



PUBLIC

How to Prepare, Execute and Complete Simplification of 'Integrated Cost Element Maintenance' in MDG-F as of S/4HANA 1809

Applicable Releases:

S/4HANA 1809 and higher

Version 1.2

March 2023

Document History

| Document Version | Description |
|------------------|---|
| 1.0 | First official release of this guide |
| 1.1 | Added chapter with new role for S/4HANA |
| 1.2 | Change template |

| | | |
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1 Business Scenario

SAP Master Data Governance (MDG) provides business processes to find, create, change, and mark master data for deletion. It supports the governance of master data in a central hub and the distribution to connected operational and business intelligence systems.

The processes are workflow-driven and can include several approval and revision phases, and the collaboration of all users participating in the master data maintenance.

MDG offers change request (CR)-based processing of master data with integrated workflow, staging, approval, activation, and distribution.

This guide complements the available documentation about the conversion from ECC to S/4HANA for the integrated Cost Element maintenance for MDG. It describes the preparation and execution of the conversion and provides hints on settings and tests.

This guide focusses on the MDG part only. The S/4HANA back-end conversion is not part of this guide but a prerequisite that needs to be executed.

2 Documentation

2.1 SAP Online Help

- [S/4HANA Master Data in Cost Center Accounting – Cost Elements](#)
- [SAP S/4HANA 1511 Simplification list – Chapter 2.1.24.6 Cost Elements](#)
- [MDG 9.2 / 1809 Business Function: Master Data Governance for Financials 9.2 - S/4HANA \(MDG_S4_FINANCIALS_8\)](#)
- [Configuration Guide: Configuring Master Data Governance for Financials](#)

2.2 SAP Notes

MDG

- [2679021](#) - MDGF: Business function activation fails
- [2673467](#) - MDG-F: Missing BAdI implementation when activating Business Function MDG_S4_FINANCIALS_8
- [2731153](#) - MDG-F: Issue with dynamic function module call in G/L Account migration report
- [2810600](#) - Problems to activate Business Function MDG_S4_FINANCIALS_8

S/4HANA in general:

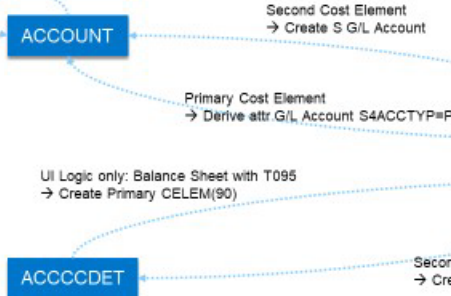
- [2542836](#) - Business Add-In for Migration/ALE for Secondary Cost Elements

Merge Cost Element into G/L Account *

Derivation Overview

To keep the current MDG data model, new derivation are delivered which are called during migration and runtime

S4ACCTYP(X or N or P) ↔ ACCTYP(1 or 2)



Data Model 0G Change

New attribute on entity type ACCOUNT:
-S4ACCTYP

| | B/S Accounts | Neutral | P&L Accounts | |
|--------------|--------------|---------|-----------------------|-------------------------|
| FI | | | Costs/Revenues | Secondary |
| CO | | | Primary Cost Elements | Secondary Cost Elements |
| Abbreviation | X | N | P | S |

In the future, Secondary cost elements will be included into P&L accounts of FI. They can be differentiated by new „G/L Account Type“ (B/S – Neutral P&L – Primary CR – Secondary CR) and are allowed to be used in CO transactions only. Integration to FI is one-to-one, secondary cost accounts are shown on all FI screens and in reporting.
The implementation builds on the new entity „domain, data element, field in table SKA1) GLACCOUNT_TYPE“.

S/4 HANA

* Still possible to change it via
Initial Load/File Upload/Mass
Change

*) Adoption of the universal journal for SAP S/4HANA is only available in SAP MDG on SAP S/4HANA. Not planned for SAP MDG on ERP.

