

3 - Web service integration

Web service integration

Using WebServices it is possible to integrate different systems.

Using this function it is possible to receive data from external sources.

This is made possible by using set API that will give back json values, those will become variables that can be used within every process.

The screenshot shows a configuration form for a web service. At the top right, there are three buttons: "TEST WEB SERVICE" (dark blue), "SAVE" (dark blue), and "CANCEL" (red). The form is divided into several sections:

- Name:** "Get TEXT and Code WEBSERVICE". A description below it says "Returns md5 valueand text".
- Description:** An empty text area.
- Active:** A checked checkbox.
- Type:** A dropdown menu set to "REST".
- Method:** A dropdown menu set to "GET".
- Endpoint:** "http://md5.jsontest.com".
- Authentication:** A table with "User Name" (admin) and "Password" (masked with dots).
- Headers:** A button labeled "ADD HEADER".
- Parameters:** A button labeled "ADD PARAMETER".
- Returned fields:** A table with two rows: "value" (original) and "crypt" (md5). Below it is a button labeled "ADD FIELD".

Helpful text on the right side of the form explains each field: "A name for this web service", "If flagged, the web service can be used in processes", "The type of web service to call", "The HTTP method to use for the request", "The endpoint for the request, for example https://mywebsite.example.com/api/", and "Fields to extract from the Web service result. Only simple flat json and xml objects are supported."

To exploit the potentialities of the Web Service first it is necessary to enter some fundamental parameters.

To do so we go to:

Settings --> Business Process --> Manager External --> Web Services

Settings > External Web services
Configure external Web services to be used with processes

Name	Description	Type	Active	Tools
Get TEXT and Code WEBSERVICE	Returns md5 valueand text	REST	Yes	

[Scroll to Top]

Clicking on “Add” it is possible to set a new Web Service with the desired parameters. In this case we use `http://md5.jsontest.com`

TEST WEB SERVICE **SAVE** **CANCEL**

Name: Get TEXT and Code WEBSERVICE
Description: Returns md5 valueand text

Active:

Type: REST

Method: GET

Endpoint: http://md5.jsontest.com

Authentication: User Name: admin, Password: *****

Headers: **ADD HEADER**

Parameters: **ADD PARAMETER**

Returned fields: value: original, crypt: md5

ADD FIELD

A name for this web service

If flagged, the web service can be used in processes

The type of web service to call

The HTTP method to use for the request

The endpoint for the request, for example https://mywebsite.example.com/api/

Fields to extract from the Web service result. Only simple flat json and xml objects are supported.

Once configured the desired Web Service it can be used in every process. Let's see an example:



- In the **first task** we recall the a Web Service set to become an actual entity of the process.
- In the **second task** the principal entity of the process will be updated with the data given by the Web Service itself.



In this Task we set the use of the previously configured Web Service:

New Action Call --> External Web Service

BPMN-ScriptTask: Call webservice ScriptTask_13pnz3y

Create a new action

- Send email
- Send newsletter
- Create entity
- Update entity
- Delete entity
- Reset dynamic form
- Reset conditional fields
- Link entities
- Link static entities
- Call external Web service

Tools	Action
	WebService jsonstest

Process Helper

From the pick list Web Service we select the desired one and so all the related data will be displayed.

At this point it becomes an effective entity of the process. In the section Parameters it is possible to add dynamics values to pass to the URL.

The Parameter's name and its value are indeed specified (it can be selected by the pick list "Values").

Action: Call external Web service

SAVE CANCEL

Action title WebService jsontest

Web service Get TEXT and Code WEBSERVICE

--Please select--
Get TEXT and Code WEBSERVICE

Authentication

User Name admin Selezione Opzione... Password *** Selezione Opzione...

Parameters

Additional parameters

Parameter name text Selezione Opzione... Parameter value S7-designation Selezione Opzione...
ADD PARAMETER

Returned fields

value original Selezione Opzione... crypt md5 Selezione Opzione...



It is now possible to update any field of the selected entity with the values obtained by the Web Service.

Here we decide to update the field "Description" and so we select in the pick list the entity Web Service.

After that, we select one of the given field, in this case the "crypt" field is highlighted which gives back the md5 value.

Description Information

Description

Select Option...
Select Option...
SDK Functions
[S7] Leads (BPMN-Task:)
[SWS] Web service (BPMN-ScriptTask: WebService jsontest)

Country Select Option... State

Description Information

Description

Select field...
Back to options
[SWS] Web service (BPMN-ScriptTask: WebService jsontest)
Positive result?
Response code
Response message
value
crypt
Select field...

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