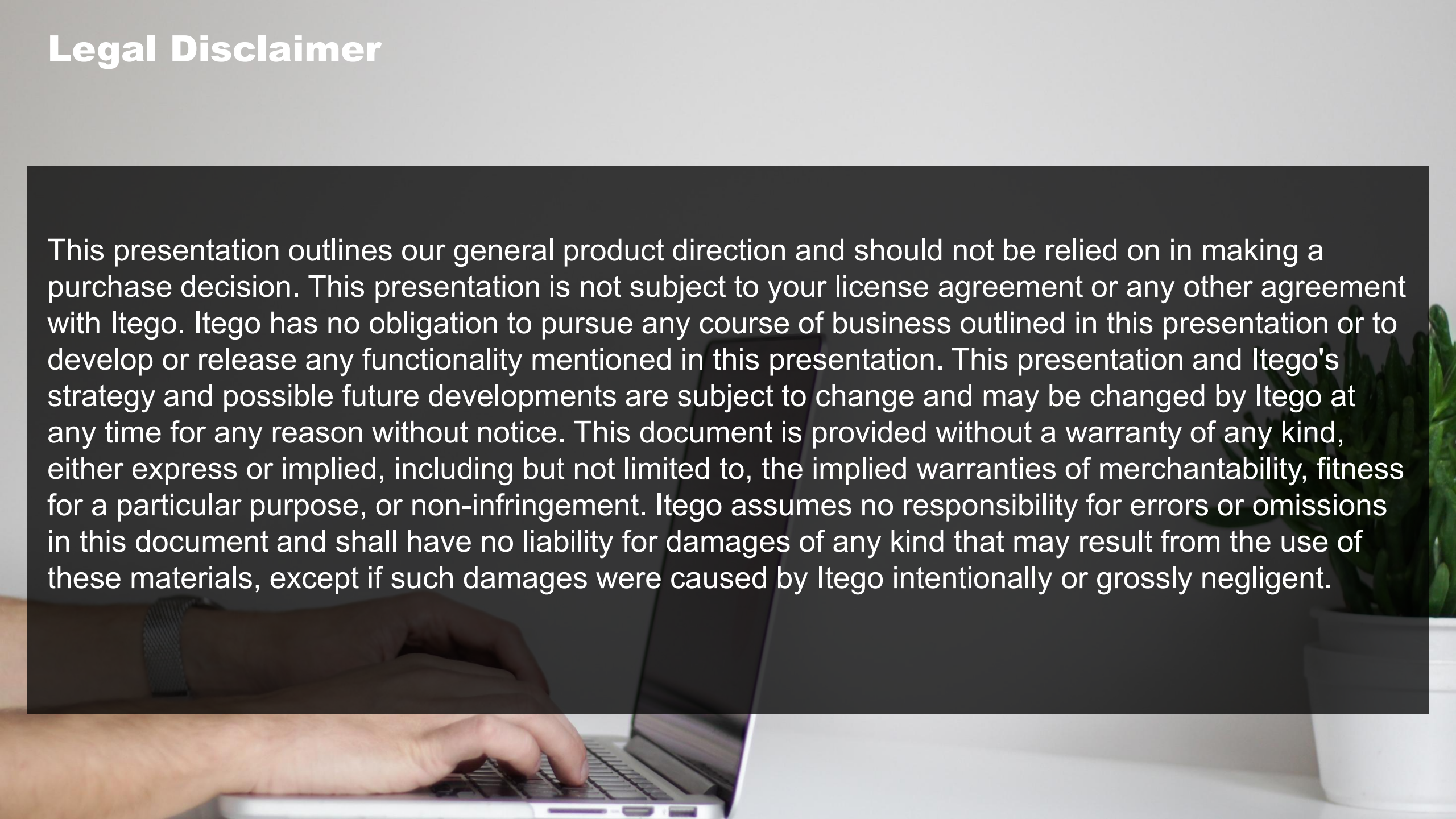
Reference Data Management (RDM) for SAP MDG

Why companies need it and how they use it

Legal Disclaimer



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WHY
companies need it

What is reference data?

Definition

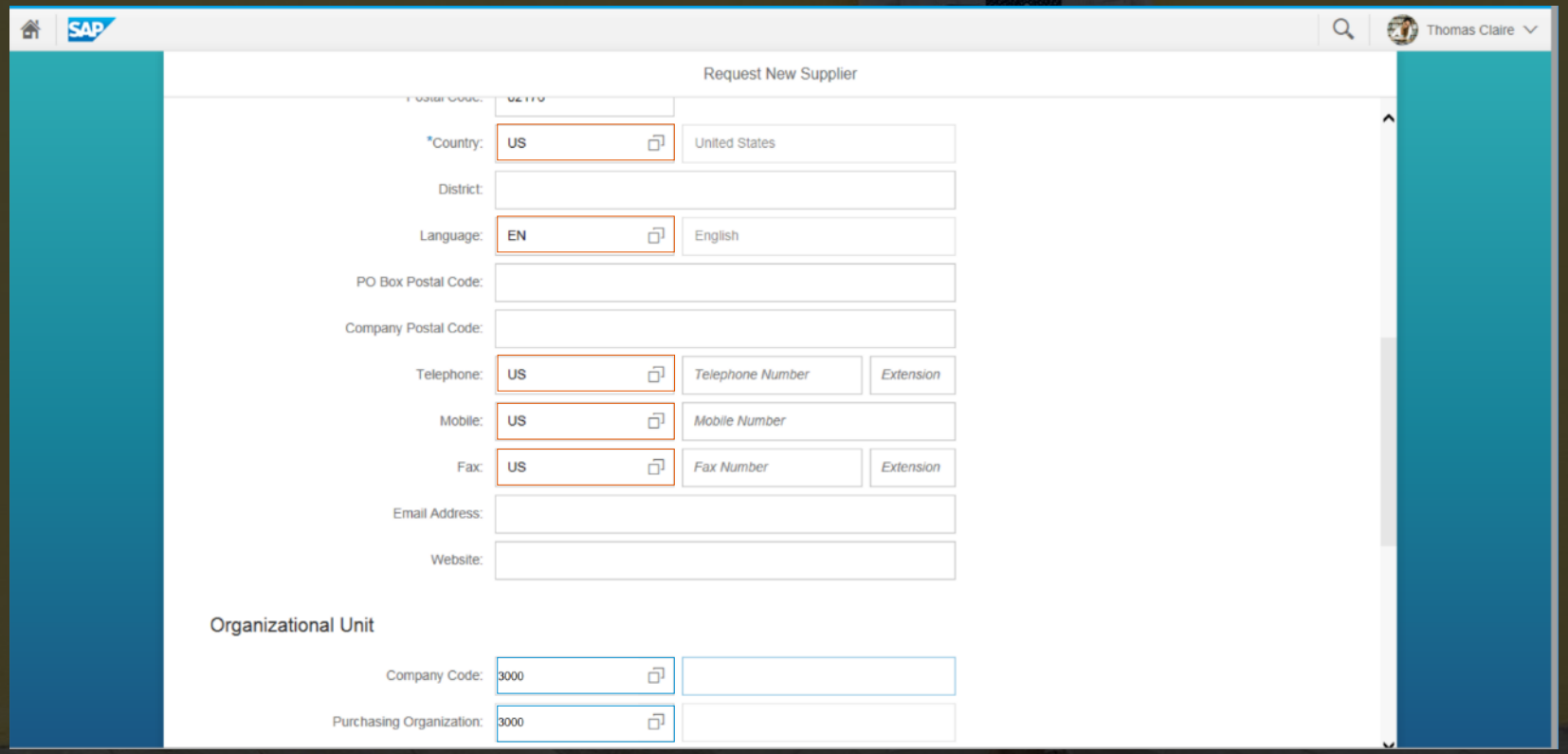
Reference data are data that define the set of permissible values to be used by other data fields (source Wikipedia)

EXTERNAL REFERENCE DATA

Defined by standards organizations, such as country code defined in ISO 3166-1

INTERNAL REFERENCE DATA

Organization specific reference data, often related to a structure (reporting, legal, accounting, etc.) within the organization



Itego Reference Data Management

What and Why? Data with High Impact

Low Frequency of change
but high impact!

FREQUENCY OF CHANGE

Examples
Country Code, Material Group, Payment Terms, Product Hierarchy, Plant

DEGREE OF SHARING

Source: SAP

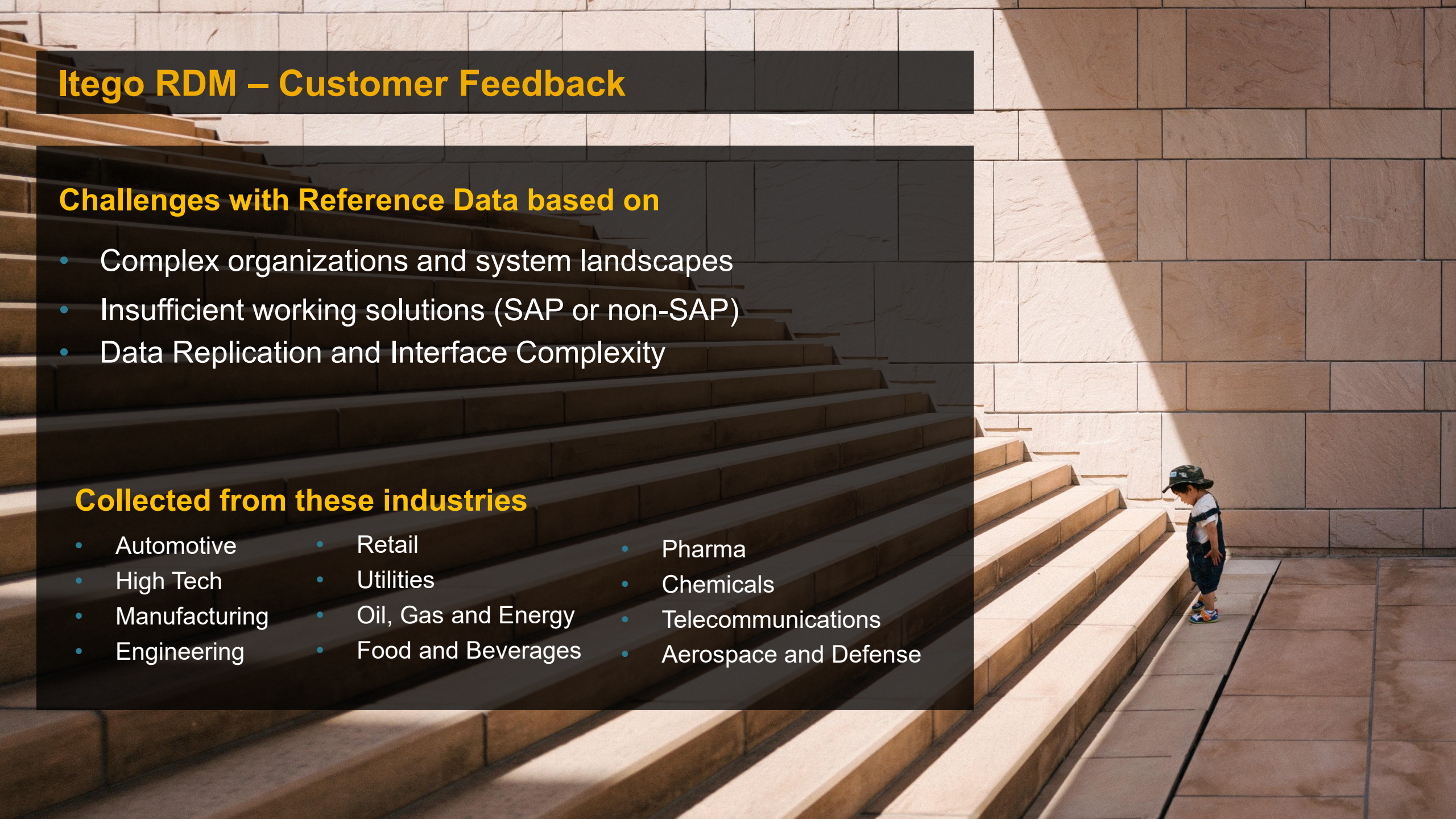
Itego RDM – Customer Feedback

Challenges with Reference Data based on

- Complex organizations and system landscapes
- Insufficient working solutions (SAP or non-SAP)
- Data Replication and Interface Complexity

Collected from these industries

- Automotive
- High Tech
- Manufacturing
- Engineering
- Retail
- Utilities
- Oil, Gas and Energy
- Food and Beverages
- Pharma
- Chemicals
- Telecommunications
- Aerospace and Defense



Itego RDM – Customer Feedback

This solution is …

- Complete: Harmonization and Governance
- Powerful: Data Model, UI, Workflow and Replication
- Solid: out of the box standard, not a toolbox

Features

- Consolidation, synchronization and flexible data replication
- Fast, simplified, and harmonized governance process

Benefits

- Reduced business risks
- Reduced project costs and duration
- Reliable but flexible business processes
- Strategic planning based on reliable reporting

