PUBLIC

How-To: MDG Change Request Overview and Step Details Drill-Down by Master Data Attribute and Workflow Information

Applicable Releases:

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Document History

Document Version	Description
1.0	First official release of this guide
1.1	Adapt 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.

In SAP MDG on SAP S/4HANA 2020, a new process analytics framework is delivered: *Change Request Analytics by Master Data Attributes*. With it, you can provide analytics capabilities to enable your master data specialists to get real time insights into change request processes by master data attributes and organizations. For details, please refer to blog post Get Your MDG Change Request Analytics drill down by Master Data Attribute and Organization.

In the same release, *Work Items Analytics for Change Requests* are also delivered as out-of-box applications to enable master data specialists to get real time insights into step details of change request processes. For each SAP-delivered data model e.g., Business Partner, Material, and Financial Master Data, there are smart business applications delivered in the relevant MDG central governance Fiori catalog.

You can use these two solutions to address different analytics requirements. However, you may want to analyze both levels of information in one central place, e.g., look at change request overview by material type and drill down into step level analytics for certain processes. In this guide it is shown how to combine both information levels into one data source in a custom project and provides comprehensive analytics functions.

You need to use the ABAP development tool to create a CDS view, which is also the main technical prerequisite for following this guide.

2 Overview

Before going into detail, here is the targeting architecture blueprint and the steps overview.

The solution is based on the analytics CDS views technology which is widely used in S/4 analytics. The main goal of this blog is to learn how to create analytics CDS views by reusing SAP CDS views from work item analytics and the generated master data attribute based CDS views. I will also use an example to show you the full configurations and the configured application in the end.

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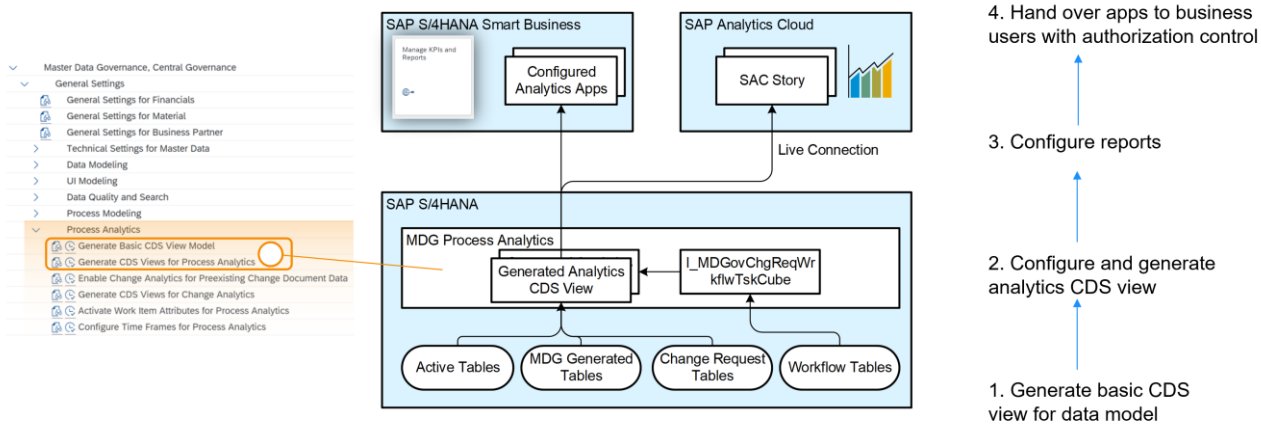


Follow these steps to start your configuration:

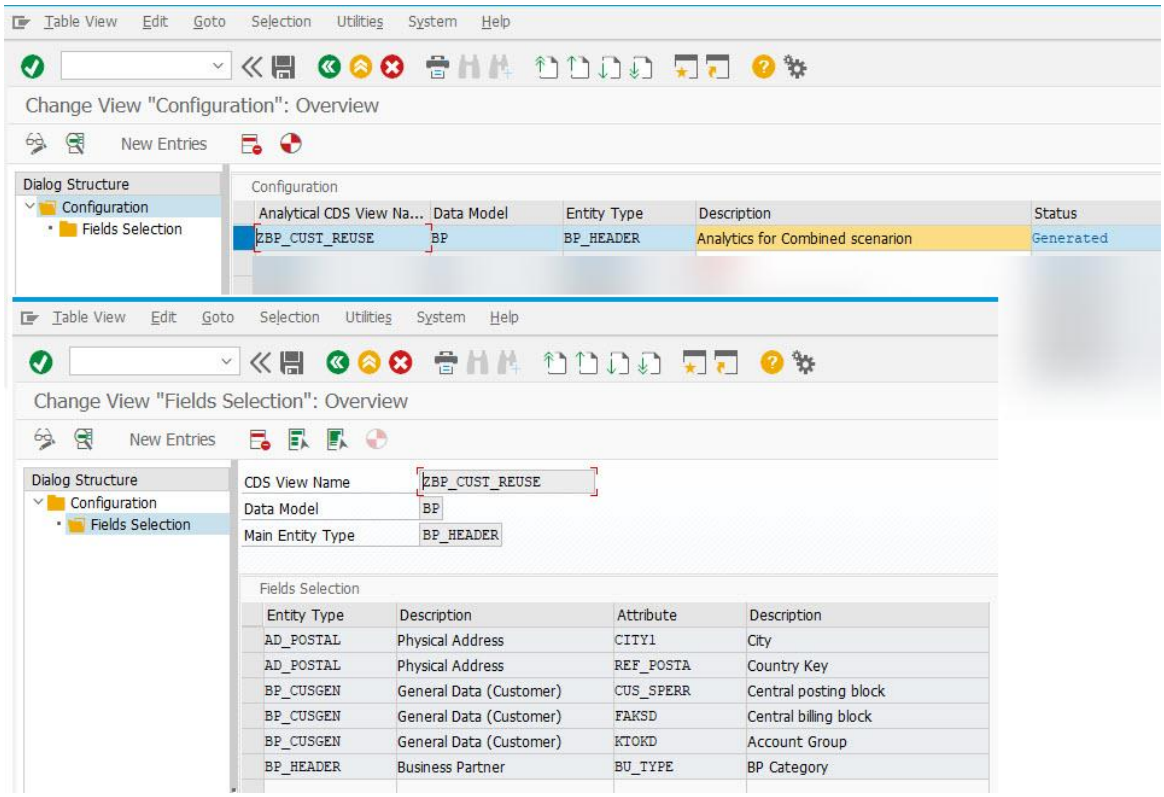
1. Configure and generate analytics CDS views for prepared master data attributes.
2. Create combined cube and query CDS view by joining both change request cube and work item cube.
3. Configure analytics report.
4. Configure PFCG role and authorization control.

