

# CNV-1047 Batch Characteristics of Class Type: 023

Status	Approved
Owner	RAYUDU-ext, Narasimha Kumar
Stakeholders	

## Purpose

The purpose of this document is to define the conversion approach to create Batch Characteristics in S/4 HANA.

In both legacy systems, batch characteristics (class type 023) are used to hold key information related to Logistics & Quality information. Currently, there are more than 1,000 characteristics where these are duplicated with identical descriptions and assigned to different classes. To enable effective global utilization and reporting purposes, these characteristics need to be standardized. SyWay program to harmonize and standardize these characteristics across the organization.

## Conversion Scope

The scope of this document covers the approach for converting active Batch Characteristics from Legacy Source Systems into S/4HANA following the Batch Characteristics Master Data Design Standard.

SAP Batch Characteristics are specific data fields used within the SAP system to describe and manage the properties of a batch of materials. They are part of the SAP Classification System and are typically associated with **class type 023** (Batch Class).

Material Batches capture detailed information about each batch, such as production date, quality parameters, supplier details, or any other relevant property and enable traceability; allow track and trace batches throughout the supply chain with structured data for analysis and reporting.

### The data from legacy system includes:

1. Characteristics assigned to Classes with below Class Type
  - 023 – Batch Class (PF2, WP2)
2. Batch Characteristics assigned to Active Classes of 023.
3. Valid from [Current Date]
4. Status = 1 (Released)

### The data from legacy system excludes:

1. Characteristics for Deletion (Deletion Indicator = X)

List of source systems and approximate number of records

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
PF2	Batch Characteristics will be collected via DCT. An extract of the relevant Characteristics will be provided to assist business in standardizing the Characteristics from PF2 and WP2. If Any additional Characteristics that need to be created to support the new design may be added in the DCT.	4285	SAP S/4 HANA	
WP2	Batch Characteristics will be collected via DCT. An extract of the relevant Characteristics will be provided to assist business in standardizing the Characteristics from PF2 and WP2. If Any additional Characteristics that need to be created to support the new design may be added in the DCT.	1179	SAP S/4 HANA	

## Additional Information

### Multi-language Requirement

Characteristics descriptions are maintained in different languages. TBD on the Language Keys

### Document Management

NA

### Legal Requirement

NA

## Special Requirements

NA

## Target Design

The technical design of the target for this conversion approach.

### Characteristics Definitions

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
CABN	ATNAM	ATNAM	Characteristic	CHAR	30	Mandatory
CABN	DATUV	<u>DATUV</u>	Valid From	DATS	8	Mandatory
CABNT	ATBEZ	TEXT30	Description	CHAR	30	Mandatory
CABN	ATKLA	ATKLA	Characteristic Group	CHAR	10	Conditional
CABN	ATMST	ATMST	Status	CHAR	1	Mandatory
CABN	ATFOR	ATFOR	Data Type	CHAR	4	Mandatory
CABN	ANZST	<u>ANZST</u>	Number of Characters	INT2	5	Mandatory
CABN	ATKLE	<u>ATKLE</u>	Case Sensitive	CHAR	1	Optional
CABN	ATSCH	<u>ATSCH</u>	Template	CHAR	30	Optional
CABN	ANZDZ	<u>ANZDZ</u>	Decimal places	INT2	5	Optional But if Data Type is CURR, this is Mandatory
CABN	CURRENCY	<u>WAERS_CURC</u>	Currency	CUKY	1	Mandatory (For Currency related Characteristics) / Optional
CABN	ATEIN	<u>ATEIN</u>	Value Assignment	CHAR	1	Mandatory
CABN	MSEHI	<u>MSEHI</u>	Unit of Measure	UNIT	3	Mandatory
CABN	ATDIM	ATDIM	Exponent display	INT2	5	Mandatory
CABN	ATINT	ATINT	Interval values allowed	CHAR	1	Optional
CABN	ATVOR	ATVOR	Negative values allowed	CHAR	1	Optional
CABN	ATERF	ATERF	Entry Required	CHAR	1	Optional
CABN	ATGLA	ATGLA	Restricted	CHAR	1	Optional
CABNT	SPRAS	SPRAS	Language	LANG	1	Mandatory
CABN	ATSON	ATSON	Additional Values	CHAR	1	Optional
CABN	ATPRT	ATPRT	Check Table	CHAR	30	Conditional
CABN	ATTAB	ATTAB	Reference Table	CHAR	30	Optional
CABN	ATFEL	<u>ATFEL</u>	Reference Field	CHAR	30	Optional
CABN	ATINP	ATINP	Not ready for input	CHAR	1	Optional
CABN	ATVIE	ATVIE	No display	CHAR	1	Optional
CABN	ATWRD	ATWRD	Display Allowed Values	CHAR	1	Optional
CABN	ATFOD	ATFOD	Unformatted Entry	CHAR	1	Optional
CABN	ATVSC	ATVSC	Propose Template	CHAR	1	Optional