HOW
companies use it

Itego Reference Data Management for SAP MDG

Deliver Data and Process Quality step by step aligned with your MDG Roadmap

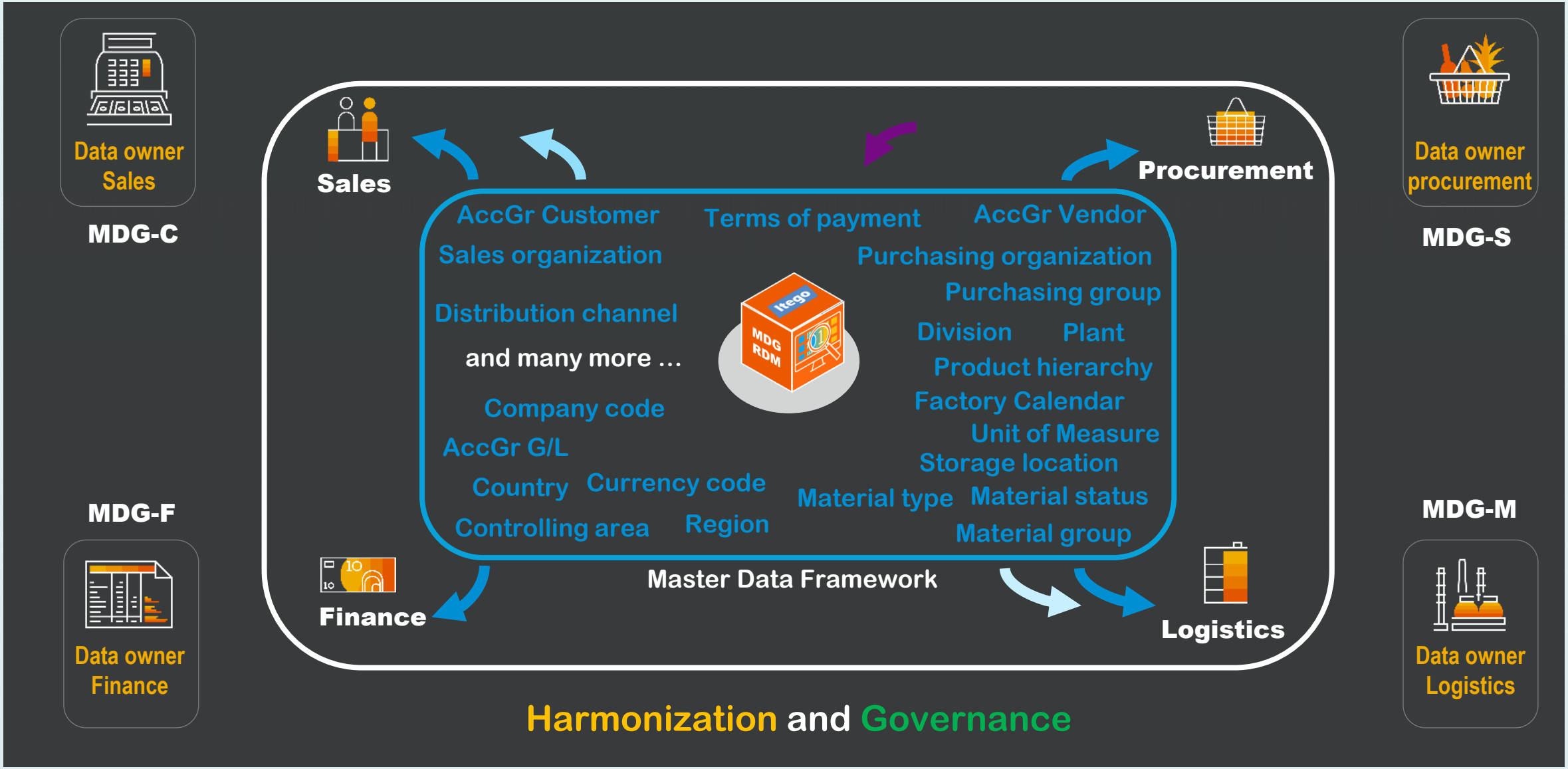
Quick Fixes / Reporting

Harmonization

Governance

Itego Reference Data Management

Creating and keeping the Single Source of Truth

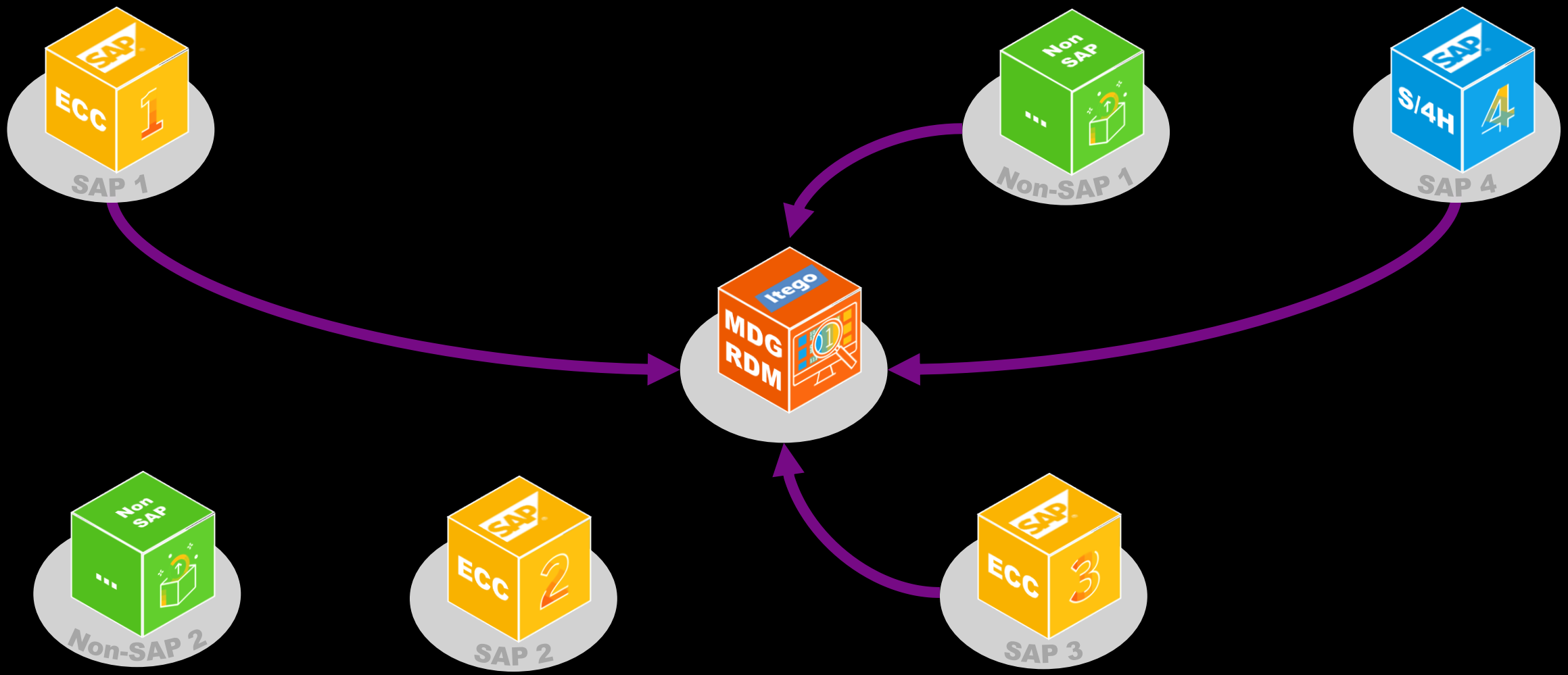


HOW

RDM Harmonization

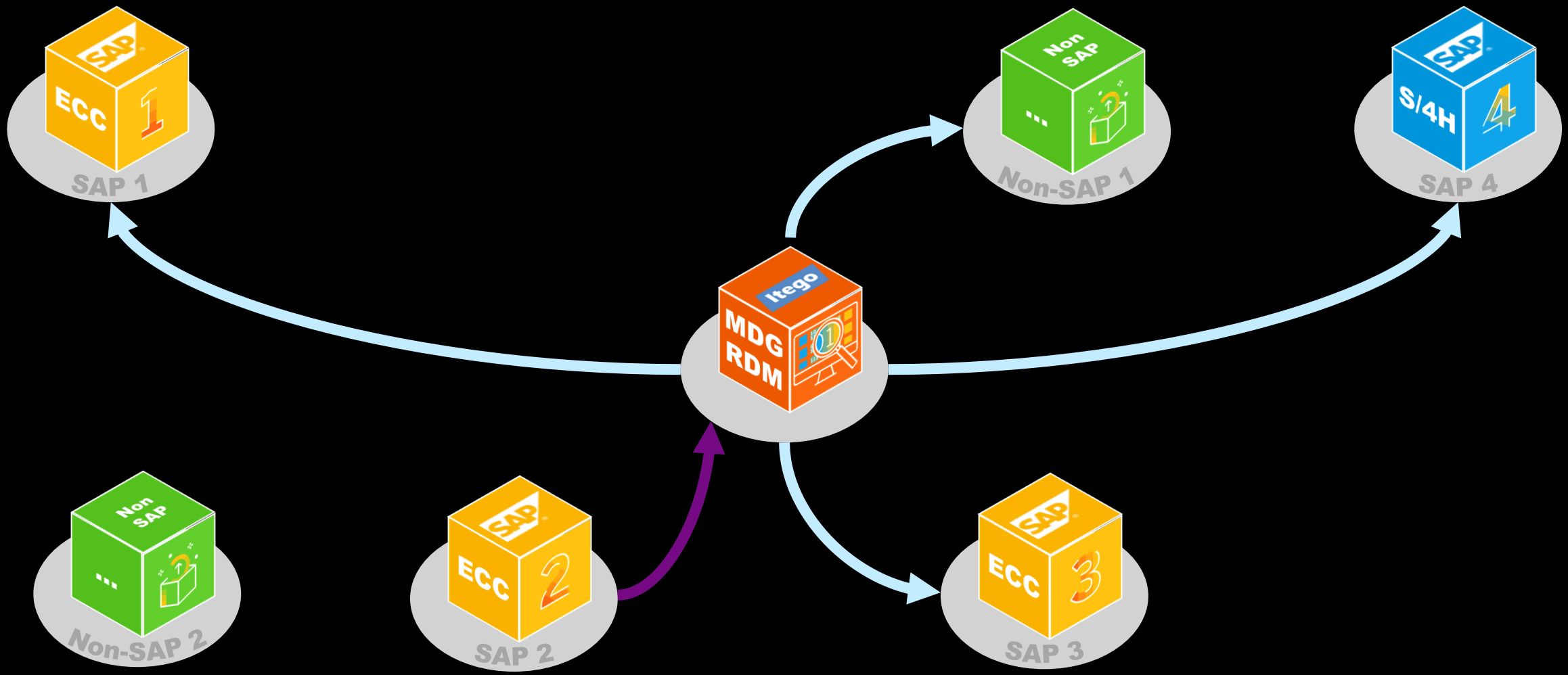
Itego Reference Data Harmonization

Step 1: Consolidation



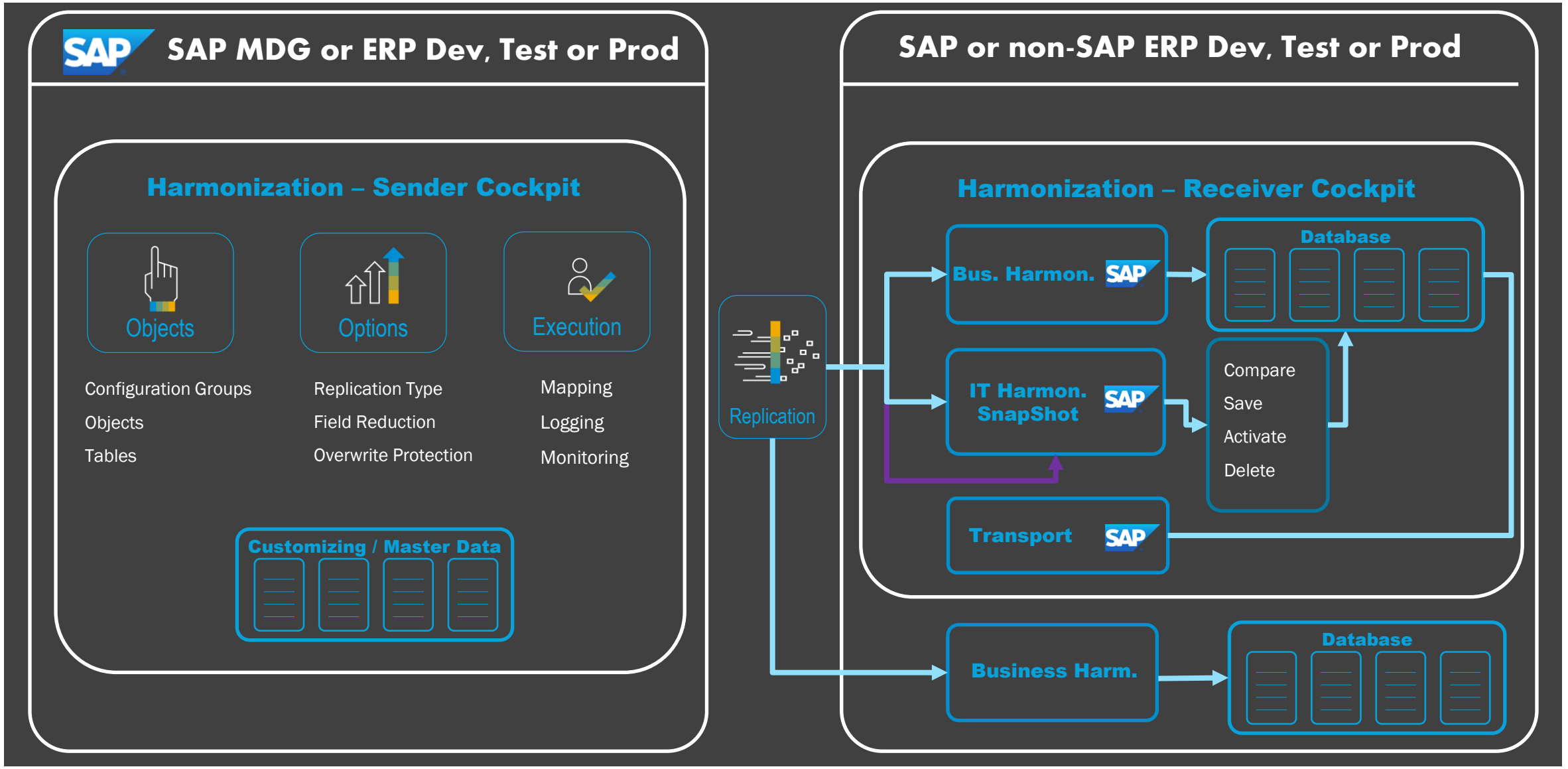
Itego Reference Data Harmonization

Step 2: Synchronization



Itego Reference Data Harmonization

Harmonization Cockpits



Itego Reference Data Harmonization

Sender Cockpit – Configuration, Sending, Monitoring

Expert Send/Receive

Groups and ForeignKeys

Configuration Groups	Foreign Keys
Business Objects	Recreate Foreign Keys

Send and Activate

Send	Monitoring
Activation	Logging

Settings

Field Reduction	Field Reduction
Overwrite Protection	

RefData Harmonization - Groups

	Configuration G...	Configuration Group Text
☐	FUNCTIONAREA	Functional Area
☑	SAP-MDGF	MDG-F Customizing Sync

RefData Harmonization - Objects

	Configuration G...	Table Name	Object key
☐	SAP-MDGF	FAGL_SEGM	100*
☐	SAP-MDGF	FAGL_SEGMT	100*
☐	SAP-MDGF	J_1AINFMET	100*
☐	SAP-MDGF	J_1AINFMTX	100*
☐	SAP-MDGF	J_1AINFSKS	100*
☐	SAP-MDGF	SKM1	100*
☐	SAP-MDGF	T001	100*
☐	SAP-MDGF	T001S	100*
☐	SAP-MDGF	T002	100*
☐	SAP-MDGF	T003	100*
☐	SAP-MDGF	T004	100*
☐	SAP-MDGF	T004F	100*
☐	SAP-MDGF	T004G	100*
☐	SAP-MDGF	T004T	100*
☐	SAP-MDGF	T004V	100*
☐	SAP-MDGF	T005	100*
☐	SAP-MDGF	T005S	100*
☐	SAP-MDGF	T006	100*

ObjectSelection

Table(s):	BNKA	to:	
View(s):		to:	
Objectgroup(s):	SAP-MDGF	to:	

ALE / WebService

MessageType:	/ITG/GENERIC
* Logical System:	IR1200
Port for WebService:	

Mode

Transfer	○ Single	○ Bundle	◉ SnapShot

Options

Scope	○ with address	◉ without address
Heterogen	○ Yes	◉ No
Logging	◉ Yes	○ No
Changes	○ Yes	◉ No
OnlineSele	○ Yes	◉ No
Test	○ Yes	◉ No
DetailList	◉ Yes	○ No

Idocs selected : 00000003

	IDoc number	Status	Status Grouping	IDoc number	Status	Partn.no.
☐	106001	03	■	88001	53	IH1400
☐	106002	03	■	39001	53	IR1200
☑	106003	03	■	39002	53	IR1200

Itego Reference Data Harmonization

Receiver Cockpit – Controlled Consolidation (Comparison, Activation, Logging)

Expert Send/Receive

Groups and ForeignKeys

Configuration Groups	Foreign Keys
Business Objects	Recreate Foreign Keys

Send and Activate

Send	Monitoring
Activation	Logging

Settings

Field Reduction	Field Reduction
Overwrite Protection	

Compare (Overview)
All differences
Save Before Activate
Set Active-Flags
Delete Active-Flags
Activate (all)
Compare Addr.

