**Integration Framework**

**APIs**

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Table of Contents

[1 Calling APIs 2](#_Toc526936194)

[1.1 Overview of Calling APIs 2](#_Toc526936195)

[1.2 JobCreator 3](#_Toc526936196)

[1.3 B1ifAPI 4](#_Toc526936197)

[2 System Landscape Directory (SLD) APIs 6](#_Toc526936198)

[2.1 Creating, Updating, or Deleting an SLD Entry 6](#_Toc526936199)

[2.2 Generating a New SLD Entry 8](#_Toc526936200)

[2.3 Parameters for SLD System Types 9](#_Toc526936201)

[3. Scenario Package APIs 14](#_Toc526936202)

[3.1 Refreshing a Scenario Package 14](#_Toc526936203)

[3.2 Activating or Deactivating a Scenario Package 14](#_Toc526936204)

[3.3 Adding a System to an Existing Scenario Package 15](#_Toc526936205)

[3.4 Generating or Adding a System to an Existing Scenario Package 16](#_Toc526936206)

[3.5 Deleting a System in an Existing Scenario Package 18](#_Toc526936207)

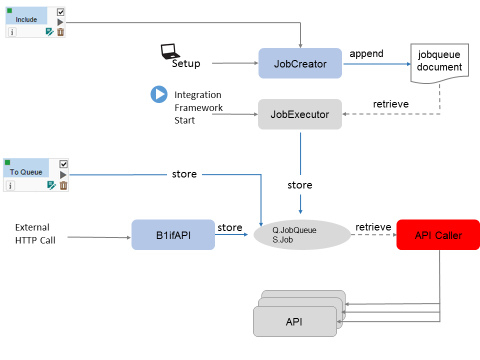
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# 1 Calling APIs

## 1.1 Overview of Calling APIs

The application programming interfaces (APIs) of the integration framework are BizFlows. You have several options to call APIs.

To call APIs synchronously, use the *include* atom in the process flow. The picture below displays the API infrastructure and illustrates how to call APIs asynchronously.



You can asynchronously call APIs using jobs. The setup routine of the integration framework calls the *JobCreator*. The *JobCreator* adds a new job to the internal *jobqueue* document. You can use the mechanism in the process flow. Use the *include* atom to call the *JobCreator.*

Whenever you start or restart the integration framework server, it triggers the *JobExecutor*. The *JobExecutor* retrieves all jobs from the internal *jobqueue* document and stores API jobs into the internal *JobQueue* queue.

You can also use the *put to internal queue* atom in a process flow to directly add new jobs to the queue. The name of the queue is *Q.JobQueue* and the name of the stream is *S.Job*.

You can call the API inbound *B1ifAPI* using http to save a job to the internal job queue.

Entries in the internal job queue trigger the *APICaller*. The *APICaller* calls the appropriate API. *APICaller* strictly follows the order of the jobs. You can find the result of the asynchronous calls in the internal job execution document.

Note that the integration framework version 2 also provides APIs. For SLD entries and integration framework transactions, you can use the version 2 APIs.

## 1.2 JobCreator

The *JobCreator* creates a job in the job queue document for the *JobExecutor*. Use *JobCreator* for BizFlow calls that use Xcellerator functions, if the Xcellerator is not available, for example during installation, or, if you want to use asynchronous processing. For more information, see the previous section.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/JobCreator.bfd

**Parameters**

The *JobCreator* has one parameter (*bfd*). This parameter specifies the BizFlow that the system calls and it additionally covers all typical parameters of all B1ifAPI calls. For more information, see the section of the call for parameter definitions.

**bfd**

Name of the BizFlow you want to call. Use the full BizStore URI with syntax /ds/grp/x.bfd.

**Job Queue Document**

/com.sap.b1i.vplatform.system/job/jobqueue.xml

<jobqueue xmlns="">

<job bfd="bizflow" jobid="guid" created="ts">

<par name="name" value="value"/>

...

</job>

...

<job bfd="bizflow" jobid="guid" created="ts">

<par name="name" value="value"/>

...

</job>

</jobqueue>

**Result**

The BizFlow returns a three digits code in text format. If the return code is not 000, the system has not created a job.