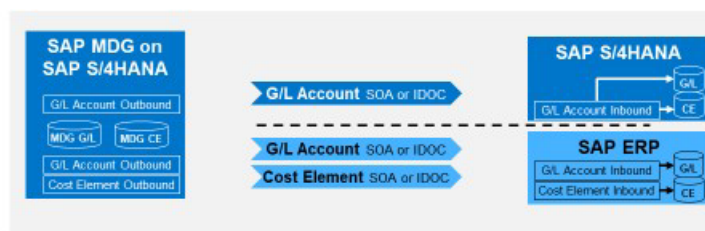
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Merge Cost Element into G/L Account *

Data Replication for S/4HANA-Specific G/L Account

If you are using the S/4HANA-specific G/L Account, and if the target system is an S/4HANA system, do not include Cost Elements in any replication model. If the target system is an ECC system, include both G/L Accounts and Cost Elements in the replication model. However, Secondary Cost G/L Account should be excluded from the replication to the ECC system by using the filter function. For more information on filters, see [Define Filter Criteria](#).



*) Adoption of the universal journal for SAP S/4HANA is only available in SAP MDG on SAP S/4HANA. Not planned for SAP MDG on ERP.

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Merge Cost Element into G/L Account *

New business function MDG_S4_FINANCIALS_8 will be delivered to control this function.

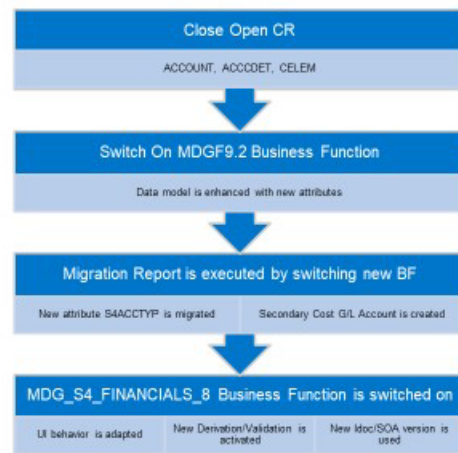
Before Switch on, all open change requests for G/L Accounts and Cost Elements need to be closed.

Note that prior to activating the Business Function MDG_S4_FINANCIALS_8, the Business Function **Master Data Governance for Financials 9.2** (MDG_FINANCIALS_8) must be activated.

Migration report USMD_FIN_S4MIGRATION is executed during switching. The migration report must be executed successfully.

For more information about the requirements, see the Business Function description under [Master Data Governance for Financials 9.2 - S/4HANA \(MDG_S4_FINANCIALS_8\)](#).

For MDGF running customers



* Adoption of the universal journal for SAP S/4HANA is only available in SAP MDG on SAP S/4HANA. Not planned for SAP MDG on ERP.

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All processes will provide the same results as before.

There is only one restriction regarding replication – if you trigger replication for a single object either from the search results list or via the replication UI, you can replicate either G/L Account or Cost Element (from the related search results).

Replicating a G/L Account directly will not trigger the related Cost Element replication automatically.

3 Preparation

1) Close open change requests

Process / Close all open change requests for the MDG entity types ACCOUNT, ACCCDET, CELEM

2) Activate MDG Business Function

Activate the related MDG Finance Business Function *Master Data Governance for Financials 9.2* (MDG_FINANCIALS_8). This requires the underlying MDG Foundation Business Function *Master Data Governance, Generic Functions 9.2* (MDG_FOUNDATION_9) to be activated.

Migration report USMD_FIN_S4MIGRATION is executed automatically during switching. The migration report must be executed successfully. The next steps provide some more information in case the report runs into errors.

3) Prepare Conversion

The conversion of the MDG tables assumes a proper conversion to S/4HANA and the merged Cost Element step. For latest checks and prerequisites, consult SAP note [2810600 - Problems to activate Business Function MDG_S4_FINANCIALS_8](#). MDG leverages existing settings and is in line with default logic in S/4HANA migration in the FI area:

- The system expects the default Field status group "SECC" for secondary cost elements to be defined for all involved company codes.
- The system expects default account group (KTOKS) "SECC" for secondary cost elements to be defined in Customizing table T077S, for all involved Charts of Accounts (KTOPL), in line with default logic in S/4HANA migration in the FI area.

- c. The system expects standard group accounts to be defined in table T030 (account determination) for all used Charts of Accounts for Transaction Key (KTOSL) "CO1".
- d. A BAdI GL_ACCOUNT_MASTER_DERIVE exists for inbound processing, which customers can use to influence those default settings / overwrite them during S/4HANA migration. MDG checks against the same back-end tables (incl. the BAdI), therefore either the default SECC or customer's own entries can be used.