	Table Name	DB-Entries	AD-Entries	Short Description
517	TKA00	42		Control parameters for controlling areas
	TKA01	39		Controlling Areas
	TKA02	40		Controlling area assignment
952	TKA00	42		Control parameters for controlling areas
	TKA01	39		Controlling Areas
	TKA02	39		Controlling area assignment
351	TKA00	42		Control parameters for controlling areas
☑	TKA01	39		Controlling Areas
	TKA02	39		Controlling area assignment

Table	Key	Field Name	Short Description	Long Field Label	SnapShotValue	DBValue
TKA01	xxx0003	BEZEI	Name of the controlling area	Name	SAP US (is-ht-sw)	SAP US (demo)
		VNAME	Person Responsible for the Controlling Area	Person Responsible		IT_ALL_01

	Table Name	DB-Entries	Short Description	DB-Only	Ind_Only	Diff	Ident
	TKA00	42	Control parameters for controlling areas				42
☑	TKA01	39	Controlling Areas			1	38

Copy Text
Details
Optimize Width
Unfreeze Columns
Spreadsheet...
Delete
Compare
Compare (Overview)
All differences

Copy Text
Details
Optimize Width
Unfreeze Columns
Spreadsheet...
Activate

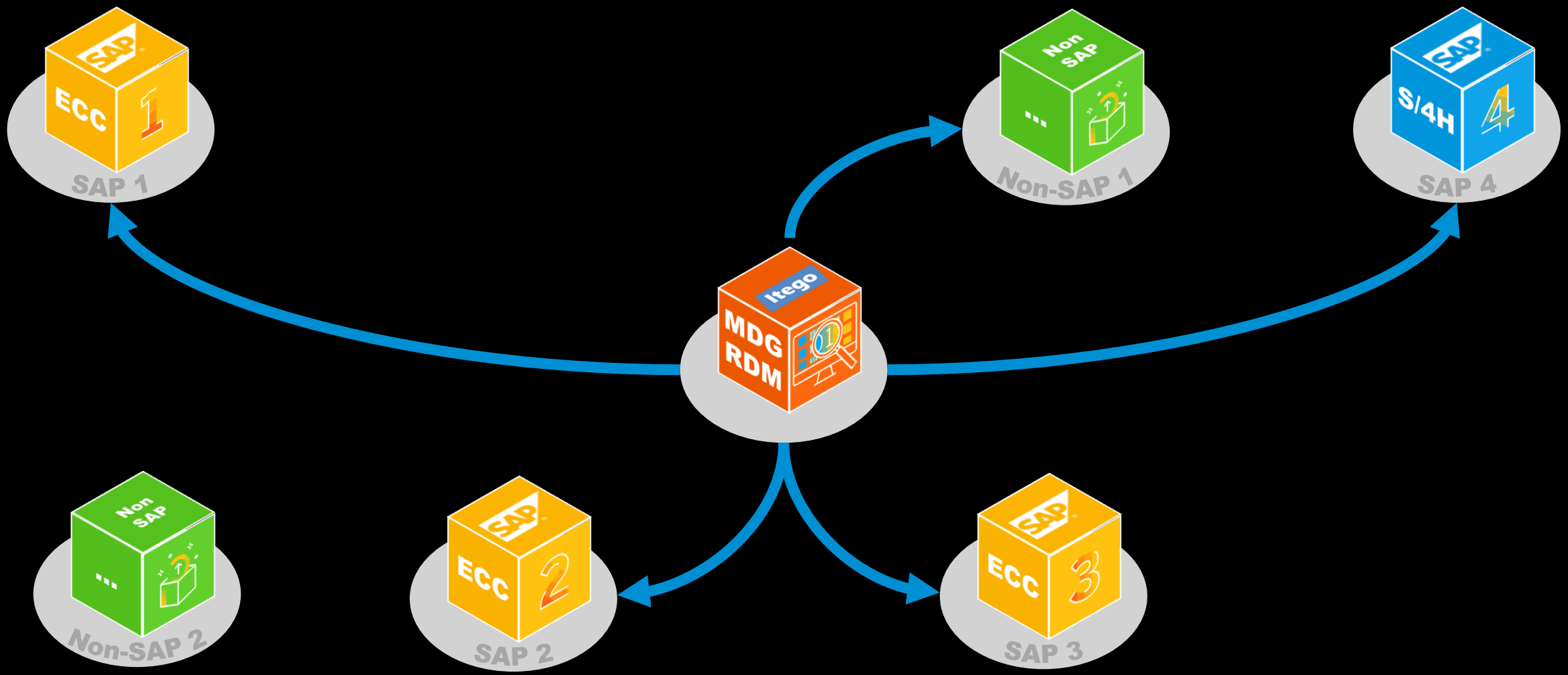
	CO Area	Name	Crcy	Chart of Accts	FV
☑	0003	SAP US (is-ht-sw)	USD	INT	K4

HOW

RDM Governance

Itego Reference Data Governance

Workflow Driven Maintenance



Itego Reference Data Governance

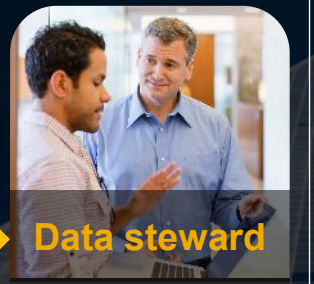
Processes for all Objects

CREATE

The data steward creates the data

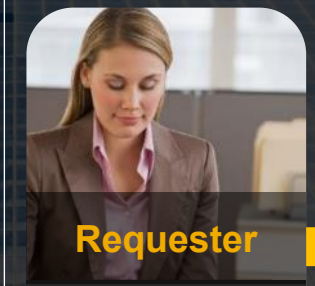
REQUEST & APPROVE

The data specialist requests and completes the data



The request is approved or rejected

REQUEST, PROCESS & APPROVE

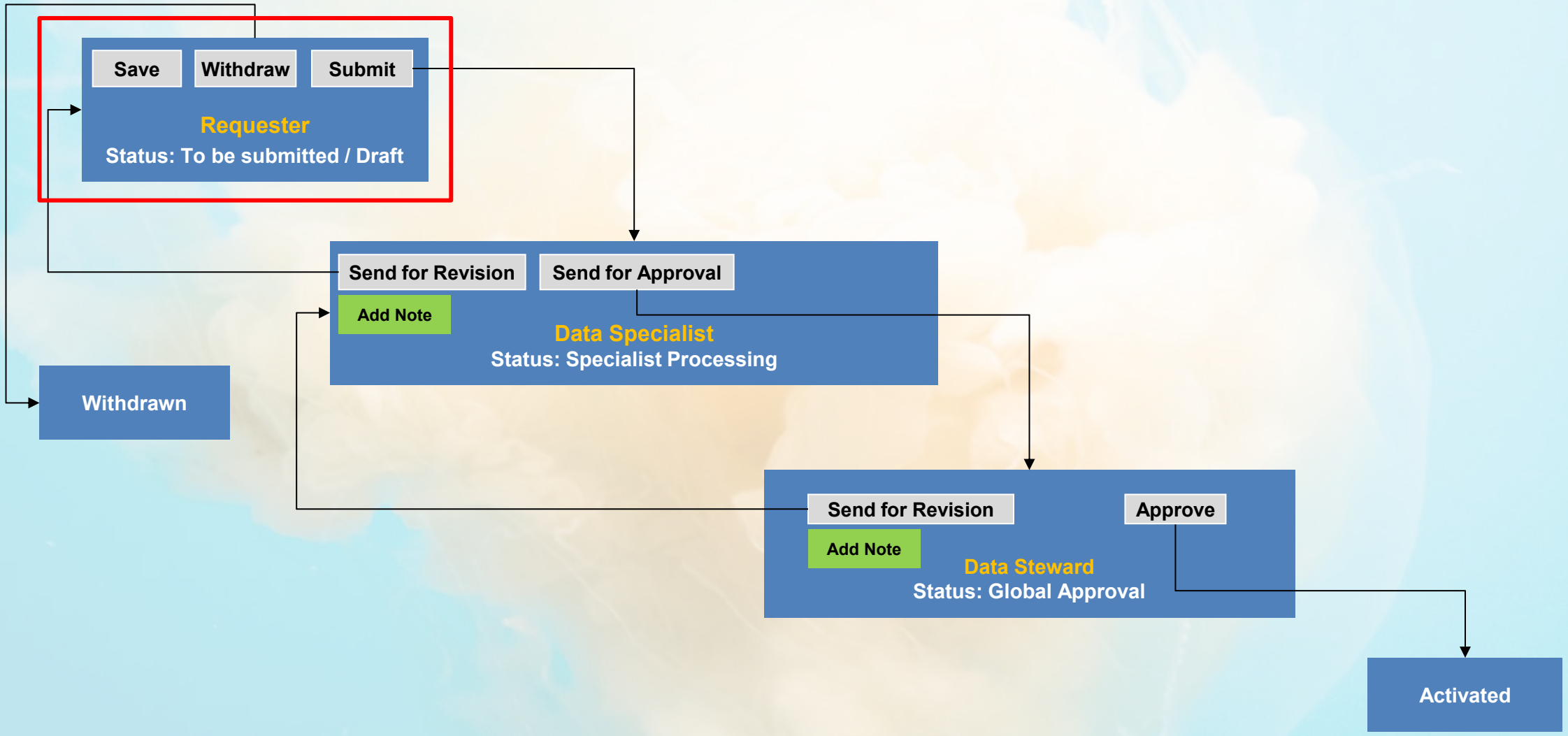


A request for a change in the reference data is made

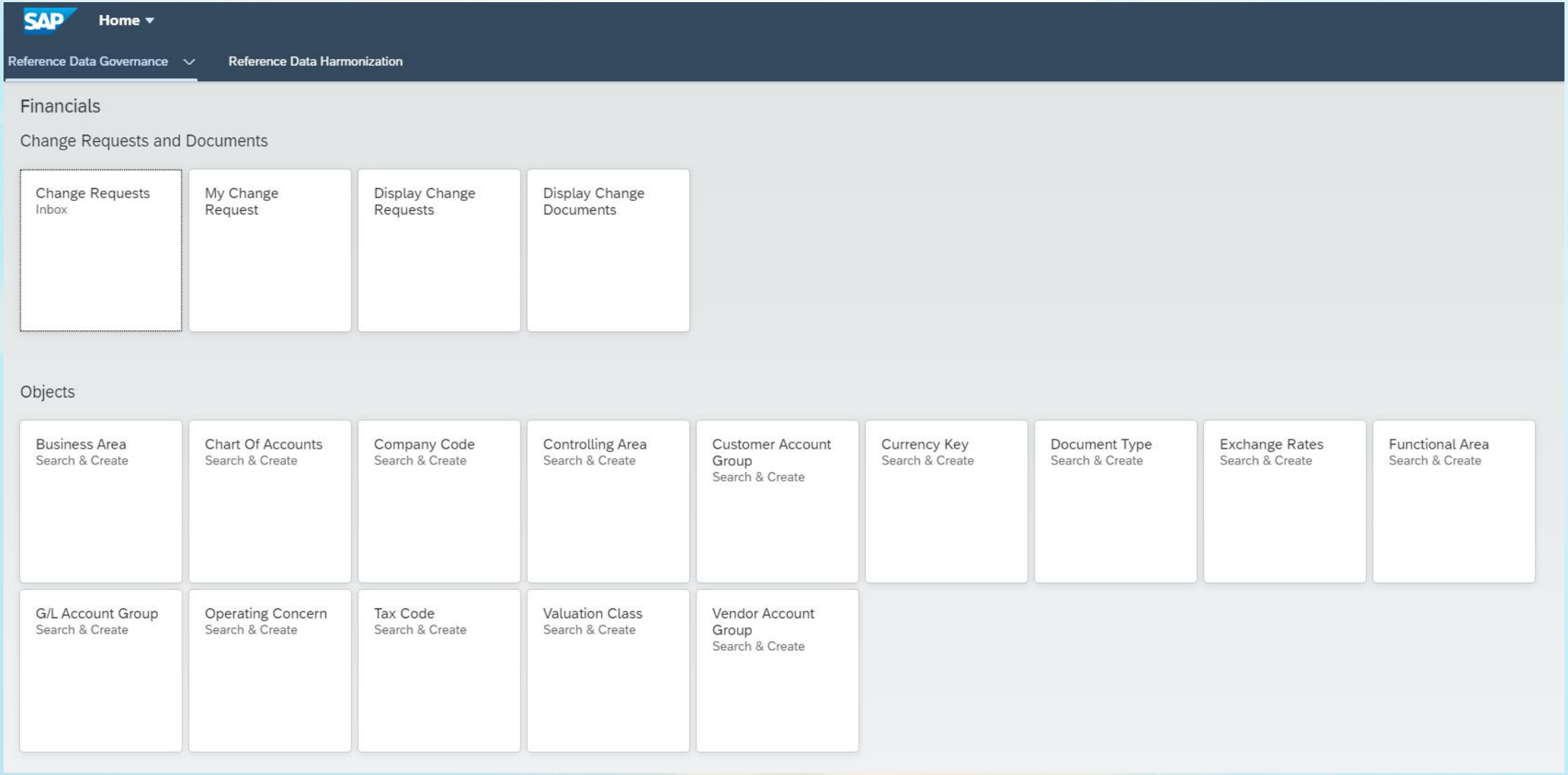
The data specialist enriches the data setup

