



## **External Tool Integration API in Focused Build** How to integrate external software development tools

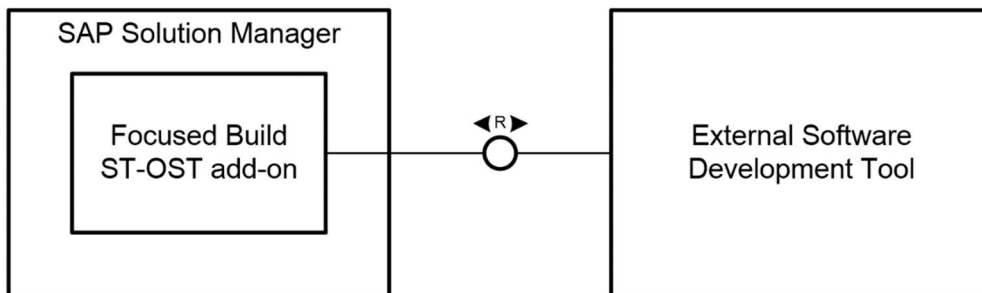
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## 1 OVERVIEW

For Focused Build, an external tool integration API is provided by SAP. This API enables you to connect an external software development tool, such as Atlassian Jira or Microsoft Team Foundation Server, to SAP Solution Manager. To keep the API generic, the communication is based on OData web services. The SAP Solution Manager side of the API is delivered as part of the ST-OST add-on, but the integration on the external tool side is not delivered by SAP due to the possible amount of variations (combination of different tools with a different version, setup, or customizing).

This document describes the capabilities of the API and provides the necessary technical details to build an integration on the external tool side.

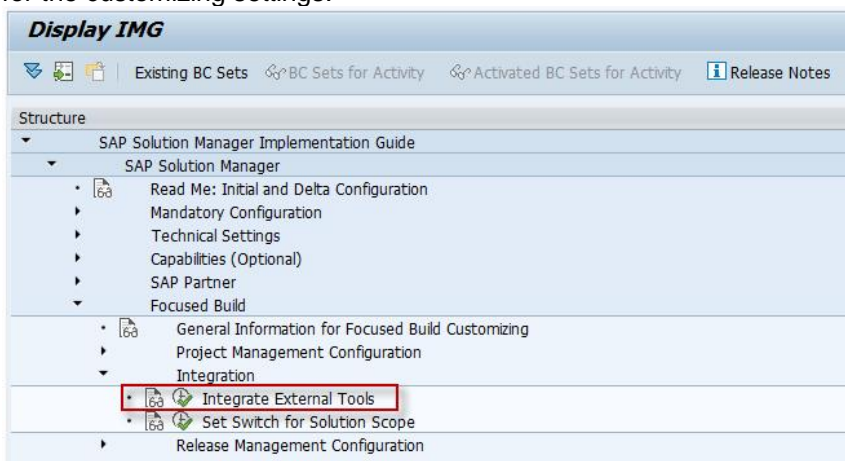


The API consists of two parts:

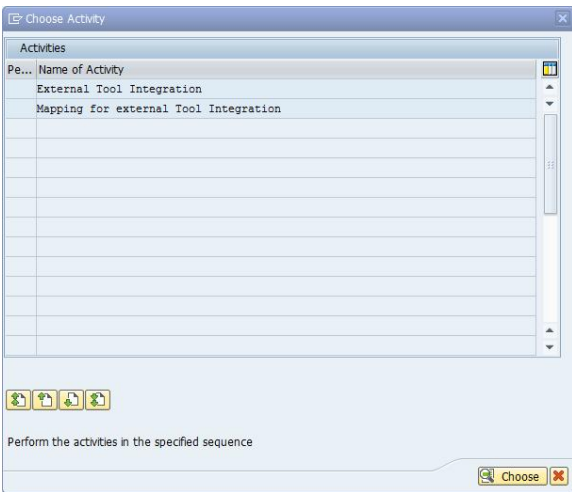
- The outbound channel that calls an OData web service of the external tool to create and update work packages/items in the external tool.
- The inbound channel, which is a web service, that is called by the external tool to update the status of an existing work package/item.

In Focused Build, the outbound channel is triggered automatically via Change Request Management Framework actions. The action name is S1\_CALL\_EXT.

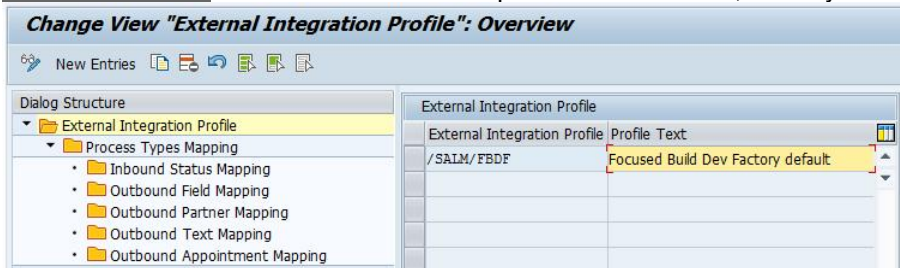
The customizing of the API in Solution Manager 7.2 is done via transaction SPRO, is always the entry point for the customizing settings:



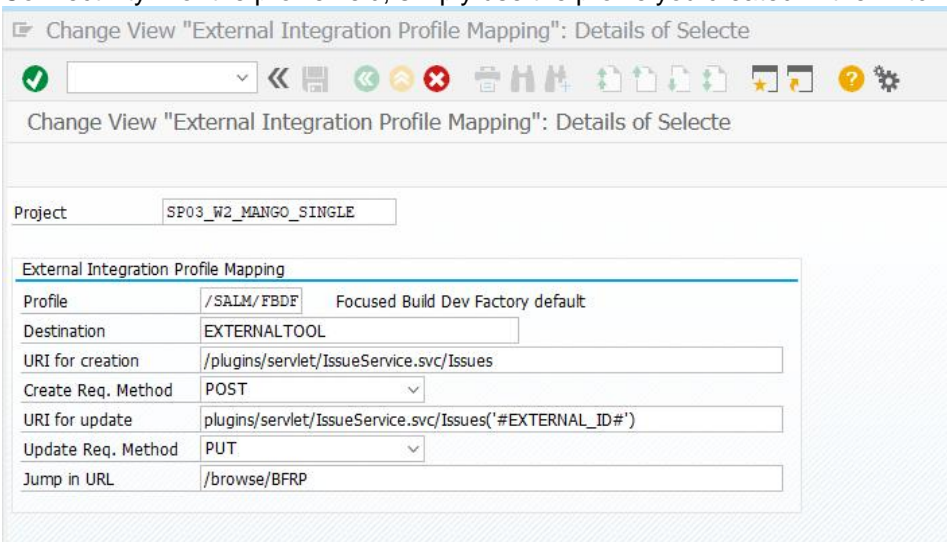
When you execute the *Integrate External Tools* customizing, two activities are displayed:



