

TIBCO LogLogic[®] Log Management Intelligence

TIBCO LogLogic[®] Enterprise Virtual Appliance

TIBCO LogLogic[®] Enterprise Virtual Appliance - Container Edition

XML Import/Export Entities Reference

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Manual Identification of Entities for Import

To share certain configured information from one appliance to another, you can import or export the information as entities.

i Note: LogLogic LMI has been used to represent LogLogic LMI, LogLogic EVA, and LogLogic EVA - Container Edition. All processes and procedures applicable to LogLogic LMI are also applicable to LogLogic EVA and LogLogic EVA - Container Edition, unless explicitly stated otherwise.

As described in the [TIBCO LogLogic® Log Management Intelligence Administration](#), you can export and import entities between appliances. TIBCO recommends using the user interface for import and export whenever possible.

You can also manually define entities by editing an exported XML file. Manually adding entities lets you use the XML file to replicate custom entity definitions across appliances.

While it is good practice to use the user interface for import and export whenever possible, manually editing the XML file can be useful to:

- Populate the XML file with entities not already present on any appliance.
- Collect all entities, such as devices and device groups, in one central location (the XML file) for consistent redistribution, rather than circulating them piecemeal from multiple appliances.

⚠ Warning: TIBCO reserves the right to change the XML format in future releases. It is good practice to perform any experimentation with manual modification of the XML file on a non-production appliance and only on copies of data.

Editing an Exported XML File Manually

Procedure

1. On the appliance GUI, use **Administration > Import/Export** to export at least one entity of the appropriate entity type from the appliance to your local system.
2. Modify the resulting XML file in any text or XML editor.

For more information on what the XML tags are for, see [Description and Usage of XML Tags](#).

3. Import the modified XML file into another appliance using the **Import** tab.



Caution: If there are any errors in the XML file (typographical or invalid entries), the import fails.

Description and Usage of XML Tags

LogLogic LMI uses various kinds of tags.

- [Common XML Tags](#)
- [Alerts](#)
- [Custom Reports](#)
- [Devices and Device Groups](#)
- [Suites](#)
- [Search Filters](#)
- [Users](#)
- [Alert Templates](#)

Common XML Tags

Some frequently used XML tags.

The following XML tags are present in the exported XML file for all entities:

XML Tag	Description
entity action	<p>Behavior for this XML file's entity definition if another for this entity already exists on the importing appliance.</p> <p>Insert</p> <p>If the entity exists in the target appliance, the entity is rejected on import.</p> <p>InsertOrUpdate</p> <p>If the entity exists in the target appliance, the entity is updated on import; otherwise, a new entity is inserted.</p> <p>Delete</p> <p>If the entity exists in the target appliance, the entity is deleted on import.</p> <p>The entity is one of: alerts, users, search filters, custom reports, devices, suites, or alert templates.</p> <hr/> <ul style="list-style-type: none"> • oid • TemplateId • EmailDetailFlag
SerialNumber	<p>A unique number identifying the entity in the XML file.</p> <p>A device group and all devices in the group have the same SerialNumber in their XML definitions.</p>

Alerts

The contents of alert entity definitions are mostly based on Add Alert settings in the user interface. The XML tags for alert entities vary based on alert type.

The following XML tags are commonly present in most exported alerts XML file:

XML Tag	Description
Name	Name of the alert as it appears in the UI.
Description	(optional) Description of the alert as it appears in the UI.
AlertType	Number indicating the type of device. The numbers are indexed in the <code>logappconfig.admAlertType</code> table.
Priority	Number indicating the priority. 0 = Low; 1 = Medium; 2 = High
EnableFlag	Flag indicating whether this alert is enabled. 1 = Yes. 0 = No.
AllDeviceFlag	Flag indicating whether to track all devices individually. 1 = Yes. 0 = No.
SendToTrapFlag	Flag indicating whether to send the alert to an alert receiver.
Highthreshold	Measured ratio percentage above which the alert triggers.
Lowthreshold	Measured ratio percentage below which the alert triggers.
Resettime	Time (in seconds) to wait between alerts.
SearchExpressionName	(Pre-Defined Search Filter alert only) Name of the search filter used by the alert.
AlertDevices	Names of devices or device groups about which the alert can trigger.
TrapDevices	Names of alert receiver devices.
AlertUsers	Names of users who are email recipients for the alert.

XML Tag	Description
UserName	Name of the user who receives the email alert.
HistoryTemplate	The template name for the selected alert history template.
EmailTemplate	The template name for the selected email template.
SyslogTemplate	The template name for the selected syslog template.
SnmpTemplate	The template name for the selected snmp template.

