0 Producer"

912011130,9,1, 2, 01, 1, 1, 3, 0, "TREND-File Read-Only, Support Level 1 V3.0 Export"
 912021130,9,1, 2, 02, 1, 1, 3, 0, "DYN-File Read-Only, Support Level 1 V3.0 Export"
 912031130,9,1, 2, 03, 1, 1, 3, 0, "SAMPLE-File Read-Only, Support Level 1 V3.0 Export"
 912041130,9,1, 2, 04, 1, 1, 3, 0, "BLOB-File Read-Only, Support Level 1 V3.0 Export"
 912051130,9,1, 2, 05, 1, 1, 3, 0, "REG-File Read-Only, Support Level 1 V3.0 Export"
 912061130,9,1, 2, 06, 1, 1, 3, 0, "DIAG-File Read-Only, Support Level 1 V3.0 Export"
 912071130,9,1, 2, 07, 1, 1, 3, 0, "REL-File Read-Only, Support Level 1 V3.0 Export"
 912081130,9,1, 2, 08, 1, 1, 3, 0, "WORK-File Read-Only, Support Level 1 V3.0 Export"

912011230,9,1, 2, 01, 1, 2, 3, 0, "TREND-File Read-Only, Support Level 2 V3.0 Export"
 912021230,9,1, 2, 02, 1, 2, 3, 0, "DYN-File Read-Only, Support Level 2 V3.0 Export"
 912031230,9,1, 2, 03, 1, 2, 3, 0, "SAMPLE-File Read-Only, Support Level 2 V3.0 Export"
 912041230,9,1, 2, 04, 1, 2, 3, 0, "BLOB-File Read-Only, Support Level 2 V3.0 Export"
 912051230,9,1, 2, 05, 1, 2, 3, 0, "REG-File Read-Only, Support Level 2 V3.0 Export"
 912061230,9,1, 2, 06, 1, 2, 3, 0, "DIAG-File Read-Only, Support Level 2 V3.0 Export"
 912071230,9,1, 2, 07, 1, 2, 3, 0, "REL-File Read-Only, Support Level 2 V3.0 Export"
 912081230,9,1, 2, 08, 1, 2, 3, 0, "WORK-File Read-Only, Support Level 2 V3.0 Export"

942011130,9,4, 2, 01, 1, 1, 3, 0, "TREND-XML Read-Only, Support Level 1 V3.0 Server"
 942021130,9,4, 2, 02, 1, 1, 3, 0, "DYN-XML Read-Only, Support Level 1 V3.0 Server"
 942031130,9,4, 2, 03, 1, 1, 3, 0, "SAMPLE-XML Read-Only, Support Level 1 V3.0 Server"
 942041130,9,4, 2, 04, 1, 1, 3, 0, "BLOB-XML Read-Only, Support Level 1 V3.0 Server"
 942051130,9,4, 2, 05, 1, 1, 3, 0, "REG-XML Read-Only, Support Level 1 V3.0 Server"
 942061130,9,4, 2, 06, 1, 1, 3, 0, "DIAG-XML Read-Only, Support Level 1 V3.0 Server"
 942071130,9,4, 2, 07, 1, 1, 3, 0, "REL-XML Read-Only, Support Level 1 V3.0 Server"
 942081130,9,4, 2, 08, 1, 1, 3, 0, "WORK-XML Read-Only, Support Level 1 V3.0 Server"

942012130,9,4, 2, 01, 2, 1, 3, 0, "TREND-XML Write-Only, Support Level 1 V3.0 Server"
 942022130,9,4, 2, 02, 2, 1, 3, 0, "DYN-XML Write-Only, Support Level 1 V3.0 Server"
 942032130,9,4, 2, 03, 2, 1, 3, 0, "SAMPLE-XML Write-Only, Support Level 1 V3.0 Server"
 942042130,9,4, 2, 04, 2, 1, 3, 0, "BLOB-XML Write-Only, Support Level 1 V3.0 Server"
 942082130,9,4, 2, 08, 2, 1, 3, 0, "WORK-XML Write-Only, Support Level 1 V3.0 Server"

942013130,9,4, 2, 01, 3, 1, 3, 0, "TREND-XML Read/Write, Support Level 1 V3.0 Server"
 942023130,9,4, 2, 02, 3, 1, 3, 0, "DYN-XML Read/Write, Support Level 1 V3.0 Server"
 942033130,9,4, 2, 03, 3, 1, 3, 0, "SAMPLE-XML Read/Write, Support Level 1 V3.0 Server"
 942043130,9,4, 2, 04, 3, 1, 3, 0, "BLOB-XML Read/Write, Support Level 1 V3.0 Server"
 942083130,9,4, 2, 08, 3, 1, 3, 0, "WORK-XML Read/Write, Support Level 1 V3.0 Server"