The request is approved or rejected

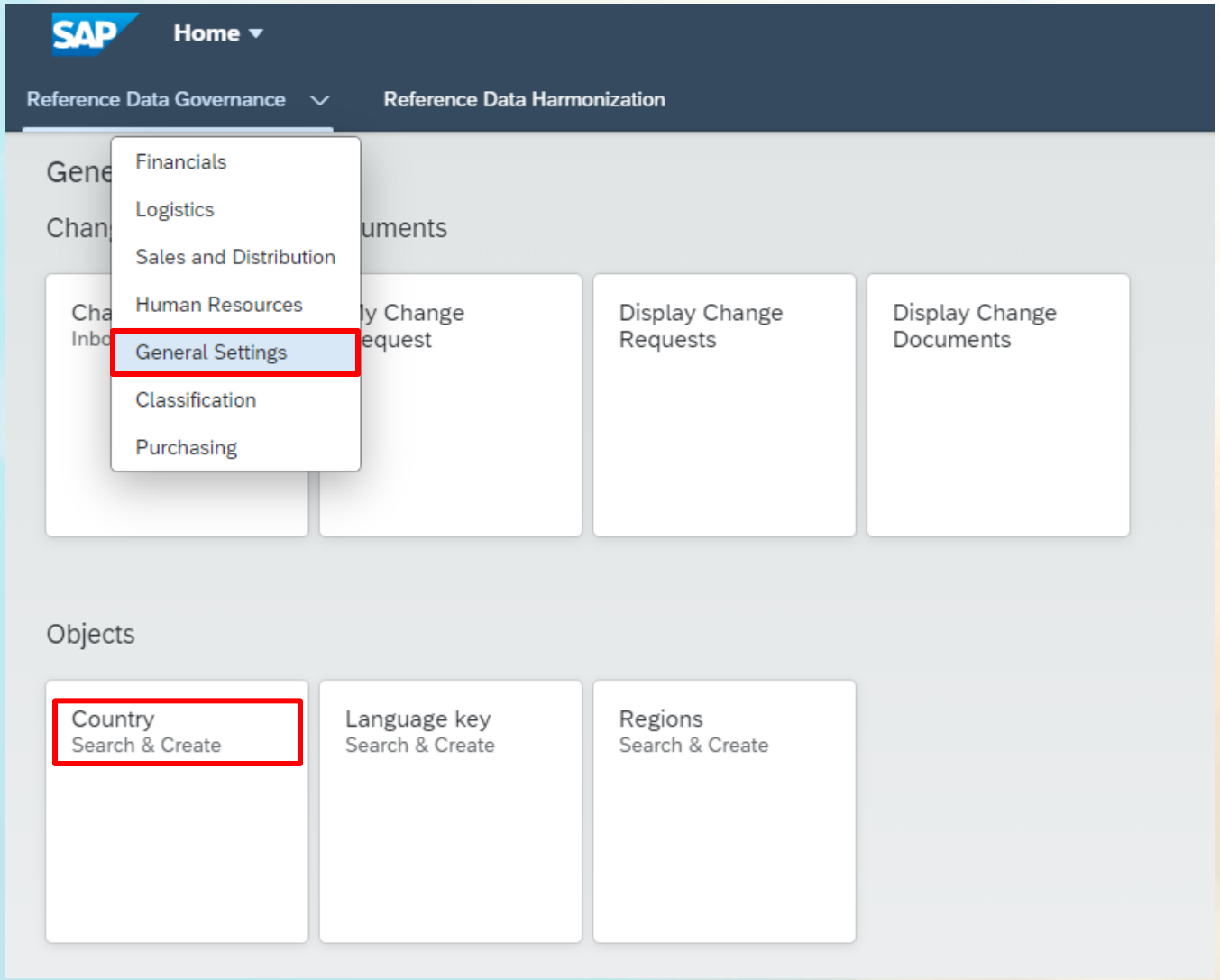
Workflow: Request, Process & Approve



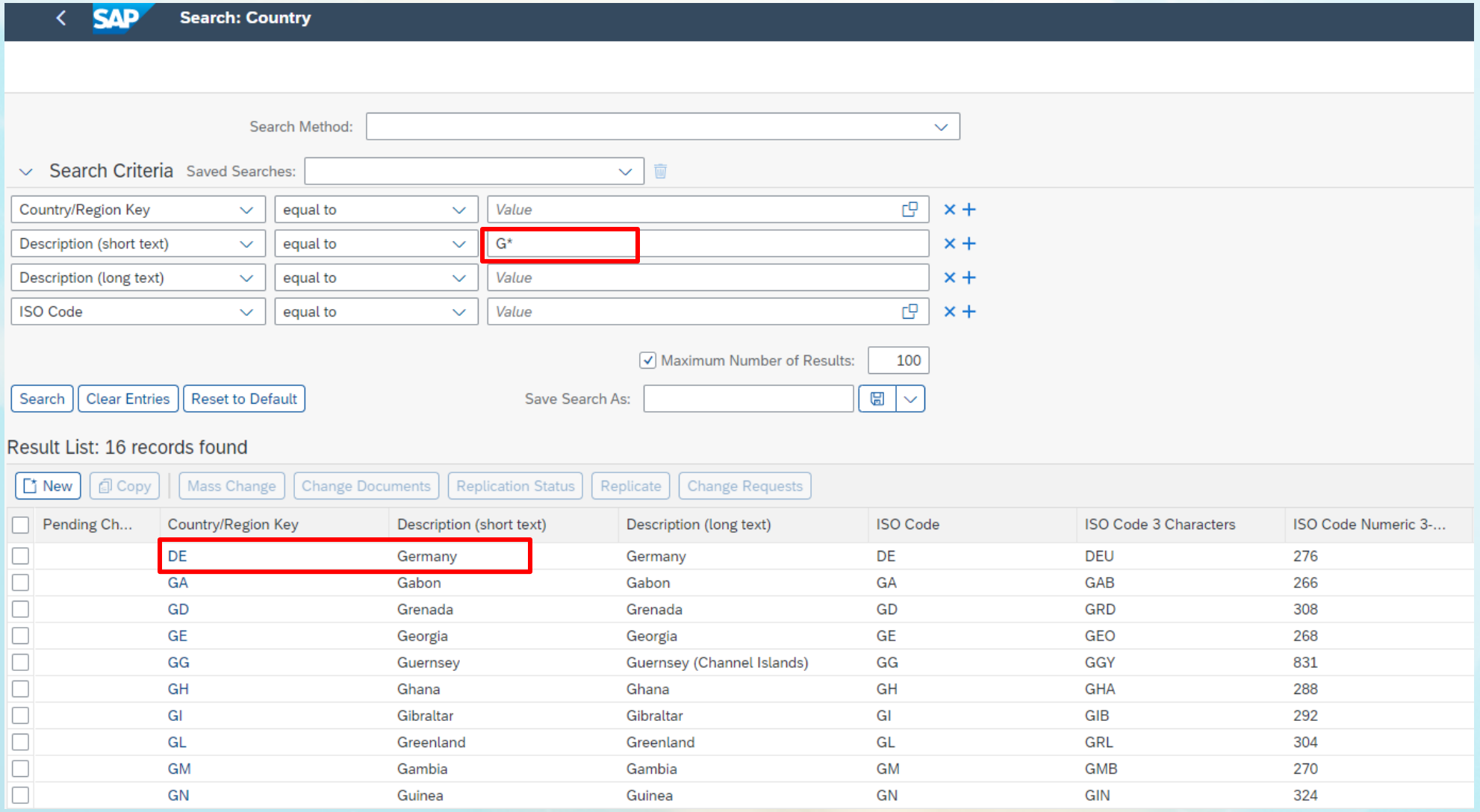
Demo: Short Overview



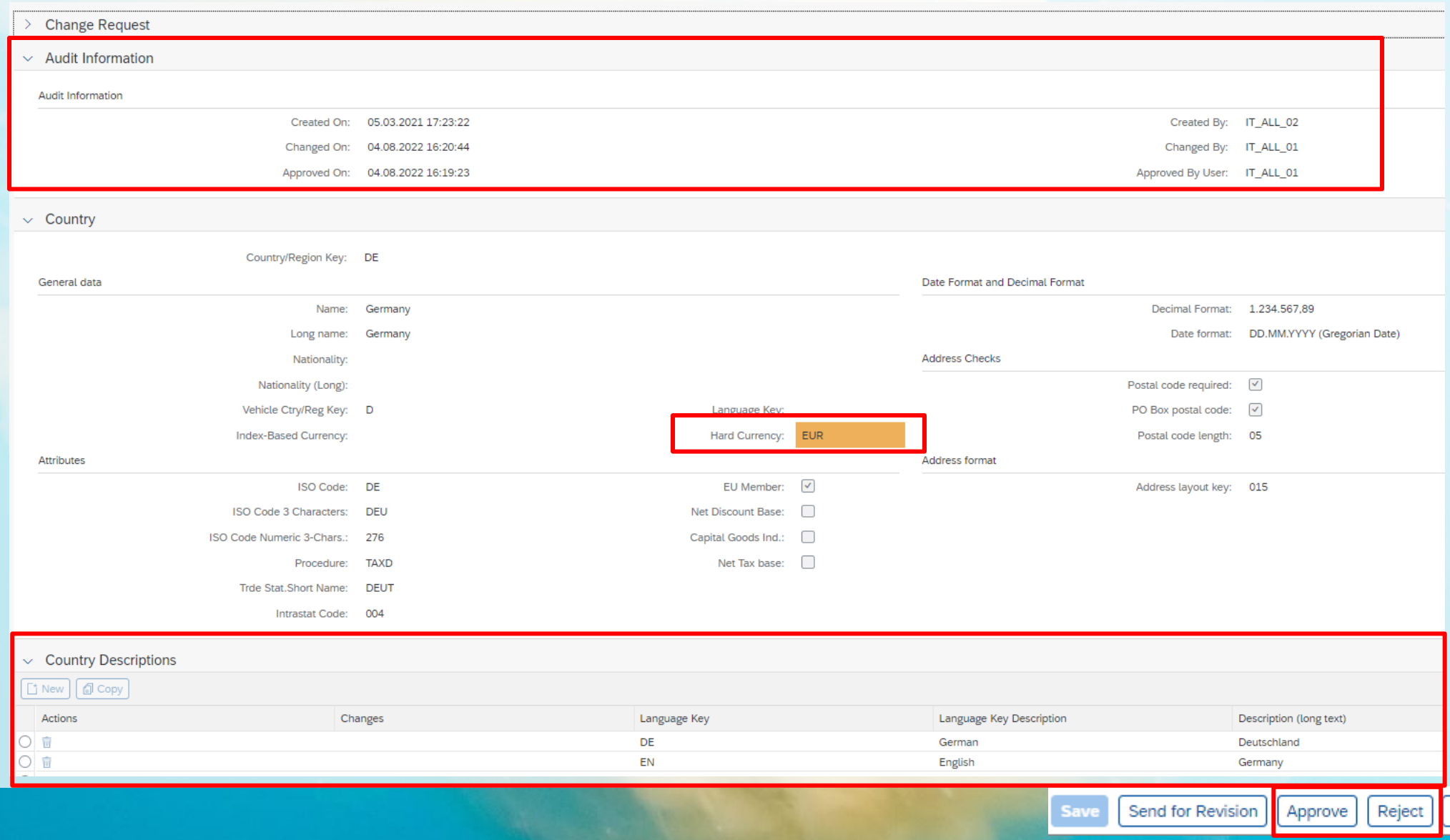
Select or Search for Country



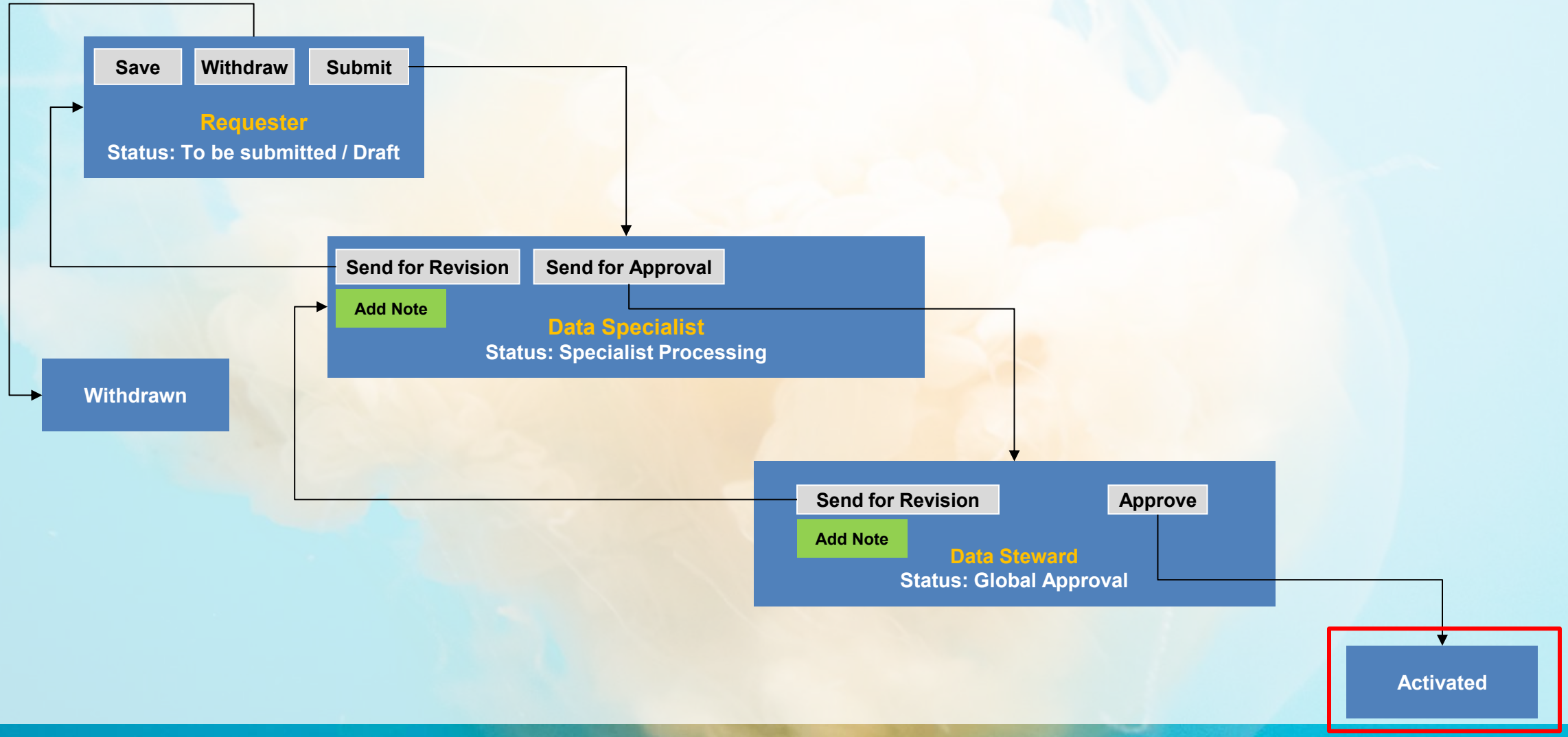
Search and Change



Audit Information / Highlight Change / Descriptions / Governance

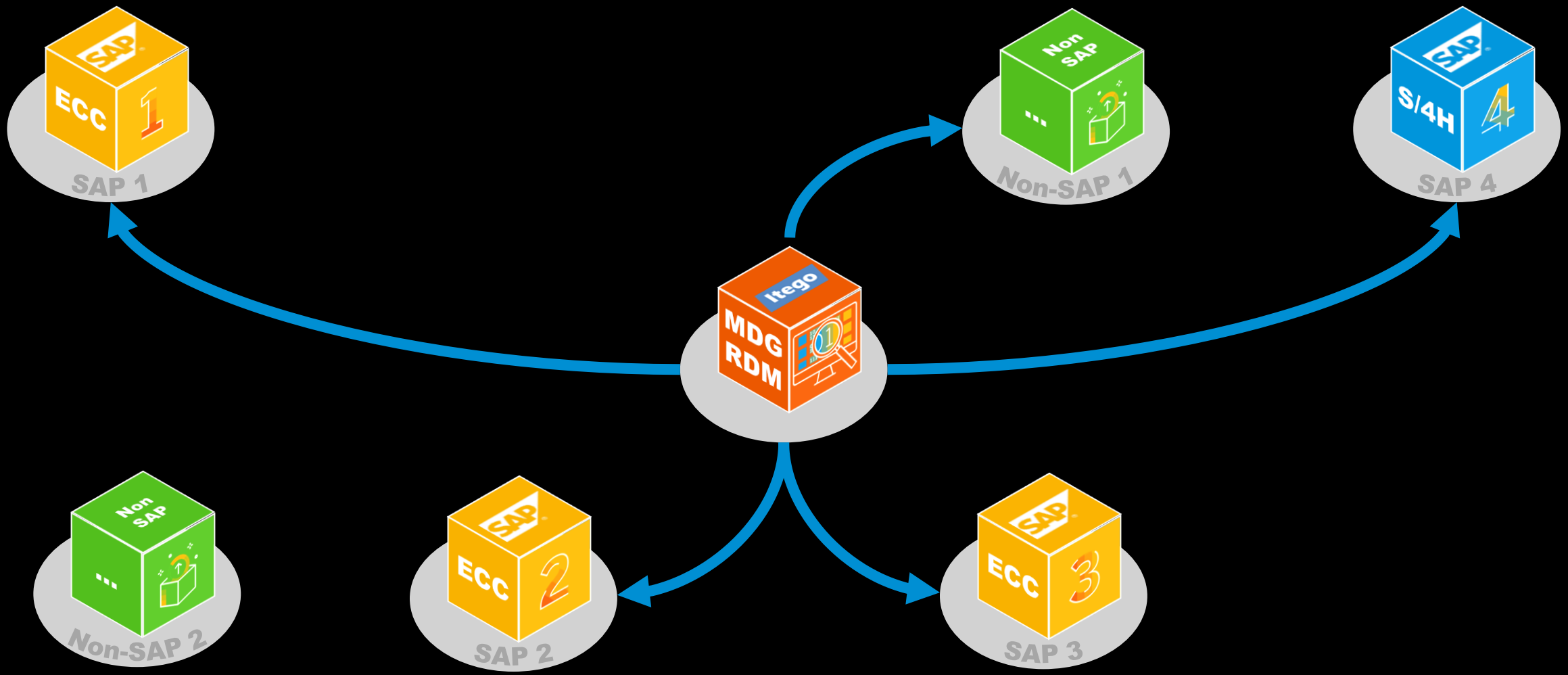


Workflow: Request, Process & Approve



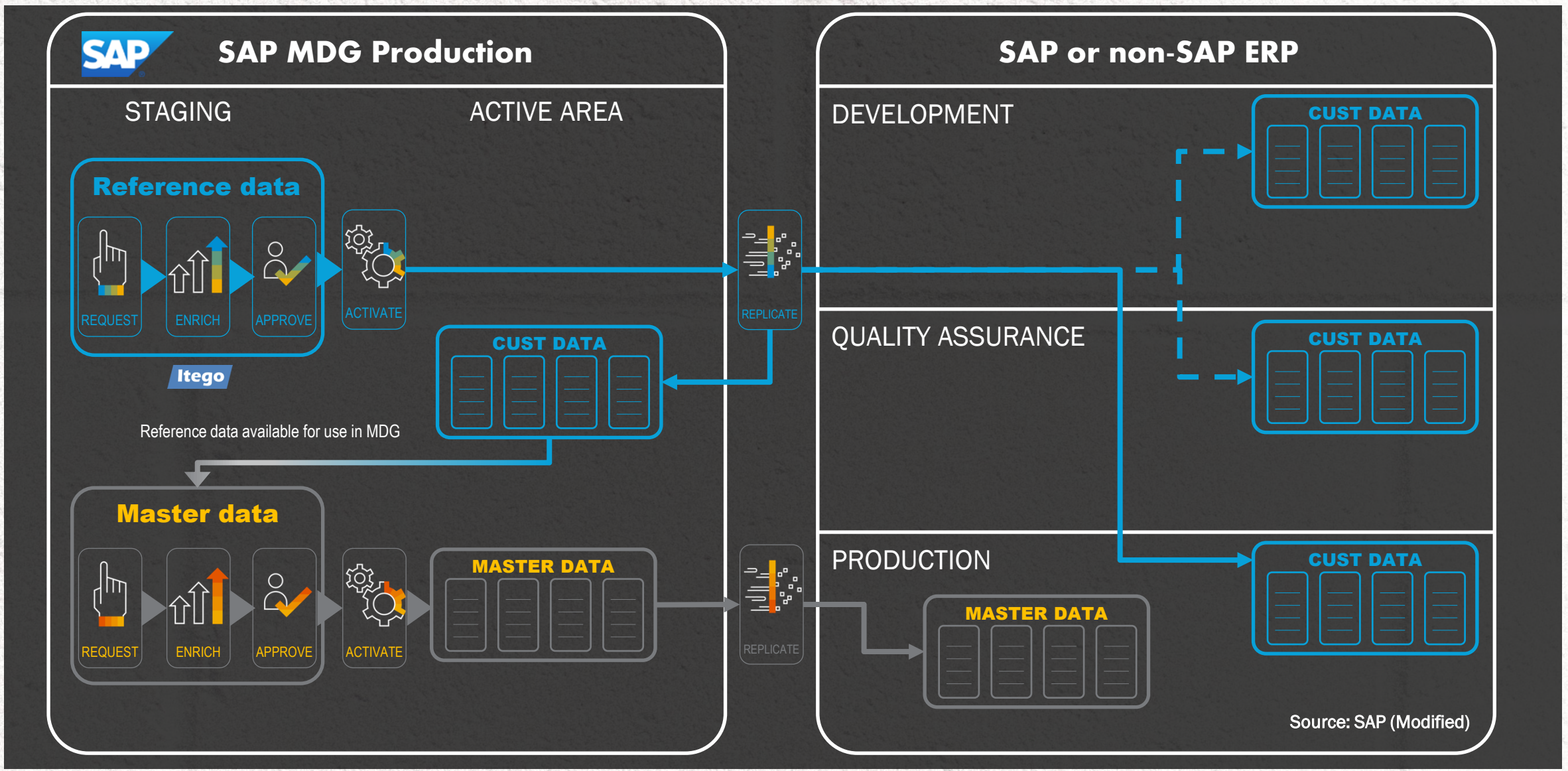
Itego Reference Data Governance

Data Replication



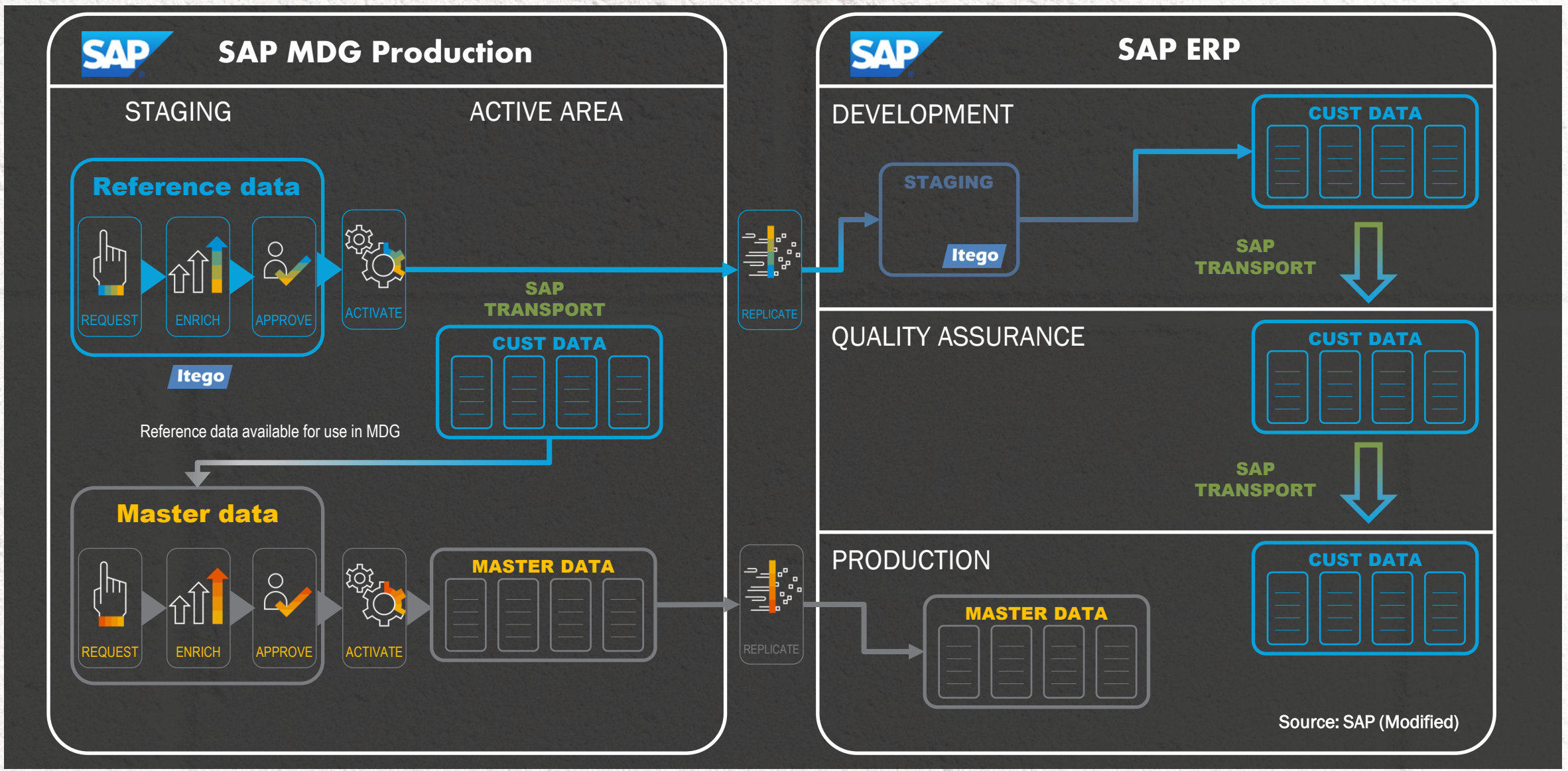
Itego Reference Data Management

Business Controlled Governance Alternative

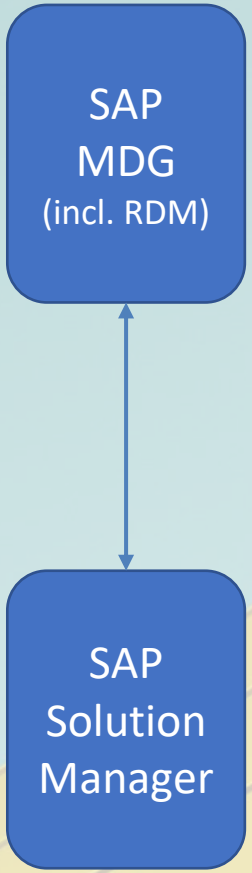


Itego Reference Data Management

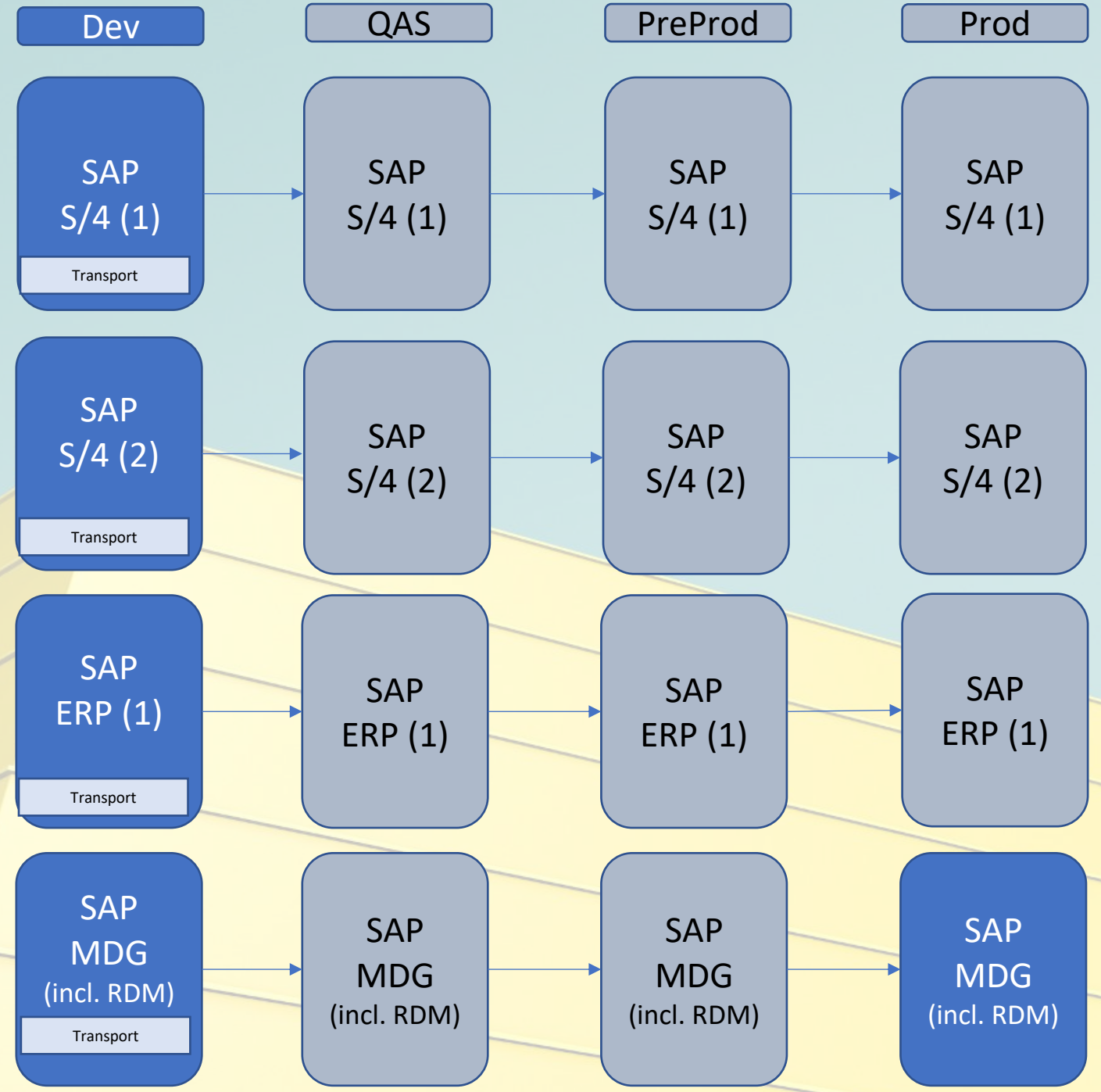
Full IT Governance Alternative



Business Driven
Harmonization and Governance



Technology Driven
Governance and Orchestration



Summary / FAQ / Q&A

Topics

- Value Add and Use Cases
- Customers and who needs it and when?
- License Model and How to engage

Links

Itego Reference Data Management – Website

Blogs: RDM, MDF and Custom Objects, Solution Manager

E-Mail: info@itego.de

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SAP Silver Partner

Itego Reference Data Governance

Object Types

Financials, HR, General Settings

Business Area	Chart of Accounts	Company Code	Company ID	Controlling Area
Customer Acc. Group	Currency	Document Type	Exchange Rate	Functional Area
Gen.Ledger Acc. Group	Operating Concern	Posting Period Variant	Tax Code	Valuation Class
Vendor Acc. Group	Personnel Area	Country & Region	Holiday Cal & Pub. Hol.	Language