In the *External Tool Integration* activity, you create a profile in which you define the mapping as described in chapter [Create / Update Work Package/Work Item in External Tool](#) and chapter [Update Work Item Status in Solution Manager](#). There is one delivered profile `/SALM/FBDF`, which you can use as an example.

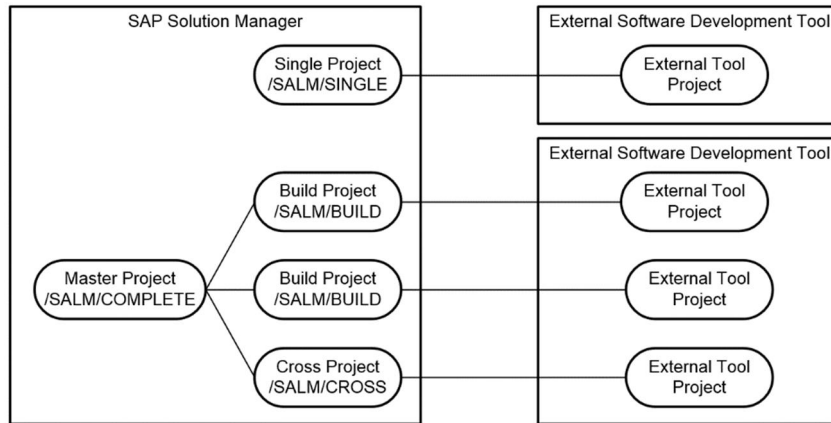


In the *Mapping for external Tool Integration* activity, you adjust the project mapping customizing settings. You must fill all fields as described in chapter [Project Mapping and Connectivity](#). For the profile field, simply use the profile you created in the *External Tool Integration* activity.



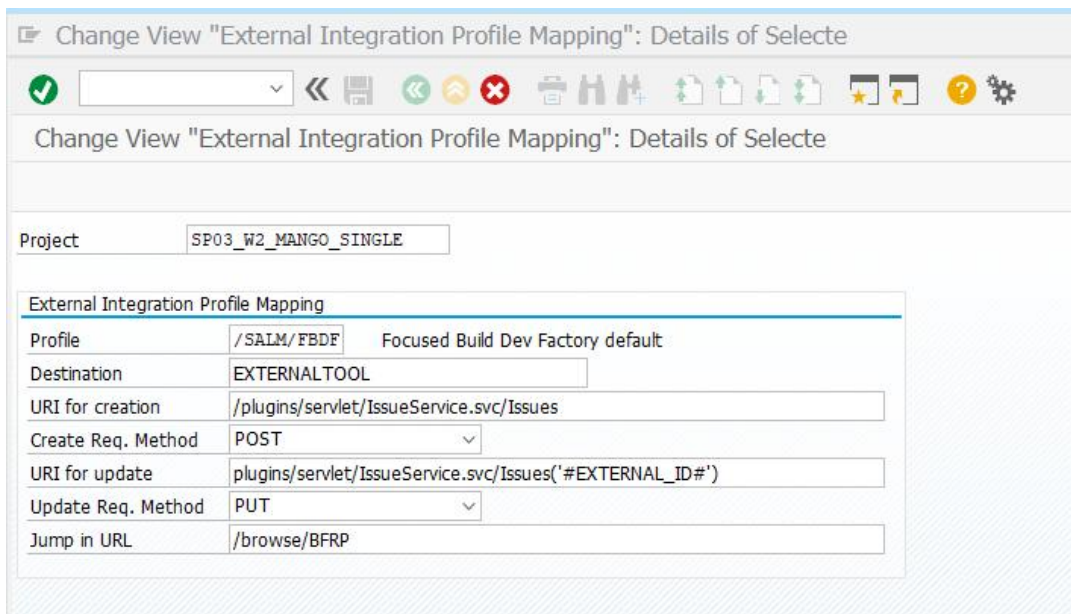
## 2 PROJECT MAPPING AND CONNECTIVITY

In Focused Build, work packages and work items are assigned to cPro projects. The configuration entity for the API is the cPro project level. This means that you can have different API configurations per cPro project. This even allows you to send work packages and work items from one cPro project to an external tool while work packages and work items from other cPro projects are synchronized with another external tool.



### 2.1 Project Mapping Customizing

The API configuration concept described above is reflected in the API customizing. Entry point is the *Project Mapping* where the key of the API configuration set is the cPro *project number*.



*Destination* is an RFC destination of type G (HTTP connection to external server). On this level, you use *Destination* to define the external requirement tool that the outbound web service calls.

To generate the URL to the OData web service of the external tool, the API uses the host, port, and protocol from the RFC destination and concatenates it with the URIs that are defined in the project mapping customizing node. To provide full flexibility, you can define different URIs for create and update requests. You can also define the HTTP method. In the standard OData web service, the create call uses the POST method, and the update call uses the PUT method.

To update an object in the external tool, the OData service usually requires the object ID in the URL. The object ID of the external tool is stored in SAP Solution Manager as EXTERNAL\_ID. By masking the EXTERNAL\_ID with # characters, you can add the EXTERNAL\_ID to the URL.