942011230,9,4, 2, 01, 1, 2, 3, 0, "TREND-XML Read-Only, Support Level 2 V3.0 Server"
 942021230,9,4, 2, 02, 1, 2, 3, 0, "DYN-XML Read-Only, Support Level 2 V3.0 Server"
 942031230,9,4, 2, 03, 1, 2, 3, 0, "SAMPLE-XML Read-Only, Support Level 2 V3.0 Server"
 942041230,9,4, 2, 04, 1, 2, 3, 0, "BLOB-XML Read-Only, Support Level 2 V3.0 Server"
 942051230,9,4, 2, 05, 1, 2, 3, 0, "REG-XML Read-Only, Support Level 2 V3.0 Server"
 942061230,9,4, 2, 06, 1, 2, 3, 0, "DIAG-XML Read-Only, Support Level 2 V3.0 Server"
 942071230,9,4, 2, 07, 1, 2, 3, 0, "REL-XML Read-Only, Support Level 2 V3.0 Server"
 942081230,9,4, 2, 08, 1, 2, 3, 0, "WORK-XML Read-Only, Support Level 2 V3.0 Server"

942012230,9,4, 2, 01, 2, 2, 3, 0, "TREND-XML Write-Only, Support Level 2 V3.0 Server"
 942022230,9,4, 2, 02, 2, 2, 3, 0, "DYN-XML Write-Only, Support Level 2 V3.0 Server"

942032230,9,4, 2, 03, 2, 2, 3, 0, "SAMPLE-XML Write-Only, Support Level 2 V3.0 Server"
 942042230,9,4, 2, 04, 2, 2, 3, 0, "BLOB-XML Write-Only, Support Level 2 V3.0 Server"
 942082230,9,4, 2, 08, 2, 2, 3, 0, "WORK-XML Write-Only, Support Level 2 V3.0 Server"

942013230,9,4, 2, 01, 3, 2, 3, 0, "TREND-XML Read/Write, Support Level 2 V3.0 Server"
 942023230,9,4, 2, 02, 3, 2, 3, 0, "DYN-XML Read/Write, Support Level 2 V3.0 Server"
 942033230,9,4, 2, 03, 3, 2, 3, 0, "SAMPLE-XML Read/Write, Support Level 2 V3.0 Server"
 942043230,9,4, 2, 04, 3, 2, 3, 0, "BLOB-XML Read/Write, Support Level 2 V3.0 Server"
 942083230,9,4, 2, 08, 3, 2, 3, 0, "WORK-XML Read/Write, Support Level 2 V3.0 Server"

962011130,9,6, 2, 01, 1, 1, 3, 0, "TREND-Web Read-Only, Support Level 1 V3.0 Server"
 962021130,9,6, 2, 02, 1, 1, 3, 0, "DYN-Web Read-Only, Support Level 1 V3.0 Server"
 962031130,9,6, 2, 03, 1, 1, 3, 0, "SAMPLE-Web Read-Only, Support Level 1 V3.0 Server"
 962041130,9,6, 2, 04, 1, 1, 3, 0, "BLOB-Web Read-Only, Support Level 1 V3.0 Server"
 962051130,9,6, 2, 05, 1, 1, 3, 0, "REG-Web Read-Only, Support Level 1 V3.0 Server"
 962061130,9,6, 2, 06, 1, 1, 3, 0, "DIAG-Web Read-Only, Support Level 1 V3.0 Server"
 962071130,9,6, 2, 07, 1, 1, 3, 0, "REL-Web Read-Only, Support Level 1 V3.0 Server"
 962081130,9,6, 2, 08, 1, 1, 3, 0, "WORK-Web Read-Only, Support Level 1 V3.0 Server"

962012130,9,6, 2, 01, 2, 1, 3, 0, "TREND-Web Write-Only, Support Level 1 V3.0 Server"
 962022130,9,6, 2, 02, 2, 1, 3, 0, "DYN-Web Write-Only, Support Level 1 V3.0 Server"
 962032130,9,6, 2, 03, 2, 1, 3, 0, "SAMPLE-Web Write-Only, Support Level 1 V3.0 Server"
 962042130,9,6, 2, 04, 2, 1, 3, 0, "BLOB-Web Write-Only, Support Level 1 V3.0 Server"
 962082130,9,6, 2, 08, 2, 1, 3, 0, "WORK-Web Write-Only, Support Level 1 V3.0 Server"

