

CNV-1078 Cost Element Groups

Status	100%
Owner	PARA-ext, Anil
Stakeholders	PILLAY-ext, Lawrence GARCIA-ext, Angel Luis GONCHIGARU-ext, Ashok

Purpose

The purpose of this document is to define the conversion approach for Cost Element Groups into S/4 HANA. Cost Element Group is the process used to group together any cost elements for a specific purpose mainly reporting and overheads allocation.

Currently, the cost element groups utilized in the legacy systems with a basic and single dimension sets with similar characteristics are grouped together for reporting and overhead allocation purpose.

In S/4, Cost Element groups will be organized in a tree like structure to group all similar types of cost elements together. Grouping it makes it easier to report and allocate costs in a single source of transaction. These groups will be created under specific controlling area and can be updated or changed when the purpose of their use changes. The new GL account (CoA) design in S/4 will govern the development of Cost Element Groups. As a result, even if the CE Groups are extracted from the legacy systems, they will not be migrated into S/4 instead, the new CE groups will be created in accordance with the MDS and the new group details will be collected through a Data Collection Templates (DCT).

The hierarchy below is for reference and is expected to be created similar CE hierarchy in the target system.

Level 0	Level 1	Level 2	Level 3
C001_CE			
	6XXX		
		61XX	
			6100
			6150
		65XX	
			6500
			6510
			6550
	7XXX		
		70XX	
			7000
			7010
			7020
			7030
			7090
		71XX	
			7100

Conversion Scope

The scope of this document covers the approach for creating a new Cost Element Groups into S/4HANA following the 1078-Cost element groups Master Data Design Standard. [DD-FUN-050 Master Data Standard_1078-Cost element groups](#). This object's conversion from source to target is an approved DCT document.

The data from legacy system includes: N/A

The data from legacy system excludes: N/A

List of source systems and approximate number of records

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
PF2	Cost Element Groups	6338	S/4HANA	TBA
WP2	Cost Element Groups	2182	S/4HANA	TBA

Additional Information

Multi-language Requirement

Cost Element Groups will primarily be managed in English. However, according to KDD055, this master data standard will be implemented in 4 core languages.

- English (EN)
- French (FR)
- Italian (IT)
- Chinese (ZN)

Note: For other language requirements were not finalized while developing this document, refer to Jira ID # PDM 603.

Document Management

N/A

Legal Requirement

N/A

Special Requirements

N/A

Target Design

The technical design of the target for this conversion approach.

Table	Field	Data Element	Field Description	Data Type	Length	Requirement R = Required : Mandatory field. S = System: System generates the value O = Optional: Not Mandatory
SETHEADER	SETCLASS	SETCLASS	Set Class	CHAR	4	S
SETHEADER	SUBCLASS	SETSUBCLS	Organizational Unit as Set Subclass	CHAR	12	S
SETHEADER	SETNAME	SETNAMENEW	Set Name	CHAR	24	R
SETHEADERT	LANGU	SPRAS	Language Key	LANG	1	O
SETHEADERT	DESCRIPT	SETTEXT	Short Description of a Set	CHAR	40	R
SETNODE	LINEID	SETLINE	Set Line Counter	NUMC	10	R
SETNODE	SETNAME	SETNAMENEW	Set Name	CHAR	24	O
SETNODE	SUBSETNAME	SEBSETNAME	Subordinate Set ID	CHAR	24	O
SETLEAF	SETNAME	SETNAMENEW	Set Name	CHAR	24	O
SETLEAF	VALFROM	SETVALMIN	From Value	CHAR	40	R
SETLEAF	VALTO	SETVALMAX	To Value	CHAR	40	R

Data Cleansing

Data Cleansing is not relevant for this object because the entire Chart of Accounts will be afresh designed in S/4HANA

ID	Criticality	Error Message/Report Description	Rule	Output	Source System
N/A					

Conversion Process

The high-level process is represented by the diagram below. Although source extraction is planned, no relevancy or extraction rules are implemented. The Data team will collect the new cost element groups using the DCT, and an ETL process will be followed to the Target loads.

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

Data Privacy and Sensitivity

N/A

Extraction

Perform full data extraction from relevant tables in the source systems into Syniti Migrate. There will be no relevancy criteria is applied to the extracted records, The DCT is applicable for the Target loads.

