

Integration Framework for SAP Business One

Company SLD Configuration

PUBLIC



Global Roll-out

August 2018, Justin McGuire



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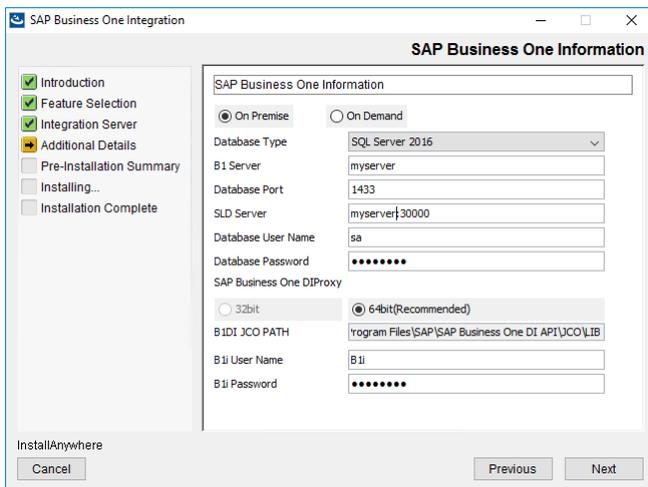
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1. INTRODUCTION

The integration framework for SAP Business One uses company SLD entries to define the connection information used to send and receive data from SAP Business One company databases. A typical company SLD entry consist of 3 sections, the B1DI section, the Service Layer (B1SL) section (SAP Business One, version for SAP HANA only), and the JDBC section. This document focuses on the B1DI and JDBC sections. For the Service Layer section, please refer to the document [Configure Connectivity to SAP Business One Service Layer](#).

2. SLD CREATION

Company SLDs are generally created automatically, after installation of the integration framework is completed. The information provided during installation will be used to create the SBO-COMMON SLD entry. This SLD entry is then used as template for company database SLD entries.



The screenshot shows the 'SAP Business One Integration' wizard window, specifically the 'SAP Business One Information' step. The window has a sidebar on the left with a tree view containing the following items: Introduction (checked), Feature Selection (checked), Integration Server (checked), Additional Details (expanded), Pre-Installation Summary (unchecked), Installing... (unchecked), and Installation Complete (unchecked). The main area is titled 'SAP Business One Information' and contains the following fields and options:

- On Premise On Demand
- Database Type: SQL Server 2016 (dropdown)
- B1 Server: myserver
- Database Port: 1433
- SLD Server: myserver\30000
- Database User Name: sa
- Database Password: [masked]
- SAP Business One DIProxy: 32bit 64bit(Recommended)
- B1DI JCO PATH: %Program Files%\SAP\SAP Business One DI API\JCO\LIB
- B1I User Name: B1I
- B1I Password: [masked]

At the bottom of the window, there are three buttons: 'Cancel', 'Previous', and 'Next'. The text 'InstallAnywhere' is visible in the bottom left corner.

You can also create a company SLD entry manually.

If the SAP Business One company database entry is not listed in the integration framework for SAP Business One SLD section, please refer to the SAP Note [2032666](#).

3. COMPANY SLD VERIFICATION

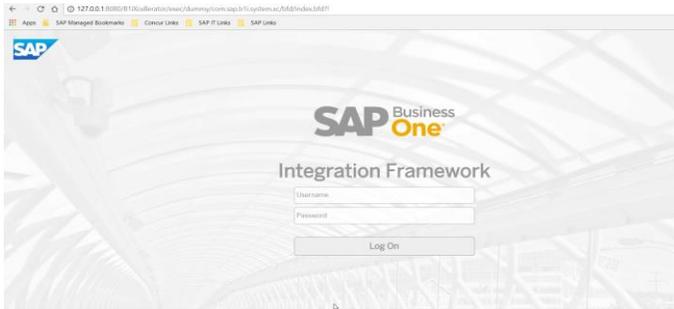
The communication between the integration framework for *SAP Business One* and *SAP Business One* or *SAP Business One, version for SAP HANA* needs to be verified.

3.1 Login to the Integration Framework for SAP Business One

Default http address is <http://<FQDN>:8080> (e.g. <http://127.0.0.1:8080>)

Default https address is <https://<FQDN>:8443> (e.g. <https://127.0.0.1:8443>)

Default administrator user for login is *B1iadmin*. The password for this user was defined during the installation process of the integration framework for *SAP Business One*.



