Report to reprocess failed Classification and Maintenance Plan IDOCs

Purpose

If MDG and target systems have different number ranges, objects gets created with different IDs in MDG and target systems. Especially in case of Maintenance Plan and Classification IDOCs –

Maintenance Plan: Maintenance Item with plan is always created with an internal number. So, during replication if key mapping is missing for at least one maintenance item then Maintenance Plan IDOC is set to status 29.

Classification: EAM Master IDOC and Classification IDOCs are triggered separately during replication. Classification IDOC holds object key from source system and not aware of the key created in replication system. Hence Classification IDOC may fail or get assigned to a different object. To avoid the discrepancy Key mapping is checked before triggering classification IDOC. If key mapping is not found then Classification IDOC status is set to 29.

In order to reprocess the failed IDOCs (with status 29), a report has been created in UGI namespace for below purpose -

- Reprocessing of Classification IDOCs for Equipment, Functional Location and Measuring Point
- Reprocessing of Maintenance Plan IDOC for Maintenance Plan & Item.

Usage

Classification IDOC for Measuring Point, Equipment and Functional Location.

During replication of classification IDOC, DRF class first checks key mapping for selected object (Measuring Point/ Equipment/Functional Location). If key mapping is found then both IDOCs, one for selected object and one for Classification are triggered to target system. If key mapping is not found then only one IDOC for selected object is triggered and Classification IDOC is explicitly failed by setting status to 29.

Maintenance plan and item

During replication of Maintenance Plan, key mapping is checked for all the items associated with the plan. If Key Mapping is found for all the items then Maintenance plan IDOC is triggered to target system. In case if key mapping is missing for atleast one Maintenance Item then Maintenance Plan IDOC status is set to 29 and separate IDOC is triggered for each Maintenance Item.

Reprocessing of failed IDOCs

In order to reprocess failed IDOCs (with status 29) custom transaction /UGI/IDOC_REP has been created. This report reprocesses failed IDOCs (with status 29) and checks Key Mapping. If key mapping is found then IDOC will be reprocessed successfully else it will remain with same status i.e. 29.

Technical Details

TCODE: /UGI/IDOC_REP

Report name: /UGI/EAM_IDOC_REP

BADI name: IDOC_DATA_MAPPER

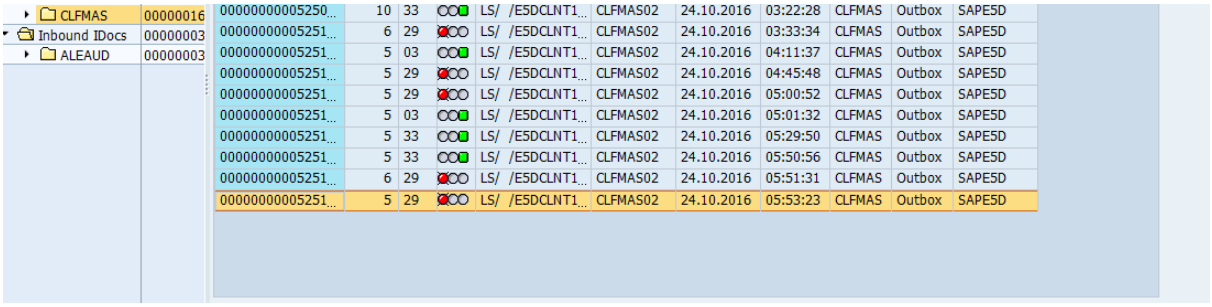
BADI implementation: /UGI/EAM_IDOC_MAPPER

Example – 1: For classification.

Steps for reprocessing failed Classification IDOC for Measuring point, Equipment and Functional Location.

Step-1: In MDG system

Once the object is replicated with classification, if key mapping is not found, Classification IDOC is set to status 29. Can find the failed idocs with 29 status using WE02 in sender system.