Example:

```
/plugins/servlet/IssueService.svc/Issues('#EXTERNAL_ID#')
```

With an EXTERNAL\_ID = BRF-123, this will result in an update URL like:

```
https://examplehost.domain:8083/plugins/servlet/IssueService.svc/Issues('BRF-123')
```

If an external tool also uses a grouping entity for the work packages and work items, such as a project, and has a specific project entry page URI, then you can configure it in the **Jump in URL** field. If this field is filled, the link is displayed in the project maintenance UI:

The screenshot shows the SAP Solution Manager project maintenance interface. The title bar reads "Project: Single Project for MANGO SP03". Below the title bar, there are several tabs: "Structure", "Resources", "Status Reports", "Project Versions", and "Search". The "Structure" tab is active, and the "Detail" view is selected. The "External Tool Project" field is highlighted with a red box. The "Basic Data" tab is active, showing the following fields:

Name:	Single Project for MANGO SP03	Number:	SP03_W2_MANGO_SINGLE
Project Type:	Focused Build - Single Project	Reason:	
Responsible Role:	Program Manager	Responsible Resource:	
Responsible:			
Substitute:			Show Substitute Details
Description:			

## 2.2 Connectivity to External Tool

You must create the destination that is used in the API configuration in transaction SM59. It must be a connection of type G. On the *technical settings* tab, you maintain the host (*Target Host*) and https port (*Service No.*) of your external tool.

A prerequisite to activate SSL is that SSL is configured correctly in your SAP Solution Manager and that the selected SSL client trusts the certificate of your external tool.

For the communication to the external tool, we use a technical user that authenticates with Basic Authentication. The user and password are also maintained on the *Logon & Security* tab. For security reasons, it is therefore important that you set up the connectivity via SSL. On the *Logon & Security* tab, you activate SSL.

RFC Destination EXTERNALTOOL

Connection Test

RFC Destination: EXTERNALTOOL

Connection Type:  HTTP Connection to External Serv Description

Description

Description 1: Connection to external tool

Description 2:

Description 3:

Administration Technical Settings Logon & Security Special Options

Target System Settings

Target Host: examplehost.domain Service No.: 0003

Path Prefix:

HTTP Proxy Options

Global Configuration

Proxy Host:

Proxy Service:

Proxy User:

Proxy PW Status: is initial

Proxy Password: \*\*\*\*\*

Administration Technical Settings Logon & Security Special Options

Logon Procedure

Logon with User

Do not use a user

Basic Authentication

User: techuser

PW Status: saved

Password: \*\*\*\*\*

Logon with Ticket

Do Not Send Logon Ticket

Send ticket without reference to target system

Send assertion ticket for dedicated target system

System ID: Client:

Security Options

Status of Secure Protocol

SSL:  Inactive  Active

SSL Certificate: DEFAULT SSL Client (Standard) Cert. List

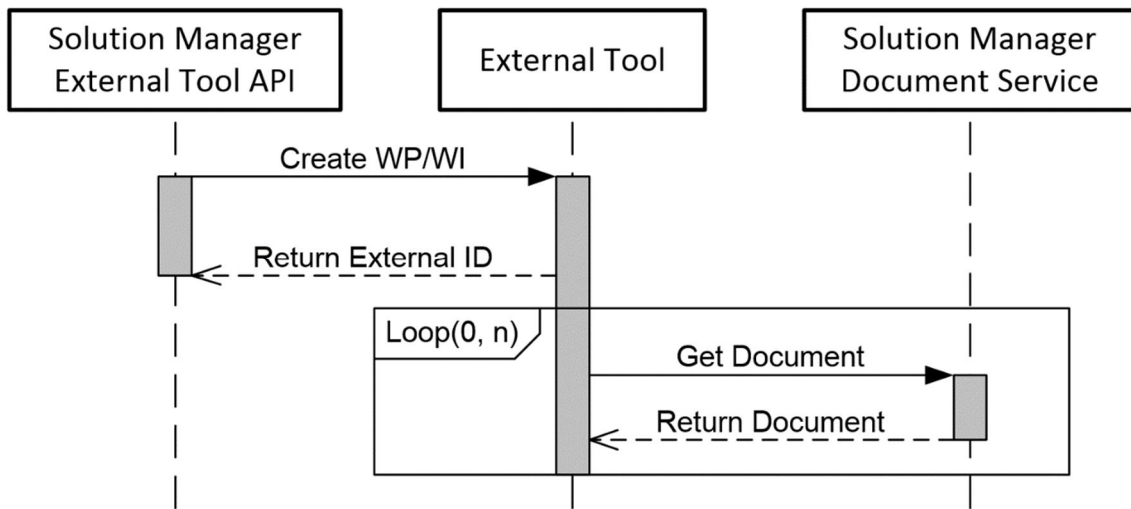
Authorization for Destination:

### 3 CREATE / UPDATE WORK PACKAGE/WORK ITEM IN EXTERNAL TOOL

As we want to provide a generic API, we use OData web service calls. The API generates a JSON file from the work package and work item that is sent to the OData web service of the external tool. The content of the JSON payload file is customizable.

In addition to “simple” properties, work packages and work items can also have attachments and attached documents (for example, specification documents, test cases...). From here on, we refer to them as documents.

As the call to the external tool is synchronous, we do not want to overload it by sending all documents with this call. Instead, the payload JSON file includes download references to the documents which are used by the external tool to download the documents and attach them to the corresponding external tool object (see sequence diagram below).



When the create call was successful, the external tool returns the EXTERNAL\_ID (object identifier in the external tool), which is then stored by SAP Solution Manager. The API also uses the EXTERNAL\_ID field to decide if the method of the call to the external tool is “create” or “update”. If the EXTERNAL\_ID is empty, a create call is done. Otherwise an update call is done in which you can use the EXTERNAL\_ID as described in the [Project Mapping Customizing](#) section.