962013130,9,6, 2, 01, 3, 1, 3, 0, "TREND-Web Read/Write, Support Level 1 V3.0 Server"
 962023130,9,6, 2, 02, 3, 1, 3, 0, "DYN-Web Read/Write, Support Level 1 V3.0 Server"
 962033130,9,6, 2, 03, 3, 1, 3, 0, "SAMPLE-Web Read/Write, Support Level 1 V3.0 Server"
 962043130,9,6, 2, 04, 3, 1, 3, 0, "BLOB-Web Read/Write, Support Level 1 V3.0 Server"
 962083130,9,6, 2, 08, 3, 1, 3, 0, "WORK-Web Read/Write, Support Level 1 V3.0 Server"

962011230,9,6, 2, 01, 1, 2, 3, 0, "TREND-Web Read-Only, Support Level 2 V3.0 Server"
 962021230,9,6, 2, 02, 1, 2, 3, 0, "DYN-Web Read-Only, Support Level 2 V3.0 Server"
 962031230,9,6, 2, 03, 1, 2, 3, 0, "SAMPLE-Web Read-Only, Support Level 2 V3.0 Server"
 962041230,9,6, 2, 04, 1, 2, 3, 0, "BLOB-Web Read-Only, Support Level 2 V3.0 Server"
 962051230,9,6, 2, 05, 1, 2, 3, 0, "REG-Web Read-Only, Support Level 2 V3.0 Server"
 962061230,9,6, 2, 06, 1, 2, 3, 0, "DIAG-Web Read-Only, Support Level 2 V3.0 Server"
 962071230,9,6, 2, 07, 1, 2, 3, 0, "REL-Web Read-Only, Support Level 2 V3.0 Server"
 962081230,9,6, 2, 08, 1, 2, 3, 0, "WORK-Web Read-Only, Support Level 2 V3.0 Server"

962012230,9,6, 2, 01, 2, 2, 3, 0, "TREND-Web Write-Only, Support Level 2 V3.0 Server"
 962022230,9,6, 2, 02, 2, 2, 3, 0, "DYN-Web Write-Only, Support Level 2 V3.0 Server"
 962032230,9,6, 2, 03, 2, 2, 3, 0, "SAMPLE-Web Write-Only, Support Level 2 V3.0 Server"
 962042230,9,6, 2, 04, 2, 2, 3, 0, "BLOB-Web Write-Only, Support Level 2 V3.0 Server"
 962082230,9,6, 2, 08, 2, 2, 3, 0, "WORK-Web Write-Only, Support Level 2 V3.0 Server"

962013230,9,6, 2, 01, 3, 2, 3, 0, "TREND-Web Read/Write, Support Level 2 V3.0 Server"
 962023230,9,6, 2, 02, 3, 2, 3, 0, "DYN-Web Read/Write, Support Level 2 V3.0 Server"
 962033230,9,6, 2, 03, 3, 2, 3, 0, "SAMPLE-Web Read/Write, Support Level 2 V3.0 Server"
 962043230,9,6, 2, 04, 3, 2, 3, 0, "BLOB-Web Read/Write, Support Level 2 V3.0 Server"
 962083230,9,6, 2, 08, 3, 2, 3, 0, "WORK-Web Read/Write, Support Level 2 V3.0 Server"

#6 request (New Table)

Description: Request Table

Holds agents' requisitions for work, materials, tools, and/or labor. CCOM V3.0 and CRIS V3.0 support requests for work for segment, assets, and ordered lists. Future enhancements will support requests for materials, tools, and labor.

<u>Column</u>	<u>Description</u>	<u>Size/Type</u>
req_db_site		STRING(16) NOT NULL
req_db_id		UINT NOT NULL
request_id		UINT NOT NULL
gmt_created		DATETIME(19:29) NOT NULL
loc_hr_delta		SHORT
loc_min_delta		SHORT
by_agent_site		STRING(16) NOT NULL
by_agent_id		UINT NOT NULL
from_sy_agent_site		STRING(16)
from_sy_agent_id		UINT
priority_type_code		UINT
user_tag_ident	Request identifier/number	STRING(0:254) NOT NULL
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	req_db_site, req_db_id, request_id	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	site_database (db_site, db_id)	req_db_site, req_db_id
	agent (org_agent_site, agent_id)	by_agent_site, by_agent_id
	agent (org_agent_site, agent_id)	from_sy_agent_site, from_sy_agent_id
	priority_type (priority_type_code)	priority_type_code
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

#134 sg_req_for_work (Revised Table)

Description: Request for Work for Segment (Subset of Request table)

