



{Workstream}

FUNCTIONAL SPECIFICATION

ABAP custom development – Conversions

{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

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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

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 - Upload

This section may be used to specify ABAP programs that upload data from a flat file. Note that an upload could be implemented using LSMW, or as a stand-alone program. Please delete this whole section if you are only specifying a download program.

2.1 Business Object

What is the Business Object to be uploaded?

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

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

2.2 Source File

Please provide an example source data file. If the data is at a number of levels (e.g. header and item data) be sure to include examples of all of them. The data in the file should be valid for the Dev system, so the developer can test.

Will the source file be uploaded from a user's local PC, from the Application Server, or both? The program will only be able to run in background if the file is taken from the Application Server.

2.3 Source Data Validation

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

2.4 Selection Screen

If the program requires a selection screen (beyond a simple file upload dialog), then specify the requirements here or in Appendix 1 below, or provide a mock-up.

2.5 Update Method

The data must be processed in SAP using a supported method such as a BAPI call, Web Service 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. Is the program only to create new objects, or will it need to update or delete existing objects?

2.6 Data Mapping

Please provide details of the expected mapping between the Source file and SAP fields. This can either be done within a table in this document or as an attached Mapping Document. Also describe here any additional logic required beyond basic mapping – for example calculations.

2.7 Reporting

If the upload is successful, what should be reported back to the user? E.g. just a success message? The number of objects created/updated? The object keys?

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2.8 Error Handling

How should errors be handled and reported? For example should the program stop, or continue to try and process the next object?

2.9 Transaction Volume

Please provide an indication of how many records may be loaded in a single run of this program.

2.10 Batch Frequency & Timing

If the conversion is a batch job, please indicate the frequency that it should run; i.e. Ad Hoc, Daily, Weekly, Quarterly etc., and any timing considerations that should be applied; i.e. 'must be run before 7am Monday morning'. Will the batch job have preceding or subsequent steps?

3 Solution Design – Download

This section may be used to specify ABAP programs that download data to a flat file in a specific format. Please delete this whole section if you are only specifying an upload program.

3.1 Target File

Please provide an example target data file. If the data is at a number of levels (e.g. header and item data) be sure to include examples of all of them.

Will the target file be downloaded to a user's local PC, to the Application Server, or both? The program will only be able to run in background if the file is written to the Application Server.

3.2 Selection Criteria

Specify any selection criteria which the user may use to choose the data selected, or to specify any options. Either use the table in Appendix 1 below to do this, or provide a mock-up here. If the program should be able to download data to the Application Server (necessary to run in batch), then the selection screen must include a parameter for the filepath.

3.3 Validation

For the selection parameters, only valid values will be allowed, as defined by the underlying Data Element and Domain (e.g. fixed values or a value table). However if any additional validation logic is required it can be described here, along with related error messages.

3.4 Authorizations

Authorizations are used to restrict what data and actions a user has access to.

Please consider if the data selection should be restricted by authorization objects - for example by Company Code or other org units.

3.5 Data Selection and Error Handling

What is the data to be reported? You may provide table and field names here, and/or explain where to see the data in transactions.

How should the data be processed in the program – any functional logic? E.g. any calculated fields? Grouping totals or subtotals?

Is a particular message required if the report finds no data? Are there any other situations that should produce a message?

3.6 Process Flow Diagram

If the selection logic described above is complex, then please provide a flow diagram to illustrate it.

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3.7 Data Mapping

Please provide details of the expected mapping between the SAP fields and the target file. This can either be done within a table in this document or as an attached Mapping Document. Also describe here any additional logic required beyond basic mapping – for example calculations.

3.8 Reporting

When run online, should the program proceed with the download directly? Or should it first display the selected data and give the user the option to proceed with the download or not?

If displaying the data first, then provide a mock-up of the output here. Ideally use real example data from the development environment. Alternatively work directly with the developer to design the output.

Following a successful download, what should be reported back to the user? E.g. just a success message? The number of objects downloaded? The object keys?

3.9 Batch Frequency and Timing

If the report is to run as a batch job, please indicate the frequency that it should run; i.e. Ad Hoc, Daily, Weekly, Quarterly etc, and any timing considerations that should be applied; i.e. 'must be run before 7am Monday morning'. Will the batch job have preceding or subsequent steps?

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Appendix 1. Selection Screen Requirements

Table/Structure Name	Field Name	Format	Default Value	Table Value / Checkbox / Radio Button / Radio Button Group	Select Option or Parameter	Single, Range, Multiple ranges	Mandatory or Optional	Field Labels

Table 1 Selection Parameters

Any grouping of selection screen fields into blocks? Title of Selection Screen Block? Any preferred layout of the Selection Screen?