#### 3.1 Process Type Customizing

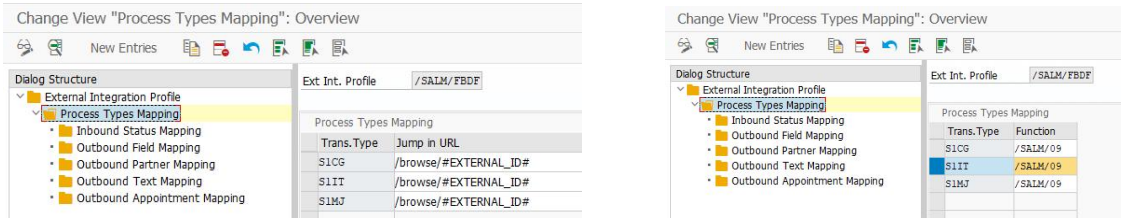
In Focused Build, you define work packages and work items. Technically, they are just different business transaction types (process types). The following process types are used in Focused Build:

SolMan Process Type	SolMan Description
S1IT	Work Package
S1CG	Work Item (General Change)
S1MJ	Work Item (Normal Change)



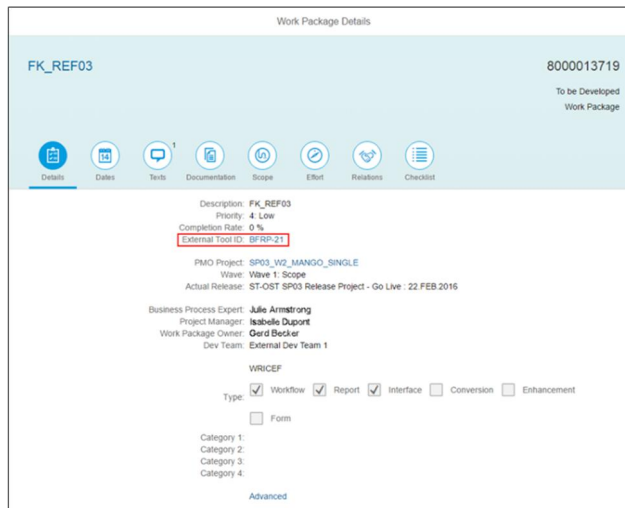
As the API behavior must be different depending on the process type, you can configure the API behavior for each process type individually. This is reflected in the API customizing.

In the *Process Types* node, you define which business transaction types can be used by the API:

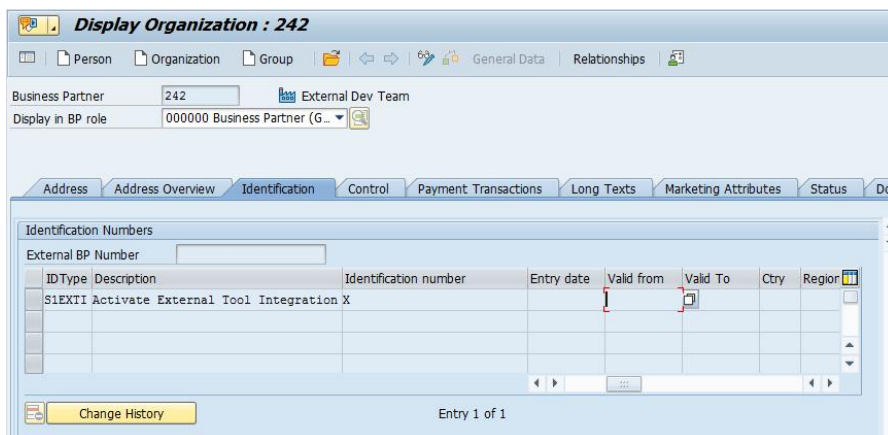


With the *Jump in URL* field you can set a URI that is used to create a direct jump-in link to the object in the external tool. The host, port, and protocol information from the destination that is defined in the project mapping is concatenated with the URI defined here. You can also mask the EXTERNAL\_ID with # characters to add the EXTERNAL\_ID to the URL.

Similar to a project, for the process types the jump-in link is shown only in the work package and work item UI5 application if the *Jump in URL* field is maintained and the EXTERNAL\_ID is not empty.



In the *Process Types* node, you must also maintain a *Partner Function*. The business partner assigned to the process type with the specified partner function is used to decide if the API is triggered. In Focused Build, it is usually checked against the partner function /SALM/09 (Dev Team). For this business partner, the identification number is checked. Only if the ID Type S1EXTI is set with the Identification Number X, the outbound channel of the API is triggered.

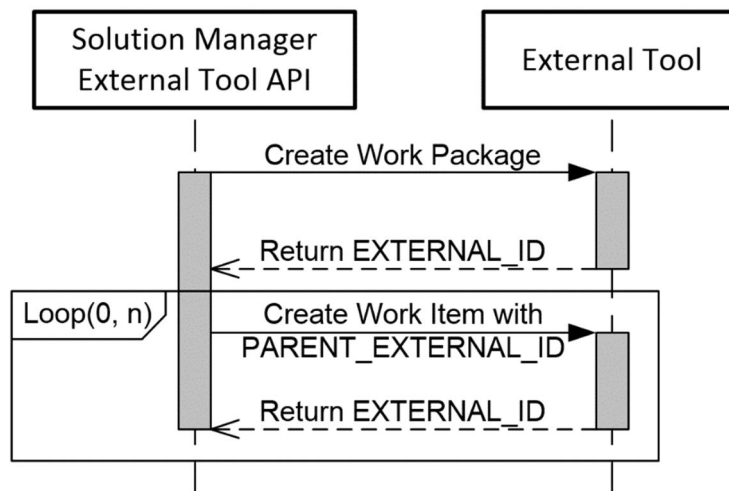


### 3.2 OData Payload Format

The generated JSON payload uses the standard JSON format. If a property can have more than one value (e.g. WRICEF\_ATTRIBUTES, PARTNER, APPOINTMENT...), arrays are used. You can find an example in the [Appendix](#) section.

### 3.3 Object Dependencies

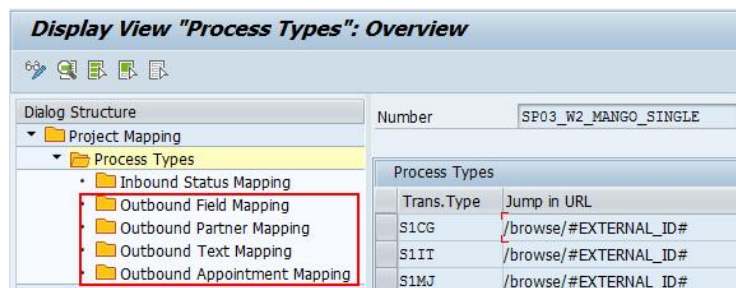
In Focused Build, there is always a 1:n relation between work packages and work items. The API that creates the work package and corresponding work items in the external tool is triggered when the action handover to development is executed. To enable the external tool to reflect this 1:n relation, SAP Solution Manager uses the EXTERNAL\_ID and the PARENT\_EXTERNAL\_ID. Once EXTERNAL\_ID is returned for the work package, it is used as the PARENT\_EXTERNAL\_ID of the corresponding work items.