Column	Description	Size/Type
req_db_site		STRING(16) NOT NULL
req_db_id		UINT NOT NULL
request_id		UINT NOT NULL
segment_site		STRING(16) NOT NULL
segment_id		UINT NOT NULL
wm_type_db_site		STRING(16) NOT NULL
wm_type_db_id		UINT NOT NULL
wm_type_code		UINT NOT NULL
task_db_site		STRING(16) NOT NULL
task_db_id		UINT NOT NULL
task_type_code		UINT NOT NULL
start_before_gmt	Request for action to begin before this time	DATETIME(19:29)
end_before_gmt	Request for action to end before this time	DATETIME(19:29)
start_after_gmt	Request for action to begin after this time	DATETIME(19:29)
end_after_gmt	Request for action to end after this time	DATETIME(19:29)
repeat_interval	Time interval to re-submit time-based actions	UINT
int_eu_db_site	Time interval eng unit reference	STRING(16)
int_eu_db_id		UINT
int_eu_type_code		UINT
to_agent_site	Agent to receive the request for work	STRING(16)
to_agent_id		UINT
sol_pack_db_site	Associated solution package	STRING(16)
sol_pack_db_id		UINT
sol_pack_id		UINT
rec_segment_site	Associated segment recommendation	STRING(16)
rec_segment_id		UINT
rec_gmt_recomm		DATETIME(19:29)
rec_by_agent_site		STRING(16)
rec_by_agent_id		UINT
work_req_db_site	Associated Work Request in local or remote database	STRING(16)
work_req_db_id		UINT
work_req_id		UINT
name	User description	STRING(0:254)
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which this record was resident when the last	UINT

	change was made to this record	
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	req_db_site, req_db_id, request_id	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	request (req_db_site, req_db_id, request_id)	req_db_site, req_db_id, request_id
	segment (segment_site, segment_id)	segment_site, segment_id
	work_manage_type (wm_type_db_site, wm_type_db_id, wm_type_code)	wm_type_db_site, wm_type_db_id, wm_type_code
	work_task_type (task_db_site, task_db_id, task_type_code)	task_db_site, task_db_id, task_type_code
	eng_unit_type (eu_db_site, eu_db_id, eu_type_code)	int_eu_db_site, int_eu_db_id, int_eu_type_code
	agent (org_agent_site, agent_id)	to_agent_site, to_agent_id
	solution_package (sol_pack_db_site, sol_pack_db_id, sol_pack_id)	sol_pack_db_site, sol_pack_db_id, sol_pack_id
	sg_recommendation (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
	work_request (work_req_db_site, work_req_db_id, work_req_id)	work_req_db_site, work_req_db_id, work_req_id
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

#135 as_req_for_work (Revised Table)

Description: Request for Work for Asset (Subset of Request table)

Column	Description	Size/Type
req_db_site		STRING(16) NOT NULL
req_db_id		UINT NOT NULL
request_id		UINT NOT NULL
asset_org_site		STRING(16) NOT NULL
asset_id		UINT NOT NULL
wm_type_db_site		STRING(16) NOT NULL
wm_type_db_id		UINT NOT NULL
wm_type_code		UINT NOT NULL
task_db_site		STRING(16) NOT NULL
task_db_id		UINT NOT NULL
task_type_code		UINT NOT NULL
start_before_gmt	Request for action to begin before this time	DATETIME(19:29)
end_before_gmt	Request for action to end before this time	DATETIME(19:29)
start_after_gmt	Request for action to begin after this time	DATETIME(19:29)
end_after_gmt	Request for action to end after this time	DATETIME(19:29)
repeat_interval	Time interval to re-submit time-based actions	UINT
int_eu_db_site	Time interval eng unit reference	STRING(16)
int_eu_db_id		UINT
int_eu_type_code		UINT
to_agent_site	Agent to receive the request for work	STRING(16)
to_agent_id		UINT
sol_pack_db_site	Associated solution package	STRING(16)
sol_pack_db_id		UINT
sol_pack_id		UINT
rec_asset_org_site	Associated asset recommendation	STRING(16)
rec_asset_id		UINT
rec_gmt_recomm		DATETIME(19:29)
rec_by_agent_site		STRING(16)
rec_by_agent_id		UINT
work_req_db_site	Associated Work Request in local or remote database	STRING(16)
work_req_db_id		UINT
work_req_id		UINT
name	User description	STRING(0:254)
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the site making the last change to this record	STRING(16)
last_upd_db_id	Database Id of the database in which	UINT