Extraction Run Sheet

Req #	Requirement Description	Team Responsible
1.	The new cost element groups will be collected using the Data Collection Template (DCT)	Data Team

Selection Screen

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

Data Collection Template (DCT)

Target Ready Data Collection Template will be created for Cost Element Groups with exception of some fields which require transformation as mentioned in the transformation rule.

DCT - 1 for Cost Element Groups with English language

Field Name	Field Description	Rule
TKA01-KOKRS	Controlling Area	Defaults to 'XXXX'
SETHEADER-SECLASS	Set Class	This field set to be '0102' for Cost Element Group
SETHEADER-SUBCLASS	Organizational Unit as Set Subclass	This field is system generated and defaults to 'XXXX' as a Chart of Accounts
SETHEADER-SETNAME	Set Name	CO01_CE - Cost Element Group Main Hierarchy ID
SETHEADERT-LANGU	Language key	
SETHEADERT-DESCRIPT	Short Description of a Set	Description for Cost Element Group Main Hierarchy ID
SETNODE-LINEID	Set Line	This refers to the Hierarchy root node.
SETNODE-SETNAME	Set Name	This will only updates when there is a subset to the main CE group. If not, this wont be updated in SETNODE.
SETNODE-SUBSETNAME	Subordinate Set ID	This refers to the lowest set ID of the main group
SETLEAF-SETNAME	Set Name	This refers to the lowest set ID name in the hierarchy
SETLEAF-VALFROM	From Value	Cost Elements assignment from a single value or range
SETLEAF-VALTO	To Value	Cost Elements assignment to

DCT - 2 for Cost Element Groups descriptions will be collected on multiple languages (Other than English), hence a separate DCT will be used

SETHEADER	SETNAME	Set Name	Business to enter content as per data type and length permitted
SETHEADERT	LANGU	Language Key	Business to enter content as per data type and length permitted
SETHEADERT	DESCRIPT	Description	Business to enter content as per data type and length permitted

Extraction Dependencies

Item #	Step Description	Team Responsible
N/A		

Transformation

To prepare the data for Target, the Target fields are mapped to the corresponding Legacy field (in this case, DCT)

1. Perform value mapping and data transformation rules.
 - a. Legacy values are mapped to the to-be values (this could include a default value)
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	R2R Data Team
2	Generate Load Files	R2R Data Team
3	Monitor the transformation progress and ensure that performance and completion are within the allowed timelines	R2R Data Team
4	Review and Validate Error and Preload Reports	R2R Data Team
5	Log defects for any kind of errors and address resolution	R2R Data Team
6	Re-transform the pre-load files, validate and ready for load (This step is applicable If step 5 is active, else No)	R2R Data Team
7	Proceed for final loads	R2R Data Team

Transformation Rules

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	DCT	TKA01	KOKRS	Controlling Area	SAP S /4HANA	TKA01	KOKRS	Controlling Area	1:1
2	DCT	SETHEADER	SETCLASS	Set Class	SAP S /4HANA	SETHEADER	SECLASS	Set Class	Constant value: '0102'
3	DCT	SETHEADER	SUBCLASS	Organizational Unit as Set Subclass	SAP S /4HANA	SETHEADER	SUBCLASS	Organizational Unit as Set Subclass	System generates value in the background
4	DCT	SETHEADER	SETNAME	Set Name	SAP S /4HANA	SETHEADER	SETNAME	Set Name	Direct mapping from DCT
5	DCT	SETHEADER	LANGU	Language Key	SAP S /4HANA	SETHEADER	LANGU	Language Key	Direct mapping from DCT
6	DCT	SETHEADER	DESCRIPT	Short Description of a Set	SAP S /4HANA	SETHEADER	DESCRIPT	Short Description of a Set	Direct mapping from DCT
7	DCT	SETNODE	LINEID	Set Line	SAP S /4HANA	SETNODE	LINEID	Set Line	Direct mapping from DCT
8	DCT	SETNODE	SETNAME	Set Name	SAP S /4HANA	SETNODE	SETNAME	Set Name	Direct mapping from DCT
9	DCT	SETNODE	SUBSETNAME	Subordinate Set ID	SAP S /4HANA	SETNODE	SUBSETNAME	Subordinate Set ID	Direct mapping from DCT
10	DCT	SETLEAF	SETNAME	Set Name	SAP S /4HANA	SETLEAF	SETNAME	Set Name	Direct mapping from DCT
11	DCT	SETLEAF	VALFROM	From Value	SAP S /4HANA	SETLEAF	VALFROM	From Value	Direct mapping from DCT
12	DCT	SETLEAF	VALTO	To Value	SAP S /4HANA	SETLEAF	VALTO	To Value	Direct mapping from DCT