000

001 (BizFlow is empty)

**Job Executor**

The *JobExecutor* retrieves all jobs from the job queue document and calls the referenced BizFlow. When B1iP starts, it calls the *JobExecutor*.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/JobExecutor.bfd

**Job Queue Document**

/com.sap.b1i.vplatform.system/job/jobqueue.xml

The *JobExecutor* maintains a result document:

/com.sap.b1i.vplatform.system/job/jobexecution.xml

The integration framework inserts entries in a ring buffer with up to 100 entries.

<jobexecution>

<job bfd="bizflow" jobid="guid" created="ts" executed="ts" result="result">

<par name="name" value="value"/>

...

</job>

...

<job bfd="bizflow" jobid="guid" created="ts" executed="ts" result="result">

<par name="name" value="value"/>

...

</job>

</jobexecution>

## 1.3 B1ifAPI

The B1if API creates a job in the internal job queue for the *JobExecutor*. The integration framework uses the *JobCreator* to call a B1if API function using http. For more information, see section *Calling APIs*

**URL**

http://<ipaddress>:8080/B1iXcellerator/exec/ipo/vPlatformIDE/com.sap.b1i.vplatform.ide/ipo/vPlatform.ide.ipo/B1ifAPI?bfd=<bfd>

**Parameters**

<ipaddress>

It is the IP address or logical name of the integration framework server.

<bfd>

The *JobCreator* has one parameter (*bfd*) to define the BizFlow the integration framework calls. It additionally covers all parameters of all B1ifAPI calls. For more information, see the section of the call for parameter definitions.

**Example**

http://localhost:8080/B1iXcellerator/exec/ipo/vPlatformIDE/com.sap.b1i.vplatform.ide/ipo/vPlatform.ide.ipo/B1ifAPI?bfd=vPacAddSystem&vpac=sap.Xcelsius&sldref=001sap0001&par0=entryname&par3=newcompany

**Result**

<result status="status">

<job bfd="bizflow" jobid="id" created="ts" par="parstring" />

</result>

status

It is the status of the job creation, 000 indicates success, 001 indicates that an error occurred.

jobid

This is the identifier of the job. You can use it for checking the job result after processing.

created

This is the timestamp of the job creation.

par

These are all parameter with values.

# 2 System Landscape Directory (SLD) APIs

To access and edit an SLD entry, use the following APIs:

* To create, update or delete an SLD entry with a known SysId (SLD entry identifier), use the SLDCreateSysId API.
* If you want to create an SLD entry and you want the API to generate a new SysId, use the GenSystemToSLD API.

Alternatively, you can use the APIs of the integration framework version 2.

## 2.1 Creating, Updating, or Deleting an SLD Entry

To create, update or delete an SLD entry, use the SLDCreateSysId API.

**Creation**

If you create an entry, you can optionally hand over parameters. If you do not hand over parameters, the integration framework uses the default values.

**Update**

To update an entry, only hand over values that you want to update. The integration framework does not change the other values.

**Deletion**

If you want to delete an entry, hand over the action that indicates deletion and the SysId for the system that you want to delete.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/SLDCreateSysId.bfd

The integration framework performs the following operations:

Create, update or delete the following SLD documents:

* /com.sap.b1i.system.sld.directory/SysId.xml/sysid(Id)
* /com.sap.b1i.system.sld.directory/SysId.xml/b1Server!!company(SourceSite!!EventSource) (if B1)
* /com.sap.b1i.system.sld.directory/SysId.xml/company(EventSource) (if B1)

Update or create the routing tree document:

* /com.sap.b1i.system.sld.directory/RoutingTree.xml/RoutingTree(unified)

Update or create the deployment document for test connection:

* /com.sap.b1i.system.xc/xml.deployments/com.sap.b1i.system.sld.connection.xml(unified)

**Parameters**

action, sysid, systype, crypt, par0, ..., par28

Example:

sysid=001xxx0009,systype=J.AnySystem

Do not enter blanks after the comma.