	this record was resident when the last change was made to this record	
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	req_db_site, req_db_id, request_id	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	request (req_db_site, req_db_id, request_id)	req_db_site, req_db_id, request_id
	asset (asset_org_site, asset_id)	asset_org_site, asset_id
	work_manage_type (wm_type_db_site, wm_type_db_id, wm_type_code)	wm_type_db_site, wm_type_db_id, wm_type_code
	work_task_type (task_db_site, task_db_id, task_type_code)	task_db_site, task_db_id, task_type_code
	eng_unit_type (eu_db_site, eu_db_id, eu_type_code)	int_eu_db_site, int_eu_db_id, int_eu_type_code
	agent (org_agent_site, agent_id)	to_agent_site, to_agent_id
	solution_package (sol_pack_db_site, sol_pack_db_id, sol_pack_id)	sol_pack_db_site, sol_pack_db_id, sol_pack_id
	as_recommendation (asset_org_site, asset_id, gmt_recommendation, by_agent_site, by_agent_id)	rec_asset_site, rec_asset_id, rec_gmt_recomm, rec_by_agent_site, rec_by_agent_id
	work_request (work_req_db_site, work_req_db_id, work_req_id)	work_req_db_site, work_req_db_id, work_req_id
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code

#148 ol_req_for_work (Revised Table)

Description: Request for Work for Ordered List / Route (Subset of Request table)

Column	Description	Size/Type
req_db_site		STRING(16) NOT NULL
req_db_id		UINT NOT NULL
request_id		UINT NOT NULL
ord_list_db_site		STRING(16) NOT NULL
ord_list_db_id		UINT NOT NULL
ord_list_id		UINT NOT NULL
wm_type_db_site		STRING(16) NOT NULL
wm_type_db_id		UINT NOT NULL
wm_type_code		UINT NOT NULL
task_db_site		STRING(16) NOT NULL
task_db_id		UINT NOT NULL
task_type_code		UINT NOT NULL
start_before_gmt	Request for action to begin before this time	DATETIME(19:29)
end_before_gmt	Request for action to end before this time	DATETIME(19:29)
start_after_gmt	Request for action to begin after this time	DATETIME(19:29)
end_after_gmt	Request for action to end after this time	DATETIME(19:29)
repeat_interval	Time interval to re-submit time-based actions	UINT
int_eu_db_site	Time interval eng unit reference	STRING(16)
int_eu_db_id		UINT
int_eu_type_code		UINT
to_agent_site	Agent to receive the request for work	STRING(16)
to_agent_id		UINT
sol_pack_db_site	Associated solution package	STRING(16)
sol_pack_db_id		UINT
sol_pack_id		UINT
rec_ord_db_site	Associated ordered list recommendation	STRING(16)
rec_ord_db_id		UINT
rec_ord_list		UINT
rec_gmt_recomm		DATETIME(19:29)
rec_by_agent_site		STRING(16)
rec_by_agent_id		UINT
work_req_db_site	Associated Work Request in local or remote database	STRING(16)
work_req_db_id		UINT
work_req_id		UINT
name	User description	STRING(0:254)
gmt_last_updated	GMT time stamp for the last change to this record	DATETIME(19:29)
last_upd_db_site	Site code (from the site table) for the	STRING(16)

	site making the last change to this record	
last_upd_db_id	Database Id of the database in which this record was resident when the last change was made to this record	UINT
rstat_type_code	Row status type code	USHORT
<u>Primary Key</u>	<u>Column(s)</u>	
	req_db_site, req_db_id, request_id	
<u>Foreign Keys</u>	<u>Foreign Table (Column(s))</u>	<u>Column(s)</u>
	request (req_db_site, req_db_id, request_id)	req_db_site, req_db_id, request_id
	ordered_list (ord_list_db_site, ord_list_db_id, ord_list_id)	ord_list_db_site, ord_list_db_id, ord_list_id
	work_manage_type (wm_type_db_site, wm_type_db_id, wm_type_code)	wm_type_db_site, wm_type_db_id, wm_type_code
	work_task_type (task_db_site, task_db_id, task_type_code)	task_db_site, task_db_id, task_type_code
	eng_unit_type (eu_db_site, eu_db_id, eu_type_code)	int_eu_db_site, int_eu_db_id, int_eu_type_code
	agent (org_agent_site, agent_id)	to_agent_site, to_agent_id
	solution_package (sol_pack_db_site, sol_pack_db_id, sol_pack_id)	sol_pack_db_site, sol_pack_db_id, sol_pack_id
	ol_recommendation (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
	work_request (work_req_db_site, work_req_db_id, work_req_id)	work_req_db_site, work_req_db_id, work_req_id
	site_database (db_site, db_id)	last_upd_db_site, last_upd_db_id
	row_status_type (rstat_type_cod)	rstat_type_code