2.1 Configure and generate analytics CDS views

For more information, refer to the section “Configure and Generate CDS Views” in guide How to Configure MDG Change Request Analytics by Master Data Attributes.

Here you configure one analytics CDS view by selecting attributes which your end user would like to analyze. After it is generated successfully, you can open it via ABAP Development Tool. You will see there are three CDS (Data Definition) and three DCL (Access Control) views generated under this name.

We will need the CUB view (name contains suffix CUB) for the next step.



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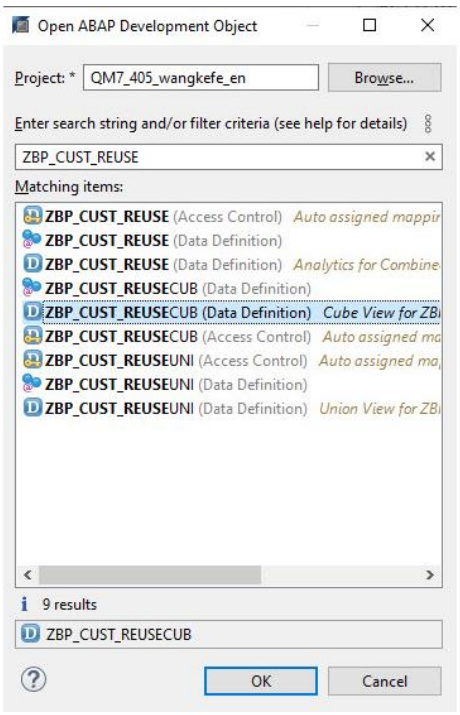

2.2 Create a combined cube and query CDS view

2.2.1 Create a cube CDS view

For change request work items analytics in all MDG domains, cube view **`I_MDGovChgReqWrkflwTskCube`** is the central data source. In this step, we will create one new cube CDS view based on this cube and the generated cube CDS view from the last step.

In the new CDS view, there are two parameters that need to be inherited from **`I_MDGovChgReqWrkflwTskCube`**: one is from the data model and one is for open or closed work items.

```
@Analytics.dataCategory: #CUBE
define view ZBP_CUST_OBJ_WF_CUB
  with parameters
    P_MDGovDataModel         : usmd_model,
    P_MDGovChgReqWrkflwScen : char1
  as select from ZBP_CUST_REUSECUB  as _MDGOBJ
     join  I_MDGovChgReqWrkflwTskCube
           (P_MDGovDataModel: :P_MDGovDataModel,       P_MDGovChgReqWrkflwScen:
           :P_MDGovChgReqWrkflwScen )
     as _MDGWorkflow
     on _MDGOBJ.MDGovChangeRequest = _MDGWorkflow.MDGovChangeRequest
```

In this new CDS view, you can expose both change request level measure fields from the generated CDS view **`ZBP_CUST_REUSECUB`** and work item measure fields from **`I_MDGovChgReqWrkflwTskCube`**.

```
//////////////// Change Request ////////////////////
@DefaultAggregation: #MAX
```

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```
NumberOfMDGovChangeRequests     as NumberOfMDGovChangeRequests,
@DefaultAggregation: #MAX
MDGovChgReqProcessingDuration   as MDGovChgReqProcessingDuration,
@DefaultAggregation: #MAX
MDGovChgReqAvgProcgDuration     as MDGovChgReqAvgProcgDuration,
/////////////// Work Items ////////////////////
@DefaultAggregation: #MAX
MDGovChgReqNmbrOfWrkflwTsks,
@DefaultAggregation: #MAX
MDGovWrkflwTskAvgProcgDurn,
@DefaultAggregation: #MAX
MDGovWrkflwTskAvgProcgHrs,
@DefaultAggregation: #MAX
MDGovWrkflwTskAvgProcgWorkDays,
```

2.2.2 Create a Query CDS view

You can create a query CDS view based on the new cube CDS view by defining the values for parameters, which data model is used, and whether you want to analyze open or completed work items.