4 Conversion for MDG

1) Activate S/4HANA-specific Business Function

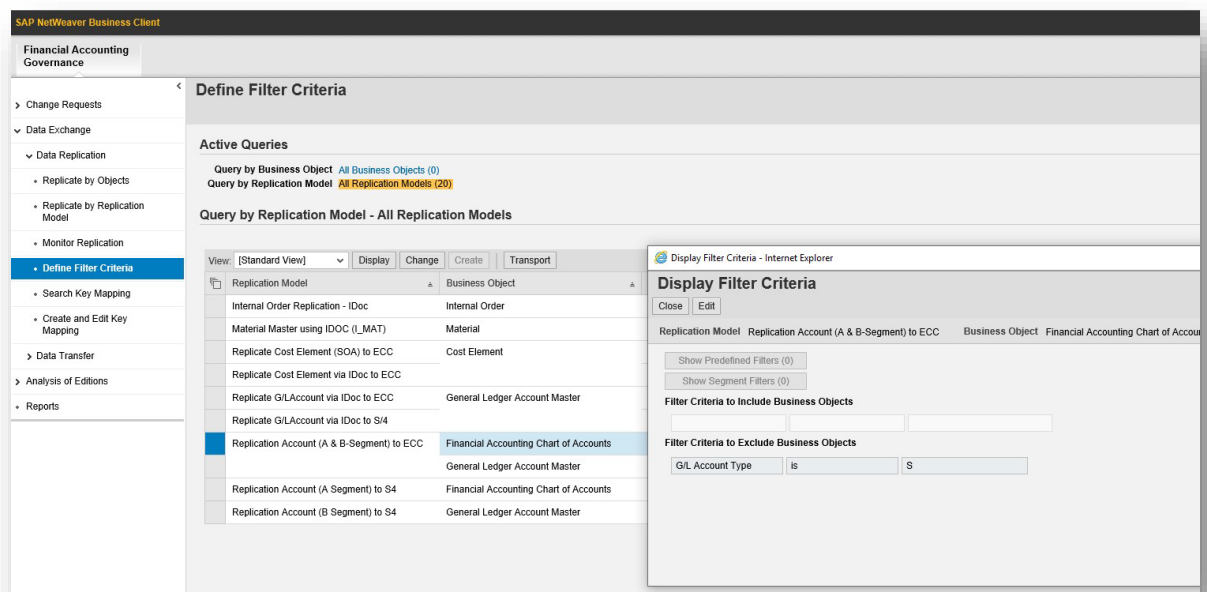
New business function MDG_S4_FINANCIALS_8 will be delivered to control this function.

2) Execute conversion

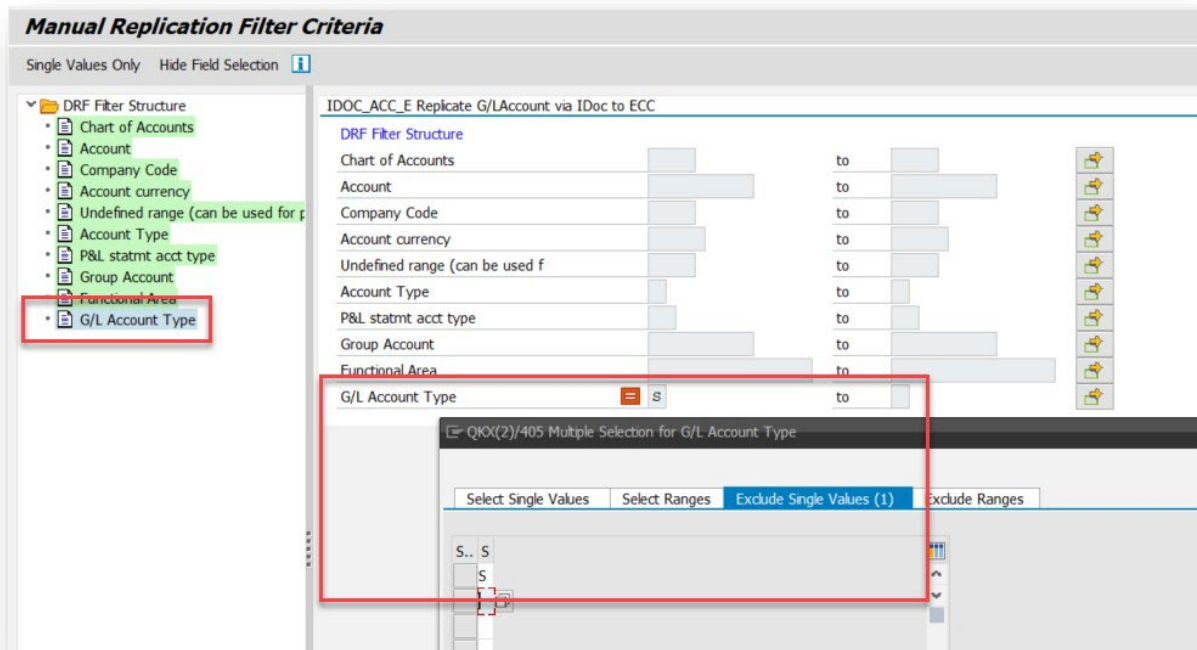
Migration report USMD_FIN_S4MIGRATION can now be executed successfully.

