

## ***Tech-File Export Version 3.0 Specification***

### **February 7, 2004**

The MIMOSA *Tech-FILE* Export V3.0 specification allows a system to provide an XML-based export of tables as defined in the MIMOSA Common Relational Information Schema (CRIS). These tables are needed to link databases together or to move trend data from one database to another.

This specification requires each supplier to provide a MIMOSA Export Utility related to one or more packaged technologies, i.e., Trend-, Dyn-, etc. which will then export an XML file which conforms to the associated *Tech-Doc* XML schema. Export utilities should create only the data applicable to the application – it is not required to support every table relevant to a particular technology. The utility should create a single XML file and place it in a user-defined URL.

Depending on the application, suppliers may or may not export MIMOSA-defined reference data ("type" tables) and associated enterprises, sites, site databases, segments, assets, etc., but should export all user-defined reference data.

## ***Tech-File Export Database Requirements***

The supplier of the databases supported by the *Tech-File Export* software must provide the end-user with the ability to configure and maintain globally-unique identifiers and user-defined names. The supplier may provide an external software utility to perform this function. The fields the user must have the ability to assign/modify directly are:

Enterprise.enterprise\_id  
Enterprise.user\_tag\_ident  
Enterprise.name

Site.site\_code  
Site.user\_tag\_ident  
Site.st\_db\_site, st\_db\_id, st\_type\_code (via Site\_Type.name lookup)  
Site.name

Site\_Database.db\_site  
Site\_Database.db\_id  
Site\_Database.name

Agent.org\_agent\_site  
Agent.agent\_id  
Agent.agent\_db\_site, agent\_db\_id, agent\_type\_code (via Agent\_Type.name lookup)  
Agent.name

Segment.segment\_site  
Segment.segment\_id  
Segment.sg\_db\_site, sg\_db\_id, sg\_type\_code (via Segment\_Type.name lookup)  
Segment.user\_tag\_ident  
Segment.name

Asset.asset\_org\_site  
Asset.asset\_id  
Asset.as\_db\_site, as\_db\_id, as\_type\_code (via Asset\_Type.name lookup)  
Asset.user\_tag\_ident  
Asset.name

Meas\_Location.meas\_loc\_site  
Meas\_Location.meas\_loc\_id  
Meas\_Location.ml\_db\_site, ml\_db\_id, ml\_type\_code  
(via Meas\_Loc\_Type.name lookup)  
Meas\_Location.user\_tag\_ident  
Meas\_Location.name

When generating new rows in the Agent, Segment, Asset, and Meas\_Location tables, the end-user must be given the ability to provide to the system a site-unique range of integer identifiers

(agent\_id, segment\_id, asset\_id, and meas\_loc\_id, respectively) that the database may draw from when creating new entries.

The supplier must also provide a user interface which allows a user to select certain options which controls the export process. The user interface must contain the following options in some form:

### **EXPORT TO *URL***

Use: Specifies the URL where the XML file should be created.  
Any existing XML files with identical names will be overwritten.

### **INCREMENTAL FROM *Start\_GMT\_timestamp* {UNTIL [*End\_GMT\_timestamp* || SYSTIME]}**

Use: Specifies to filter all rows exported based on the *gmt\_last\_updated* column value being greater than or equal to the *Start\_GMT\_timestamp* specified and (optionally) less than the *End\_GMT\_timestamp*. The term “SYSTIME” refers to the current GMT time. To ease the burden for an end-user calculating the correct Greenwich Mean Time, the system may want to allow the user to enter either GMT or their local time which the system will internally convert to GMT.

### **LOG FILE *URL***

Use: Specifies the URL of a log file which will contain informational and error messages.

### **RESTRICTED TO {MIMOSA Category List} {Filters}**

Use: Specifies which categories of data should be exported and the filters to be applied. Categories which could be supported are:

ENTERPRISE  
SITE  
DATABASE  
AGENT  
SEGMENT  
ASSET  
MEASUREMENT LOCATION

The filters which could be supported are:

ENTERPRISE limited to a selected group  
SITE limited to a selected group  
DATABASE limited to a selected group  
SEGMENT limited to a selected group  
SEGMENT TYPE limited to a selected group  
ASSET limited to a selected group  
ASSET TYPE limited to a selected group  
MEASUREMENT LOCATION limited to a selected group

MEASUREMENT LOCATION TYPE limited to a selected group  
 GMT MEASUREMENT EVENT [before *GMT\_timestamp* | between  
*GMT\_timestamp1* and *GMT\_timestamp2* | since *GMT\_timestamp*]

Logical “AND” Combinations of these filters should be allowed.

## Optional User Interface Options

The supplier may also provide additional options which are not required nor supported by other suppliers, but may prove to be useful for exports from a supplier’s systems.

### #1: COMPRESSED TO [*Zip\_File\_URL* || AUTOUNIQUE URL]

Use: This option specifies the URL of a ZIP file which should contain the resulting XML file. If the ZIP file does not exist, it will be created. The “AUTOUNIQUE” parameter will generate a unique ZIP file in the URL specified. The ZIP files created should use a naming convention which will create files with names which will be listed in timestamp-ascending order when a name-ordered directory listing is performed.

### #2: CONFIGURATION NAME *Config\_Name* SAVE AS *File\_URL*

Use: This option provides a name to this set of parameters and specifies the file URL where the configuration file will be saved. This configuration file will contain the options for performing the export.

### #3: INCREMENTAL FROM [*Start\_GMT\_timestamp* || LAST\_CONFIG\_EXECUTED\_END\_TIMESTAMP] {UNTIL [*End\_GMT\_timestamp* || SYSTIME]}

Use: This expanded “INCREMENTAL FROM” function adds the “LAST\_CONFIG\_EXECUTED\_END\_TIMESTAMP” option which requires the system to remember the *End\_GMT\_Timestamp* utilized in the last successful export executed using the same configuration file.

### #4: EXPORT TO *XML\_File\_URL* {AUTOUNIQUE}

Use: This expanded “EXPORT TO” function includes the “AUTOUNIQUE” capability which will automatically generate a unique filename prefix for the XML file which will be created in the URL *XML\_File\_URL*. The XML file created should use a naming convention which will create files with names which will be listed in timestamp-ascending order when a name-ordered directory listing is performed.

**#5: Command Line Execution with Configuration File Specified**

Use: This option gives the user the ability to invoke the export from a command line interface, providing the configuration file as a parameter.