**Mandatory Parameters**

For deletion: action=delete, sysid=sysid

For an update: sysid=sysid,systype=systype

**Values for the Action Parameter**

| **Parameter Value** | **Description** |
| --- | --- |
| empty | The mode is create, if the entry does not exist. The mode switches to update, if the entry already exists. |
| insert | The mode is create, if the entry does not exist. The mode switches to update, if the entry already exists. |
| update | The mode is create, if the entry does not exist. The mode switches to update, if the entry already exists. |
| delete | The mode is delete. |

If the mode is create and the integration framework does not hand over some of the par0 … par20 parameters, the integration framework uses the default values. If the mode is update and the system does not hand over some of the par0 … par28 parameters, the integration framework uses the existing values.

Parameter: sysid

This is the ten digits SysId with syntax 001xxxXXXX.

xxx is the vendor namespace. It is the unique vendor abbreviation.

XXXX is consecutive numbering starting with 0000.

You can define unique identifiers (SysIds) for the systems in the SLD. You are responsible that the SysIds are unique.

**Values for systype Parameter**

| **Parameter Value** | **Description** |
| --- | --- |
| B1.2004 | SAP Business One 2004 |
| B1.2005 | SAP Business One 2005 |
| B1.2007 | SAP Business One 2007 |
| B1.8.8 | SAP Business One 8.8 |
| B1.9.0 | SAP Business One 9.0 |
| E.AnySystem | E-Mail Server |
| ECC6.0 | SAP ERP ECC 6.0 |
| P.AnySystem | FTP Server |
| R3.46C | SAP ERP R/3 4.6 C |
| R3.47.100 | SAPERP R/3 4.7 100 |
| R3.47.200 | SAPERP R/3 4.7 200 |
| F.AnySystem | File System |
| H.AnySystem | HTTP |
| J.AnySystem | Database |
| P.AnySystem | FTP Server |
| T.AnySystem | Scheduler |
| W.AnySystem | Web service |

**Values for crypt Parameter**

| **Parameter Value** | **Description** |
| --- | --- |
| true | The system encrypts all passwords (this is the default if the parameter is not handed over) |
| false | The system stores all passwords in plain text |

**par0, …, par28 Parameters**

The parameters depend on the systype.

For more information, see section *2.3 Parameters for SLD System Types*

**Return Code**

<result jobid="" sysid="">

<result>3 digit number</result>

</result>

The result returns a three-digit code, optionally with additional information. If the return code is not 000, there is no change in the SLD.

| **Return Code** | **Description** |
| --- | --- |
| 000 |  |
| 001 | SysId is empty |
| 002 | SysId length is not 10 |
| 003 | SysId does not start with 001 |
| 004 | SysType is empty |
| 005 | wrong SysType systype |
| 006 | not correct Systype currentsystype - systype |
| 007 | nothing to delete |
| 008 | sequence number wrong |
| 009 | sequence number overflow |

*jobid* is the job ID if the task is triggered using the JobCreator, for more information, see section *1 Calling APIs*

*sysid* is the identifier of the created, changed or deleted SLD entry

## 2.2 Generating a New SLD Entry

The GenSystemToSLD API generates a new SysId and creates an SLD entry. You can optionally hand over parameters. If you do not hand over parameters, the system uses the default values.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/GenSystemToSLD.bfd

**Mandatory Parameter**

sldref

**Parameters**

sldref, par0, …, par28

sldref

Instead of handing over all parameters to specify a new SLD entry, you can hand over the sldref parameter. With the parameter you can point to a reference system in the SLD. The API takes the values from the reference system for all parameters that you do not explicitly hand over. This is helpful if you want to add an SLD entry for a new company database of an SAP Business One system and there is already an entry available in SLD for another company database.

The sldref parameter is optional and it can be a SysId, a SysType or a b1server address. The API searches for a matching SysId. If it cannot find it, it takes the value of the sldref parameter as a SysType and picks up the first SLD entry of this type. If this fails, it takes the value of the sldref parameter as a b1server and picks up the first SLD entry that has this value in the b1server parameter. If this also fails, there is no SLD reference and the API uses the handed over parameters or the default values of the SLDCreateSysId API. For more information, see section 3 of this guide.

par0, …, par28

For more information, see section *2.3 Parameters for SLD System Types*

**Return Code**

<call jobid="">

<sysid>0010000180</sysid>

<result>000</result>

<operation status="000" jobid="" systype="B1.8.8" sldref="0010000112" vpac="">

<biulist />

<SLDParams>parameter ...</SLDParams>

</operation>

</call>

result returns a 3-digit code, optionally with additional information. If the return code is not 000, there is no change in the SLD.