3) Define Filter criteria for ECC target systems

For any ECC target system, you need to add filter criteria so that Accounts of type "S" are not sent from the MDG system. Otherwise, the inbound interface would try to create a G/L account in ECC with the same ID. You only need to create this filter for the Account messages – regardless of whether they are via SOA or IDoc. The Cost Elements need to be sent like before, and no additional filter settings are required after the conversion step. Example showing how to define this permanent filter criteria:



Example showing filter criteria for manual replication by DRFOUT transaction:



4) Adjust Replication

Many customers (and SAP's best practice recommendation as well) are defining separate replication models per entity type, e.g. for G/L Accounts, Cost Centers or Cost Elements. The new Business Function disables Cost Elements from the standard menu 'Master Data Governance for Financials: Controlling Menu' 05 version (SAP_MDGF_CTR_MENU_05). If you want to allow users to replicate individual Accounts and their Cost Elements via a search result list, you have to re-integrate the Cost Element search from the 04 version Menu. The user can then use the cost element search to replicate them manually. From the Account search screen that will now include also the secondary cost elements, manual replication will only trigger the "Account", but no cost element (neither primary nor secondary).

5) Check and adjust UI configuration

The MDG S/4HANA business function will prepare the change of the standard UI configuration.

- The old UIBB for Primary Cost Elements (MDGF_0G_FI_ACCOUNT_CELMS) is automatically hidden by program coding.
- Optionally, you can also hide this old UIBB via UI configuration settings for more transparency. The new UIBB for Controlling Data (MDGF_0G_FI_ACCOUNT_CTRAREAS) is delivered but hidden by default.

In order to make the new Controlling Data User Interface Building Block (UIBB) visible, you have to carry out the following steps (see also MDG-F Configuration Guide):

- Run transaction NWBC to launch the NetWeaver Business Client.
- Navigate to the *Financial Accounting Governance*.
- Select *G/L Account Centrally*.
- Choose the *Customize Page* button on the top right.
- In the *Navigation* table on the left, select the Main Page MDGF_0G_FI_ACCOUNT_OVP.
- In the *Overview Page Schema* section, select the UIBB: Controlling Data.
- In the *Attributes* section on the right, select Hidden Element: Visible.
- Save your entries.

You can verify the settings also via the ABAP Workbench (SE80):