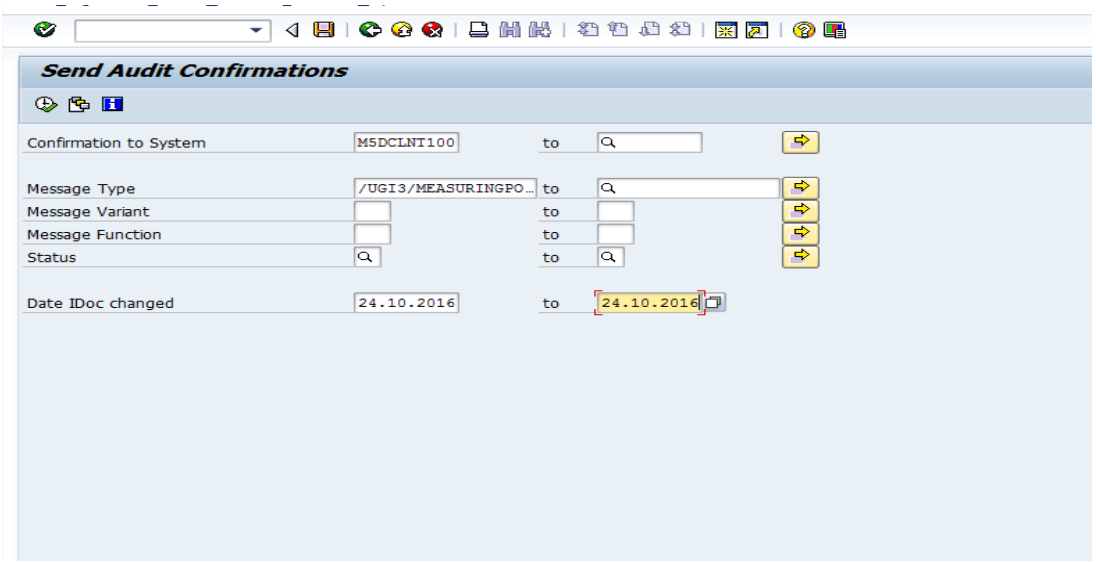


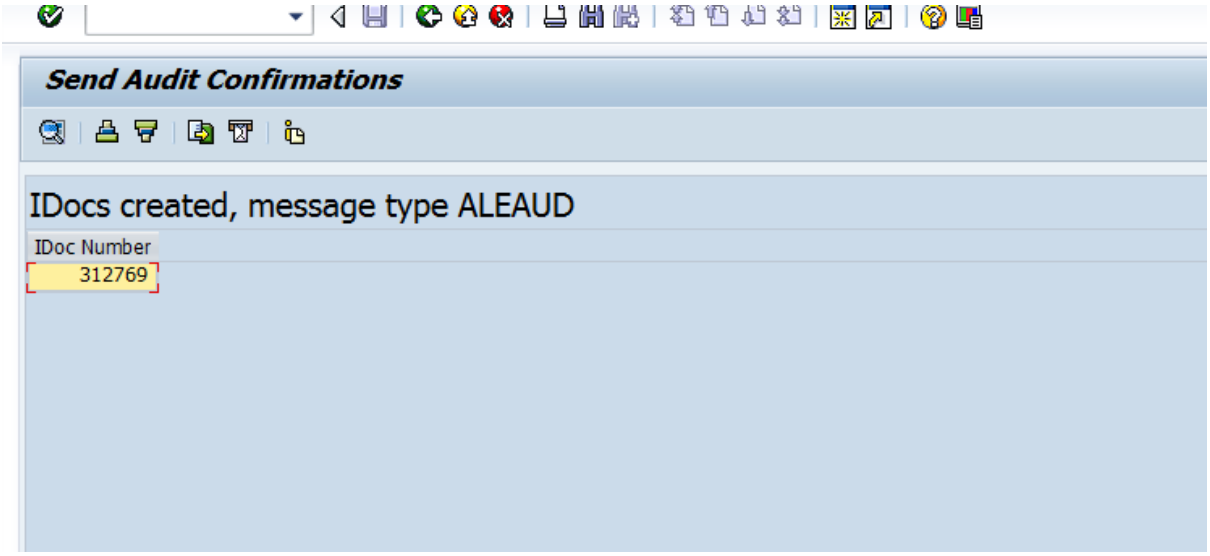
CLFMAS	00000016	00000000005250...	10	33	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	03:22:28	CLFMAS	Outbox	SAPE5D
Inbound IDocs	00000003	00000000005251...	6	29	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	03:33:34	CLFMAS	Outbox	SAPE5D
ALEAUD	00000003	00000000005251...	5	03	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	04:11:37	CLFMAS	Outbox	SAPE5D
		00000000005251...	5	29	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	04:45:48	CLFMAS	Outbox	SAPE5D
		00000000005251...	5	29	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	05:00:52	CLFMAS	Outbox	SAPE5D
		00000000005251...	5	03	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	05:01:32	CLFMAS	Outbox	SAPE5D
		00000000005251...	5	33	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	05:29:50	CLFMAS	Outbox	SAPE5D
		00000000005251...	5	33	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	05:50:56	CLFMAS	Outbox	SAPE5D
		00000000005251...	6	29	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	05:51:31	CLFMAS	Outbox	SAPE5D
		00000000005251...	5	29	LS/ /E5DCLNT1...	CLFMAS02	24.10.2016	05:53:23	CLFMAS	Outbox	SAPE5D

Step-2: In replication system

Go to SE38 transaction run the program RBDSTATE in target system.