Custom Reports

The following table lists the XML tags that are present in an exported custom report XML file:

XML Tag	Description
Name	Name of the custom report.
Description	Description of the custom report.
ReportType	Type of report upon which this custom report is based. No spaces are included in the ReportType definition.
ShareType	Flag indicating whether this report is shared with other users on the appliance so they can run it. 0 = No. 1 = Yes.
IsSummary	Flag indicating whether the report is a summary or real-time report. 0 = Real-Time. 1 = Summary.
FormValues	The tags under FormValues map directly to the fields in the UI report screen.

XML Tag	Description
device	Name of the log source on which the report is run.
deviceType	Type of device on which the report is run.
reportType	Type of report upon which this custom report is based. No spaces are included in the reportType definition.
timeInterval	Indicates whether the report is run hourly (hours), daily (days), or in a specific date/time period (specificTime).
csv	Flag indicating whether to save the custom report output in a .csv file. 1 = Yes. 0 = No.
day	(when timeInterval is days only) Day on which the report is run, either Today or Yesterday.
hour	(when timeInterval is hours only) Hours on which the report is run: Last Hour, Last 2 Hours, Last 4 Hours, etc.
fromDate	(when timeInterval is specificTime only) Start date of the time period on which the report is run.
fromTime	(when timeInterval is specificTime only) Start time of the time period on which the report is run.
toDate	(when timeInterval is specificTime only) End date of the time period on which the report is run.
toTime	(when timeInterval is specificTime only) End time of the time period on which the report is run.

XML Tag	Description
expression	Name of the search filter used by the custom report.
pageType	Type of page from which the custom report was saved: either filterPage or reportPage.
predefined	Name of the pre-defined search filter selected for this report.
FormValuesAdvancedOption	Advanced Options definitions for this custom report vary for every report type based on available Advanced Options for the report. The basic structure follows this example: <div data-bbox="631 703 1414 892" style="background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <pre><Param><name>reportDescriptionText</name> <value>Active Directory Continuity Report</value> </Param></pre> </div>

Devices and Device Groups

The contents of device entity definitions are mostly based on Add Device settings in the user interface.

The following XML tags are present in an exported devices and device groups XML file:

XML Tag	Description
DeviceName	Name of the device group or device as it appears in the UI.
Description	(optional) Description of the device group or device as it appears in the UI.
deviceType	Number indicating the type of device. The numbers are indexed in the logappconfig.admDeviceType table.
enableFlag	Flag indicating whether data collection for this device is enabled. 1 = Yes. 0 = No.

XML Tag	Description
isGroup	Flag indicating whether this XML definition is for a device group or device. 1 = device group. 0 = device.
applianceIP	IP address of the exporting Appliance. This entry is always 127.0.0.1.
dnsRefresh	Flag indicating whether this device has DNS refresh enabled. 1 = Yes. 0 = No.
deviceIP	IP address of the device.

Suites

Suites include other entities, bundled together in a single large import/export entity. Therefore, exported suite XML files contain a few XML tags unique to suites and then multiple entity definitions using the XML tags for those entities.

The contents of suite entity definitions (those unique to the suite, and not to the entities in the suite) are based on Suites settings in the user interface.

The following XML tags are unique to suites, and are present in an exported suite XML file:

XML Tag	Description
Name	Name of the suite.
Description	Description of the suite.
SharedFlag	Flag indicating whether this suite is shared with other users on this Appliance. 1 = Yes. 0 = No.
ListedFlag	Flag indicating whether to list reports from this suite in the Custom Report menu. 1 = Yes. 0 = No.

Search Filters

The following table lists the XML tags that are present in an exported search filters XML file:

XML Tag	Description
ExprName	Name of the search filter.
Description	Description of the search filter.
ExprType	Number indicating the type of search expression used in this filter (Use Words, Use Exact Phrase, Regular Expression, or Boolean Expression).
Expression	Search expression upon which the filter searches.
Exprn1	(optional) Additional expression defined for this filter.
Exprn2	(optional) Additional expression defined for this filter.
ShareType	Number indicating whether this search filter is shared with other users on the Appliance.
LogOp	(optional) Operator used in the search expression (=, >, etc.)
ContainsVariable	Flag indicating whether the search expression contains a variable. 0 = No. 1 = Yes.
UserName	Name of the user who created the search filter.

Users

The contents of user entity definitions are mostly based on Add User and Personal Preferences settings in the user interface.

The following XML tags are present in an exported users XML file:

XML Tag	Description
LoginName	Login name of the user.
FirstName	(optional) First name of the user.
LastName	(optional) Last name of the user.
EmailAddr	Email address of the user.
PhoneNum	(optional) Phone number of the user.
Password	Login password of the user.
DBpassword	Database login password of the user.
UserPrivileges	The internal bits identifying the user's privilege settings.
SessionTimeout	Minutes of idle before the appliance automatically logs out the user.
RefreshTime	Seconds (30-600) between browser requests.
EulaStatus	Flag indicating whether the user accepted the End User License Agreement.
EnableFlag	Flag indicating whether the user is enabled on the appliance.
LXmacAddress	MAC address of the appliance.
RowsPerPage	The number of rows (10-1000) that each report page can display.
MaxRowsPerPage	The maximum number of rows that a report page can display.
MinRowsPerPage	The minimum number of rows that a report page can display.