Logistics and Purchasing

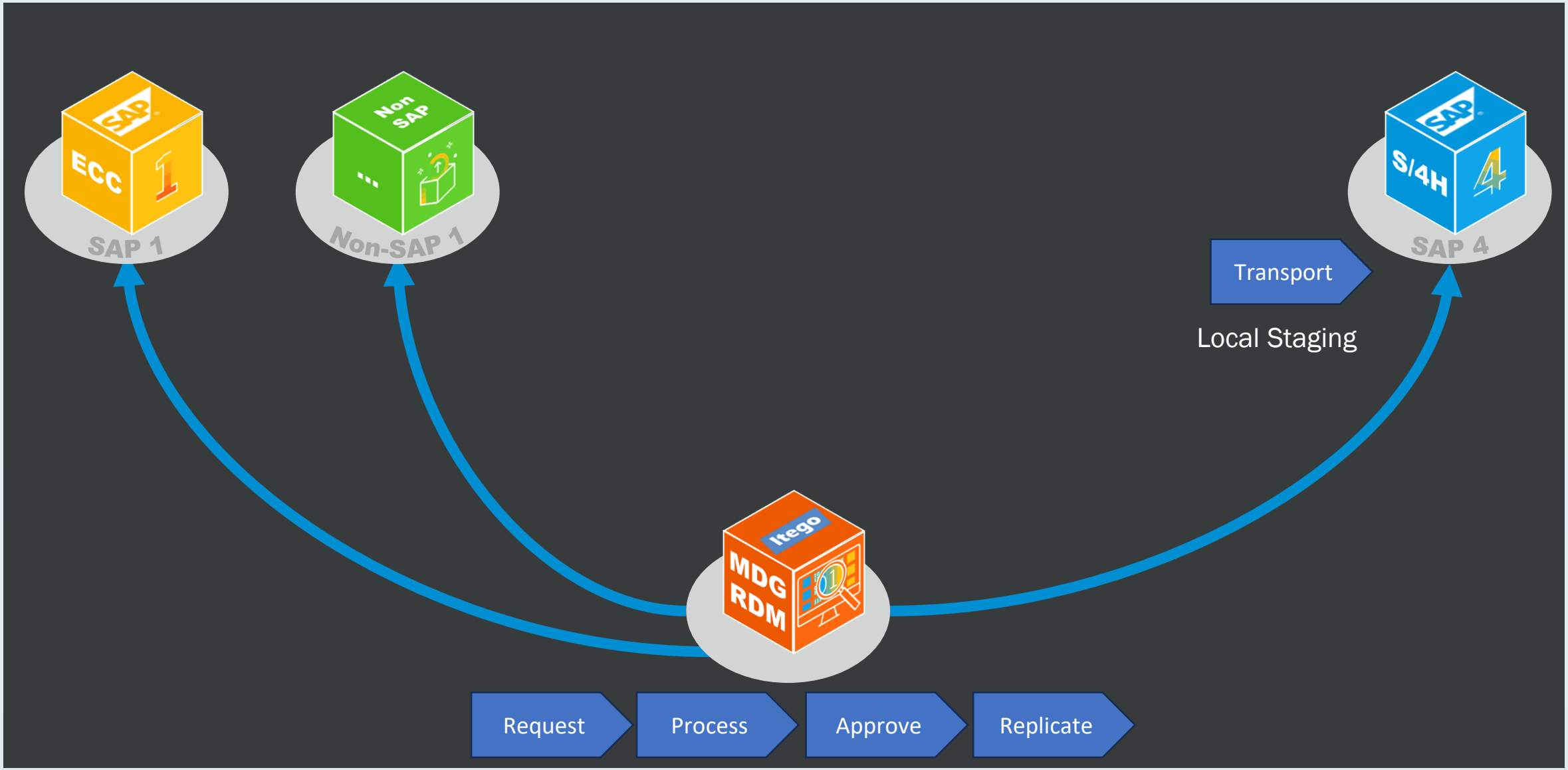
BOM Usage	Division	Factory Calendar	Laboratory/Office
Location	Material Group	Material Status	Material Type
MRP Area	MRP Controller	MRP Profile	MRP Type
Plant	Storage Location	Unit of Measure	Characteristics
Classes	Planning Scope	Purchasing Group	Purchasing Org.

Sales & Distribution

Distribution Channel	Incoterms
Payment Terms	Product Hierarchy
Sales Group	Sales Organization
Sales Office	Shipping Conditions
Shipping Type	Shipping Point

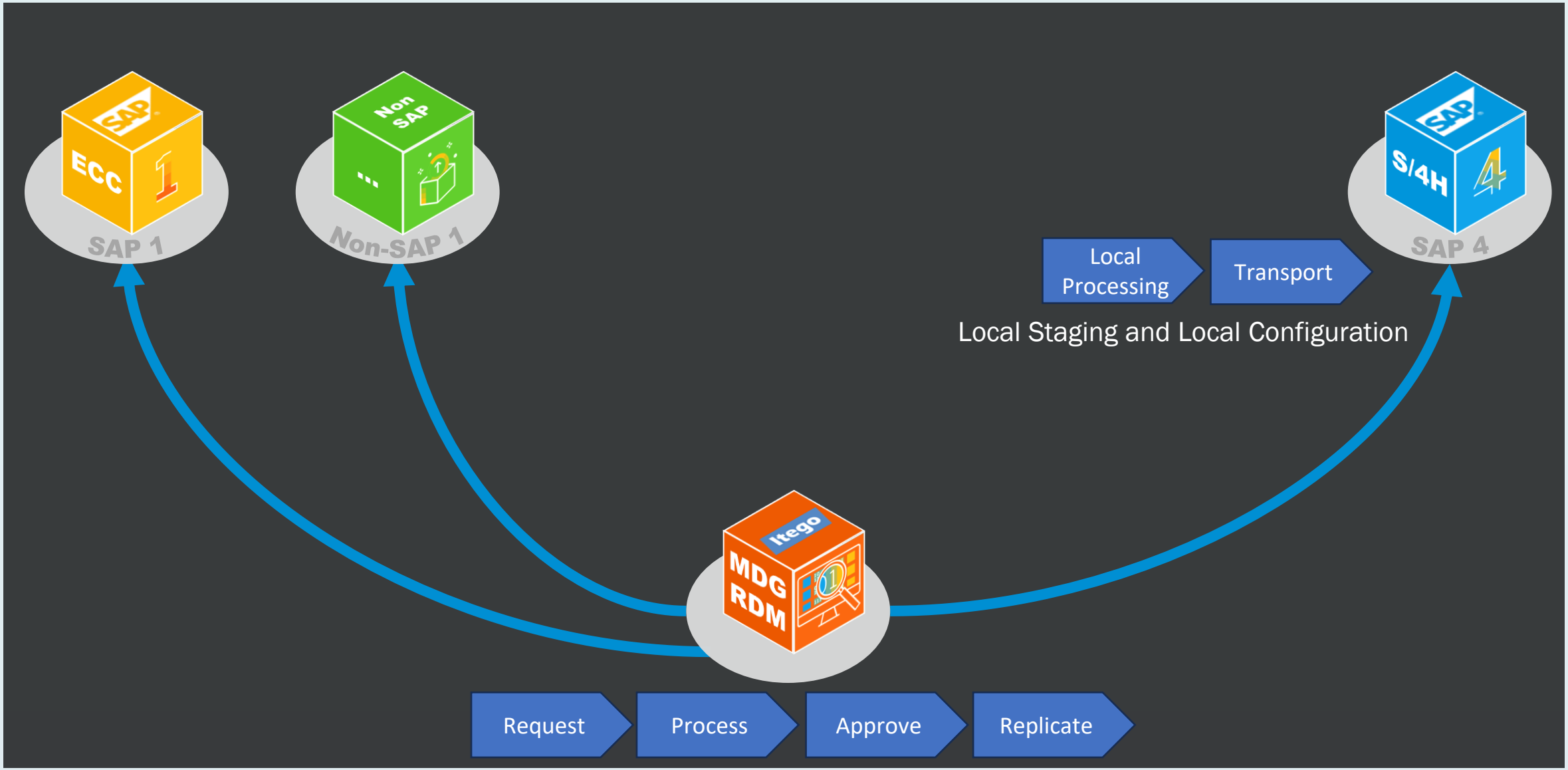
Itego Reference Data Governance

Process Driven Maintenance: Advanced Scenario (Full IT Governance Alternat.)



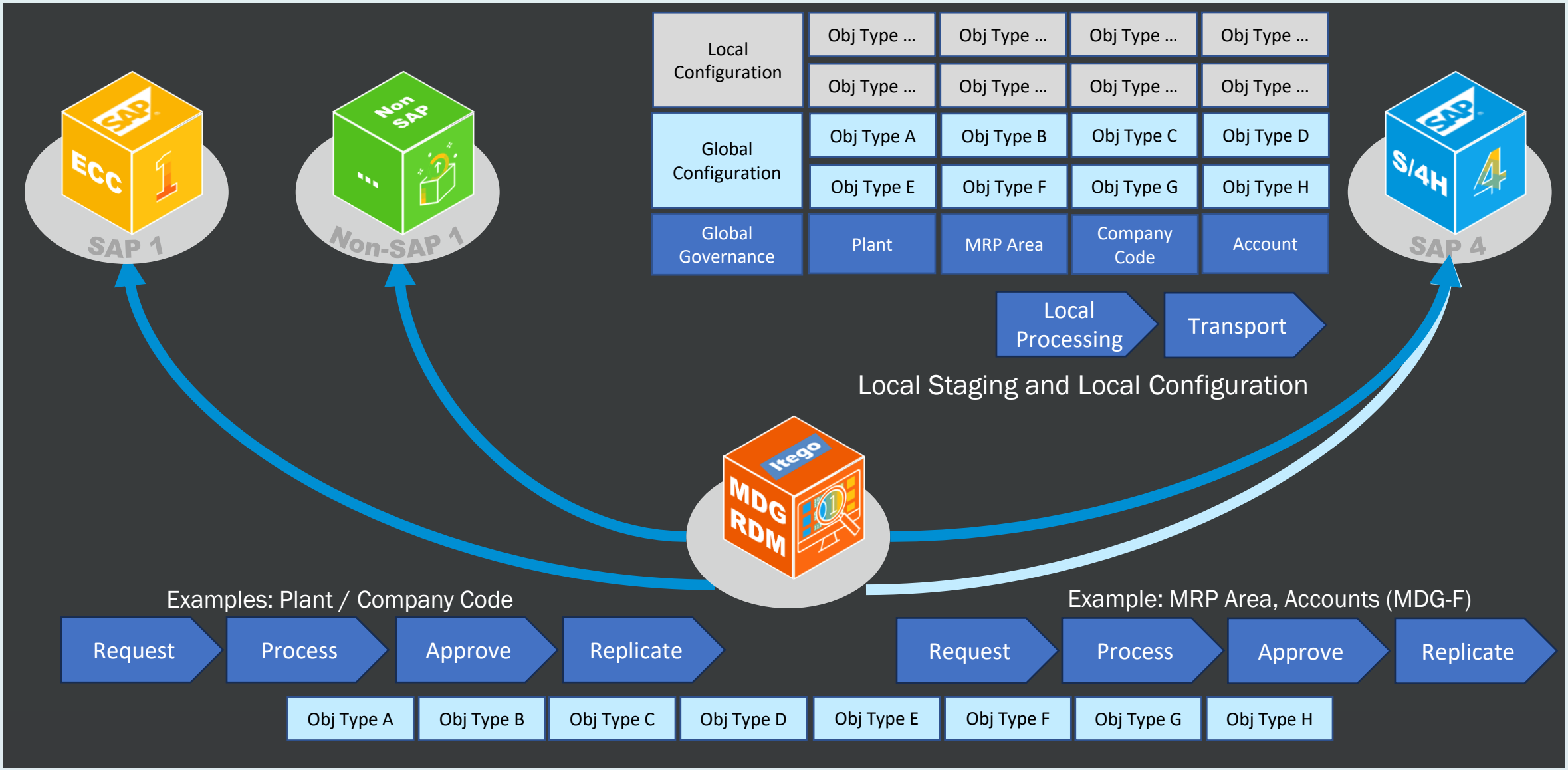
Itego Reference Data Governance

Process Driven Maintenance: Extended Scenario (Full IT Governance Alternat.)



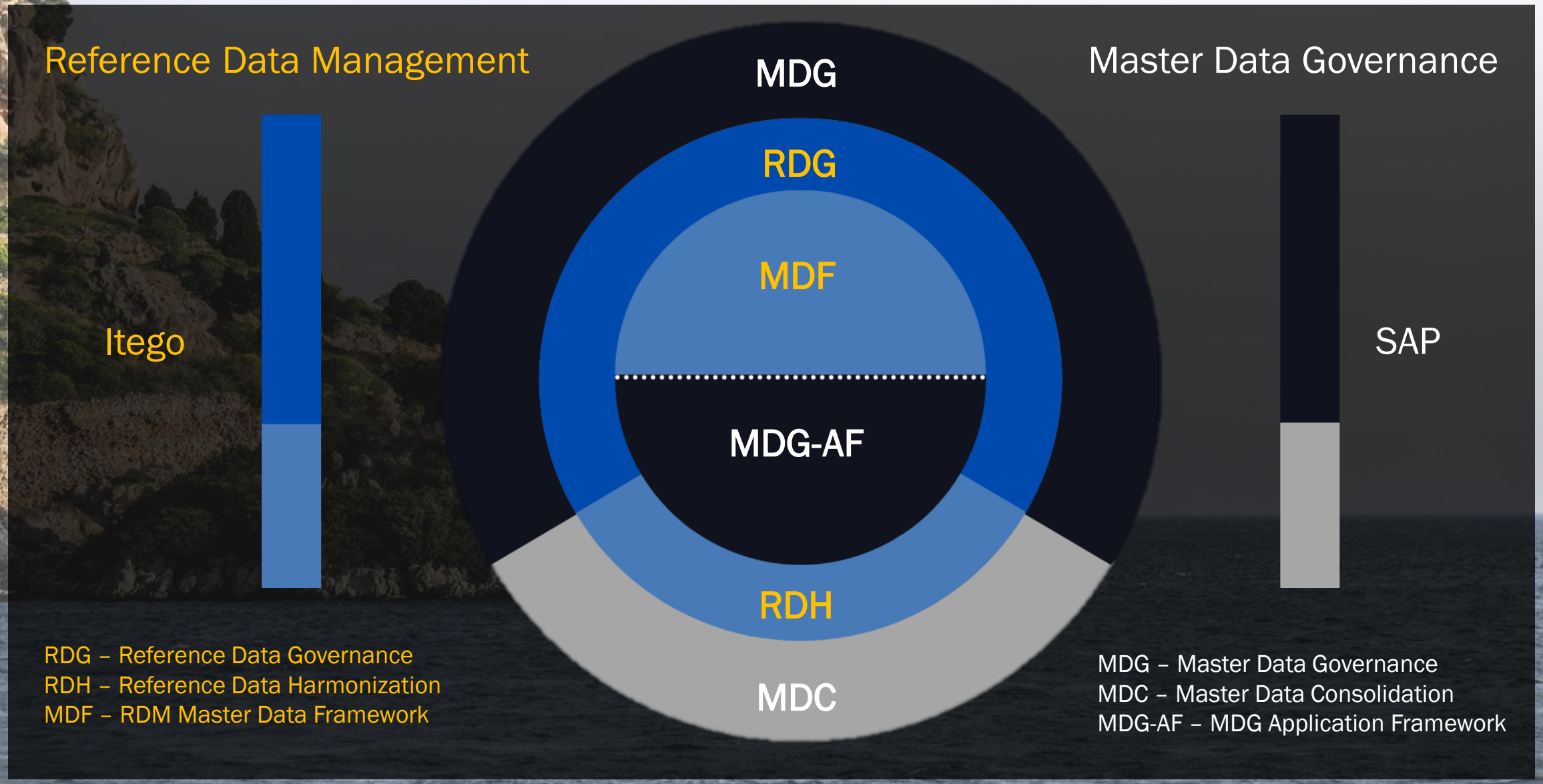
Itego Reference Data Governance

Process Driven Maintenance: Full Scenario (including Harmonization)