This way, the external tool can also build up the correlation between work package and work item.

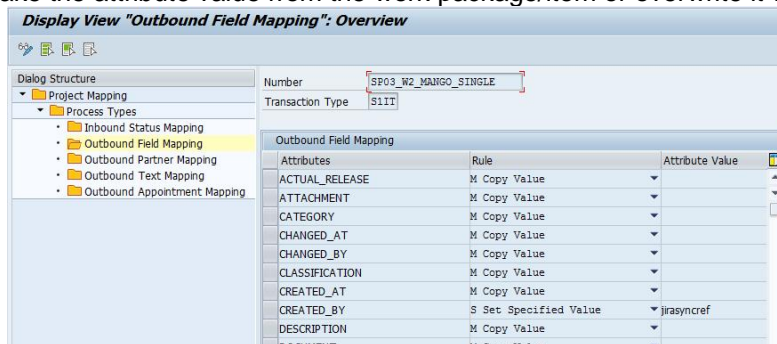
### 3.4 Payload Content Customizing

The payload content customizing is grouped into different sections per process type.



### 3.4.1 Outbound Field Mapping

In the outbound field mapping, you define which attributes of the work package/item are sent to the external tool. You can either take the attribute value from the work package/item or overwrite it with a fixed value.



#### Attribute

The attribute defined here, is part of the JSON file that is sent to the OData web service of the external tool.

#### Rule

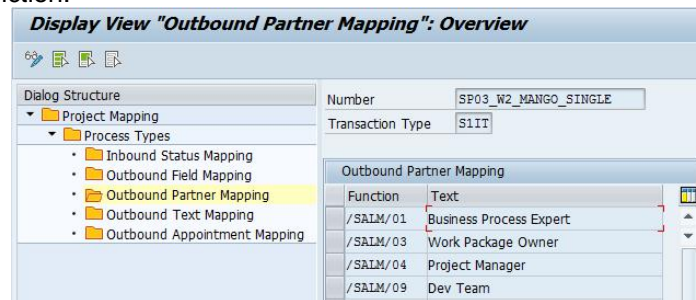
The Copy Value rule sends the attribute value of the work package or work item to the external tool. The Set Specific Value rule sends the fixed attribute value as it is defined in the customizing here.

#### Attribute Value

This is the fixed attribute value that is sent if you use the Set Specific Value rule.

### 3.4.2 Outbound Partner Mapping

In the outbound partner mapping, you define which business partner information is sent to the external tool based on the partner function.



#### Function

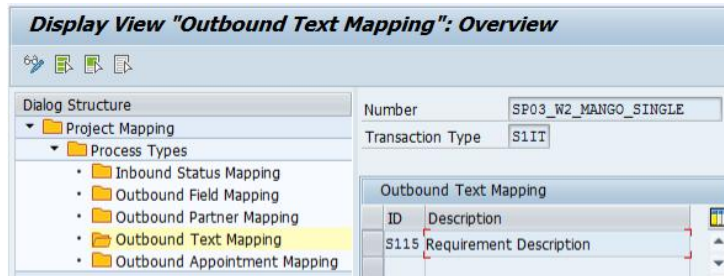
This is the partner function that identifies the business partner. For example:

- /SALM/01 (Business Process Expert)
- /SALM/03 (Work Package Owner)
- /SALM/04 (Project Manager)

If there is more than one business partner per partner function assigned to the work package, there is always one main contact. This is reflected in the parameter PARTNER\_MAIN.

### 3.4.3 Outbound Text Mapping

In the outbound text mapping, you define which texts of the work package or work item are sent to the external tool.

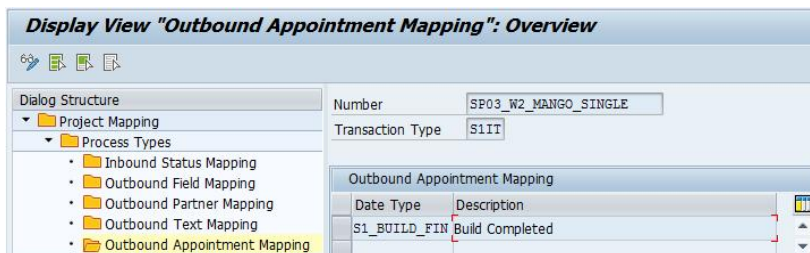


#### ID

The text of the work package/item with this Text ID is sent to the external tool. For example:  
S115 (requirement description; for work package)  
CD99 (overview; for work item)

### 3.4.4 Outbound Appointment Mapping

In the outbound appointment mapping, you define which appointments of the work package/item are sent to the external tool.



#### Date Type

The appointment with this date type is sent to the external tool. For example:  
S1\_BUILD\_FIN (Build Complete)

## 3.5 Document and Attachment Handling

As explained in chapter [Create / Update Work Package/Work Item in External Tool](#), the attached documents and attachments are not sent with the outbound OData web service call. Instead, the payload JSON file includes the property information of the document and a download link for the documents. See the [Appendix](#) section for examples.

On the external tool side, a logic must be implemented to download and attach the documents after the work package and work item were created.

## 3.6 OData Response

If the creation was successful, at least the EXTERNAL\_ID must be returned by the OData web service. See the [Appendix](#) section for an example.