000

008 (sequence number wrong)

009 (sequence number overflow)

jobid is the job ID if the task is triggered using the JobCreator.

For more information, see section 1 of this guide.

The element sysid (in the above example 0010000180) is the SysId the API has generated

## 2.3 Parameters for SLD System Types

**B1 Parameters**

| **Parameter Name** | **Description** |
| --- | --- |
| par0 | Name of the system, default: sysid |
| par1 | b1Server IP address, default: 127.0.0.1 |
| par2 | license server, default: b1Server:30000 |
| par3 | Name of company database, default: SBODemoUS |
| par4 | Database type, default: 4,  1: Microsoft SQL Server 2000,  2: IBM DB2,  4: Microsoft SQL Server 2005,  5: MaxDB,  6: Microsoft SQL Server 2008,  7: Microsoft SQL Server 2012,  8: Microsoft SQL Server 2014;  9: SAP HANA DB  10: Microsoft SQL Server 2016 |
| par5 | Database user name, default: sa |
| par6 | Database password, default: sa |
| par7 | B1 user, default B1i |
| par8 | B1 password, default B1i |
| par9 | Language for B1 login, default: 4  1=Hebrew, 2=AR Spanish, 3=US English, 5=Polish, 6=SG English, 7=PA Spanish, 8=GB English, 9=German, 0=Serbian, 11=Danish, 12=Norwegian, 13=Italian, 14=Hungarian, 15=Chinese, 16=Dutch, 17=Finnish, 18=Greek, 19=Portuguese, 20=Swedish, 21=CY English, 22=French, 23=Spanish, 24=Russian, 25=LA Spanish, 26=Czech, 27=Slovak, 28=Korean, 29=BR Portuguese, 30 Japanese, 31=Turkish, 35=TrdtnlChinese HK.Chinese,  empty is the default setting in SAP Business One |
| par10 | IP address of DIproxy, default: b1Server |
| par11 | Port of DIproxy, default: 2099 |
| par12 | Ip address or proxy server, default: empty |
| par13 | Port of proxy server, default: empty |
| par14 | JDBC driver  default if db type=4: com.microsoft.sqlserver.jdbc.SQLServerDriver  default if db type=5: com.sap.dbtech.jdbc.DriverSapDB  default if db type=6: com.microsoft.sqlserver.jdbc.SQLServerDriver  otherwise empty |
| par15 | JDBC URLl  default if db type=4: jdbc:sqlserver://b1server:1433;integratedSecurity=false;  databaseName=company;selectMethod=cursor  default if db type=5: jdbc:sqlserver://b1server:1433;databaseName=company;  SelectMethod=Cur  default if db type=6: jdbc:sqlserver://b1server:1433;integratedSecurity=false;  databaseName=company;selectMethod=cursor,  otherwise empty |
| par16 | Database user, default: par5 |
| par17 | Database password, default par6 |

**Web Services Parameters**

| **Parameter Name** | **Description** |
| --- | --- |
| par0 | Name of the system, default: sysid |
| par1 | destProtocol, default: http |
| par2 | destHost, default: empty |
| par3 | destPort, default: empty |
| par4 | destPath, default: empty |
| par5 | query, default: empty |
| par6 | proxyHost, default: empty |
| par7 | proxyPort, default: empty |
| par8 | authentication, default: basic |
| par9 | user, default: empty |
| par10 | password, default: empty |
| par11 | sslTruststorePath, default: empty |
| par12 | sslTruststorePassword, default: empty |
| par13 | associatedSrvIP, default: empty |
| par17 | trustStoreURI, default: empty |
| par18 | keyStoreURI, default: empty |

**HTTP Call Parameters**

|  |  |
| --- | --- |
| **Parameter Name** | **Description** |
| par0 | Name of the system, default: sysid |
| par1 | destProtocol, default: http |
| par2 | destHost, default: empty |
| par3 | destPort, default: empty |
| par4 | destPath, default: empty |
| par5 | query, default: empty |
| par6 | proxyHost, default: empty |
| par7 | proxyPort, default: empty |
| par8 | authentication, default: basic |
| par9 | user, default: empty |
| par10 | password, default: empty |
| par11 | sslTruststorePath, default: empty |
| par12 | sslTruststorePassword, default: empty |
| par13 | associatedSrvIP, default: empty |
| par14 | method, default: post |
| par15 | user2query, default: empty |
| par16 | password2query, default: empty |
| par17 | trustStoreURI, default: empty |
| par18 | keyStoreURI, default: empty |