### Characteristics Values (SAP Standard and Custom Defined)

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
CAWN	ATINN	ATINN	Internal characteristic	NUMC	30	Mandatory
CAWN	ATZHL	ATZHL	Int counter	NUMC	4	System Generated
CAWN	ATWRT	ATWRT	Characteristic Value	CHAR	70	Optional
CAWN	DEC_FROM	CAWN_DEC_FROM	Lower Boundary for Numeric Field	DECFLOAT34	34	Optional
CAWN	DEC_TO	CAWN_DEC_TO	Upper Boundary for Numeric Field	DECFLOAT34	34	Optional

There are certain characteristics in system which are assigned as a Function Module (For Eg: Characteristic: LOBM\_UDCODE) and these Characteristics values are deriving from Configuration. TBD to discuss with Functional for detail design.

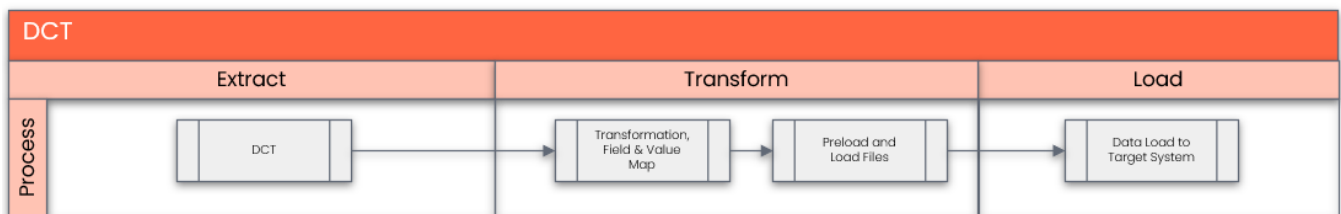
## Data Cleansing

No data cleansing is required within the source systems. Standardization and cleansing activities will be carried out outside of the Syniti tool, and the finalized characteristics will be populated in the DCT.

ID	Criticality	Error Message/Report Description	Rule	Output	Source System
	NA	NA	NA	NA	NA

## Conversion Process

The high-level process is represented by the diagram below:



## Data Privacy and Sensitivity

NA

## Extraction

Extract data from a source into . There are 2 possibilities:

1. The data exists. connects to the source and loads the data into . There are 3 methods:
  - a. Perform full data extraction from relevant tables in the source system(s).
  - b. Perform extraction through the application layer.
  - c. Only if ; cannot connect to the source, data is loaded to the repository from the provided source system extract/report.
2. The data does not exist (or cannot be converted from its current state). The data is manually collected by the business directly in . This is to be conducted using DCT (Data Collection Template) in

The agreed Relevancy criteria is applied to the extracted records to identify the records that are applicable for the Target loads

## Extraction Run Sheet

Req #	Requirement Description	Team Responsible
1	Legacy System Extraction (PF2 & WP2) based on the Relevancy Rules from Table: CABN & CABNT	SyWay Data Team


## Selection Screen

NA

Selection Ref Screen	Parameter Name	Selection Type	Requirement	Value to be entered/set
NA				

## Data Collection Template (DCT)

Target Ready Data Collection Template will be created for Batch Characteristics data with exception of some fields which require transformation as mentioned in the transformation rule.