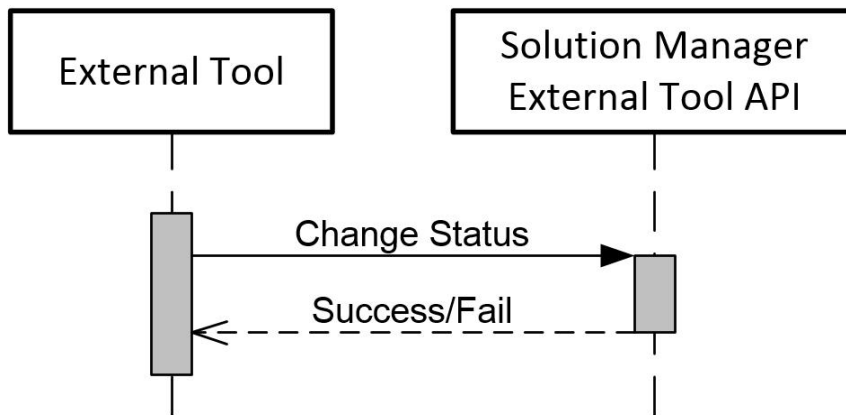
### 3.7 External Tool OData Web Service Requirements

To use the external tool integration API, the external tool must provide an OData web service that meets the following requirements:

- It provides basic authentication as authentication procedure and is called via HTTPS.
- It accepts the JSON payload that is sent by the SAP Solution Manager API.
- It maps the SAP Solution Manager fields to the corresponding fields in the external tool.
- It returns at least the EXTERNAL\_ID if the object was created successfully.
- It downloads documents asynchronously after the creation of the object.
- As SAP Solution Manager is the leading system for work packages, the corresponding objects on the external tool side are not modified after creation. Status updates are done only via the OData web service call.
- To be able to use the status update web service of SAP Solution Manager, the TICKET\_GUID must be stored on the external tool side.

#### 4 UPDATE WORK ITEM STATUS IN SOLUTION MANAGER

If a work item is synchronized to an external tool in context of Focused Build, the external tool is the leading system for this work item. To ensure the full capabilities of Focused Build, the status changes of work items in the external tool must be synchronized with SAP Solution Manager. Therefore, SAP Solution Manager provides an OData web service that can be called by the external tool.



##### 4.1 OData Web Service end point

The Odata Web Service end point on SAP Solution Manager side is:

```
https://<SolMan host>:<https port>
/opu/odata/SALM/EXT_INTEGRATION_SRV/StatusSet(Guid='TICKET_GUID')
```

When calling this OData web service, the TICKET\_GUID identifies the work item on SAP Solution Manager side. The TICKET\_GUID was provided by SAP Solution Manager in the create JSON payload and must be used in in the URL as well as in the OData payload JSON.

##### 4.2 OData Payload Format

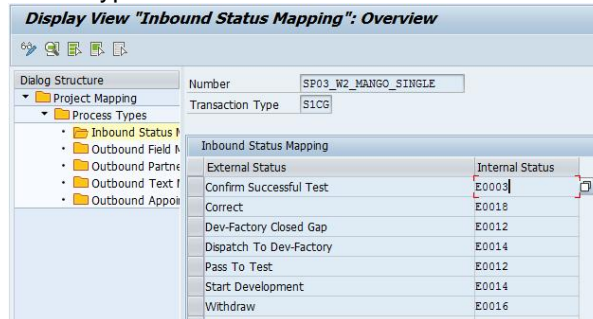
The OData payload sent to Solution Manager must have the following JSON content:

```
{
  "ExtStatus": "EXTERNAL_STATUS",
  "Guid": "TICKET_GUID"
}
```

The EXTERNAL\_STATUS can be any string, which is then mapped on SAP Solution Manager side to the corresponding status.

### 4.3 Inbound Status Mapping Customizing

In the *Inbound Status Mapping* customizing, you define the status mapping that is used when the external tool calls SAP Solution Manager to update the status of a work item. Like for the outbound mapping, the status mapping is done per process type.



#### External Status

This is a string sent by the external tool.

#### Internal Status

This is the internal status the work item must change to.

### 4.4 OData Response

After a successful status change on SAP Solution Manager side, the OData web service just returns an HTTP 204 status code.

If the status change fails, SAP Solution Manager returns an HTTP 500 status code and, in the response body, provides further information about the exception. See the [Appendix](#) section for an example.

### 4.5 External Tool OData Client Requirements

To use the status update OData web service, the external tool client side must implement the following requirements:

- Connectivity data to Solution Manager like web service URL and logon credentials is stored on external tools side in a secure area.
- It uses the correct JSON payload
- It uses the TICKET\_GUID to identify the work item on.
- If the status change fails on SAP Solution Manager side, either the status change on external tool side is blocked, or a queuing mechanism must be implemented to re-execute the status change.