**File System Parameters**

| **Parameter Name** | **Description** |
| --- | --- |
| par0 | Name of the system, default: sysid |
| par1 | filePattern for incoming files, default: c:\b1if\in\\*.\* |
| par2 | character encoding, default: 1  1=ISO-8859-1, 2= ISO-8859-2, 3= ISO-8859-3, 4= ISO-8859-4, 5= ISO-8859-5, 6= ISO-8859-6, 7= ISO-8859-7, 8= ISO-8859-8, 9= ISO-8859-9, 10= ISO-8859-11, 11= ISO-8859-13, 12= ISO-8859-14, 13= ISO-8859-15, 14= ISO-8859-16, 15=US-ASCII, 16=EBCDIC, 17=Shift-JIS, 18=EUC-JP, 19=ISO-2022, 20=GB2312, 21=EUC-KR, 22=Big-5, 23=UTF-7, 24=UTF8, 25=ISO-10646-UCS2, 26=ISO-10646-UCS4. |
| par3 | delimiter if inbound is csv file, default: , |
| par4 | wrap char if inbound csv file, default: empty |
| par5 | payload type of incoming file, default: 1  1=automatic detection, 2=xml file, 3=dsv file, 4=txt file, 5=regex file |
| par6 | rule document in case of offset/regex specified inbound transformation rule, default: empty |
| par7 | filePattern for outgoing files, default: c:\b1if\out\\*.xml |

**Database System Parameters**

|  |  |
| --- | --- |
| **Parameter Name** | **Description** |
| par0 | Name of the system, default: sysid |
| par1 | JDBC driver, default: com.microsoft.sqlserver.jdbc.SQLServerDriver |
| par2 | JDBC URL, default: jdbc:sqlserver://IPADDRESS1433;integratedSecurity=false;  databaseName=DBNAME;selectMethod=cursor |
| par3 | DB user, default: sa |
| par4 | DB password, default: sa |

**SAP R/3 System Parameters**

| **Parameter Name** | **Description** |
| --- | --- |
| par0 | Name of the system, default: sysid |
| par1 | Application Server [active and passive], default: empty |
| par2 | Client [active and passive], default: empty |
| par3 | User [active and passive], default: empty |
| par4 | Password [active and passive], default: empty |
| par5 | Language [active and passive], default: EN |
| par6 | System number [active and passive], default: 00 |
| par7 | Maximum connections [active and passive], default: 5 |
| par8 | Gateway host [active and passive], default: empty |
| par9 | Gateway service number [active and passive], default: sapgw00 |
| par10 | Sender partner [active], default: empty |
| par11 | Sender port [active], default: empty |
| par12 | Receiver partner [active], default: empty |
| par13 | Receiver port [active], default: empty |
| par14 | Program ID [passive], default: empty |
| par15 | Unicode switch [passive], default: false |

**SAP ERP System (ECC6.0) Parameters**

| **Parameter Name** | **Description** |
| --- | --- |
| par0 | Name of the system, default: sysid |
| par1 | Application Server [active and passive], default: empty |
| par2 | Client [active and passive], default: empty |
| par3 | User [active and passive], default: empty |
| par4 | Password [active and passive], default: empty |
| par5 | Language [active and passive], default: EN |
| par6 | System number [active and passive], default: 00 |
| par7 | Maximum connections [active and passive], default: 5 |
| par8 | Gateway host [active and passive], default: empty |
| par9 | Gateway service number [active and passive], default: sapgw00 |
| par10 | Sender partner [active], default: empty |
| par11 | Sender port [active], default: empty |
| par12 | Receiver partner [active], default: empty |
| par13 | Receiver port [active], default: empty |
| par14 | Program ID [passive], default: empty |
| par15 | Unicode switch [passive], default: false |
| par16 | destProtocol, default: http |
| par17 | destHost, default: empty |
| par18 | destPort, default: empty |
| par19 | destPath, default: empty |
| par20 | query, default: empty |
| par21 | proxyHost, default: empty |
| par22 | proxyPort, default: empty |
| par23 | authentication, default: basic |
| par24 | user, default: empty |
| par25 | password, default: empty |
| par26 | sslTruststorePath, default: empty |
| par27 | sslTruststorePassword, default: empty |
| par28 | associatedSrvIP, default: empty |