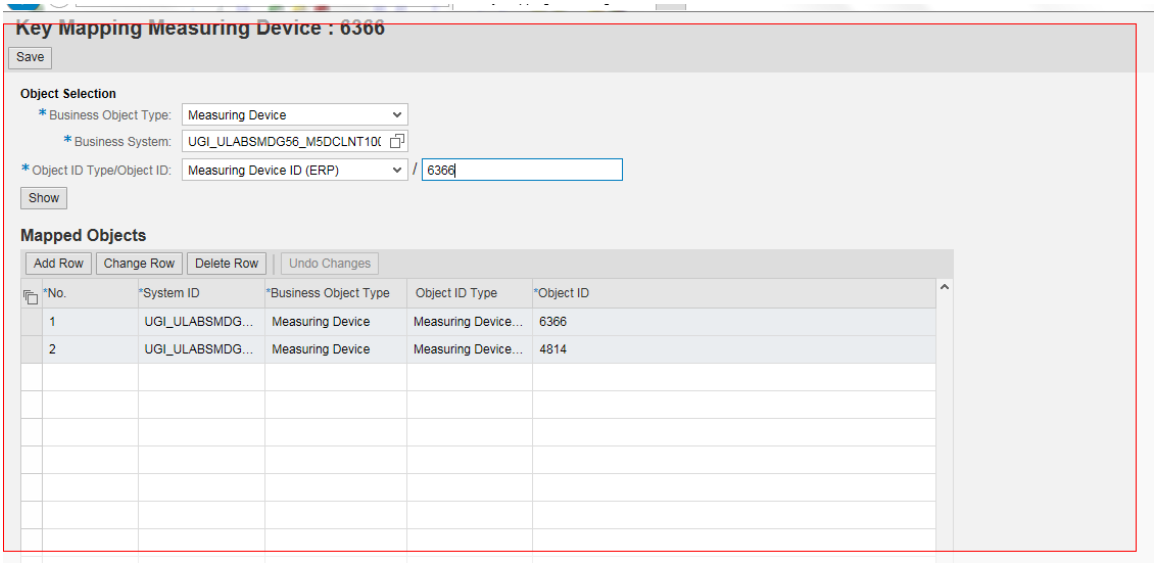
Provide confirmation system id (sender system id) and message type of appropriate masters and date range and execute the program.





Step 3: In MDG system

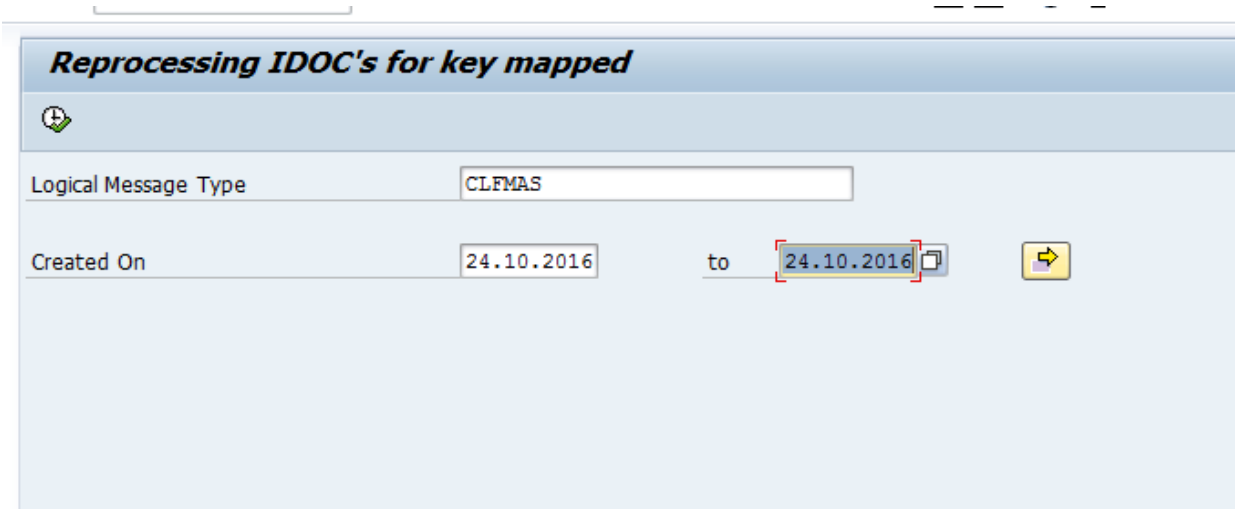
once ALE Audit IDOC is processed, we can see Key Mapped created using the transaction MDG_KM_MAINTAIN