Transformation Mapping

Mapping Table Name	Mapping Table Description
N/A	

Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
1	Ensure DCT completeness	R2R Data Team
2	Value Mappings are according to the latest design	R2R Data Team

Pre-Load Validation

Project Team

Completeness

Task	Action
Verify Record Count	R2R 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.

Accuracy

Task	Action
Conversion Accuracy	R2R Data Team to ensure that all fields listed below pass the checks: 1. Mandatory Fields 2. Field and Value Mapping Correctness 3. Null Checks 4. Text Length Checks 5. Hierarchy Nodes
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 DCT.

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.

Accuracy

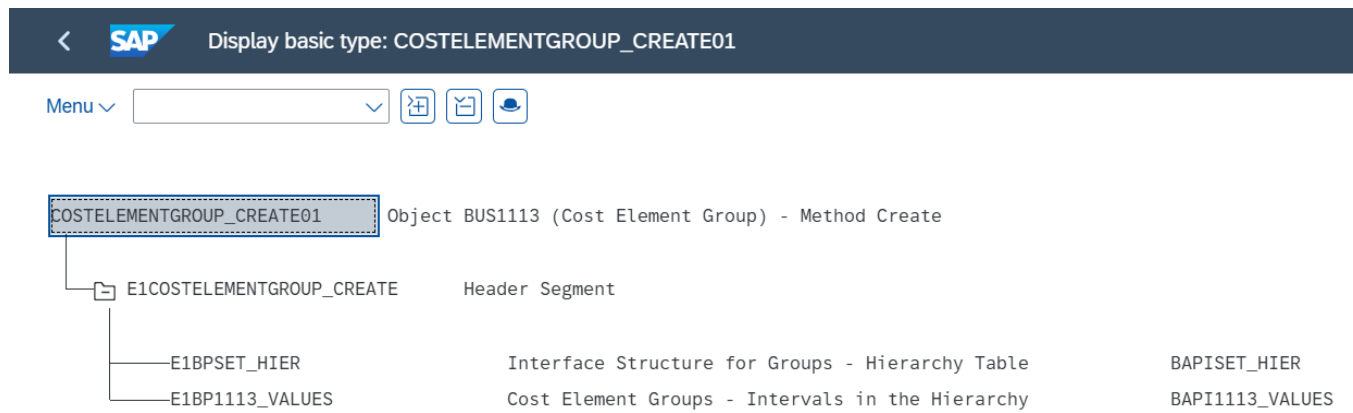
Task	Action
Conversion Accuracy	Business Data Owner/s to verify that all the data in the load table/file is accurate as per endorsed transformation / mapping rules (and signed-off DCT data).

Load

The load process includes:

1. Execute the automated data load into target system using load tool, for this object, the load tool will be LSMW with Import method IDOC and Basic Type - COSTELEMENTGROUP_CREATE01.
2. Once the data is loaded to the target system, it will be extracted and prepared for Post Load Data Validation

Sample DCT attached is for reference.



Export-1 will be used to update the group information

Export-1: E1BPSET_HIER			
GROUPNAME	HIERLEVEL	VALCOUNT	DESCRIPT

Export-2 will be used to update the values in conjunction with the hierarchies

Export-2: E1BP1113_VALUES	
VALFROM	VALTO

Export-3 will be used to update the descriptions of the Hierarchy for different languages

<SETHEADER-SETNAME>	<SETHEADER-LANGU>	<SETHEADER-DESCRIPT>
<SETHEADER-SETNAME>	<SETHEADER-LANGU>	<SETHEADER-DESCRIPT>

<SETHEADER-SETNAME>	<SETHEADER-LANGU>	<SETHEADER-DESCRIPT>
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Note: actual load format and fields will be finalized during the design.