### Batch Characteristics Definition - DCT Rules

Field Name	Field Description	Rule
ATNAM	<p>Characteristic Name</p> <p>Name that uniquely identifies a characteristic.</p> <p>Follow the naming convention which will distinguish across different functions</p> <p>For Eg:</p> <p>QM_00001 (QM Related Characteristics)</p> <p>SC_00001 (Supply/Logistics Related Characteristics)</p>	<p>Mandatory</p> <p>TBD</p> <p>Characteristics Name - Need to follow the naming Convention which will distinguish across different functions (Eg; Vendor Classification or EAM Characteristics)</p>
DATUV	<p>Valid From</p> <p>The class validity starts from this date. If it is not set the current system date will be used as valid-from date.</p>	<p>Mandatory</p> <p>When the Load File is generated, Current Date should be captured</p>
ATBEZ	<p>Description</p> <p>Language-dependent description of characteristic.</p>	<ul style="list-style-type: none"> <li>• Descriptions need to follow a standard naming convention across all characteristics.</li> <li>• Use similar formats for similar types of characteristics</li> <li>• Avoid abbreviations unless they are commonly accepted by Syensqo</li> </ul>
ATKLA	<p>Characteristic Group</p> <p>The characteristics group can be used to group together similar characteristics. It is used to make finding characteristics easier.</p>	<p>Conditional</p> <p>Need to select the appropriate characteristics group for the batch characteristics. As these are configurable values, these are TBD until Functional defines it.</p>
ATMST	<p>Status</p> <p>The characteristic status gives information on the processing status of the characteristic and determines whether it can be used elsewhere in the system.</p> <p>Possible values:</p> <p>0 = in preparation</p> <p>1 = released</p> <p>2 = locked</p>	<p>Mandatory</p> <p>Fixed Value as 1 - Released</p>

ATFOR	<p>Data Type</p> <p>The data type defines whether a characteristic value is a character string, a number, a date, or a time.</p> <p>CHAR Character Format  CURR Currency Format  DATE Date Format  NUM Numeric Format  TIME Time Format  UDEF User-Defined Data Type</p>	<p>Mandatory</p> <p>Below are list of values used:</p> <ul style="list-style-type: none"> <li>• Character format (CHAR): for characteristic values that consist of a character string</li> <li>• Numeric format (NUM): for numeric characteristic values</li> <li>• Date format (DATE): for characteristic values that represent a date</li> <li>• Time format (TIME): for characteristic values that represent a time</li> <li>• Currency format (CURR): for characteristic values that are entered in a currency</li> </ul>
ANZST	<p>Number of Characters</p> <p>Total number of characters that you can enter when you assign a value to this characteristic. This figure includes the number of decimal places.</p> <p>This figure does not include plus or minus signs or decimal points.</p> <p>Important:  In the S/4HANA cloud system, the number of characters, in a character format (CHAR) characteristic, max to 30.</p>	<p>Mandatory</p> <ul style="list-style-type: none"> <li>• If a characteristic has data type "character" (CHAR), you can maintain a language-dependent description for values. This description can be up to 30 characters long, regardless of the number you enter here.</li> <li>• If a characteristic has data type "Currency" (CURR), No of Characters to be maximum 15</li> <li>• If a characteristic has data type "Number" (CURR), No of Characters to be maximum 15</li> </ul>
ATKLE	<p>Case Sensitive</p> <p>This indicator determines whether lower-case letters can be entered in characteristic values.  If this field is blank, the characteristic values entered are automatically converted into upper-case letters.  'X' = Case sensitive</p>	<p>Conditional</p> <p>Indicator to set the characteristic values entered are automatically converted into upper-case letters.</p>
ATSCH	<p>Template</p> <p>Entries for this characteristic are checked against this template.  Character format (CHAR): You can only define template characters which have been defined in Customizing. These settings determine whether a template can contain only letters, figures, figures or letters, or special characters.  Numeric format (NUM): Numeric template characters can also be defined in Customizing.</p>	<p>Optional</p> <p>If these are defined in Configuration for "character" (CHAR)for Need to use the specific template for this Characteristics.</p> <p>If these are defined in Configuration for "Currency" (CURR), it is automatically populated.</p>
ANZDZ	<p>Decimal places</p> <p>Total number of characters that you can enter when you assign a value to this characteristic. This figure includes the number of decimal places.</p> <p>This figure does not include plus or minus signs or decimal points</p>	<p>When CURR is selected, Decimal Places are automatically populated</p>
CURRE NCY	<p>Currency</p> <p>Key for the currency in which the amounts are managed in the system (in ISO code).  The field is mandatory if the data type is currency (CURR).</p>	<p>Mandatory</p> <p>If CURR Data type is selected, Fill in the Currency of the characteristic.</p>
ATEIN	<p>Value Assignment</p> <p>The possible entries for value assignment(Single/Multiple Value):  Value Descriptions  S Single-value  M Multiple value</p>	<p>Two options are possible:</p> <ul style="list-style-type: none"> <li>• Single Values</li> <li>• Multiple Values</li> </ul>
MSEHI	<p>Unit of Measure</p> <p>Unit in which a numeric characteristic value is entered. When you assign a value to the characteristic, you can enter a different unit if it can be converted to the unit entered in characteristics maintenance. The dimension (such as length or volume) determines which units can be converted to which</p>	<p>Conditional.</p> <p>This can be filled, when data type chosen NUM</p>