3.2 Review the B1DI Configuration

There are 5 general areas to review:

SAP Integration solution for SAP Business One - Integration Framework

COCKPIT SLD MAINTENANCE SCENARIOS MONITORING TOOLS HELP

SLD

- B1I Server
 - 278187
 - HTTP-B1System
 - XMLFileSystem
 - WSforMobile
 - HAnyforXcelsius
 - SBO-COMMON
 - HAnyforCampaign...
 - HAnyforRFQ
 - HAnyforXcelsiusP...
 - B1A Server
 - B1A DB
 - WSforCustomerCh...
 - CustomerCheckou...
 - CustomerCheckou...
 - eDocWS

278187

General Information

Type	B1.0.0
Description	SAP Business One 9.0 and Minor Releases
Name	278187
ID	0010000100

Common Fields

b1Server	myserver	3.2.1
company	278187	

Connectivity List (Active)

B1DI

b1Server	myserver	
licenseServer		3.2.2
slsServer	myserver-40000	
company	278187	
dbType	10	3.2.3
dbUser	sa	
dbPassword		3.2.4
userName	B1I	
password		
language	3	
isTrust	false	
jcoPath		
dProxyhost	myserver	3.2.5
dProxyport	2000	
proxyHost		
proxyPort		

3.2.1 Common Fields – b1Server and company

These fields should match the data in the SAP Business One System Landscape Directory Control Center and are also copied to the JDBC url in the JDBC section:

SAP System Landscape Directory

DB Instances and Companies | Logical Machines | Components | Services | Security | External Mapping | Global Settings

DB Instances (1)

Server Name	Server Type	Version	System DB Status	Database Authentication
myserver	MSSQL2016	930150	Online	Database Authentication

Companies (1)

Company Name	Schema Name	Version	Localization	Database User	Status	Export/Import Status	Last Port
OEC Computers UK	278187	930150	GB	sa			

Common Fields

b1Server	myserver
company	278187

Note:

To enter an instance, use the following pattern: <IP address or logical name>\<instance name>

The string must be identical with the string in the EventSender setup for the SAP Business One system. If you use, for example, a logical name in the EventSender, enter the logical name here. The value comparison is case-sensitive.

Integration solution for SAP Business One - Integration Framework

COCKPIT SLD MAINTENANCE SCENARIOS MONITORING TOOLS 1 ELP

Controller for SAP Business One Event Sender

Service Status: RUNNING

Actions: Start Stop Close

Explanations

SAP Business One Event Sender Service Status

(Start) Start Event Sender Service

(Stop) Stop Event Sender Service

SAP Business One Event Sender Setup Wizard

127.0.0.1:8000

1 Connect to SAP Business One

2 Configure Event Sender Parameters

3 Configure Integration Framework Parameters

4 Choose Company Databases

5 Summary Information

Back Next Deploy

Event Sender Setup - Step 1

SAP Business One DB Type

Choose Database Type: Microsoft SQL Server 2016

DB Connection Settings

DB Server Name: myservers | Port: 1433

Setup DB Account: sa | Password: |

Running DB Account: sa | Password: |

Test Connection

If you use the associatedSrvIP parameter for a HTTP or a Web service system (for example mobile or dashboards) to associate an incoming call to an SAP Business One system, ensure that both parameters are identical.

SAP Integration solution for SAP Business One - Integration Framework

COCKPIT **SLD** MAINTENANCE SCENARIOS MONITORING TOOLS HELP

SLD

- B1 Server
 - 278187
 - HTTP-B1System
 - XMLFileSystem
 - WSforMobile**
 - HAnyforXcelsius
 - SBO-COMMON
 - HAnyforCampaign...
 - HAnyforRFQ
 - HAnyforXcelsiusP...
 - B1A Server
 - B1A DB
 - WSforCustomerCh...
 - CustomerCheckou...
 - CustomerCheckou...
 - eDocWS

destHost

destPort

destPath

query

proxyHost

proxyPort

authentication basic

user

password

trustStoreURI

keyStoreURI

WSAS Test Connection

destProtocol http

destHost

destPort

destPath

query

proxyHost

proxyPort

authentication basic

user

password

trustStoreURI

keyStoreURI

Connectivity List (Passive)