# 3. Scenario Package APIs

## 3.1 Refreshing a Scenario Package

To guarantee a consistent status, the *Refresh* API runs through all scenario steps of a scenario package. For each scenario step, it regenerates all XSL documents and the BizFlow definition document. We recommend running the API before activating a scenario package using an API.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/vPacRefresh.bfd

You can directly call the BizFlow in your BizFlow, externally or indirectly using the *JobCreator*.

**Parameters**

id, mode

id

This is the name of the scenario package.

mode

This is the working mode of the API.

The value ALLBFDXSLVAR regenerates all documents.

**Result**

The result is an XML document with the following structure:

<call jobid="number" id="package identifier" mode="ALLBFDXSLVAR">

<result>000</result>

</call>

**result**

|  |  |
| --- | --- |
| **result** | **Description** |
| 000 |  |
| 001 | Parameter ID is not defined |
| 002 | Parameter ID is empty |
| 003 | Scenario package does not exist |

## 3.2 Activating or Deactivating a Scenario Package

The Activate API activates or deactivates a scenario package. It is a prerequisite that the setup definition exists in the BizStore, defined in document /com.sap.b1i.vplatform.scenarios.setup/vPac.*identifier*/vPac.xml.

For the schema, see the Schema guide, section *3.1 Scenario Package – Setup Description*

We recommend running the Refresh API before activating the scenario package.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/vPacActivate.bfd

You can directly call this BizFlow directly in your BizFlow, externally or indirectly using the *JobCreator*.

**Parameters:**

id, mode

id

This is the name of the scenario package.

mode

This is the working mode of the API.

If you set the mode to activate, this activates the scenario package. If you set the mode to deactivate, this deactivates the scenario package.

**Result**

The result is an XML document with the following structure:

<call jobid="number" id="package identifier" mode="mode">

<result>000</result>

</call>

**Result**

|  |  |
| --- | --- |
| **result** | **Description** |
| 000 |  |
| 001 | ID Parameter is not defined |
| 002 | ID Parameter is empty |
| 003 | Scenario package does not exist |
| 004 | Parameter mode is not defined |
| 005 | Parameter mode is empty |
| 006 | Parameter mode has a wrong value (activate, deactivate) |
| 007 | Scenario package is not setup |

## 3.3 Adding a System to an Existing Scenario Package

The *AddSystem* API updates the scenario package configuration by adding a system. If the scenario package has been active, the API automatically reactivates it.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/vPacAddSystem.bfd

**Mandatory Parameters**

sysid, vpac

**Parameters**

sysid, vpac, sbiu, rbiu

sysid

This is the SLD identifier (SysId) of the system you want to add to the scenario package configuration.

vpac

This is the identifier of the scenario package you want to add the new system to. The API does not change anything in the integration framework setup, if this parameter is not correct.

sbiu

It is the default that the API adds the new system as a sender system for all scenario steps of the scenario package (vpac parameter) where the inbound channel is the system type of the SysId. If you want to add the new system as a sender system for scenario steps only, you can define the relevant scenario steps using this parameter, separated by comma. The API adds the new system as a sender system only for the defined scenario steps.

rbiu

It is the default that the API adds the new system as a receiver system for all scenario steps of the scenario package (vpac parameter) where the outbound channel is the system type of the SysId. If you want to add the new system as a receiver system for scenario steps only, you can define the relevant scenario steps using this parameter, separated by comma. The API adds the new system as a receiver system only for the defined scenario steps.