<p>ATDIM</p>	<p>Exponent display</p> <p>Specifies how the numerical value of a characteristic is to be displayed with an exponent. Possible values: 0 = Display w/o an exponent 1 = Exponent set automatically. There's always one place before the decimal point Example: __,____E+__ 2 = Display w/ exponent entered. Example: __,____E+33 3 = Display in scientific format (3,6,9) There are always three places before the decimal point Example: __,____E+SS</p> <p>Exponent used when characteristic value is displayed. Can only be used for numerical characteristics</p>	<p>Conditional.</p> <p>This can be filled, when data type chosen NUM</p> <p>List of Values: 0: No exponent 1: Standard 2: Exponent entered 3: Scientific exponent</p>
<p>ATINT</p>	<p>Interval values allowed</p> <p>This indicator determines whether you have the option of entering an interval as a value for a numeric characteristic. 'X' = Interval values allowed</p>	<p>Conditional.</p> <p>Indicator (check box). This can be marked, when data type chosen CURR, DATE, NUM, TIME</p>
<p>ATVOR</p>	<p>Negative values allowed</p> <p>Defines whether negative values can be assigned to a characteristic. 'X' = negative values can be assigned</p>	<p>Conditional.</p> <p>Indicator (check box).</p>
<p>ATERF</p>	<p>Entry Required</p> <p>Determines whether you are required to assign a value to a characteristic. 'X' = entry is required</p>	<p>Conditional.</p> <p>Indicator (check box).</p>
<p>SPRAS</p>	<p>Language</p> <p>Please enter here the language of your description (ISO format).</p> <p>Sy-Way Program Languages Scope: English, French, Italian, Mandarin, Brazilian Portuguese, German and Spanish.</p>	<p>English, French, Italian, Mandarin, Brazilian Portuguese, German and Spanish.</p>
<p>ATSON</p>	<p>Additional Values</p> <p>This indicator determines whether values that are not defined as allowed values can be assigned to a characteristic. 'X' = no value check The additional values indicator can be set to 'X' in the following value check types: 1. Allowed values 2. Function module</p>	<p>Conditional.</p> <p>Indicator (check box).</p>
<p>ATGLA</p>	<p>Restrictable characteristic</p> <p>This indicator shows that the allowed values of this characteristic can be restricted during Variant Configuration, depending on the configuration environment. Note: You can only use this indicator in constraints. This indicator is not relevant to classification.</p> <p>This is an indicator field. If the criterion is met, enter X. If not, leave the field empty.</p>	<p>Conditional</p> <p>Indicator (check box).</p>

ATTAB	<p>Reference Table</p> <p>Name of a table that contains the allowed values for the characteristic.</p> <p>This table can have exactly one key field. Tables that do not conform to this specification are not accepted. This can also contain a client.</p> <p>If you want to check values using a table that does not conform to this specification, you can use a function module to define the check table.</p>	<p>Conditional</p> <p>If the format of the Characteristics need to refer from Table, this is filled in</p>
ATPRT	<p>Check Table</p> <p>To get the Characteristics values from Reference Table, Need to select this option so that we can reference the table to get the Characteristics Value. For Eg: UD Code Etc.,</p>	<p>Conditional</p> <p>Transparent Table ( Check Table is maintained so that Characteristics Values are used from the Table in Transaction Data)</p>
ATFEL	<p>Reference Field</p> <p>This table can have exactly one key field</p>	<p>Conditional</p> <p>If the format of the Characteristics need to refer from Table-Field, this is filled in</p>
ATINP	<p>Not ready for input</p> <p>This indicator determines whether the characteristic is shown as available for entry on the characteristic value assignment screen.</p> <p>If you do not want a value to be assigned to a characteristic, you must select this indicator. For example, the value may be inferred from object dependencies.</p>	<p>Conditional - If Reference Table and Field are not provided</p> <p>Mandatory - If the format of the characteristics needs to be referenced from a table, this information should be provided here.</p>
ATVIE	<p>No display</p> <p>Characteristic Not to be Displayed</p> <p>If you select this indicator, the characteristic is not shown on the characteristic value assignment screen. You see the <b>Hidden characteristics</b> pushbutton on the characteristic value assignment screen. Choose this pushbutton to see the characteristic.</p> <p>If the <b>Entry required</b> indicator is set for the characteristic, you must assign a value to the characteristic, even if it is not shown on the screen. You see a dialog box before you leave the characteristic value assignment screen, in which you can assign a value to the characteristic.</p>	<p>Conditional.</p> <p>Indicator (check box).</p>
ATWRD	<p>Display Allowed Values</p> <p>Display allowed values defined in characteristic Determines whether the allowed values for a characteristic are displayed after the characteristic when you assign values to a characteristic.</p>	<p>Conditional.</p> <p>Indicator (check box).</p>
ATFOD	<p>Unformatted Entry</p> <p>Unformatted entry control</p> <p>Used to define the length of the entry field when assigning values to a characteristic.</p> <p>If this field is not selected, the entry field is shortened to the number of characters in the format for the characteristic. Otherwise, a 30-character field is available for entry, so that you can enter intervals or several values, separated by a semicolon.</p>	<p>Conditional.</p> <p>Indicator (check box).</p>

