**Integration Framework**

**Common Tools and Help Functions**

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# 1 Changing Common Framework Settings

After logon to the integration framework version 1 or 2, you can set the following:

* Open menu items in a new window
* The integration framework color theme

**Procedure**

1. Click the Settings button in the upper left corner of the user interface.
2. To open each integration framework menu item in a separate window, click Menu.
3. To select an integration framework color theme, select Theme. The following options are available:

* Belize Deep
* Blue Crystal

**Results**

The settings are valid for both integration framework versions.

# 2 Common Tools in Framework Version 1 and 2

## 2.1 Using the Embedded XML Editor

The integration framework provides an embedded internal XML editor that you can use to access BizStore documents.

**Procedure**

1. To select a document and open it for editing, choose *Tools* → XML Editor.
2. In the Document (BizStore URI) field, select the dataset, group and document name and click Open.
3. To automatically pretty-print a document when opening the document, click  (Settings).
4. In the user interface, click *Perform Pretty-Print*, save and close the window.
5. To export the document, click .

The function creates the xmledit.export.zip file.

1. To pretty print the document, click 

## 2.2 Using the Certificate Tool

The certificate tool creates a root certificate and a self-signed server certificate that is based on the root certificate and deploys the server certificate to the integration framework keystore. Based on the server certificate, the tool creates a certificate for the mobile device, for example, that connects to the integration framework with the SAP Business One mobile app.

**Prerequisites**

* The OpenSSL tool (openssl.exe and related files) is available in the ..\B1iXcellerator\openssl\bin folder.
* During certificate creation, the integration framework checks whether the tool is available in the folder.
* If the tool is not available, refer to the following folder for a Win32 OpenSSL installer: https://www.openssl.org/related/binaries.html.

Select an installer and make all files available in the ..\B1iXcellerator\openssl\bin folder.

**Procedure**

1. To open the tool, choose *Tools* → Certificate Tool.
2. In the Domain Name field, enter the domain name the certificate is issued to.
3. If you do not enter a name, the integration framework uses the local machine name.
4. To create and deploy the self-signed certificate to the integration framework keystore, click the Create Certificate button.

The integration framework creates the certificate in the ..\B1iXcellerator\B1iCert folder. The path depends on where you have installed the integration framework.

1. To reset to the default keystore that the installation program created, click the Reset Certificate button.

note.gifNOTE

After certificate creation or reset, restart the *SAP Business One Integration Service*.

**Results**

Find the myCA.cert file in the ..\B1iXcellerator\B1iCert folder. Make the certificate available to the mobile device, for example.

For more information, see SAP Note [2019275](https://service.sap.com/sap/support/notes/2019275)

## 2.3 Analyzing SAP Business One DI Proxy Logs

### 2.3.1 Introduction to SAP Business One DI Proxy

The SAP Business One DI Proxy stabilizes the interaction between integration framework and SAP Business One through the DI API by decoupling the DI connection from the integration framework process (Tomcat). The integration framework DI adapter internal part delegates the detailed interaction with SAP Business One DI API to the DI adapter external part used by SAP Business One DI Proxy. The SAP Business One DI Proxy is a Microsoft Windows service. An error in SAP Business One DI API layers affects the DI adapter external part and the SAP Business One DI Proxy, but not the DI adapter internal part and subsequently not the integration framework.

Cases are known that the SAP Business One DI API claimed and no longer released memory over time. In the past, we observed that this situation also occurred, if many semantical errors happened, for example, when trying to post sales orders for a customer that was not yet available. To release memory that is no longer needed or used, the SAP Business One DI Proxy automatically restarts from time to time.

The SAP Business One DI Proxy log offers very detailed information about the SAP Business One DI Proxy processing that can help you troubleshooting issues of the connection between the integration framework and SAP Business One.

The DI Proxy logs are available in the C:\Program Files (x86)\SAP\SAP Business One Integration\DIProxy\log default folder. The logs are txt files.