## 5 APPENDIX

### 5.1 Create Payload JSON Example

#### Payload

```
{
  "SYSTEM_GUID": "00505683226E1EE5AED98BF0E4AD82E1",
  "EXTERNAL_ID": "",
  "PARENT_EXTERNAL_ID": "",
  "TICKET_ID": "8000013587",
  "TICKET_GUID": "00505683226E1EE5BEFB3A231046E491",
  "DESCRIPTION": "Work Package J45_PO Form_01",
  "PROCESS_TYPE": "S1IT",
  "CREATED_AT": "20160406092754",
  "CREATED_BY": "JIRASYNC",
  "CHANGED_AT": "20160705140732",
```

```

"CHANGED_BY": "testuser",
"STATUS": "E0022",
"STATUS_TXT": "To be Developed",
"SOLDOC_PROJECT": "ST_OST_SP2",
"SOLDOC_PROJECT_TXT": "ST-OST SP02 Master Projekt",
"PRIORITY": 2,
"PRIORITY_TXT": "2: High",
"IMPACT": 0,
"IMPACT_TXT": "",
"URGENCY": 0,
"URGENCY_TXT": "",
"EFFORT": 24480.00,
"EFFORT_UNIT": "MIN",
"PPM_PROJECT_ID": "SP03_W1_MABU_2",
"PPM_PROJECT_TXT": "MANGO Build Project 2 SP03 Wave 1",
"PPM_WAVE": "0000000000000000000000000000000000000000",
"PPM_WAVE_TXT": "",
"PPM_START_DATE": "00000000",
"PPM_FINISH_DATE": "00000000",
"PPM_COMPLETION": 30,
"PPM_TOTAL_WORK": 0,
"PPM_TOTAL_WORK_UNIT": "",
"REQUESTED_RELEASE_NO": "",
"REQUESTED_RELEASE_CLASS": "",
"REQUESTED_RELEASE_TYPE": "",
"REQUESTED_GO_LIVE_DATE": "00000000",
"FORECAST_RELEASE_NO": "1.0",
"FORECAST_RELEASE_CLASS": "ST-OST_SP2",
"FORECAST_RELEASE_TYPE": "S_MAJOR",
"FORECAST_GO_LIVE_DATE": "20150928",
"ACTUAL_RELEASE_NO": "1.1",
"ACTUAL_RELEASE_CLASS": "ST-OST_SP2",
"ACTUAL_RELEASE_TYPE": "S_MINOR",
"ACTUAL_GO_LIVE_DATE": "20151005",
"CLASSIFICATION": "1",
"CLASSIFICATION_TXT": "WRICEF",
"WRICEF_ATTRIBUTES": [{
  "KEY": "R",
  "VALUE": "Report"
}],
{
  "KEY": "F",
  "VALUE": "Form"
}],
"PARTNER": [{
  "PARTNER_FCT": "/SALM/01",
  "PARTNER_FCT_TXT": "Business Process Expert",
  "PARTNER_NO": "786",
  "PARTNER_NAME": "Julie Armstrong",
  "PARTNER_EMAIL": "julie.armstrong@examplehost.domain",
  "PARTNER_MAIN": ""
},
{
  "PARTNER_FCT": "/SALM/03",
  "PARTNER_FCT_TXT": "Work Package Owner",
  "PARTNER_NO": "4711",
  "PARTNER_NAME": "Gerd Becker",
  "PARTNER_EMAIL": "gerd.becker@examplehost.domain",
  "PARTNER_MAIN": ""
},
{
  "PARTNER_FCT": "/SALM/04",
  "PARTNER_FCT_TXT": "Project Manager",
  "PARTNER_NO": "801",
  "PARTNER_NAME": "Isabelle Dupont",
  "PARTNER_EMAIL": "isabelle.dupont@examplehost.domain",
  "PARTNER_MAIN": ""
},
{
  "PARTNER_FCT": "/SALM/09",
  "PARTNER_FCT_TXT": "Dev Team",
  "PARTNER_NO": "4000",
  "PARTNER_NAME": "External Dev Team 1",
  "PARTNER_EMAIL": ""
}

```



```

    "PARTNER_MAIN": " "
  },
  "APPOINTMENT": [{
    "APPT_TYPE": "S1_BUILD_FIN",
    "APPT_TYPE_TXT": "200ES1_BUILD_FINBuild Completed",
    "TIMESTAMP": "20160205000000",
    "TIMEZONE": "UTC",
    "IS_DURATION": "",
    "DURATION": 0,
    "TIME_UNIT": ""
  }],
  "TEXT": [{
    "TEXTID": "S115",
    "TEXTID_TXT": "",
    "CHANGED_BY": "4711",
    "CHANGE_DATE": "20160406",
    "CHANGE_TIME": "113420",
    "TEXT": "Requirement_J45_POform_1\\n\\nSAP's PO Form does not meet customer
expectation. Layout need to be changed according to corporate design from customer.\\nIn addition 10
fields need to be added to each PO Line Item and 2 fields to PO header."
  }],
  "CATEGORY": [{
    "GUID": "005056836E761EE4A0A37568FF6E0944",
    "DESCRIPTION": "Industry Specific Solution",
    "LEVEL": 3
  },
  {
    "GUID": "005056836E761EE4A0A37568F9B3C939",
    "DESCRIPTION": "Functional",
    "LEVEL": 2
  },
  {
    "GUID": "005056836E761EE4A0A37568F9038938",
    "DESCRIPTION": "Applications",
    "LEVEL": 1
  }
  ],
  "PROCESS_STRUCT": [{
    "PROJECT_ID": "ST_OST_SP2",
    "NODE_ID": "710FB9CF34604ABBA6FEB2A641F27654",
    "PROCESSSTEP_TXT": "Check Freight Order Update",
    "PROCESS_TXT": " E2E TM-20 Transport Planning Full Truck or Less Truck Load",
    "SCENARIO_TXT": " E2E Processes"
  },
  {
    "PROJECT_ID": "ST_OST_SP2",
    "NODE_ID": "8FE8D320FC66488DB8E7740B94EE54DB",
    "PROCESSSTEP_TXT": "Check Freight Order Update",
    "PROCESS_TXT": " FSB-20-10 Invoice Posting",
    "SCENARIO_TXT": " PH FSB - Freight Settlement & Billing"
  }
  ],
  "DOCUMENT": [{
    "FILENAME": "Functional Specification_J45.docx",
    "TITLE": "Functional Specification_J45.docx",
    "STATUS": "COPY_EDITING",
    "STATUS_TXT": "Copy Editing",
    "DOCU_TYPE": "ZFW",
    "DOCU_TYPE_TXT": "Functional Specification type WRICEF",
    "AUTHOR": "LZ",
    "AUTHOR_NAME": "LZ",
    "URL":
http://examplehost.domain:50089/sap/bc/solman/SolmanDocuments/200?\_CLASS=SOLARGEN&\_LOIO=00505683226E1ED68CF740FDA3BA396B&LANGUAGE=EN&RELEASE=620&IWB\_INDUSTRY=/KWCUST/&TMP\_IWB\_TRY\_OTHER\_LANG=X&TMP\_IWB\_TRY\_OTHER\_IND=X&TMP\_IWB\_TASK=PREVIEW2&
  },
  {
    "FILENAME": "Test Case 1.docx",
    "TITLE": "Test Case 1.docx",
    "STATUS": "COPY_EDITING",
    "STATUS_TXT": "Copy Editing",
    "DOCU_TYPE": "ZFT",
    "DOCU_TYPE_TXT": "Single Functional Test",
    "AUTHOR": "SR",
    "AUTHOR_NAME": "SR",
  }
  ],