```
@Analytics.query: true
@OData.publish: true
define view ZBP_CUST_OBJ_WF_OPEN
  as select from ZBP_CUST_OBJ_WF_CUB(P_MDGovDataModel : 'BP', P_MDGovChgReqWrkflwScen:
'O' )
```

Note: **`P_MDGovChgReqWrkflwScen`**:

'O' → Open work items

'C' → Completed work items

2.2.3 Configure analytics report

Based on the created analytics query CDS view, here we use SAP Smart Business Generic Drill-down reports to create one Fiori application for the end user.

For details, please refer to the section “Configure Analytics Fiori Apps in SAP S/4HANA for Your End User” in guide How to Configure MDG Change Request Analytics by Master Data Attributes.

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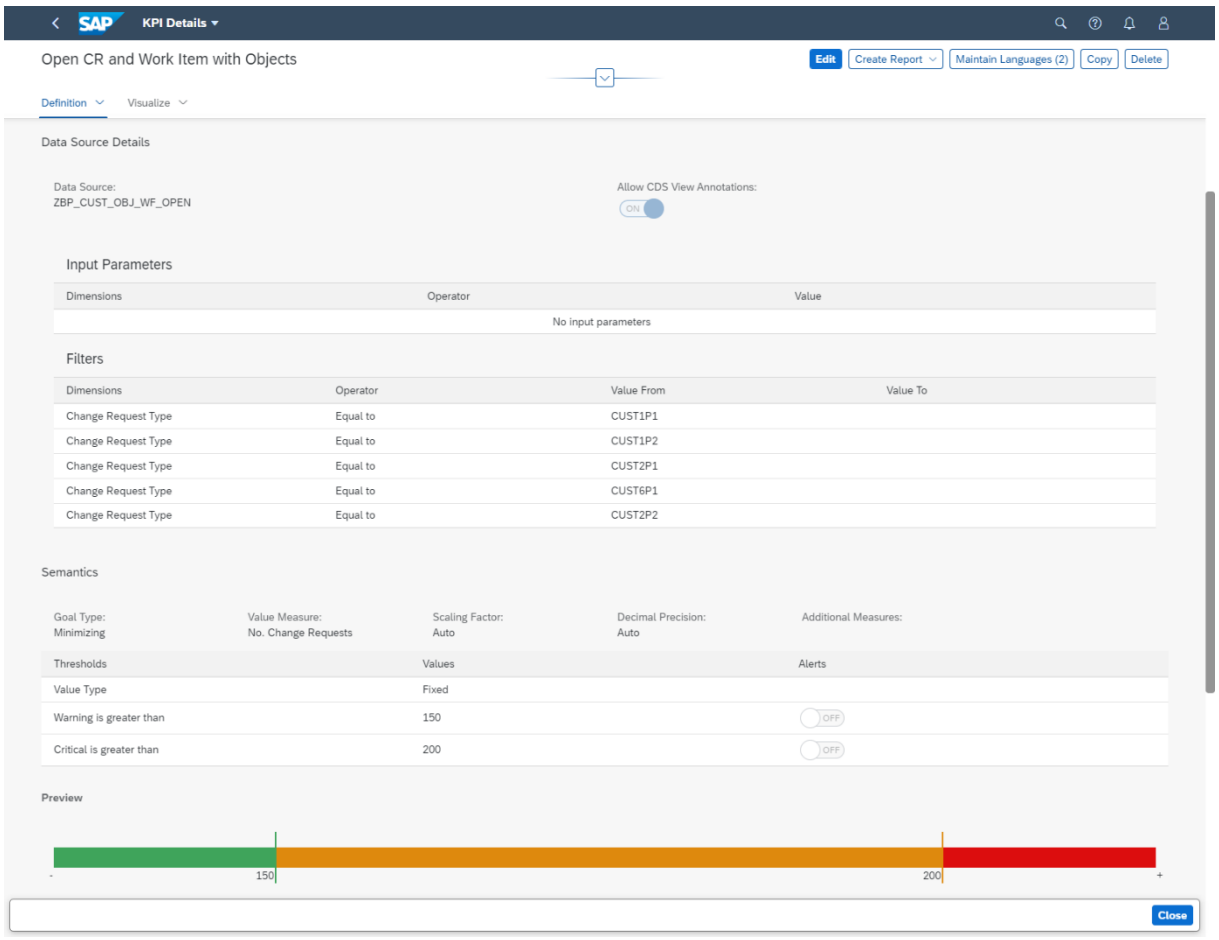

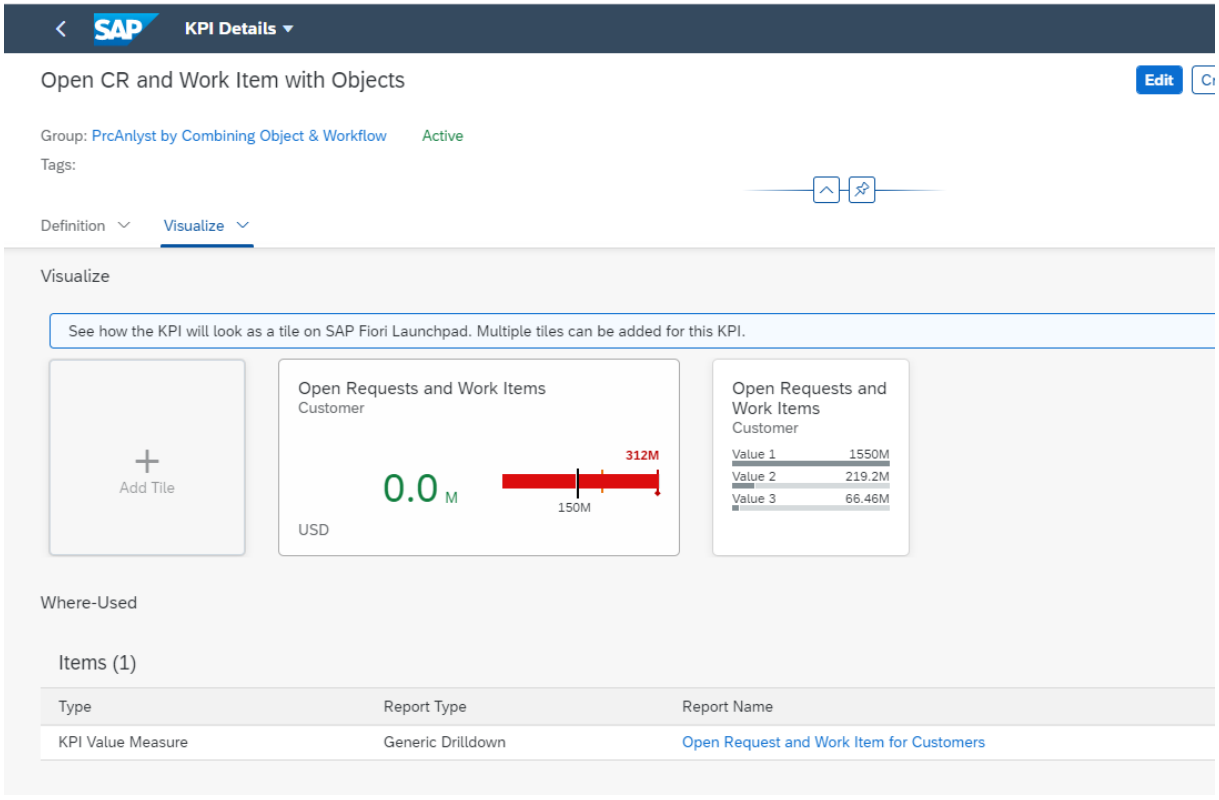

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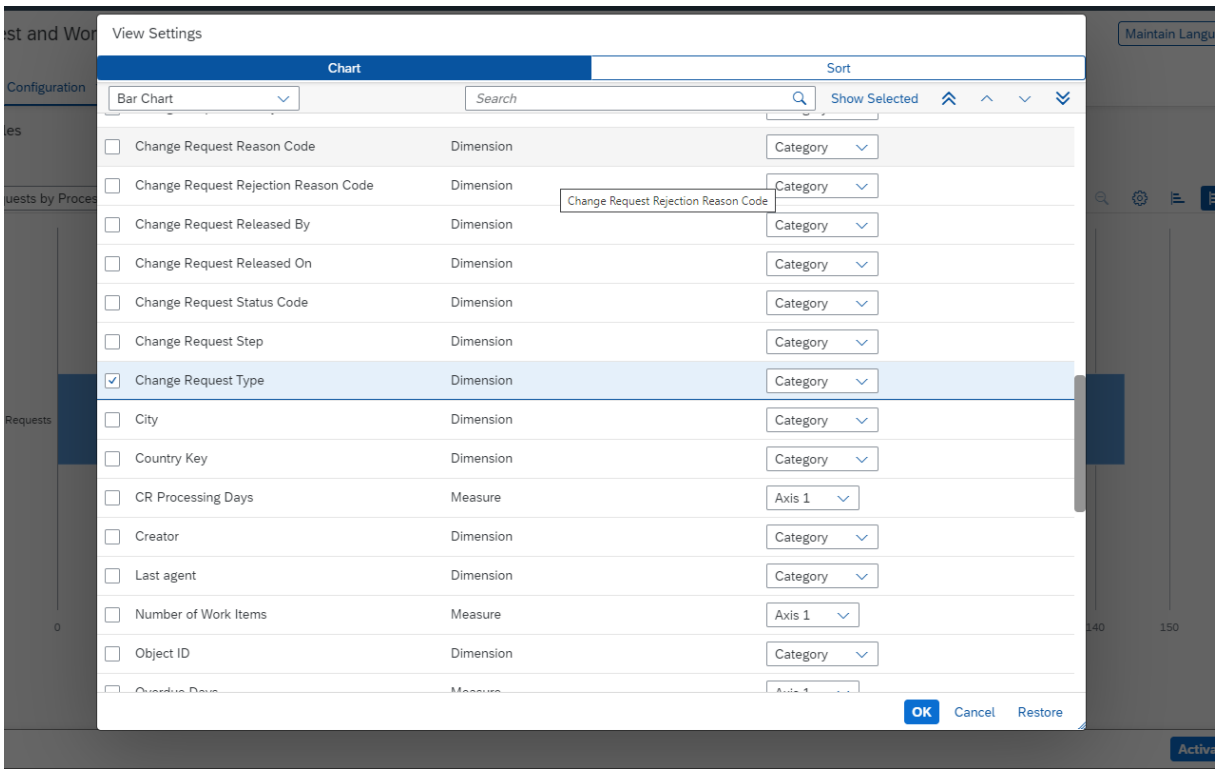
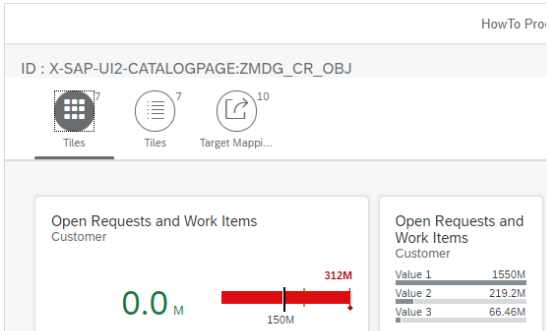


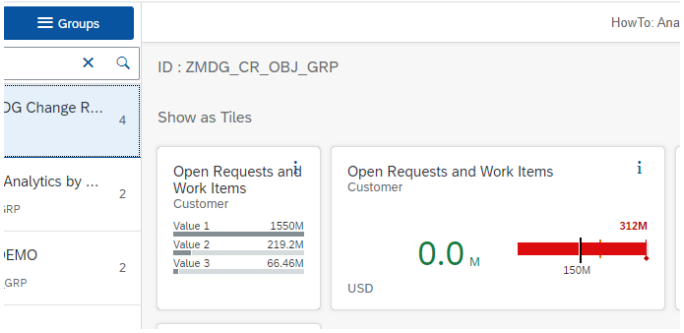
2.2.4 Configure role and authorization control

To be able to provide your apps to the end user, you must assign the configured application to a Fiori catalog and a Fiori catalog group

For details, please refer to the section “Configure Role and Authorization Control” in guide How to Configure MDG Change Request Analytics by Master Data Attributes.