Itego Reference Data Management

How? Solution Components



Itego Reference Data Management

How? Solution Components

Complete and Integrated MDG Application

- Data Model with pre-delivered content
- Workflows for Reference Data Governance
- User Interfaces for Reference Data and Meta Data
- Data Replication to Local Staging Area in SAP or non-SAP

Details

- Flexible Data Model
- Rule Based Workflows
- User Interfaces (Web Dynpro)
- Data Transfer for Initial Load (XML or CSV)
- Data Replication with Monitoring for Reliability
- Change Documents, Change Request Monitoring

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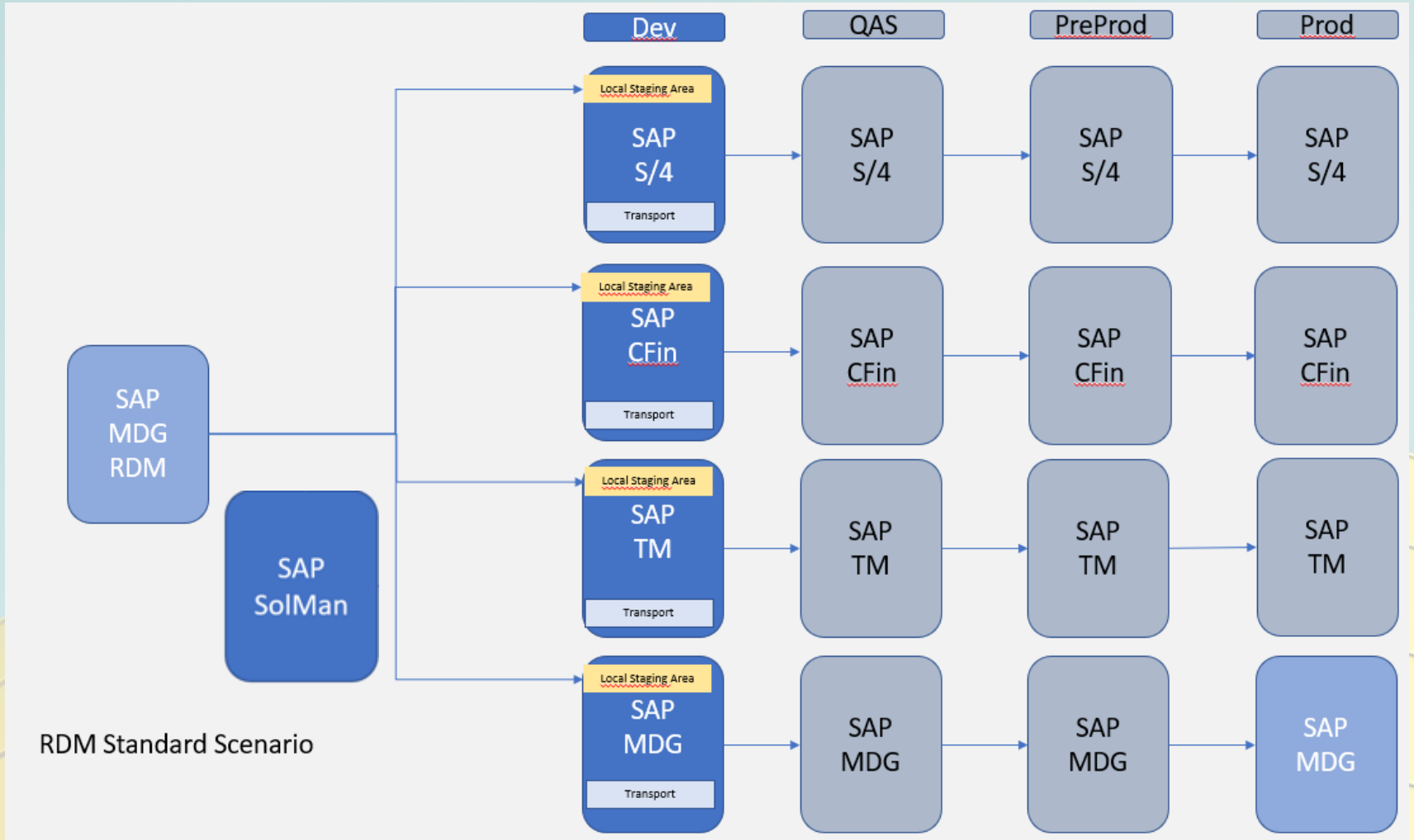
Integration with SAP S/4HANA®

HOW

Solution Manager Integration

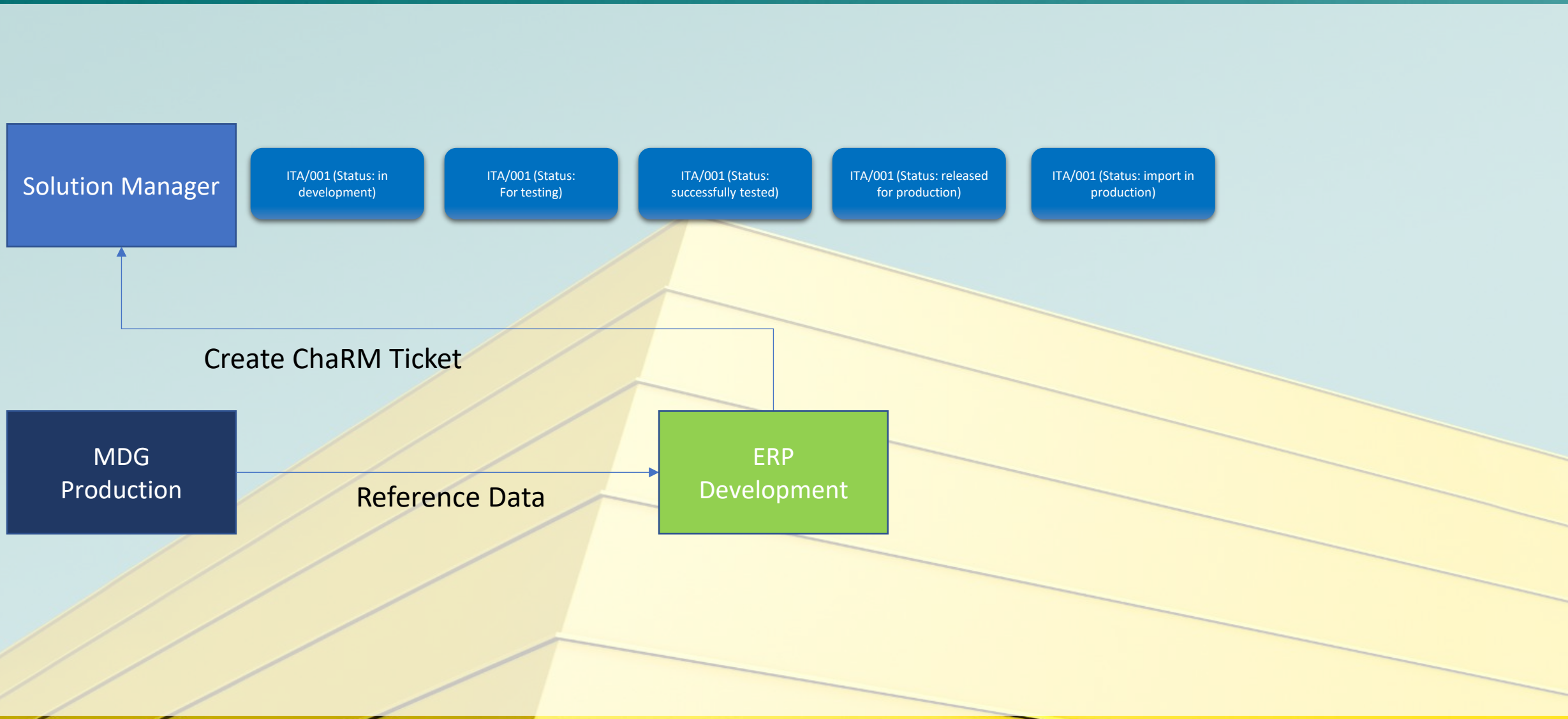
Itego Reference Data Management

Full IT Governance Alternative, Standard Scenario with or without Solution Manager

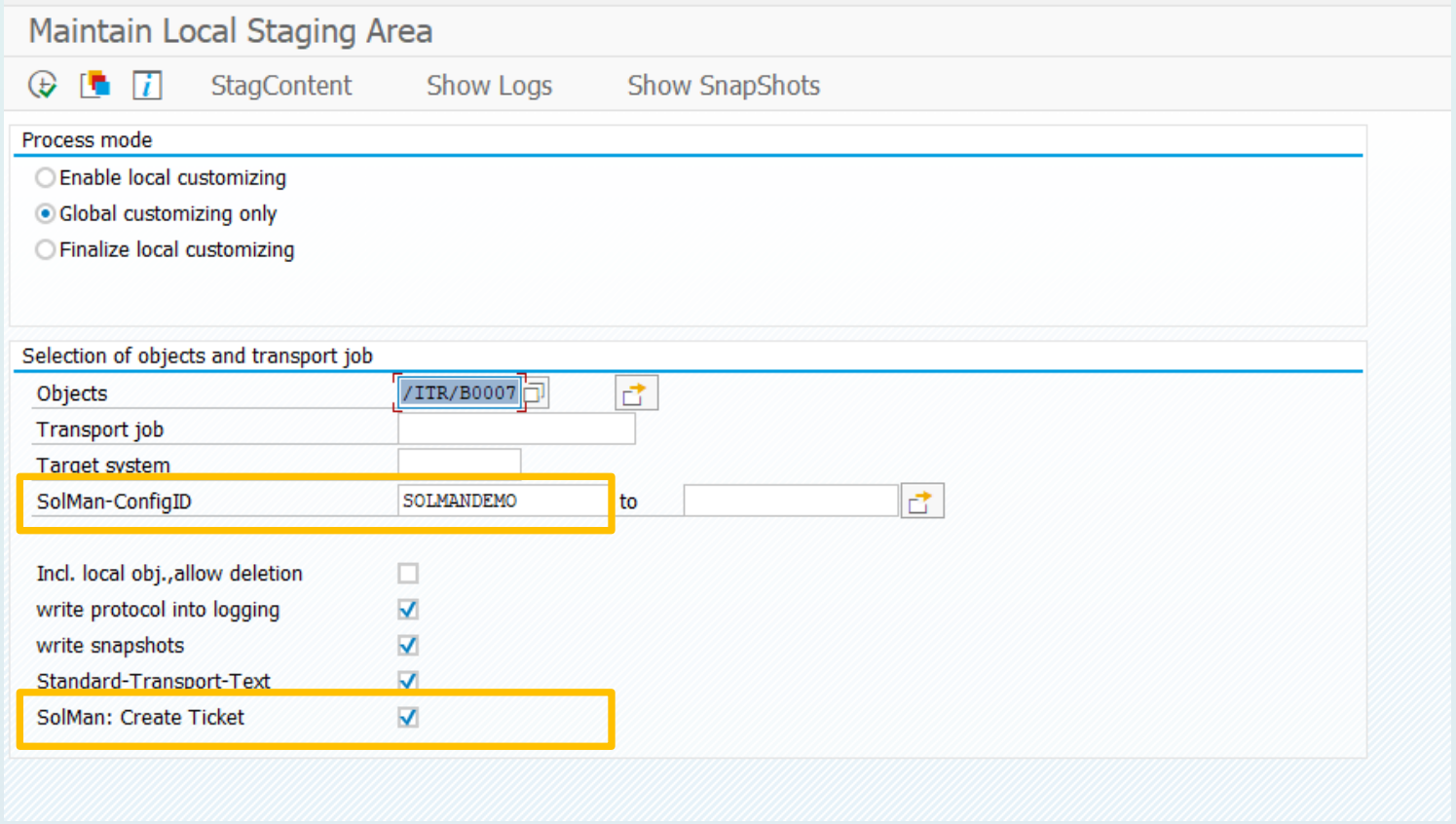


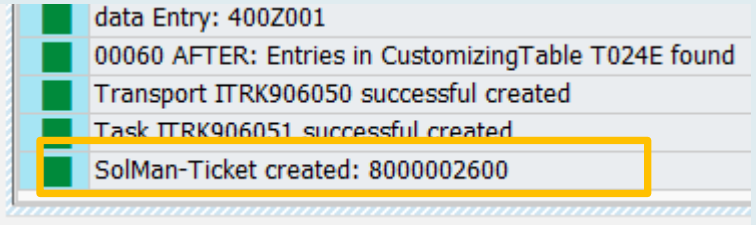
Itego Reference Data Management

Solution Manager Integration: Create ChaRM Ticket



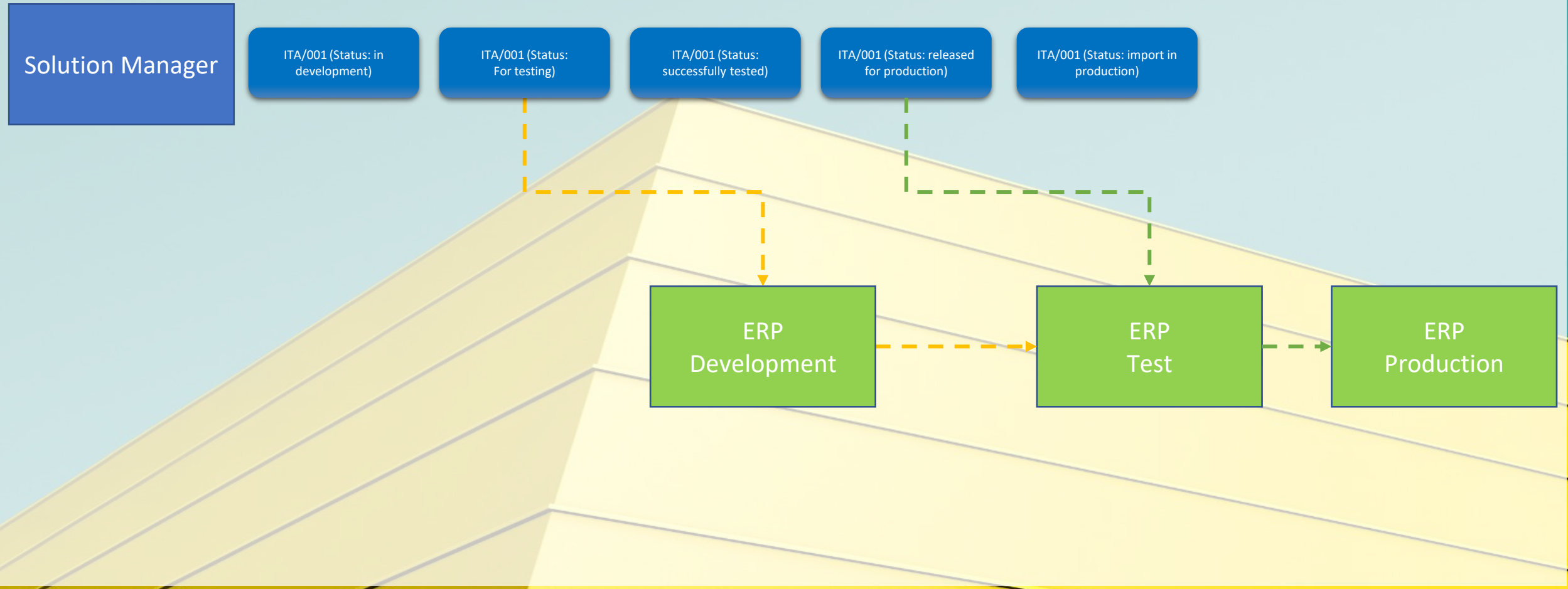
Create ChaRM Ticket from Local Staging Area



