

# OSA-EAI Trend-XML V3.0 Server

## Support Level 1 Interfaces

Revised: March 8, 2004

### For All *Tech-XML* Servers

#### Establish Connection

V3-0-0003-*nn*Connect.xsd

(Allows clients to connect with a valid connection string and establish a session with the server. Returns to the client a session identifier and the technologies the server supports – such as REG-XML, WORK-XML, & TREND-XML)

#### Establish Disconnection

V3-0-0004-*nn*Disconnect.xsd

(Allows a client to disconnect from the server. Server will automatically perform this function if the client is not active for a server-defined timeout interval.)

## **For Trend-XML Servers, Read-Only Access, Support Level 1**

### **Serve Measurement Location Info.**

V3-0-1001-*nnQueryMloc.xsd*

(Returns measurement locations on an Asset)

### **Serve Scalar Data Measurement Event Header**

V3-0-1006-*nnQueryMevent.xsd*

(Returns a measurement event “header”)

### **Serve Scalar Data with Exception Alarms**

V3-0-1007-*nnQueryScalarDataAndAlarms.xsd* (Returns scalar data and exception alarms)

### **Serve Asset Events Related to Scalar Data**

V3-0-1005-*nnQueryAsEventRelatedToMeasEvent.xsd*

(Returns asset events related to scalar data)

### **Serve Asset Events**

V3-0-1003-*nnQueryAsEvent.xsd*

(Returns asset events)

### **Serve Segment Events Related to Scalar Data**

V3-0-1004-*nnQuerySgEventRelatedToMeasEvent.xsd*

(Returns segment events related to scalar data)

### **Serve Segment Events**

V3-0-1002-*nnQuerySgEvent.xsd*

(Returns segment events)

## **For Trend-XML Servers, Write-Only Access, Support Level 1**

### **Receive New Scalar Data with Exception Alarms**

V3-0-1008-*nn*CreateScalarDataAndAlarms.xsd

(Accepts a new scalar measurement  
with exception alarms)

## For Trend-XML Servers, Read/Write Access, Support Level 1

### **Serve Measurement Location Info.**

V3-0-1001-*nnQueryMloc.xsd*

(Returns measurement locations on an Asset)

### **Serve Scalar Data Measurement Event Header**

V3-0-1006-*nnQueryMevent.xsd*

(Returns a measurement event “header”)

### **Serve Scalar Data with Exception Alarms**

V3-0-1007-*nnQueryScalarDataAndAlarms.xsd* (Returns scalar data and exception alarms)

### **Serve Asset Events Related to Scalar Data**

V3-0-1005-*nnQueryAsEventRelatedToMeasEvent.xsd*

(Returns asset events related to scalar data)

### **Serve Asset Events**

V3-0-1003-*nnQueryAsEvent.xsd*

(Returns asset events)

### **Serve Segment Events Related to Scalar Data**

V3-0-1004-*nnQuerySgEventRelatedToMeasEvent.xsd*

(Returns segment events related to scalar data)

### **Serve Segment Events**

V3-0-1002-*nnQuerySgEvent.xsd*

(Returns segment events)

### **Receive New Scalar Data with Exception Alarms**

V3-0-1008-*nnCreateScalarDataAndAlarms.xsd*

(Accepts a new scalar measurement with exception alarms)

## CRIS Entities Reference List

### **Trend-XML Server, Read/Write Access, Support Level 1**

#### Main Tables (9)      \* referenced

\*Enterprise  
 \*Site  
 Site\_Database  
 DB\_MIM\_Interface  
 \*Segment  
 \*Asset  
 Meas\_Location  
 Meas\_Event  
 Mevent\_Num\_Data  
 Segment\_Event  
 Asset\_Event  
 Mevent\_Num\_Alarm (if supported)  
 Num\_AI\_Assoc\_Reg (if supported)  
 Num\_Alarm\_Reg (if supported)

#### Type Tables (17)

Sg\_As\_Event\_Type  
 Alarm\_Type (if supported)  
 Meas\_Loc\_Type  
 Mloc\_Calc\_Type (if supported)  
 Eng\_Unit\_Type  
 Ref\_Unit\_Type (provided by MIMOSA)  
 Eng\_Unit\_Enum (if supported)  
 Data\_Source\_Type (if supported)  
 Trans\_Type (if supported)  
 Tr\_Axis\_Dir\_Type (if supported)  
 MIM\_Interface\_Type (provided by MIMOSA)  
 MIM\_Data\_Cat\_Type (provided by MIMOSA)  
 MIM\_Support\_Type (provided by MIMOSA)  
 MIM\_Func\_Type (provided by MIMOSA)  
 MIM\_Tech\_Type (provided by MIMOSA)  
 MIM\_Access\_Type (provided by MIMOSA)  
 Row\_Status\_Type (provided by MIMOSA)