Here is an example for the Fiori catalog and group (found in the Fiori Gateway system if the UI has a separated system).





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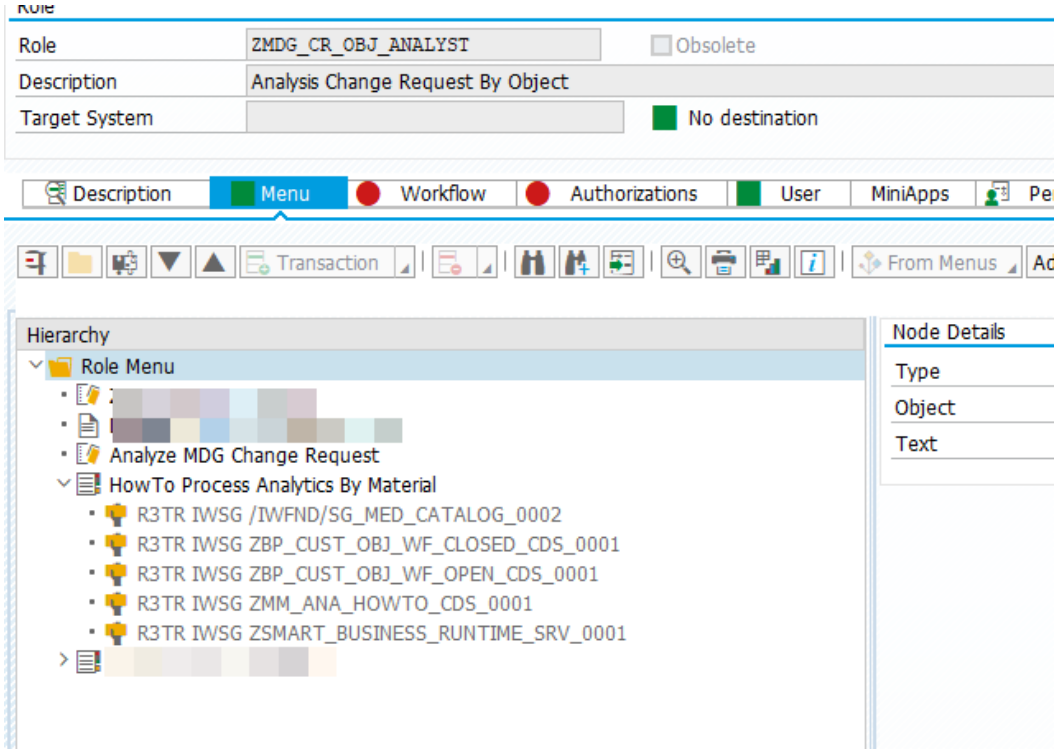
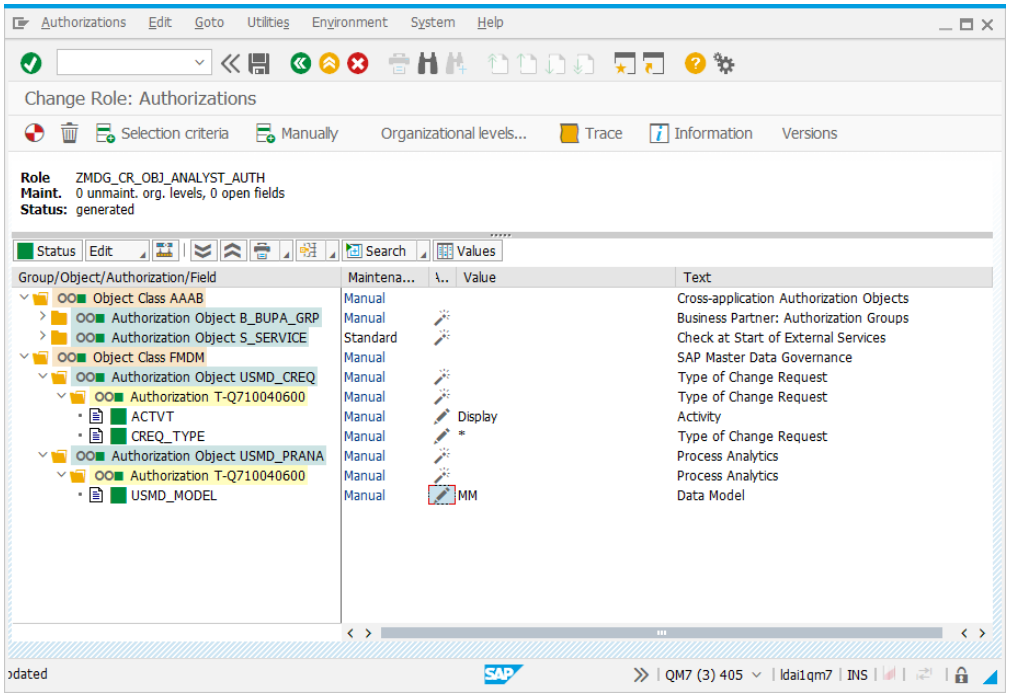
Here is an example of Fiori PFCG role assignment (found in the Fiori Gateway system if the UI has a separated system).



Here is the authorization PFCG role in the back-end system.



3 Summary

Following this document, you should be able to set up analytics report for your end user to analyze the change requests and work