ATVSC	<p>Propose Template</p> <p>If we use template to populate the Characteristics Values using the Template.</p> <p>Indicator: display template when assigning values Indicator: defines whether the template is displayed in the characteristic value field as an aid to entry.</p> <p>For Eg:</p> <p>If we use template, Example: __,___E+__</p>	<p>Conditional.</p> <p>Indicator (check box).</p>
-------	--	---

Characteristics Values - DCT Rules

Field Name	Field Description	Rule
ATINN	<p>Internal characteristic</p> <p>Name that uniquely identifies a characteristic.</p>	<p>Mandatory</p> <p>TBD</p> <p>This should be assigned from CABN-ATNAM</p>
<u>ATZHL</u>	<p>Int counter</p> <p>The item number is only an additional technical key to allow multiple values in the file and to prevent errors by the duplicate record check. It must be unique over all "Value" structures because it is also a key field for the "Value Descriptions". It is not mapped to a target field. Please maintain a number from 0001 to 9999 per multiple value.</p>	<p>System Generated.</p> <p>System creates a internal sequential number for each Characteristic Value</p>
<u>ATWRT</u>	<p>Characteristic Value</p> <p>The language-dependent long value of a characteristic. You must either maintain the language-dependent value (description) here in this column.</p> <p>Important: In the S/4HANA cloud system, the length of the characteristic value, in a character format(CHAR) characteristic, max to 30.</p>	<p>Optional</p> <p>Characteristics values are defined here if these are created in Characters.</p>
<u>DEC_FROM</u>	<p>Lower Boundary for Numeric Field</p> <p>Internal Floating Point From</p> <p>Numerical Value from (Floating point) Ignore the automatically set decimals. NUM values can be entered with or without a decimal separator, for example 1000 or 1000.99. Missing Decimals are automatically set when pressing Enter. The value is related on the Unit of measure (UoM) maintained on the header data of the characteristics. For example, if the UoM of the characteristic is JHR, '2' means two years. The system ignores units in the fields UNIT_FROM and UNIT_TO here. These are used only for later display. It is important that the UoM according to ISO 639 in the field VALUE_FROM_ISO is the same as the characteristic that was defined for the characteristic.</p>	<p>Optional</p> <p>From Characteristics values are defined here if these are created in Numeric For Eg: 0 % - 100% Etc.</p> <p>Relational operators to define the intervals with the following input options: Code Operator Value1(Value From) Operator Value2 (Value To) 1 EQ = 2 GE &gt;= LT &lt; 3 GE &gt;= LE &lt;= 4 GT &gt; LT &lt; 5 GT &gt; LE &lt;= 6 LT &lt; 7 LE &lt;= 8 GT &gt; 9 GE &gt;= For example: VALUE_FROM: 20 VALUE_TO: 28 VALUE_RELATION: 2 Imported value: 20 - &lt; 28</p>

DEC_TO	Upper Boundary for Numeric Field  Internal Floating Point To  Numerical Value to (Floating point) (only used in intervals) Ignore the automatically set decimals. NUM values can be entered with or without a decimal separator, for example 1000 or 1000.99. Missing Decimals are automatically set by the Spreadsheet, when pressing Enter. The value is related on the characteristic's Unit of measure.	To Characteristics values are defined here if these are created in Numeric For Eg: 0 % - 100% Etc.
--------	---	--