Step 4: In MDG system

Execute the TCODE-/UGI/IDOC_REP.

Provide message type of appropriate masters and date range and execute the program then classification IDOC will go to the target system successfully.

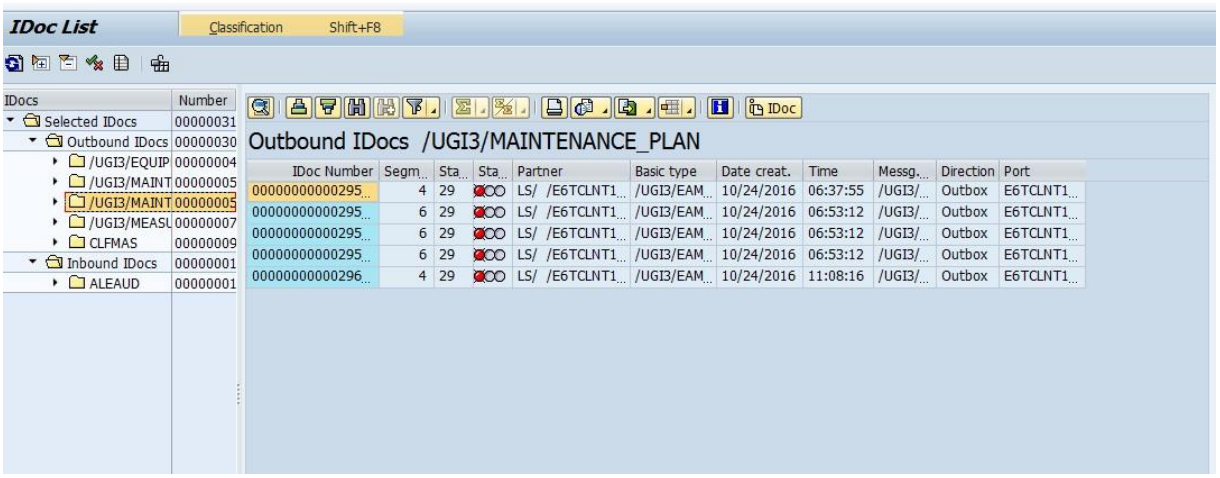


Example-2: For Maintenance Plan

Steps for reprocessing failed Maintenance Plan IDOCs.