Load Run Sheet

Item #	Step Description	Team Responsible
1	Go to <Load tool>	R2R Data Team
2	Load 1 or 2 records for "Create Cost Element Groups" to validate if data is loaded successfully without errors	R2R Data Team
3	Proceed with full load if step 2 is successful and validated	R2R Data Team
4	Validate few records loaded by accessing standard transactions or tables from S/4HNA E.g. KAH3 or FIORI: Manage Cost Element Groups	R2R Data Team
5	Generate post load report if step 4 is validated	R2R Data Team

Load Phase and Dependencies

Configuration

Item #	Configuration Item
1	Controlling Area
2	Chart of Accounts
3	General Ledger Accounts

Conversion Objects

Object #	Preceding Object Conversion Approach
1067	GL Account Operational COA (Incl. Secondary CE)

Error Handling

Error Type	Error Description	Action Taken
Configuration	Data update is unsuccessful (ex. Invalid Cost Element), system provides opportunity to review the incorrectly populated data and these need to be analysed and corrected	Consult Functional team to expedite and fix the error in the system

Post-Load Validation

Project Team

Completeness

Task	Action
Verify Count	R2R Data Team to verify the record count created in target S/4 HANA by accessing post load reports using standard reports from S/4 HANA.
Verify Logs	Check if there is data that failed to load and perform the necessary actions (e.g. register as post load issue or attempt to load the record again, etc.).

Accuracy

Task	Action
Conversion Accuracy	Verify that the Cost Element Groups in target S/4 HANA are loaded correctly via load program and validate post load reports using standard t.code KAH3 or database tables SETHEADER, SETHEADERT, SETNODE and SETLEAF from S/4 HANA.

Business

Completeness

Task	Action
Verify Count	Download Post Load Reports from load program and verify that the record count loaded in the target S/4 HANA is the same count as of the approved load file.

Accuracy

Task	Action
Conversion Accuracy	Verify that the Cost Element Groups in target S/4 HANA are loaded correctly via load program and validate post load reports using standard t.code KAH3 or database tables SETHEADER, SETHEADERT, SETNODE and SETLEAF from S/4 HANA.

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- Data values in DCT are target ready data unless a specific transformation rule is stated for that field in the transformation rules
- Basic required configuration to be completed prior to this conversation
- LSMW load program will be processed in foreground
- LSMW load method will be finalized during the design phase

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 28)	Oct 07, 2025 10:49	PARA-ext, Anil	
v. 27	Sept 30, 2025 11:53	PARA-ext, Anil	
v. 26	Sept 30, 2025 11:29	PARA-ext, Anil	
v. 25	Sept 30, 2025 10:07	PARA-ext, Anil	
v. 24	Sept 29, 2025 22:51	PILLAY-ext, Lawrence	
v. 23	Sept 29, 2025 09:28	GARCIA-ext, Angel Luis	
v. 22	Sept 25, 2025 18:39	PARA-ext, Anil	
v. 21	Sept 25, 2025 13:56	PARA-ext, Anil	
v. 20	Sept 19, 2025 09:58	PARA-ext, Anil	
v. 19	Sept 17, 2025 12:55	PARA-ext, Anil	

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Workflow history

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

Nov 03, 2025	Actor	Type	Activity	Version
Approved	 MUTHUSAMY-ext, Kunalan	State	changed state to Approved at 10:24 am (State override)	v28
			[PMO Comments] Conversion Spec completed as per CS register and functional review completed	
Lead Approval	 MUTHUSAMY-ext, Kunalan	State	gave <i>Minor change</i> approval at 10:24 am	
			[PMO Comments] Conversion Spec completed as per CS register and functional review completed	
Oct 29, 2025				
	 GARCIA-ext, Angel Luis	State	changed expiry date to '05 Nov, 2025 11:42 am' at 11:42 am	
		State	changed state to Lead Approval at 11:42 am	
Tech Review	 GARCIA-ext, Angel Luis	State	gave <i>Syniti Team Review</i> approval at 11:42 am	
Oct 28, 2025				
	 TJAHJO-ext, Maytingsari	State	changed expiry date to '02 Nov, 2025 02:13 pm' at 2:13 pm	
		State	changed state to Tech Review at 2:13 pm	