



{Workstream}

FUNCTIONAL SPECIFICATION

ABAP custom development – Interfaces

{WRICEF ID Description}

{Organisation / Project Name}

Role and Reason for Approval

Role	Reason for Approval
Author	The author is signing to confirm that this document has been prepared in accordance with the programme document management process, that relevant input from any contributory authors has been included and that an appropriate review/editing process has been conducted.
SAP Solution Lead or Architect	The SAP Solution Lead or Architect is signing, on behalf of the Workstream, to confirm that this Functional Specification meets the Acceptance Criteria expected of it and assigned to it in the Deliverable Quality Log.
SAP Development Lead or Manager	The SAP Development Lead or Manager is signing, on behalf of the Development Team, to confirm that this Functional Specification meets the Acceptance Criteria expected of it and assigned to it in the Deliverable Quality Log.

Note. Master copy of this document, with signatories, is held on Solution Manager

DATE: 02/02/2021

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Version	Date	Name	Alteration Reason
1	02/02/2021	Roger Sainsbury	Initial draft

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1 Context

1.1 Business Background

Explain the business scenario that requires the development.

1.2 Why is SAP standard not appropriate or sufficient?

Generally we want to keep the system as standard as possible, so each custom development requires a justification.

1.3 Alternative Approaches Considered

Sometimes a number of different approaches are possible to meet a requirement. If that is the case, outline what the other options were, and why they were rejected in favour of this one.

1.4 Out of Scope

This Functional Spec only covers any ABAP development required for an Interface. The definition of the interface itself, including data mapping, is to be covered in a separate document.

If functionality has been considered and decided to be out of scope for the development, then please record it here.

1.5 Assumptions

If the proposed design relies on any assumptions, please state them here.

1.6 Dependencies

If the proposed design has dependencies on other developments or configuration, please state them here.

1.7 Links

Provide any links here to further relevant information (e.g. from SAP Help, SCN, SAP Notes).



2 Solution Design – APIs and Web Services

APIs usually take the form of an RFC-enabled function module, from which it's possible to generate a web service. Please delete this section if the development is a custom IDOC.

2.1 Business Object

What is the Business Object that the API will create/update/delete?

What transaction(s) can be used to see this type of object?

(If known) what tables hold the business object data?

2.2 API Signature

What input parameters should the API have?

2.3 Data Validation

If the inbound data should first be validated, then describe the requirements here.

2.4 API Logic

For standard business objects, any updates should be performed using a supported method such as a BAPI call or Call Transaction (BDC). If you know of a suitable update method that may be used, then state it here. For Call Transactions, if possible provide a BDC recording or a screen recording which the developer can replay.

For custom business objects the code to perform the updates will be custom too – in which case specify here any logic required.

Is the API to create, update, delete or read objects? It may be that all four of these activities (known as CRUD) will be required.

2.5 Confirmation and Error Handling

Typically an RFC will return a table of messages indicating success or error, and perhaps the key of any object created. If there are any more specific requirements for what the API should return, then state them here.



3 Solution Design – IDOC extensions and custom IDOCs

It may be necessary to define a custom IDOC type, or an extension to a standard type. Please delete this section if the development is an API or web service.

3.1 Business Object

What is the Business Object that the IDOC will represent?

What transaction(s) can be used to see this type of object?

(If known) what tables hold the business object data?

3.2 IDOC Structure

Describe the required IDOC structure, referencing the standard IDOC type if there is one to be extended.

3.3 Inbound Processing

Typically a custom IDOC is needed for only outbound or inbound processing – delete this section if there's no inbound processing required.

Specify how the data from the custom parts of the IDOC should be saved. When extending a standard IDOC, explain where is the standard inbound processing (usually a function module), and is there a known enhancement point – e.g. a BAdI?

3.4 Outbound Processing

Typically a custom IDOC is needed for only outbound or inbound processing – delete this section if there's no outbound processing required.

Specify how the the custom parts of the IDOC should be filled. When extending a standard IDOC, explain where is the standard outbound processing (usually a function module), and is there a known enhancement point – e.g. a BAdI?

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4 How to Test

If this is an enhancement to a standard application, then please provide some guidance and/or test data to help the developer unit test the development. This can be included here or in a separate document.

The developer will need to test repeatedly, so where appropriate provide instructions to reverse the actions performed so the test may be run again, or explain how to create new input data to the test.