```

```

        "URL":
"http://examplehost.domain:50089/sap/bc/solman/SolmanDocuments/200?_CLASS=SOLARGEN&_LOIO=00505683226
E1EE68FC20A10CAC24149&LANGUAGE=EN&RELEASE=620&IWB_INDUSTRY=/KWCUST/&TMP_IWB_TRY_OTHER_LANG=X&TMP_IWB
_TRY_OTHER_IND=X&TMP_IWB_TASK=PREVIEW2&"
    },
    "ATTACHMENT": [{
        "FILENAME": "Attachment",
        "TECHN_FILENAME": "Attachment.docx",
        "EXTENSION": "DOCX",
        "URL":
"http://examplehost.domain:50089/sap/bc/contentserver/200?get&pVersion=0046&contRep=CRMORDER&docId=0
0505683226E1EE690D75FC4C98E7161&compId=Attachment.docx&accessMode=r&authId=CN%3D*.wdf.sap.corp,OU%3D
ST7,OU%3DSAP-
AG,O%3DSAPTrustCommunity,C%3DDE&expiration=20160705161635&secKey=MIIBUwYJKoZIhvcNAQcCoIIBRDCCAUAQAQ
xCzAJBgUrDgMCGGUAMAsGCSqGSIb3DQEHAATGCAR8wggEbaGgEBMG8wYzELMAkGA1UEBhMCREUxHDAaBgNVBAoTElNBUCBUcnVzdCB
Db21tdW5pdHkxDbANBgNVBAsTBjlnb3RzEMMAoGAlUECwMDU1Q3MRcwFQYDVBQDDA4qLndkZi5zYXAuY29ycAIICiAVBwCFKAE
wCQYFKw4DAhoFAKBdMBGCSqGSIb3DQEJAzELBgkqhkiG9w0BBwEwHAYJKoZIhvcNAQkFMQ8XDTE2MdcwNTE0MTYzNVowIwYJKoZ
IhvcNAQkEMRYEFIyNmDtNqAGFUo5c4fOx8tmdRGAsMAkGBYqGSM44BAMEMDAuAhUAztFE0rMHZlJcpfgLOj7Z9%2FC7b%2BsCFQC
PWySpE6Gz21F3EJ6SW1iWgfcCiQ%3D%3D"
    }],
    {
        "FILENAME": "Link to Requirement - BENS_03_0007",
        "TECHN_FILENAME": "Link to Requirement - BENS_03_0007.URL",
        "EXTENSION": "URL",
        "URL":
"https://examplehost.domain/p/portal#/glossary/028a5b8b8c65470ab65882f4bc2ac2e9"
    }
}

```

**Successful Response**

HTTPS Status Code 201

Example Content:

```

{
  "@odata.context": "$metadata#Issues",
  "SYSTEM_GUID": null,
  "EXTERNAL_ID": "BFD-17",
  "PARENT_EXTERNAL_ID": null,
  "TICKET_ID": null,
  "TICKET_GUID": null,
  "DESCRIPTION": null,
  "PROCESS_TYPE": null,
  "CREATED_AT": null,
  "CREATED_BY": null,
  "CHANGED_AT": null,
  "CHANGED_BY": null,
  "STATUS": null,
  "STATUS_TXT": null,
  "SOLDOC_PROJECT": null,
  "SOLDOC_PROJECT_TXT": null,
  "PRIORITY": null,
  "PRIORITY_TXT": null,
  "IMPACT": null,
  "IMPACT_TXT": null,
  "URGENCY": null,
  "URGENCY_TXT": null,
  "EFFORT": null,
  "EFFORT_UNIT": null,
  "PPM_PROJECT_ID": null,
  "PPM_PROJECT_TXT": null,
  "PPM_WAVE": null,
  "PPM_WAVE_TXT": null,
  "PPM_START_DATE": null,
  "PPM_FINISH_DATE": null,
  "PPM_COMPLETION": null,
  "PPM_TOTAL_WORK": null,
  "PPM_TOTAL_WORK_UNIT": null,
  "REQUESTED_RELEASE_NO": null,
  "REQUESTED_RELEASE_CLASS": null,
  "REQUESTED_RELEASE_TYPE": null,
  "REQUESTED_GO_LIVE_DATE": null,
  "FORECAST_RELEASE_NO": null,

```

```
"FORECAST_RELEASE_CLASS": null,  
"FORECAST_RELEASE_TYPE": null,  
"FORECAST_GO_LIVE_DATE": null,  
"ACTUAL_RELEASE_NO": null,  
"ACTUAL_RELEASE_CLASS": null,  
"ACTUAL_RELEASE_TYPE": null,  
"ACTUAL_GO_LIVE_DATE": null,  
"CLASSIFICATION": null,  
"CLASSIFICATION_TXT": null  
}
```

## 5.2 Update Status Payload JSON Example

### Called URL

https://<SolMan host>:<https port>  
/opu/odata/SALM/EXT\_INTEGRATION\_SRV/StatusSet(Guid='00505683226E1EE5B5AA9CEE1DADAC68')

### Payload

```
{
  "ExtStatus": "Start Development",
  "Guid": "00505683226E1EE5B5AA9CEE1DADAC68"
}
```

### Successful Response

HTTP Status Code 204, No Content

### Error Response

HTTP Status Code 500

Example Content:

```
{
  "error": {
    "code": "/SALM/EXT_INTEG/003",
    "message": {
      "lang": "en",
      "value": "Status mapping for ext. status Start Development is not existing for ticket
8000013139."
    },
    "innererror": {
      "transactionid": "5779D741E1072697E10000000A4DA024",
      "timestamp": "20160704140612.0949610",
      "Error_Resolution": {
        "SAP_Transaction": "Run transaction /IWFND/ERROR_LOG on SAP NW Gateway hub system
and search for entries with the timestamp above for more details",
        "SAP_Note": "See SAP Note 1797736 for error analysis
(https://service.sap.com/sap/support/notes/1797736)"
      }
    },
    "errordetails": [
      {
        "code": "/SALM/EXT_INTEG/003",
        "message": "Status mapping for ext. status Start Development is not existing for
ticket 8000013139.",
        "propertyref": "",
        "severity": "error",
        "target": ""
      },
      {
        "code": "/IWBEP/CX_SD_GEN_DPC_TECH",
        "message": "RFC call ended with \"Communication Failure\" exception",
        "propertyref": "",
        "severity": "error",
        "target": ""
      }
    ]
  }
}
```

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