## Extraction Dependencies

Item #	Step Description	Team Responsible
1	Extract data from source systems PF2 and WP2	Syniti
2	Populate in a report in a Downloadable format	Syniti
3	Data is populated in the DCT or uploaded from downloaded Excel template	Business/Data Owners
4	If the data is uploaded to DCT in bulk via excel template, any upload errors need to be reviewed and corrected	Business/Data Owners
5	The data which has passed validation checks in DCT will be used for transformation/further processing	Business/Data Owners

## Transformation

The Target fields are mapped to the applicable Legacy field that will be its source, this is a 3-way activity involving the Business, Functional team and Data team. This identifies the transformation activity required to allow to make the data Target ready:

1. Perform value mapping and data transformation rules.
  - a. Legacy values are mapped to the to-be values (this could include a default value)
  - b. Values are transformed according to the rules defined in
2. Prepare target-ready data in the structure and format that is required for loading via prescribed Load Tool. This step also produces the load data ready for business to perform Pre-load Data Validation

## Transformation Run Sheet

Item #	Step Description	Team Responsible
1	Obtain DCT Sign-off from Business.	SCM Data Team
2	In dspMigrate, select the wave – S4/HANA – P2F-SCM	Syniti
3	Go to Process Area Launch and Process the Object – Characteristics	Syniti
4	Review and Validate Error and Preload Reports	Syniti
5	Execute the transformation to prepare the target tables	Syniti
6	Validate data from pre-load and error reports	Business/Data owner
7	Generate load files	Syniti

## Transformation Rules

### Batch Characteristics Definition - DCT Rules

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	DCT	CABN	ATNAM	Characteristic	S/4 HANA	CABN	ATNAM	Characteristic	Direct Mapping
3	DCT	CABN	DATUV	Valid From	S/4 HANA	CABN	DATUV	Valid From	If has value in DCT, Direct Mapping. If blank, default to Creation Date.
4	DCT	CABNT	ATBEZ	Description	S/4 HANA	CABNT	ATBEZ	Description	Direct Mapping

5	DCT	CABN	ATKLA	Characteristic Group	S/4 HANA	CABN	ATKLA	Characteristic Group	Direct Mapping
6	DCT	CABN	ATMST	Status	S/4 HANA	CABN	ATMST	Status	Direct Mapping
8	DCT	CABN	ATFOR	Data Type	S/4 HANA	CABN	ATFOR	Data Type	Direct Mapping Need Dropdown in DCT. 1) CHAR 2) NUM 3) CURR
9	DCT	CABN	ANZST	Number of Characters	S/4 HANA	CABN	ANZST	Number of Characters	Direct Mapping
10	DCT	CABN	ATKLE	Case Sensitive	S/4 HANA	CABN	ATKLE	Case Sensitive	Direct Mapping
11	DCT	CABN	ATSCH	Template	S/4 HANA	CABN	ATSCH	Template	Direct Mapping
12	DCT	CABN	ANZDZ	Decimal places	S/4 HANA	CABN	ANZDZ	Decimal places	Direct Mapping Valid for only Data Type CURR
13	DCT	CABN	CURRENCY	Currency	S/4 HANA	CABN	CURRENCY	Currency	Direct Mapping
14	DCT	CABN	ATEIN	Value Assignment	S/4 HANA	CABN	ATEIN	Value Assignment	Direct Mapping
15	DCT	CABN	MSEHI	Unit of Measure	S/4 HANA	CABN	MSEHI	Unit of Measure	Direct Mapping
16	DCT	CABN	ATDIM	Exponent display	S/4 HANA	CABN	ATDIM	Exponent display	Direct Mapping
17	DCT	CABN	ATINT	Interval values allowed	S/4 HANA	CABN	ATINT	Interval values allowed	Direct Mapping
18	DCT	CABN	ATVOR	Negative values allowed	S/4 HANA	CABN	ATVOR	Negative values allowed	Direct Mapping
20	DCT	CABN	ATERF	Entry Required	S/4 HANA	CABN	ATERF	Entry Required	Direct Mapping
	DCT	CABN	ATGLA	Restricted	S/4 HANA	CABN	ATGLA	Restricted	Direct Mapping
21	DCT	CABNT	SPRAS	Language	S/4 HANA	CABNT	SPRAS	Language	Direct Mapping
22	DCT	CABN	ATSON	Additional Values	S/4 HANA	CABN	ATSON	Additional Values	Direct Mapping
23	DCT	CABN	ATTAB	Reference Table	S/4 HANA	CABN	ATTAB	Reference Table	Direct Mapping
24	DCT	CABN	ATFEL	Reference Field	S/4 HANA	CABN	ATFEL	Reference Field	Direct Mapping
25	DCT	CABN	ATPRT	Check Table	S/4 HANA	CABN	ATPRT	Check Table	Direct Mapping If check table is assigned then Characteristics Values are not populated in Characteristic Values DCT.
26	DCT	CABN	ATINP	Not ready for input	S/4 HANA	CABN	ATINP	Not ready for input	Direct Mapping
27	DCT	CABN	ATVIE	No display	S/4 HANA	CABN	ATVIE	No display	Direct Mapping
28	DCT	CABN	ATWRD	Display Allowed Values	S/4 HANA	CABN	ATWRD	Display Allowed Values	Direct Mapping
29	DCT	CABN	ATFOD	Unformatted Entry	S/4 HANA	CABN	ATFOD	Unformatted Entry	Direct Mapping
30	DCT	CABN	ATVSC	Propose Template	S/4 HANA	CABN	ATVSC	Propose Template	Direct Mapping