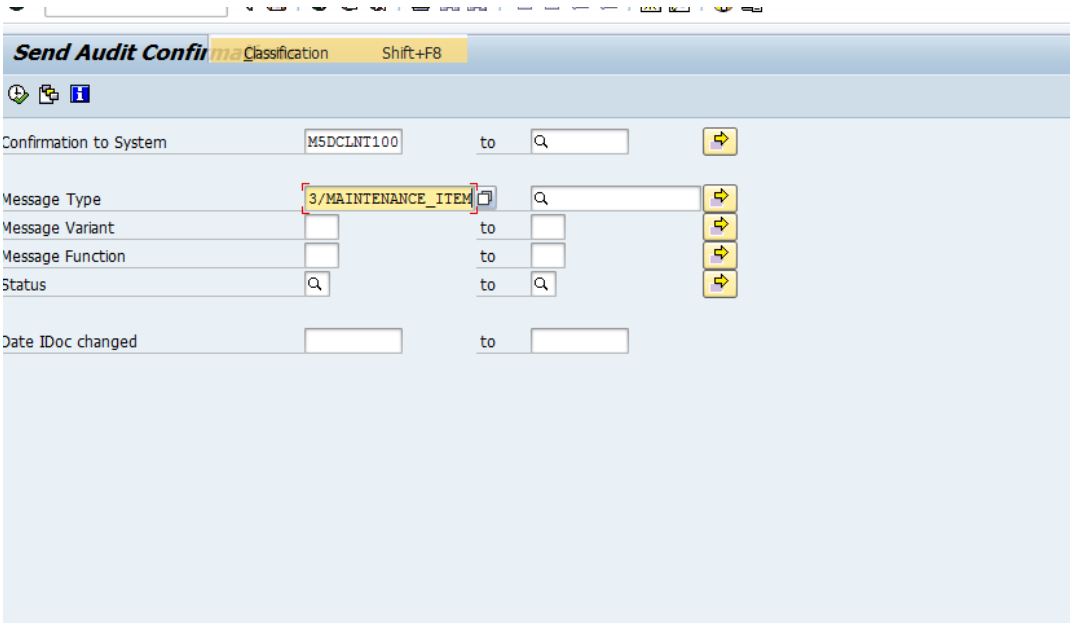
Step 1: In MDG system

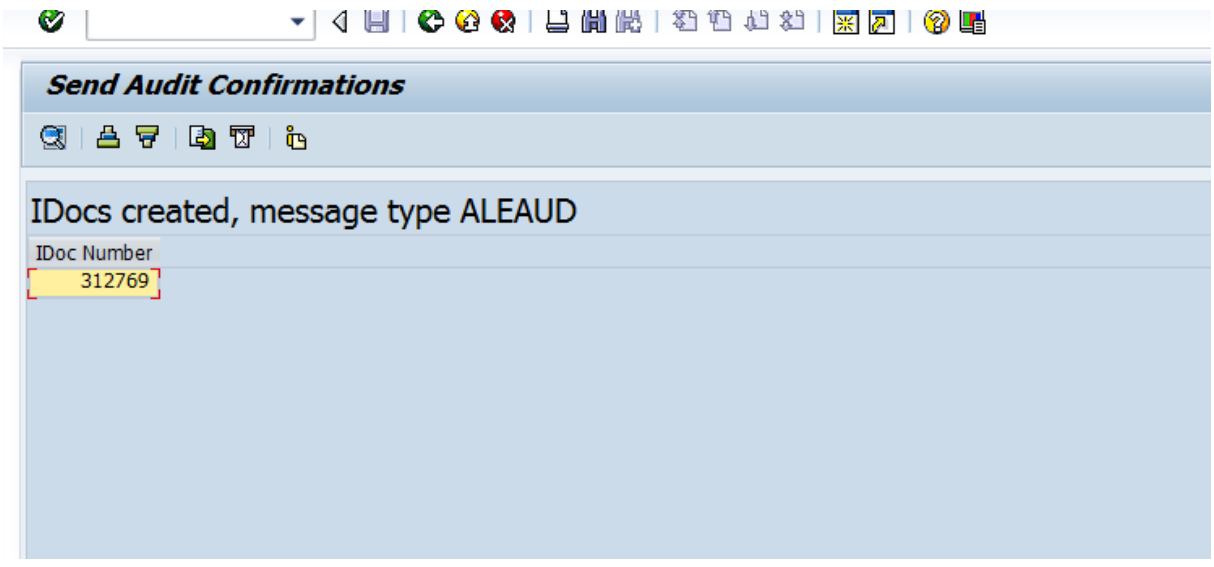
once the Maintenance Plan is replicated, if key mapping is not found for at least one Maintenance Item, Maintenance Plan IDOC is set to status 29. Can find the failed IDOCs with 29 status using WE02 in sender system.