items together in one application-enabled drill-down by master data attribute, change request attribute, and workflow information.

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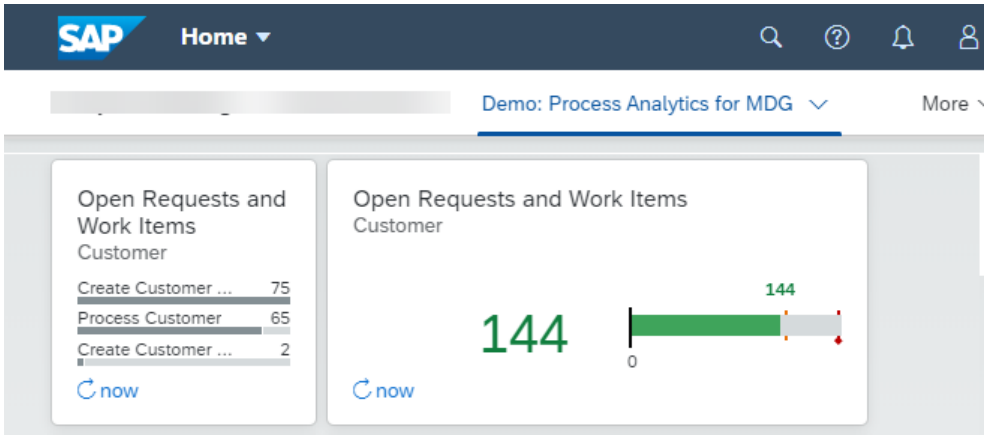
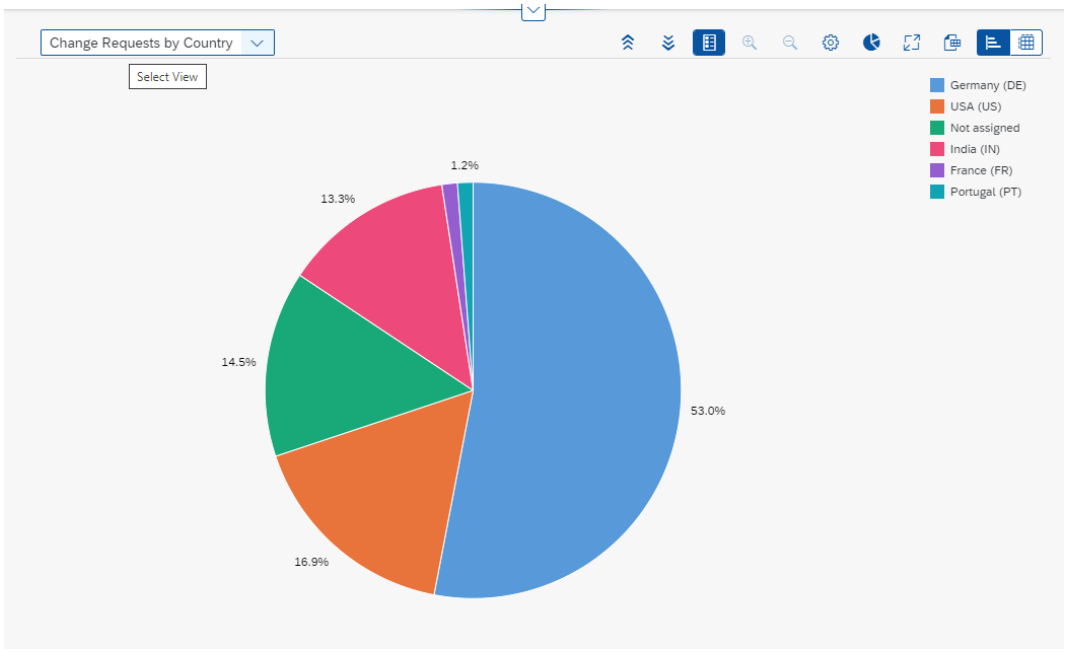
When your end user opens the Fiori launchpad, this analytics app should appear. In this app, he or she can use master data attributes from your configuration to drill down to work items for the change request step and change request-related attribute filters like Change Request Status or Change Request Type. He or she can also navigate to a single change request if he or she wants to look at more details about it.