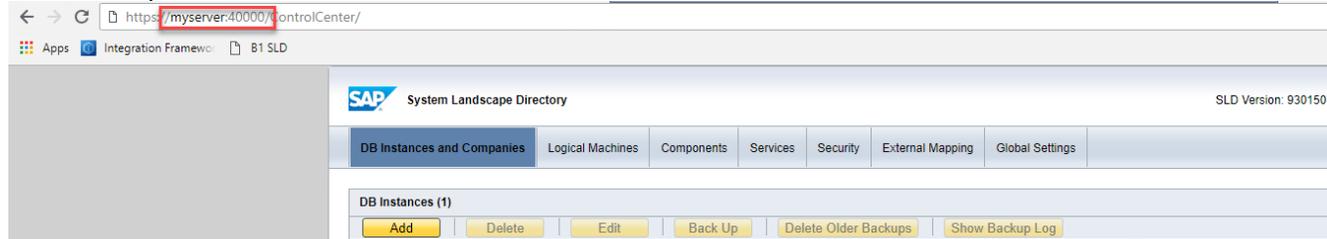
WSAO

WSAR

associatedSrvIP myserver

3.2.2 licenseServer / sldServer

licenseServer has been replaced by sldServer as of SAP Business One 9.2 PL05. For older SAP Business One systems, you can continue to use licenseServer and set sldServer empty. The sldServer value can be easily found from the Control Center url. The default port value is 40000



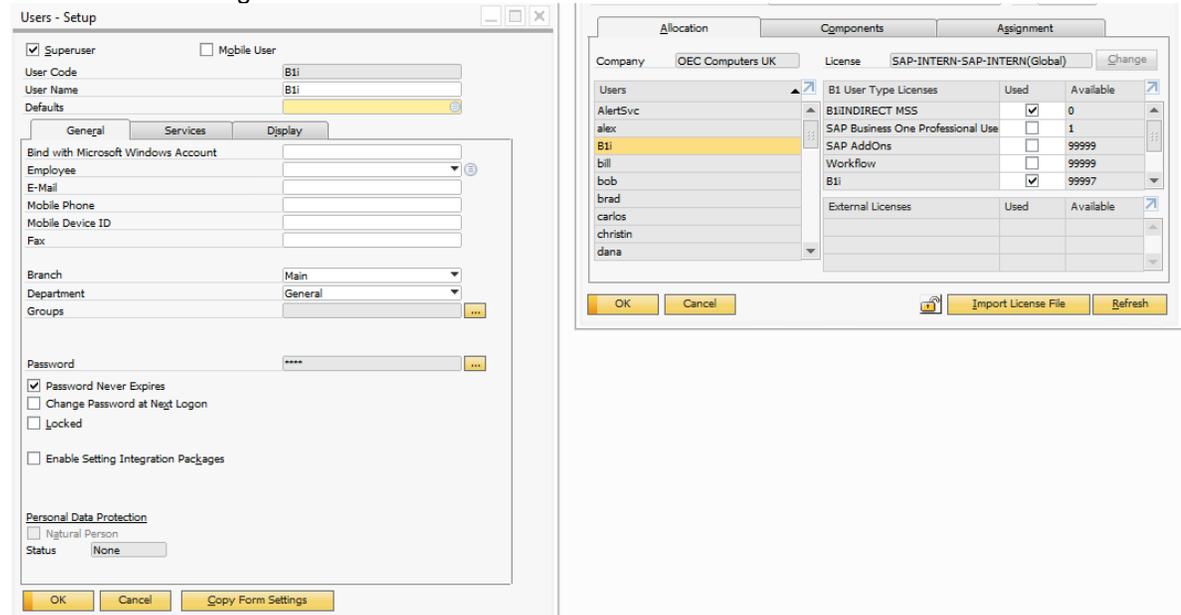
3.2.3 dbType, dbUser, dbPassword

Choose HANA, or the MSSQL version. Enter the **dbUser** for establishing a connection to the database server, for example in HANA "SYSTEM", or MSSQL "sa" and the relevant **dbPassword**.

isTrust field can also be used. If true, ensure the integration framework service runs (Log On As) under an account with access to the SQL server and database. If false, you must provide user credentials in **dbUser** and **dbPassword** fields.

3.2.4 userName, password

This should be the B1i user from the company database. Reset the password if necessary. The B1i user should be assigned B1iINDIRECT MSS and B1i licenses.



3.2.5 diProxyHost, diProxyPort

Enter the address of the **diProxyHost** (where the DI proxy service is installed and running)
Specify the **diProxyPort** of the required DI Proxy server. The default port is 2099.

If using a DI Proxy Group, set diProxyHost as the group name and leave the port empty. For more information see SAP Note [1993784](#)

3.2.6 Optional fields: language, jcoPath, proxyHost, proxyPort language – set the resource language.

jcoPath – By default the jcoPath in the DI proxy property file (diproxyserver.properties) is used so this field is left empty.

proxyHost, ProxyPort - Enter the IP address and port of a HTTP proxy server, if a proxy server is required in your network for connecting to the SAP Business One server. Leave the fields empty, if a proxy is not required.

