Applies to

Master Data Governance for Financials (MDG-F) when running on SAP ECC 6.0 EHP5 and newer.

For more information, visit the Master Data Management homepage (https://go.sap.com/community/topic/master-data-governance.html).

Summary

SAP Master Data Governance provides out-of-the-box solutions for the central management of master data objects. Domain-specific solutions include business partner (MDG-BP), customer (MDG-C), supplier (MDG-S), material (MDG-M), and financials governance (MDG-F).

This document shows you how to create parallel approval workflow steps using a rule-based workflow when the parallel number is determined dynamically.

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Business Scenario

SAP Master Data Governance (MDG) is used in master data management (MDM), that is, the centralized, out-of-the-box, domain-specific creation, modification, and distribution of master data with a focus on SAP Business Suite.

Domain-specific content (data models, user interfaces, workflows) is provided as part of the standard delivery for several application areas. It is a common requirement from customers to adapt the MDG data models to their specific needs.

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

MDG-F uses the standard workflow templates WS75700027 and WS75700040 as default templates. For other options when using the rule-based workflow, this document provides you with an example of the account approval process using the decision tables of the rule-based workflow, and all relevant customizing and implementation details.

Special Scenario

Generally, when the end user requests a new account, company code data is required, and you can apply several company codes, depending on business requirements. For this, a workflow step is needed to approve all company codes. The workflow continues only when all the company code owners have given their approval.

This document also addresses the parallel approval requirements for G/L account company codes with the dynamic determination of parallel branches.
Implementation

Prerequisite: You are familiar with the MDG framework and BAdI implementation.

1. MDG Customizing

1.1. Create New Change Request Type
1.2. Define Workflow Step

1.3. Define Service Names
2. Configure Rule-Based workflow

2.1. Single Value Decision Table

2.2. Non-User Decision Table
3. **BAdI Implementation**

3.1. **BAdI Definition USMD_SSW_RULE_CONTEXT_PREPARE**

Define the filter using the service name defined in Customizing.

Leave the implementation of the interface method `IF_USMD_SSW_SYS_METHOD_CALLER~CALL_SYSTEM_METHOD` empty.
3.2. BAII Definition USMD_SSW_DYNAMIC_AGENT_SELECT

Define the filter using the service name defined in Customizing.

Enter method `IF_USMD_SSW_DYNAMIC_AG'T_SELECT~GET_DYNAMIC_AGENTS`. 
Enable Dynamic Parallel Approval for Company Code Data in Rule-based Workflow

The method reads all company codes of the account that are requested by the current change request, and then reads the relevant approver and sets it to the exporting parameter CT_USER_AGENT_GROUP of method IF_USMD_SSW_DYNAMIC_AGT_SELECT~GET_DYNAMIC_AGENTS.

To implement this method, perform the following steps:

1. Retrieve the object list of change request IV_CR_NUMBER by calling the data model method or reading the USMD1213 table.
2. Normally a customer table stores the approvers for company codes. You can find all relevant approvers (by user or organizational unit) using the object list of company codes. Or you have other logic to find the relevant approvers which is not scope of this document.
3. Each entry in CT_USER_AGENT_GROUP represents one branch of parallel approval steps. Enter STEP_TYPE as value 2. AGENT_GROUP should be unique for all entries.

```plaintext
IF_USMD_SSW_DYNAMIC_AGT_SELECT~GET_DYNAMIC_AGENTS

CLEAR: la_user_agent group = '20'.
la_user_agent_group_STEP_TYPE = '2'.
la_user_agent-user_type = '9'.
la_user_agent-user_value = 'PORTION1'.
APPEND la_user_agent GROUP TO ct_user_agent_group.

CLEAR: la_user_agent_group.
lau_user_agent-group = '20'.
lau_user_agent_group_STEP_TYPE = '2'.
lau_user_agent-user_type = '09'.
lau_user_agent-user_value = 'OREGROUP1'.
APPEND la_user_agent GROUP TO ct_user_agent_group.

CLEAR: la_user_agent group.
lau_user_agent-group = '30'.
lau_user_agent-group STEP_TYPE = '2'.
lau_user_agent-user_type = '10'.
lau_user_agent-user_value = 'GROUNDF'.
APPEND la_user_agent GROUP TO ct_user_agent_group.

CLEAR: la_user_agent group.
lau_user_agent-group = '50'.
lau_user_agent-group STEP_TYPE = '2'.
lau_user_agent-user_type = '09'.
lau_user_agent-user_value = 'USER1'.
APPEND la_user_agent GROUP TO ct_user_agent_group.

CT_NEW STEP = '90'.
ENDMETOD.
```
a. In case there is only one company code or only one branch is generated, in order to make the decision table easy, it’s recommended to use second branch using dummy system call, like this:

```
clear is_non_user_agent_group.
is_non_user_agent_group_agent_group = '20'.
is_non_user_agent_group_process_pattern = '02'.
is_non_user_agent_group_service_name = '7ACCOUNT.SysCall'.
"append is_user_agent to is_user_agent_group-USER_AGENT.
APPEND is_non_user_agent_group TO cr_non_user_agent_group.
```

4. Set the return step as **CV_NEW_STEP**.
4. Testing

As of MDG 7.0, MDG-F provides a new UI for both G/L accounts, as we will explore in the example below. Note that the UIs delivered as of EHP5 are also valid for the rule-based workflow.

Create a new G/L account:
Enable Dynamic Parallel Approval for Company Code Data in Rule-based Workflow

Workflow log after submission:

Open a work item:
Afterwards, all parallel work items are approved:
Additional Information

Links

FPM on SCN

MDG Guides on Service Market Place

How-to Guides

Extensibility Options for SAP Master Data Governance ➔ Financial Data

- MDG-F Overview

SAP Notes

- 1637249 specifying required information for OSS support
- 2105467 specifying required information for Performance Issues

Version History

- 1.2 – Updated new SAP Community links
- 1.1 – Updated broken links and search help information
- 1.0 – First release of the document
Enable Dynamic Parallel Approval for Company Code Data in Rule-based Workflow

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