### Characteristics Values - DCT Rules

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	DCT	CAWN	ATINN	Internal characteristic	S/4 HANA	CAWN	ATINN	Internal characteristic	Direct Mapping
2	DCT	CAWN	ATZHL	Int counter	S/4 HANA	CAWN	ATZHL	Int counter	Direct Mapping
3	DCT	CAWN	ATWRT	Characteristic Value	S/4 HANA	CAWN	ATWRT	Characteristic Value	Direct Mapping
4	DCT	CAWN	DEC_FROM	Lower Boundary for Numeric Field	S/4 HANA	CAWN	DEC_FROM	Lower Boundary for Numeric Field	Direct Mapping
5	DCT	CAWN	DEC_TO	Upper Boundary for Numeric Field	S/4 HANA	CAWN	DEC_TO	Upper Boundary for Numeric Field	Direct Mapping

### Transformation Mapping

Mapping Table Name	Mapping Table Description

## Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
1	Ensure DCT tables completeness	Syniti
2	Ensure all Transformation mappings are up to date.	Syniti

## Pre-Load Validation

### Project Team

### Completeness

Task	Action
Verify DCT & Load File Count	SCM Data Team to verify that the total number of relevant records from the DCT is equal to the total number of records in the Preload and Load Sheets.
Verify Consent	Verify the appropriate consents for the records have been obtained by the business/Data Owners and properly recorded

### Accuracy

Task	Action
Conversion Accuracy	SCM Data team to verify that all the data in the load table/file is accurate as per signed-off DCT contents and transformation rules with below checks: <ol style="list-style-type: none"> <li>1. Mandatory Fields</li> <li>2. Field and Value Mapping Correctness</li> <li>3. Null Checks</li> </ol>
Review Error Reports	Review and correct the errors. Achieve a zero-error record count as much as possible. Raise defects for data remediated and requiring a correction in the source data.

## Business

### Completeness

Task	Action
Verify Record Count	Business Data Owner/s to verify that the total number of relevant records from the the DCT is equal to the total number of records in the Preload and Load Sheets.
Verify Consent	Verify that the appropriate consents for the records have been obtained by the business and properly recorded

## Accuracy

Task	Action
Conversion Accuracy	Business Data Owner/s to verify that all the data in the load table/file is accurate as per endorsed transformation/mapping rules (and signed-off DCT data).