3.3 Review the JDBC configuration

JDBC		Test Connection
driver	<input type="text" value="com.microsoft.sqlserver.jdbc.SQLServerDriver"/>	
url	<input "="" type="text" value="jdbc:sqlserver://myserver:1433;integratedSecurity="/>	
username	<input type="text" value="sa"/>	
password	<input type="password" value="*****"/>	

These field values are based on the SBO COMMON SLD entry

driver

MSSQL generally uses value *com.microsoft.sqlserver.jdbc.SQLServerDriver*

HANA uses value *com.sap.db.jdbc.Driver*

url

MSSQL typical url:

jdbc:sqlserver://myserver:1433;integratedSecurity=false;databaseName=278187;selectMethod=cursor;applicationName=IntegrServerSBO-COMMON

HANA typical url:

jdbc:sap://myserver:30015?currentschema="278187"

We can see the SQL Server Name and Company database is defined in both MSSQL and HANA urls. The values configured in the **Common Fields** section for **b1Server** and **company** are used here.

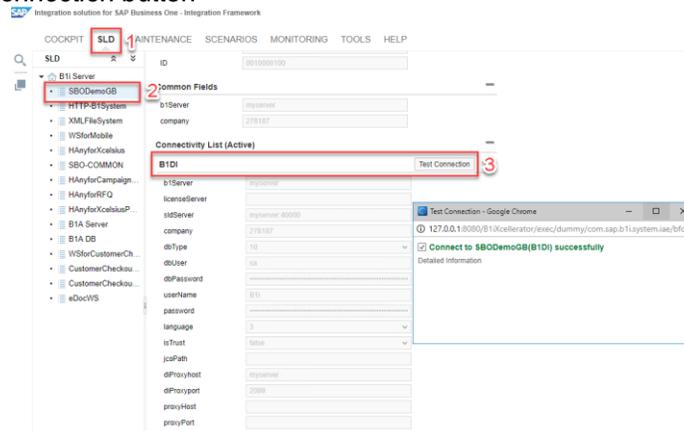
username, password

Generally, the same values as B1DI section dbUser and dbPassword are used.

3.4 Verify the Communication to SAP Business One Using the B1DI Section

The *SAP Business One DI API* connectivity is used in the integration framework for *SAP Business One* to enhance the information in the *Company Database*.

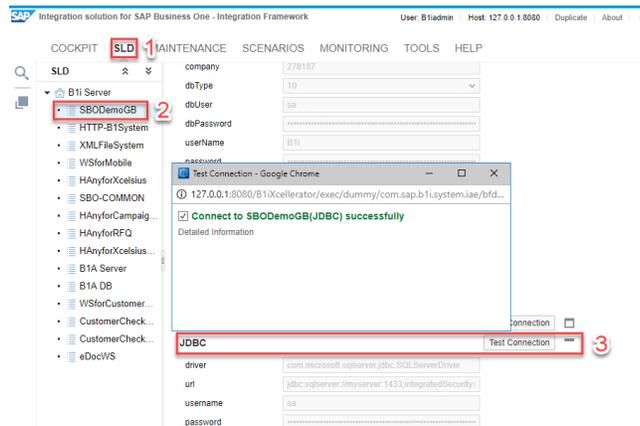
- GoTo *Integration Framework* → *SLD* → *B1i Server*
- Find in *Connectivity List (Active)* the *B1DI* section
- Press the *Test Connection* button

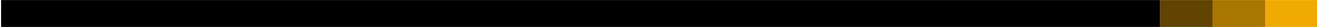


3.5 Verify the Communication to SAP Business One Using the JDBC Section

The *JDBC* connectivity is used in *SAP Business One Integration Framework* in order to retrieve the information from the *Company Database*.

- GoTo *SAP Business One Integration Framework* → *SLD* → *B1i Server*
- Find in *Connectivity List (Active)* the *JDBC* section
- Press the *Test Connection* button





3.6 Troubleshooting:

3.6.1 *Company Database Is Missing*

The SAP Business One company database entry is not listed in the integration framework for SAP Business One in the SLD section.

To solve this issue, please refer to the SAP Note [2032666](#).

3.6.2 *The Communication Fails with Some Specific Error*

To solve this issue, please refer to the SAP Note [2029714](#).

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