Step 2: In replication system

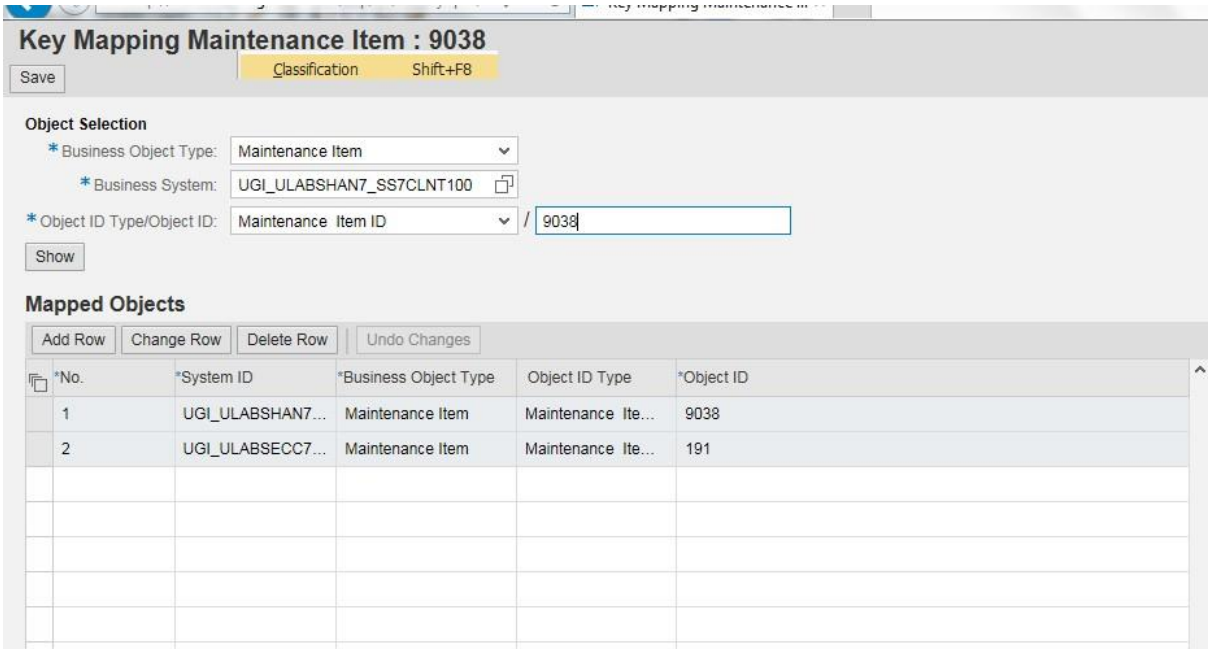
Run RBDSTATE report in replication system to send ALE AUDIT to source system.





Step 4: In MDG system

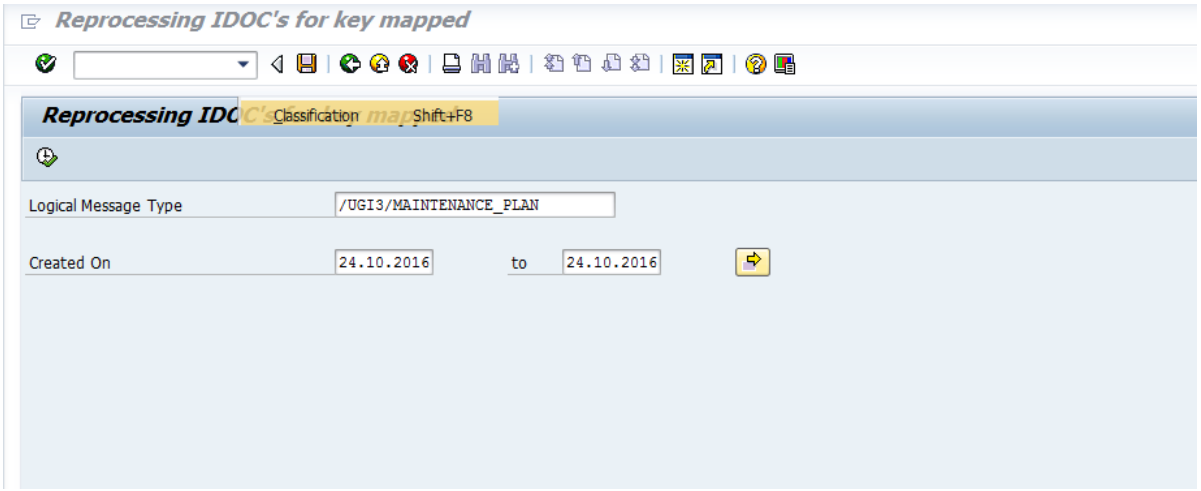
Once ALE AUDIT is processed successfully, we can see Key Mapping maintained for Maintenance Items using the transaction MDG_KM_MAINTAIN.



Step 6: In MDG system

To reprocess failed Maintenance Plan IDOCs execute the TCODE-/UGI/IDOC_REP.

Provide /UGI3/MAINTENANCE_PLAN as message type, Date Range and execute the program. Maintenance Plan IDOC will be replicated target system successfully.



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