**Result**

|  |  |
| --- | --- |
| **result** | **Description** |
| 000 |  |
| 001 | sysid empty |
| 002 | vpac empty |
| 003 | wrong sysid |

## 3.4 Generating or Adding a System to an Existing Scenario Package

The *GenAddSystem* API creates an entry in the SLD and updates the scenario package. If the scenario package has been active, the API automatically reactivates the scenario package.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/vPacGenAddSystem.bfd

**Mandatory Parameters**

vpac, [systype | sldref]

**Parameters**

vpac, systype, sldref, sbiu, rbiu, par0, …, par28

vpac

This is the identifier of the scenario package you want to add the new system to. The API does not change anything in the integration framework setup, if this parameter is not correct.

systype

This parameter is mandatory, if you do not define the sldref parameter. Define the type of system you want to add to the scenario package. If you define the sldref parameter, the API uses the SysType of the reference SLD entry.

sldref

Instead of handing over all parameters to specify a new SLD entry, you can hand over the sldref parameter. With this parameter you can point to a reference system in the SLD. The API takes the values from the reference system for all parameters that you do not explicitly hand over. This is helpful if you want to add a new SLD entry for a new company database of an SAP Business One system and there is already an entry in the SLD for another company database.

The parameter sldref is optional and it can be a SysId, a SysType or a b1server address. First the API searches for a matching SysId. If this fails, it takes the value of the *sldref* parameter as a SysType and picks up the first SLD entry of this type. If this also fails, it takes the value of the sldref parameter as a b1server and picks up the first SLD entry that has this value in the parameter *b1server*. If this also fails, there is no SLD reference and the API uses the handed over parameters or the default values of the API SLDCreateSysId. For more information, see section 3 of this guide.

sbiu

It is the default that the API adds the new system as a sender system for all scenario steps of the scenario package (vpac parameter) where the inbound channel is the system type of the SysId. If you want to add the new system as a sender system for scenario steps only, you can define the relevant scenario steps using this parameter, separated by comma. The API adds the new system as a sender system only for the defined scenario steps.

rbiu

It is the default that the API adds the new system as a receiver system for all scenario steps of the scenario package (vpac parameter) where the outbound channel is the system type of the SysId. If you want to add the new system as a receiver system for scenario steps only, you can define the relevant scenario steps using this parameter, separated by comma. The API adds the new system as a receiver system only for the defined scenario steps.

par0, … par28

The parameters depend on the system type you want to add. For more information, see section 2.3 Parameters for SLD System Types

**Result**

| **result** | **Description** |
| --- | --- |
| 000 |  |
| 001 | scenario package identifier missing |
| 002 | systype identifier missing |
| 003 | unknown systype |
| 004 | scenario package identifier is wrong |

Example for using this API to add a new B1 company database to the sap.Xcelsius package:

http://localhost:8080/B1iXcellerator/exec/ipo/vPlatformIDE/com.sap.b1i.vplatform.ide/ipo/vPlatform.ide.ipo/B1ifAPI?bfd=vPacGenAddSystem&vpac=sap.Xcelsius&sldref=001sap0001&par0=entryname&par3=newcompany

## 3.5 Deleting a System in an Existing Scenario Package

The *DelSystem* API deactivates the scenario package, if it is active and updates the setup of the scenario package by removing the system from all scenario steps. If the scenario package is active, the API automatically reactivates the package. If the sld parameter is set to ‘true’, the API also removes the system from SLD.

**BizFlow**

/com.sap.b1i.vplatform.system/bfd/vPacDelSystem.bfd

**Mandatory Parameters**

vpac, sysid

**Parameters**

vpac, sysid, sld

**vpac**

This is the identifier of the scenario package you want to add the new system to. The API does not change anything in the integration framework setup, if this parameter is not correct.

**sysid**

This parameter specifies the SLD identifier (SysId) of the system you want to remove.

**sld**

If you set the parameter to true, API also removes the system from the SLD. The default is false.

**Result**

|  |  |
| --- | --- |
| **result** | **Description** |
| 000 |  |
| 001 | scenario package identifier missing |
| 002 | sysid missing |
| 003 | sysid id wrong |
| 004 | scenario package identifier is wrong |

Example for calling the API to remove system 0010000555 from the sap.Xcelsius package and from the SLD:

http://localhost:8080/B1iXcellerator/exec/ipo/vPlatformIDE/com.sap.b1i.vplatform.ide/ipo/vPlatform.ide.ipo/B1ifAPI?bfd=vPacDelSystem&vpac=sap.Xcelsius&sysid=0010000555&sld=true

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