XML Tag	Description
ScreenSize	User preference setting for the UI font appearance (small, medium, or large)
ChartSize	Number of items that appear in charts for Summary Reports.
TableSize	Number of entries that appear in tables for Summary Reports.
LastPasswordChangeDate	Last date on which the user's password was changed.
AccessAllDevice	Flag indicating whether this user has permission to access all devices on the appliance.
hasWebServices	True/false flag indicating whether the user has Web Services API (internal) access to the appliance.
RemoteUser	Flag indicating whether this user authenticates locally (on the appliance) or remotely (through a remote authentication server).
UserDevices	Includes <DeviceName> for each device type.

Alert Templates

The following table lists the XML tags that are present in an exported alert templates XML file:

XML Tag	Description
Name	Name of the alert template.
AlertType	An internal type value of the alert for which the template is associated with. For all System alerts, the value is always 200.
AlertContentType	Type of the template. It contains one of the following values: history, email, syslog, or snmp.

XML Tag	Description
TemplateContent	Definition of the template.
MaxLength	The maximum allowed length of the alert which uses this template. For email type: 1 to 65503; For history, syslog, and snmp: 1 to 65535.

i Note: If you wish to add some additional information in the Email **Subject** or **Body** fields in the TemplateContent tag, ensure that you add that within the <subject>, </subject> or <body>, </body> tags respectively. If the additional information is outside of these 2 pairs of tags, then the new information is not added or displayed in the template.

Example: Devices XML File

An example of an exported XML file containing a device and device group. Exported XML files for all entities look similar, containing the tags specific to that entity.

The first half of the following example is for a device group. The second half is for a device in that device group.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<Devices>
  <Device action="InsertOrUpdate">
    <SerialNumber>1</SerialNumber>
    <DeviceName>Device Group 1</DeviceName>
    <Description />
    <deviceType>0</deviceType>
    <enableFlag>1</enableFlag>
    <isGroup>1</isGroup>
    <applianceIp>127.0.0.1</applianceIp>
    <dnsRefresh>0</dnsRefresh>
  </devices>
  <Device action="InsertOrUpdate">
    <SerialNumber>1</SerialNumber>
    <DeviceName>Individual Device - Switch #4</DeviceName>
    <Description />
    <deviceType>1</deviceType>
    <enableFlag>1</enableFlag>
```

```
<isGroup>0</isGroup>  
<applianceIp>127.0.0.1</applianceIp>  
<dnsRefresh>0</dnsRefresh>  
<deviceIp>1.2.3.4</deviceIp>  
</Device>  
</devices>  
</Device>  
</Devices>
```

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [TIBCO Product Documentation](#) website, mainly in HTML and PDF formats.

The [TIBCO Product Documentation](#) website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The following documentation for this product is available on the [TIBCO LogLogic® Log Management Intelligence Product Documentation](#) page.

- *TIBCO LogLogic® Log Management Intelligence Release Notes*
- *TIBCO LogLogic® Log Management Intelligence Administration*
- *TIBCO LogLogic® Log Management Intelligence Configuration and Upgrade*
- *TIBCO LogLogic® Log Management Intelligence Hardware Installation Guide*
- *TIBCO LogLogic® Log Management Intelligence Log Source Report Mapping*
- *TIBCO LogLogic® Log Management Intelligence Security Guidelines*
- *TIBCO LogLogic® Log Management Intelligence SSD Hardware Field Installation*
- *TIBCO LogLogic® Log Management Intelligence Syslog Alert Message Format Quick Reference*
- *TIBCO LogLogic® Log Management Intelligence User Guide*
- *TIBCO LogLogic® Log Management Intelligence XML Import/Export Entities Reference*
- *TIBCO LogLogic® Enterprise Virtual Appliance Quick Start*

Other TIBCO Product Documentation

The following documents for TIBCO LogLogic® Log Source Packages are available on the [TIBCO eDelivery website](#) or [TIBCO Support website](#) after logging in.

- *TIBCO LogLogic® Log Source Packages Release Notes*
- *TIBCO LogLogic® Log Source Packages Installation and Upgrade*
- *TIBCO LogLogic® Log Source Packages Log Configuration Guides*
- *TIBCO LogLogic® Log Source Packages Log Collector Guides*

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- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to [TIBCO Support](#) website. If you do not have a user name, you can request one by clicking **Register** on the website.

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