- Web Dynpro Application: MDGF_OVP_GEN
- Application Configuration: MDGF_0G_OVP_FI_ACCOUNT
- Component: FPM_OVP_COMPONENT

d. Component Configuration: MDGF_0G_FI_ACCOUNT_OVP

| Element | Component | Config ID | Window Name |
|--|-------------------|-------------------------|-------------|
| Section: TECHNICAL_SECTION | | | |
| UIBB: Account Wiring | FPM_FORM_UIBB_GL2 | MDGF_0G_FI_ACCOUNT_WIRE | FORM_WINDOW |
| Section: SECTION_1 | | | |
| UIBB: Account Details | FPM_FORM_UIBB_GL2 | MDGF_0G_FI_ACCOUNT | FORM_WINDOW |
| UIBB: Account Descriptions | FPM_LIST_UIBB_ATS | MDGF_0G_FI_ACCOUNT_TEX1 | LIST_WINDOW |
| UIBB: Account Assignments in Financial Reporting Structure Hiera | FPM_LIST_UIBB_ATS | MDGF_0G_FI_ACCOUNT_FRSI | LIST_WINDOW |
| UIBB: Account Consolidation Details | FPM_FORM_UIBB_GL2 | MDGF_0G_FI_ACCOUNT_CON | FORM_WINDOW |
| UIBB: Account in Company Codes | FPM_LIST_UIBB_ATS | MDGF_0G_FI_ACCCCDETS | LIST_WINDOW |
| <input checked="" type="checkbox"/> UIBB: Primary Cost Elements | FPM_LIST_UIBB_ATS | MDGF_0G_FI_ACCOUNT_CEL | LIST_WINDOW |
| <input checked="" type="checkbox"/> UIBB: Controlling Data | FPM_LIST_UIBB_ATS | MDGF_0G_FI_ACCOUNT_CTR | LIST_WINDOW |
| UIBB: Account Attachments | FPM_LIST_UIBB_ATS | MDGF_0G_FI_ACCOUNT_ATT | LIST_WINDOW |
| UIBB: Blocking Flags | FPM_FORM_UIBB_GL2 | MDGF_0G_FI_ACCOUNT_BLOC | FORM_WINDOW |
| UIBB: Deletion Flag | FPM_FORM_UIBB_GL2 | MDGF_0G_FI_ACCOUNT_DELE | FORM_WINDOW |

If you have created Modifications or Customizations of your Component Configuration for Accounts, the new UIBBs need to be integrated and set to visible manually. SAP recommends resetting the customizations back to standard and redoing them including the new UIBB. This will ensure that you also have the latest binding, wiring, etc. If you did a deep copy of the UI configuration, then you also need to include the new UIBB manually.

6) Replace the MDG-F Controlling Role for the Menu

The latest standard menu role delivered for MDG-F Controlling was SAP_MDGF_CTR_MENU_05. If the Business Function *Master Data Governance for Financials 9.2 - S/4HANA (MDG_S4_FINANCIALS_8)* is activated, use the following role instead: SAP_MDGF_CTR_MENU_SF01_01. Assuming that you did not add or change any authorizations in that "menu" role, existing roles that contain the authorizations (typically copies of the REQuestor / SPECialist / STEWard roles) can be used unchanged.

5 Adjusted Process

5.1 Test cases (recommendation)

We recommend testing (at least) the following cases:

- Create, copy, change, mass change
- Replicate per service and/or per IDoc
- Replicate to S/4HANA and ECC and any 3rd party
- Test all 4 Account categories N, P, S, X
- Specifically, for Secondary Cost Elements you may want to vary the data with or w/o Company Code(s) with or w/o Controlling areas
- Replicate via Change Request, Edition, Replication Model (e.g. using transaction DRFOUT), direct replication (will do either G/L Account or Cost Element since it is Object Type based)

5.2 Process and checkpoints

After finalizing the conversion and related steps, you should thoroughly test your upgrade scenario and adjust the user documentation. Often this can be combined together.

Search for an account of type secondary cost element and trigger a change request.

Add company code(s) and use the Generate button. Via the default Controlling Area assigned to the Company Code, the Cost Element information will be generated. You can then maintain additional attributes.

G/L Account: INT/11004, IRO Primary Copy - M

Save Submit Withdraw Draft Show Check Change Documents Undo Redo

Account in Company Codes Copy New

| Actions | C... | Company Code | Company Code Description |
|---------|------|--------------|--------------------------|
| Details | | 0001 | MDG Company Code 0001 |
| Details | | 0003 | SAP US (IS-HT-SW) |

Controlling Data Edit Generate

| Ac... | C... | Controlling Area | Cost Element Category | Cost Element Category... | Unit of Measure | Unit of Measure Descripti... | Record Quantity |
|-------------------|------|------------------|-----------------------|--------------------------|-----------------|------------------------------|-----------------|
| No data available | | | | | | | |

You can delete controlling areas but cannot add them manually – this happens indirectly via the Company Code.