## Load

The load process includes:

1. Execute the automated data load into target system using load tool or product the load file if the load must be done manually
2. Once the data is loaded to the target system, it will be extracted and prepared for Post Load Data Validation
3. Load approach: Migration Cockpit using Staging Tables

## Load Run Sheet

Item #	Step Description	Team Responsible
1	Ensure Pre-load sign-offs are obtained.	SCM Data team
2	Go to the load tool and select the correct load Program.	SCM Data team
3	Proceed with Data load.	SCM Data team
4	Validate few records loaded by accessing standard transactions.	SCM Data team
5	Generate the post load reports in the tool.	SCM Data team
6	Log errors as defects, if any and address resolutions. Close defects.	SCM Data team
7	Resolve defects by re-upload and re-generate post load reports if necessary.	SCM Data team
8	Business to validate the post load files as part of post-load validation, raise data defects or provide the post-load sign-off.	Business
9	Repeat steps 5 to 7 if necessary.	SCM Data team

## Load Phase and Dependencies

Pre Cutover

### Configuration

Item #	Configuration Item
1	V_CMG - Characteristics Group
2	T002 - Language Keys

### Conversion Objects

Object #	Preceding Object Conversion Approach
NA	NA

## Error Handling

Error Type	Error Description	Action Taken
Configuration	<configuration> is not valid/missing	If it is a missing configuration item, then engage Functional team to expedite and fix the error in the system.
Invalid Data	<parameter> is not valid.	The parameter entry needs to be reviewed If it is an invalid data, business needs to review and correct the source of the data either in PE1 or if it's mapped in DCT.
Technical Setup	Interface / Connection issue within target system's landscape	N/A – the data will be loaded directly to S/4HANA environment

## Post-Load Validation

### Project Team

#### Completeness

Task	Action
Verify the count	Verify that the record count in the post-load file is the same as the record count based on the relevancy (including any deduplication) results

#### Accuracy

Task	Action
Data Accuracy	SCM Data team to verify that all the data in the post load table/file is accurate as per signed-off transformation rules and DCT contents
Error Reports	Verify that all necessary error reports have been validated, and that errors have been addressed.
Data Consistency	Verify that the data loaded is correctly reflected in T-Code: CT04 or Table: CABN/CABNT.

### Business

#### Completeness

Task	Action
Verify Count	Verify that the record count in the post load file is the same as the record count based on the relevancy (including deduplication) results
Validate Loaded Data	Validate, as per the load files signed-off, that all records were created

#### Accuracy

Task	Action
Data Accuracy	Verify that all the data in the S/4HANA table is accurate as per signed-off DCT contents and transformation rules  For mock loads, the post load data validation will be as per scrambled data, thus data accuracy is not to be checked against DCT which holds the actual data. Post-load data to be validated against the pre-load report (scrambled data).
Verify Relationships	Verify that each Vendor have been assigned to the appropriate Business Partner correctly

## Key Assumptions

- The Master Data Standards document is a evolving document where value mappings/validation checks are still being finalized as we are currently in the detailed phase as of September 2025.
- Batch Characteristics is in scope based on data design and any exception requested by business.

## See also





## Change log

Version	Published	Changed By	Comment
<b>CURRENT (v. 29)</b>	Nov 19, 2025 15:29	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	
<a href="#">v. 28</a>	Nov 18, 2025 17:48	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	
<a href="#">v. 27</a>	Nov 18, 2025 17:05	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	
<a href="#">v. 26</a>	Oct 30, 2025 18:23	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	Field ATPRT added.
<a href="#">v. 25</a>	Oct 15, 2025 13:54	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	Copy Paste Issue for Char Values
<a href="#">v. 24</a>	Oct 08, 2025 14:15	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	Added CAWN as there are standard and non standard Characteristics values in system.
<a href="#">v. 23</a>	Sept 26, 2025 13:14	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	
<a href="#">v. 22</a>	Sept 26, 2025 12:36	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	
<a href="#">v. 21</a>	Sept 26, 2025 12:33	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	
<a href="#">v. 20</a>	Sept 26, 2025 12:30	<a href="#">RAYUDU-ext, Narasimha Kumar</a>	

[Go to Page History](#)

## Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

May 08, 2026	Actor	Type	Activity	Version
Approved	 MCARDLE-ext, Edward	State	changed state to <b>Approved</b> at 11:14 am	v29
Revision under Review	 MCARDLE-ext, Edward	State	gave <i>Minor change</i> approval at 11:14 am	
		State	changed state to <b>Revision under Review</b> at 11:14 am	v29
<b>Mar 18, 2026</b>				
Revision in Progress	WENNINGER-ext, Sascha	State	changed state to <b>Revision in Progress</b> at 5:42 pm	v29
<b>From Nov 18, 2025 to Nov 19, 2025</b>				
Edited following Approval	 RAYUDU-ext, Narasimha Kumar	Edit	updated the page at 5:05 pm	
	 RAYUDU-ext, Narasimha Kumar	State	changed state to <b>Edited following Approval</b> at 4:05 pm	v27