With the analysis tool, you can do the following:

* Configure the base directory to pick up DI Proxy log text files
* Convert log files to XML and load them to the BizStore for analysis
* Display logs for analysis and export them for handover, for example, to support
* Display the analysis for a transaction ID
* Import logs in XML format
* Remove logs and log analysis from BizStore

### 2.3.2 Configuring the Directory and Loading DI Proxy Logs

**Prerequisites**

To obtain enough information in the log analysis, change the following properties in the DIProxylog.properties file:

| **Recommended Property Value** | **Description** |
| --- | --- |
| .level= INFO | For enough log information |
| java.util.logging.FileHandler.formatter = java.util.logging.XMLFormatter | To record log data in XML format instead of plain text |
| java.util.logging.FileHandler.encoding = UTF-8 | For standard data encoding |

**Procedure**

1. To open the SAP Business One PI proxy log analysis functions, choose Tools → DI Proxy Log Analysis.
2. To configure the base directory to pick up DI Proxy log text files, click Configuration and enter the path to the base directory, where DI Proxy logs are in subdirectories. Enter, for example, C:\diproxy.log and save your settings.

For the example path, the tool searches for logs in subfolders of C:\diproxy.log\. The tool displays the log files for upload. All files are selected for upload.

1. Deselect the files that you do not want to upload.
2. To display the files available in the subdirectories, click  (Get Directory Information)
3. To convert the logs to XML and load them to BizStore, click  (Start Log Upload).

* The Action field displays the status. The value is either empty, UPLOAD of CANCEL
* The *Status* field displays the status of the upload. The following values are available:
* IN PROGRESS
* DONE
* ERROR

If the function cannot upload files, it displays the name of the log file that is not uploaded together with the exception message.

* The Processed Logs field displays the number of available and the number of uploaded logs.

1. To cancel an upload, click  (Cancel Log Upload).

### 2.3.3 Displaying DI Proxy Log Analysis Results

**Procedure**

1. To display analysis results for a transaction ID, enter the transaction ID in the Transaction ID field and click [Analyze].
2. To display available analysis results, click Display Result.

The tool displays the transaction sequence, the transaction type, either 2PC for two-phase commit of 1PC for single transaction, the start and end timestamp of the transaction sequence and the duration in milliseconds.

1. To display details of the transaction sequence, click the (+Click to Expand) link.
2. To get information about whether the transaction is a processing transaction, click the link.
3. To display DI API details, click the link.

### 2.3.4 Exporting and Importing Logs in XML Format

The function allows exporting logs in XML format and importing them to another integration framework for further analysis.

**Procedure**

1. To export logs, display the log analysis and click Export in the upper right corner. The tool generates the resultLog.xml file. Save the file to your file system.
2. To import logs in XML format to the integration framework, choose Tools → DI Proxy Log Analysis, click Log Import and import, for example, resultLog.xml.

### 2.3.5 Removing Log Analysis Results from BizStore

**Procedure**

1. To remove analysis results from the BizStore, choose Tools → DI Proxy Log Analysis, click Clean Log.

The function removes all temporary data in the com.sap.b1i.diproxylog.tool.runtime dataset except resultLog.xml from the BizStore.

1. To remove resultLog.xml, use the Remove button in the result display.

## 2.4 Restarting DI Proxies

After changes to the properties file, for example, you must restart one or several DI proxies.

**Procedure**

1. To restart DI proxies in your system landscape, choose Tools → DI Proxy Restart.

The function displays all DI proxies defined in SAP Business One SLD entries.

1. To restart DI proxies, select them and click Restart.

# 3 Common Help Functions in Version 1 and 2

## 3.1 SAP Business One DI API Object Help

The function allows you to display information about the business objects of SAP Business One exposed by the DI API. The information is part of integration framework repository in the BizStore.

**Procedure**

1. In the *List Mode* field, select to display the object list sorted by ID or by object name and click Object List.

The framework displays the object list with object name and object identifier and key.

1. To display information about the database persistency of the object, click Table Info.

The integration framework displays the name of the main database table, the names of primary keys and the name of the primary keys in the XML schema.

1. To generate and display a message based on the schema definition, click Object Template.

## 3.2 SAP Business One DI API Service Help

The function displays information about the SAP Business One DI API services. The information is based on the metadata in the integration framework repository in the BizStore.

**Procedure**

After the configuration of metadata from an SAP Business One reference system, click Parameter Template.

The tool displays the parameters structure of the method.

## 3.3 SAP Business One Service Layer Help

The function displays information about the business objects of SAP Business One exposed by the service layer. The information is available in the integration framework repository in the BizStore.

**Procedure**

1. To display information about supported data types, click Data Types.
2. To display the schema, click Schema.

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