G/L Account: INT/11004, IRO Primary Copy - M

Save Submit Withdraw Draft Show Check Change Documents Undo Redo

No errors found

Account in Company Codes Copy New

| Actions | C... | Company Code | Company Code Description |
|---------|------|--------------|--------------------------|
| Details | | 0001 | MDG Company Code 0001 |
| Details | | 0003 | SAP US (IS-HT-SW) |

Controlling Data Edit Generate

| Ac... | C... | Controlling Area | Cost Element Category | Cost Element Category... | Unit of Measure | Unit of Measure Descripti... | Record Quantity |
|-------|------|------------------|-----------------------|--------------------------|-----------------|------------------------------|-----------------|
| Ch | | 0001 | 11 | Revenues | | | |
| Ch | | 0003 | 11 | Revenues | | | |

The deletion of a Company Code is blocked (grayed out) as long as Controlling Area data exists. Ensure that the account contains at least one company code and one controlling area – the latter will determine the inclusion of the cost element data in the change request. You should have a look at the object list of the change request e.g. via *My Change Requests*. Ensure that *Cost Element* is included.

Financial Accounting Governance

Display Change Requests

Print Preview | New Selection

Change Requests

View: * [Standard View] | Print Version | Export | Workflow Log

| Change Request | Edition | Valid-From Date | Status | Changed On | Changed By | Type |
|----------------|-----------|-----------------|------------------------|------------|------------|----------------|
| 6982 | IMM_DISTR | 01.01.2010 | Changes to Be Executed | 31.07.2019 | | Create Account |

Details of Change Request 6982 (Copy Entity from Template INT/0000010004)

| G/L Account (Company Code) | Account | Cost Element | Change Request Header |
|----------------------------|---------------------------|--------------|-----------------------|
| COAr | Description | Cost Elem. | Description |
| 0003 | SAP US (is-ht-sw) | 11004 | test 101 |
| 0001 | Kostenrechnungskreis 0001 | 11004 | test 101 |

If the change request has immediate distribution, start transaction DRFRSD "Display Replication Status" to look at the message sent and related logs for your change request.

Display Replication Status

Free Selection

Selection Criteria

Main Criteria

Business Object: [] Run ID: []

Change Request: 6777

Additional Criteria

Business System: [] Replication Status: []