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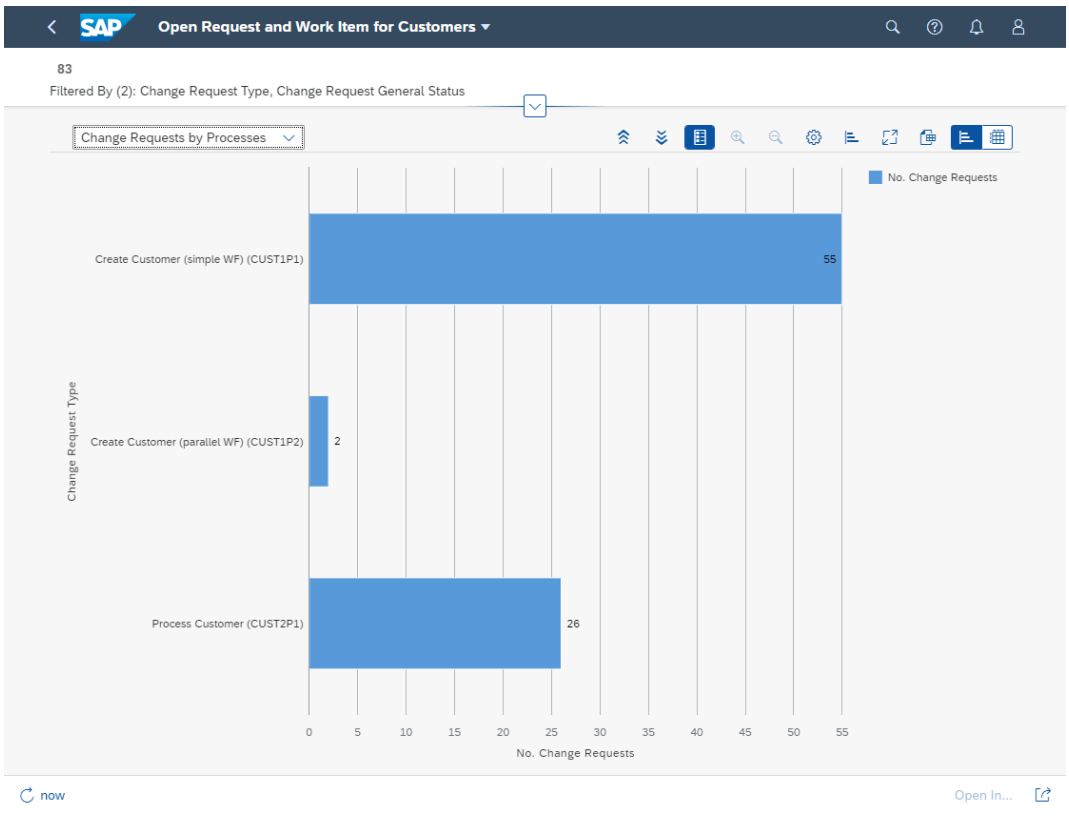

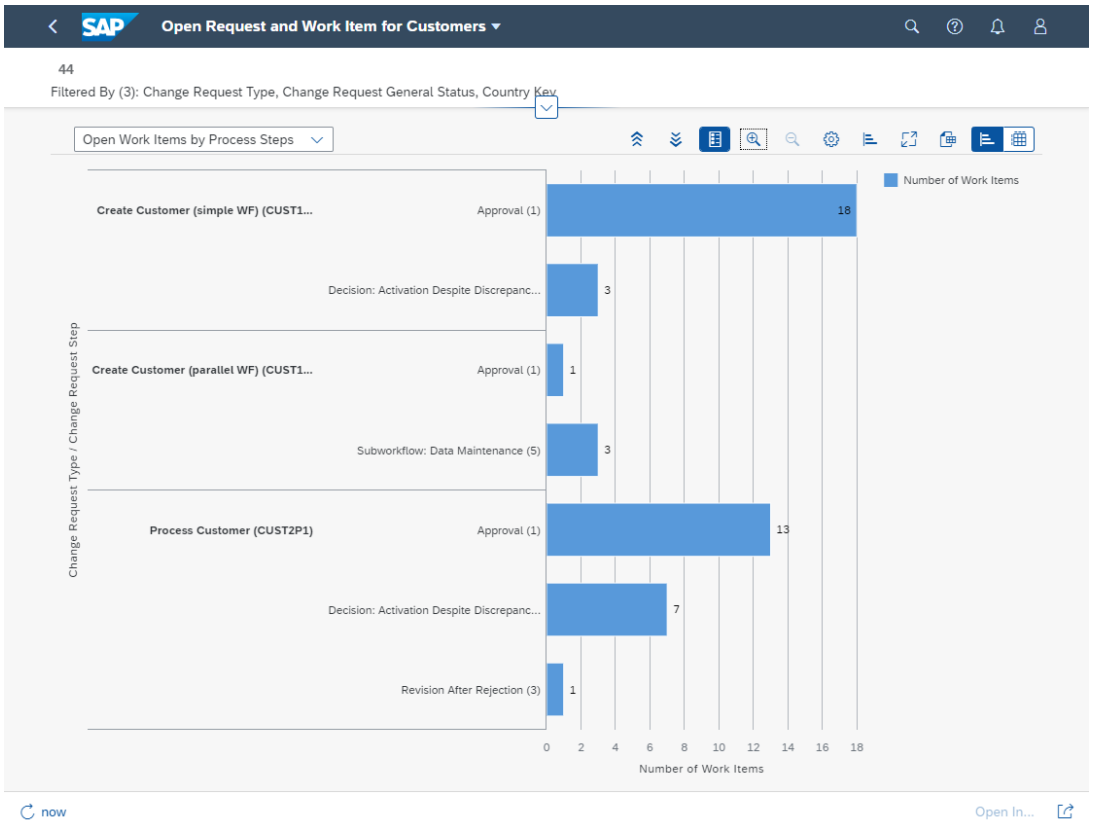

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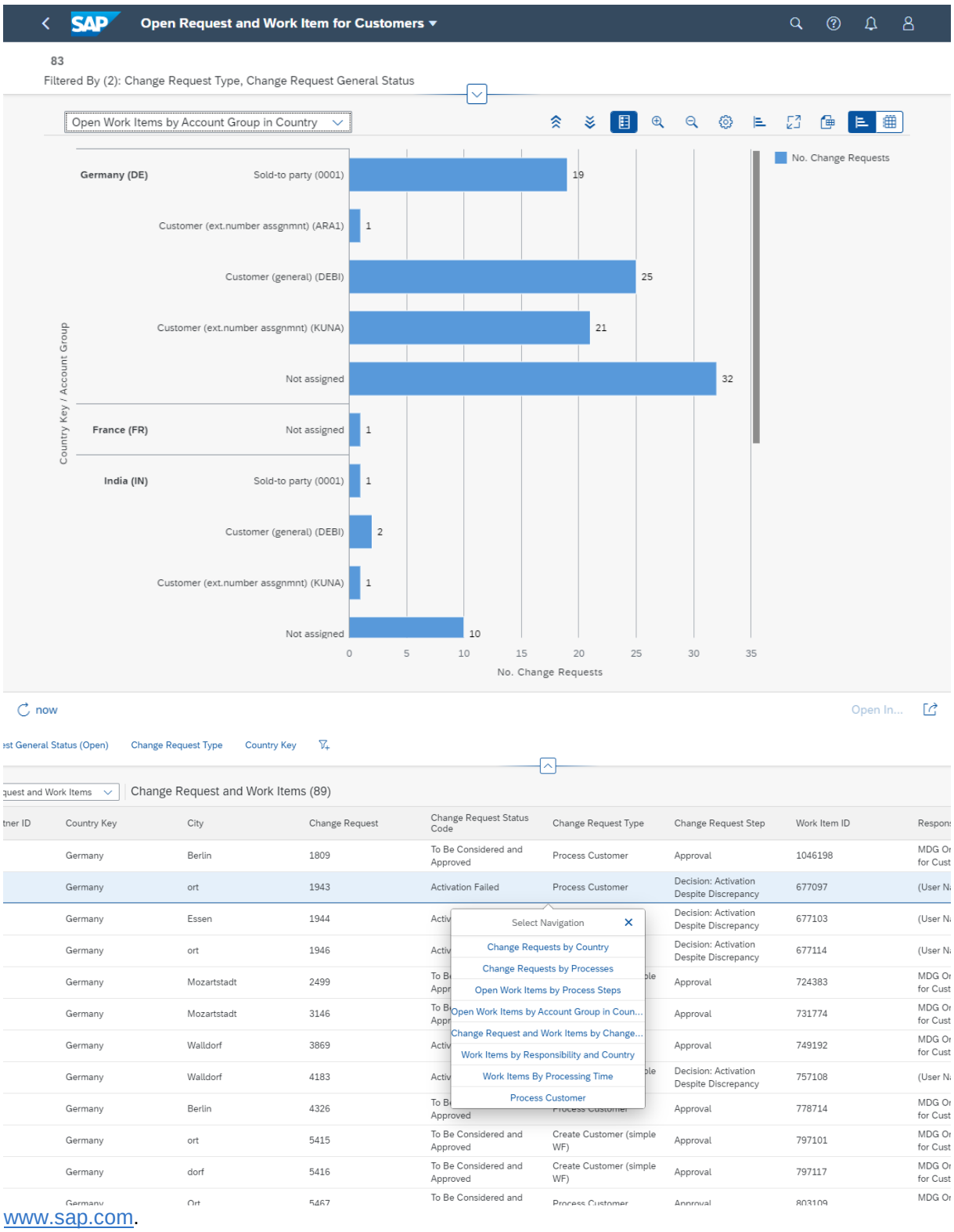

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4 Additional Information

4.1 Further Reading

4.1.1 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
- Try SAP Master Data Governance on S/4HANA on the SAP Cloud Appliance Library: S/4HANA 2022 FPS1
- Learn more: Latest Release | Help Portal | How-to Information | Key Presentations

4.1.2 SAP Roadmap Explorer

- Please see the roadmap for SAP Master Data Governance

4.1.3 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

4.2 SAP Notes

In addition to the detailed explanations written in this document, please see the following SAP Notes for further important information.

Note	Description
2950412	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2020
3066855	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2021
3225098	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2022
3381795	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2022

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