Repl. Date (from): [] Repl. Date (to): 05.07.2019

Block or Unblock Replication | **Display Replication Log**

| RepBlocked | Business System | Object ID | Repl. Status | Date | Time | Outb. Imp. Msg./IDoc Number | Comm. Channel | CReq Handle | Run |
|------------|-----------------|--------------------|------------------|------------|----------|--|--------------------------|-----------------------------|-------|
| | QKX_410 | CACH0000001600 | Message was sent | 05.07.2019 | 12:48:30 | 1012 0000000000513953 | Replication via IDoc | 6777 {XO(HIS97)cdubp{Z4UxW | 52896 |
| | QKX_410 | CACH0000001600 | Message was sent | 05.07.2019 | 12:51:55 | 1012 0000000000513957 | Replication via IDoc | 6777 {XO(HIS97)cdubp{4qTVIw | 52897 |
| | QKX_410 | CACH0000001600CH01 | Message was sent | 05.07.2019 | 12:48:30 | 1012 0000000000513953 | Replication via IDoc | 6777 {XO(HIS97)cdubp{4qTVIw | 52896 |
| | QKX_410 | CACH0000001600CH01 | Message was sent | 05.07.2019 | 12:51:55 | 1012 0000000000513957 | Replication via IDoc | 6777 {XO(HIS97)cdubp{4qTVIw | 52897 |
| | QKX_421 | CACH0000001600 | Message posted | 05.07.2019 | 12:48:32 | 1010 FA163E46F7091ED9A7E24DCB1314BEE | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52896 |
| | QKX_421 | CACH0000001600 | Message posted | 05.07.2019 | 12:51:56 | 1010 FA163E46F7091ED9A7E25CF3DF37FF4B | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52897 |
| | QKX_421 | CACH0000001600CH01 | Message posted | 05.07.2019 | 12:48:32 | 1010 FA163E46F7091ED9A7E24DCB1314BEE | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52896 |
| | QKX_421 | CACH0000001600CH01 | Message posted | 05.07.2019 | 12:51:56 | 1010 FA163E46F7091ED9A7E25CF3DF37FF4B | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52897 |
| | QMN_421 | CACH0000001600 | Message was sent | 05.07.2019 | 12:48:33 | 1010 | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52896 |
| | QMN_421 | CACH0000001600 | Message was sent | 05.07.2019 | 12:51:57 | 1010 | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52897 |
| | QKX_421 | CACH0000001600 | Message posted | 05.07.2019 | 12:48:28 | 1000_V1 FA163E46F7091ED9A7E24D697BD7DEE | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52896 |
| | QKX_421 | CACH0000001600 | Message was sent | 05.07.2019 | 12:51:53 | 1000_V1 FA163E46F7091ED9A7E25CA7CEB67F4A | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52897 |
| | Q1E_418 | CH010000001600 | Message was sent | 05.07.2019 | 12:48:33 | 1182 0000000000513954 | Replication via IDoc | 6777 {XO(HIS97)cdubp{4qTVIw | 52896 |
| | Q1E_418 | CH010000001600 | Message was sent | 05.07.2019 | 12:51:56 | 1182 0000000000513958 | Replication via IDoc | 6777 {XO(HIS97)cdubp{4qTVIw | 52897 |
| | QMN_421 | CH010000001600 | Message was sent | 05.07.2019 | 12:48:35 | 1180 FA163E46F7091ED9A7E24DFC485B1EF2 | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52896 |
| | QMN_421 | CH010000001600 | Message was sent | 05.07.2019 | 12:51:58 | 1180 FA163E46F7091ED9A7E25D0FF5AE9F4B | Replication via Services | 6777 {XO(HIS97)cdubp{4qTVIw | 52897 |

Number of Entries which meet selection criteria 18

You could also use this monitor to check for all Cost Element messages in a given period – use Business Object Type 983 for this. You can filter per target system, status etc. The right column contains a hyperlink to open the detailed log of the single message:

Display logs

Technical Information

| Date/Time/Replication Model/Business Object Type/M | Nu... | Replication Model... | Business Object ... | Outbound Imple... | Outbound Imple... | Run ID | External ID |
|---|-------|-----------------------|---------------------|-------------------|-------------------|-----------------|----------------|
| 05.07.2019 12:51:57 SOA_ACC_E 983 Directly | 7 | Replication Accoun... | Cost Element | 1180 | Cost Element | 000000000052897 | SOA_ACC_E 1180 |
| Process outbound implementation Cost Element (1180) | 7 | | | | | | |
| More Messages During Output Processing | 6 | | | | | | |

Type Message Text

| Type Message Text | Details |
|---|---------|
| Process outbound implementation Cost Element (1180) | |
| More Messages During Output Processing | |
| Replication to business system QMN_421 | |
| Filter object F_CELEM - Cost Element; end result of filtering 1 | |
| Process Messages | |
| Message FA163E46F7091ED9A7E25D0FF5AF3F4B with a data record was transferred to PI | |
| Processing of outbound implementation 1180 completed | |

Results vary by technology, available filters etc. In most cases you can drill down to see additional details.
www.sap.com

6 Additional Information

6.1 Further Reading

6.1.1 Information on SAP MDG on SAP S/4HANA

- Exchange knowledge: [SAP Community](#) | [Q&A](#) | [Blog](#)
- Try SAP Master Data Governance on S/4HANA for free: [Trial Version](#)
- Learn more: [Latest Release](#) | [Webinars](#) | [Help Portal](#) | [How-to Information](#) | [Key Presentations](#)

6.1.2 SAP Roadmap Explorer

- Please see the [roadmap for SAP Master Data Governance](#)

6.1.3 Related Information

- Learn more: [Floorplan Manager for Web Dynpro ABAP](#) | [How to Adapt FPM](#) | [FPM Blog](#) | [How-to Information](#) | [Service Mapping Tool](#) | [SAP S/4HANA Cookbook CVI](#)