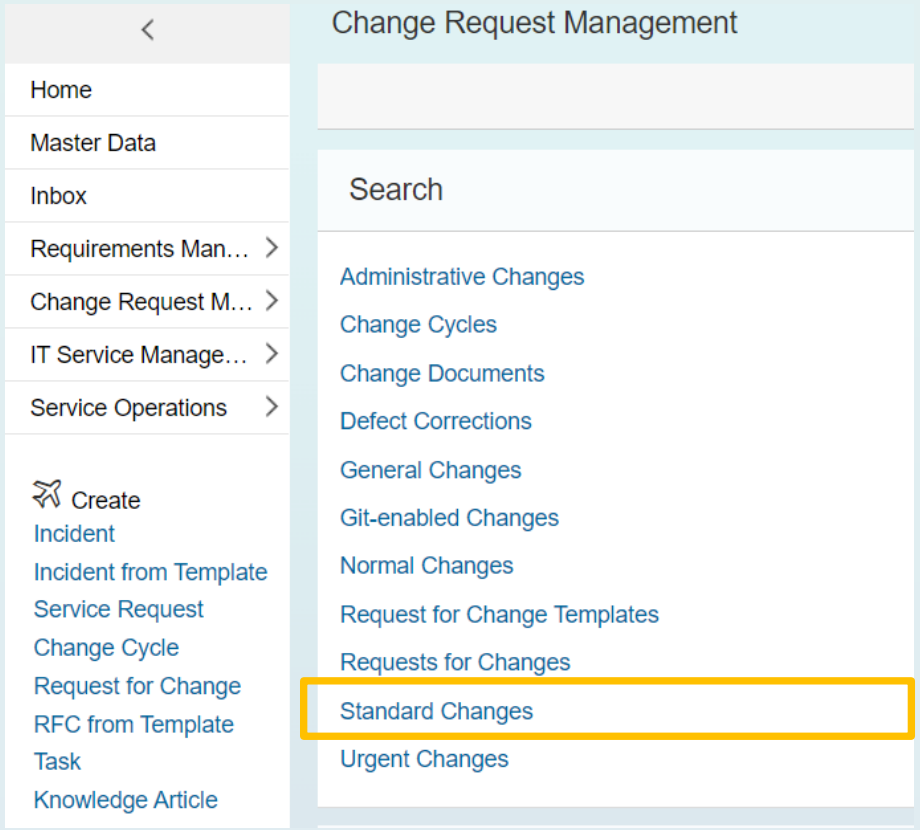


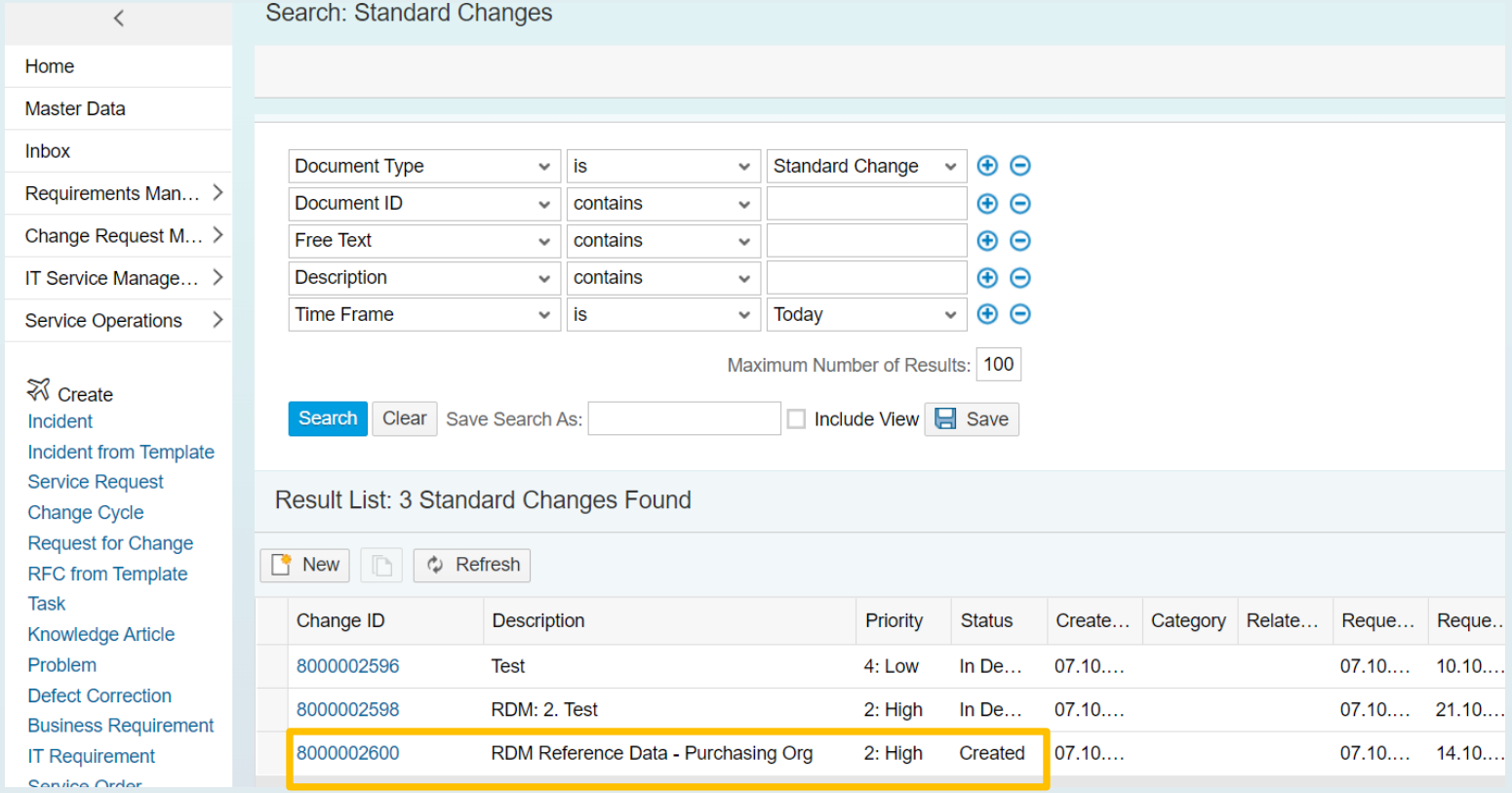
Itego Reference Data Management

Solution Manager Integration: Process ChaRM Ticket

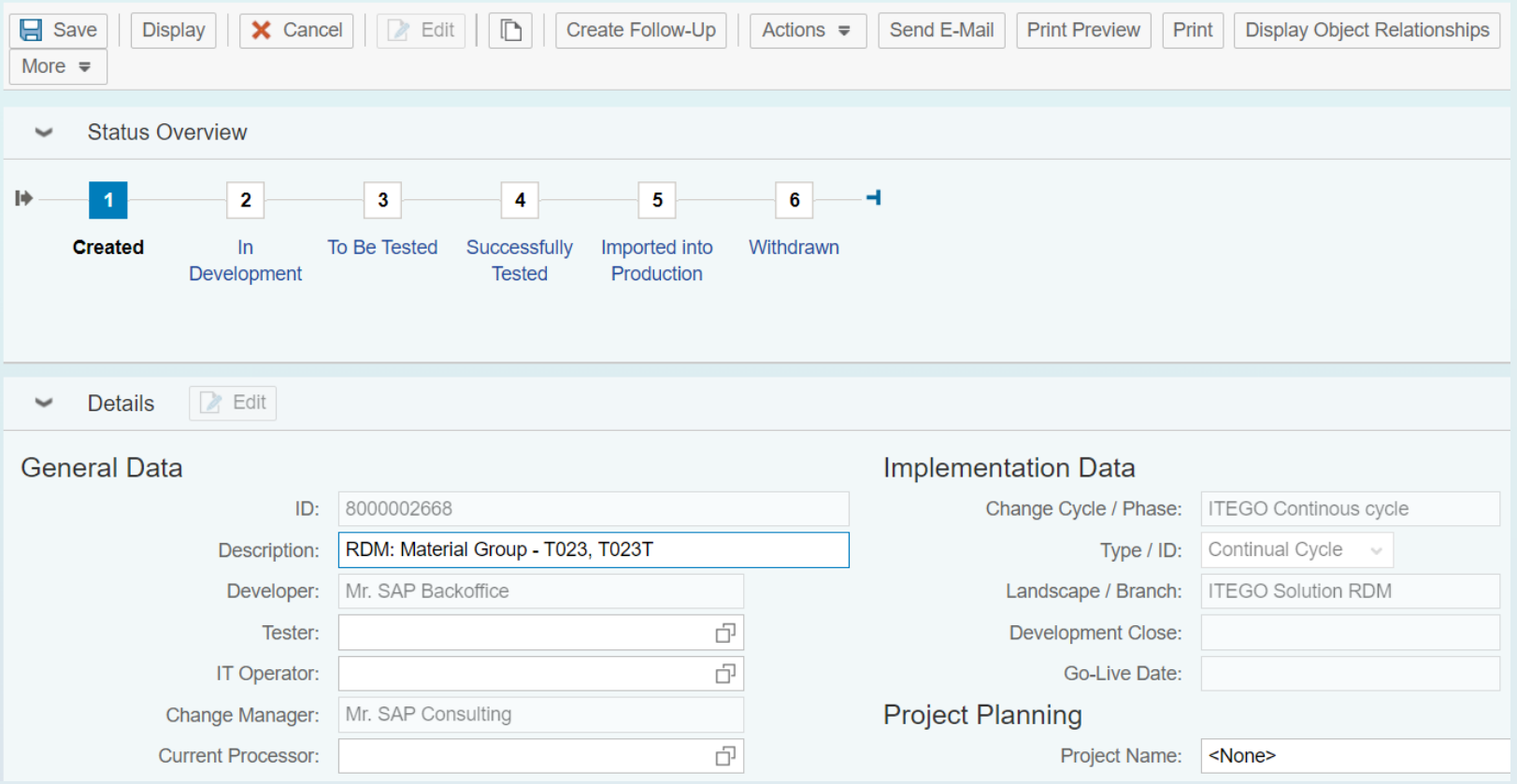


Process ChaRM Ticket in Solution Manager / 1



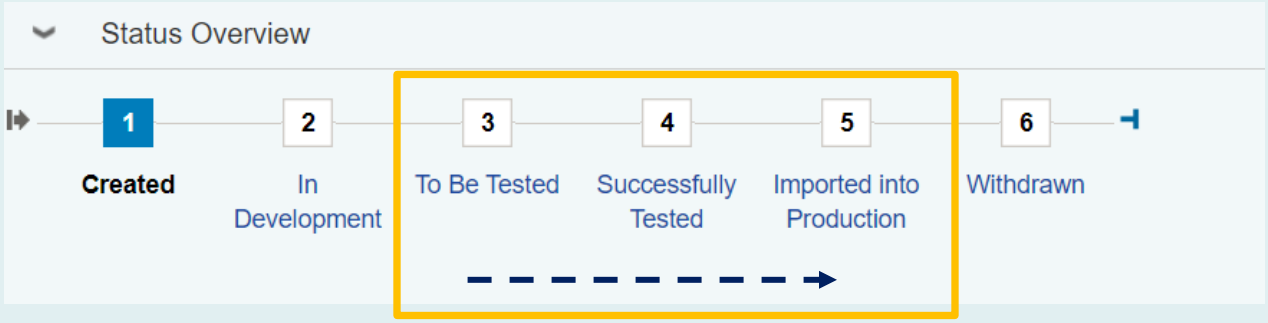


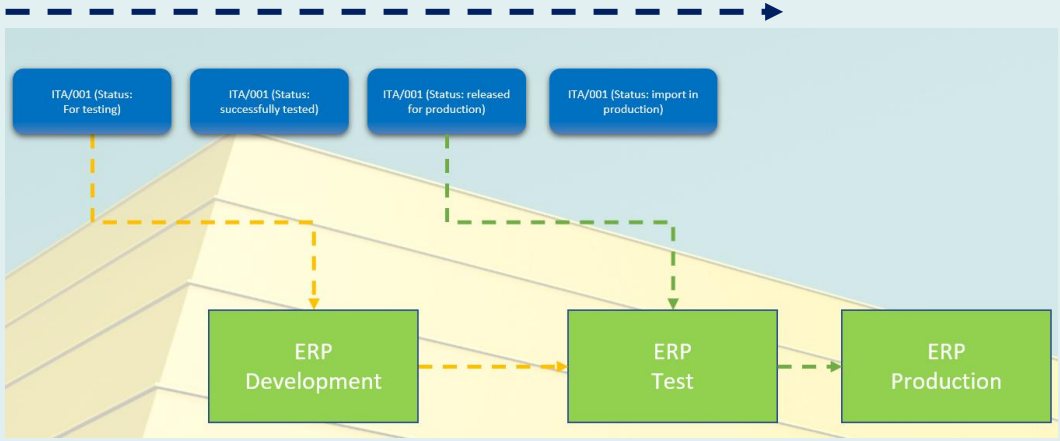
Process ChaRM Ticket in Solution Manager / 2




```
------------------------------------------------------------------------
Start: 2022-10-27T12:47:25
------------------------------------------------------------------------
Logging started
Delta-Mode selected
Processing started for Object: /ITR/B1072 table: T023
Processing started for Object: /ITR/B1072 table: T023T
Snapshot created with index(es): RDM-T023-124725  table: T023
00023 BEFORE: Entries in CustomizingTable T023 found
Staging entries for /ITR/T023 found 00001
Insert entries for T023 found 00001
Update entries for T023 found 00000
Insert entries for /ITR/T023 processed: 00001
data Entry: 20009
00024 AFTER: Entries in CustomizingTable T023 found
Snapshot created with index(es): RDM-T023T-124726  table: T023T
00028 BEFORE: Entries in CustomizingTable T023T found
Staging entries for /ITR/T023T found 00002
Insert entries for T023T found 00002
Update entries for T023T found 00000
Insert entries for /ITR/T023T processed: 00002
data Entry: 200D09
data Entry: 200E09
00030 AFTER: Entries in CustomizingTable T023T found
Transport IR1K900451 successful created
Task IR1K900452 successful created
Transport IR1K900451 could not be released
------------------------------------------------------------------------
End: 2022-10-27T12:47:25
------------------------------------------------------------------------
```

Process ChaRM Ticket in Solution Manager / 3





Save | Display | Cancel | Edit | Create Follow-Up | Actions | Send E-Mail | Print Preview | Print | Display Object Relationships | More

Status Overview

1 Created | 2 In Development | 3 To Be Tested | 4 Successfully Tested | 5 Imported into Production | 6 Withdrawn

Details | Edit

General Data

ID:	8000002668
Description:	RDM: Material Group - T023, T023T
Developer:	Mr. SAP Backoffice
Tester:	
IT Operator:	
Change Manager:	Mr. SAP Consulting
Current Processor:	

Implementation Data

Change Cycle / Phase:	ITEGO Continous cycle
Type / ID:	Continual Cycle
Landscape / Branch:	ITEGO Solution RDM
Development Close:	
Go-Live Date:	

Project Planning

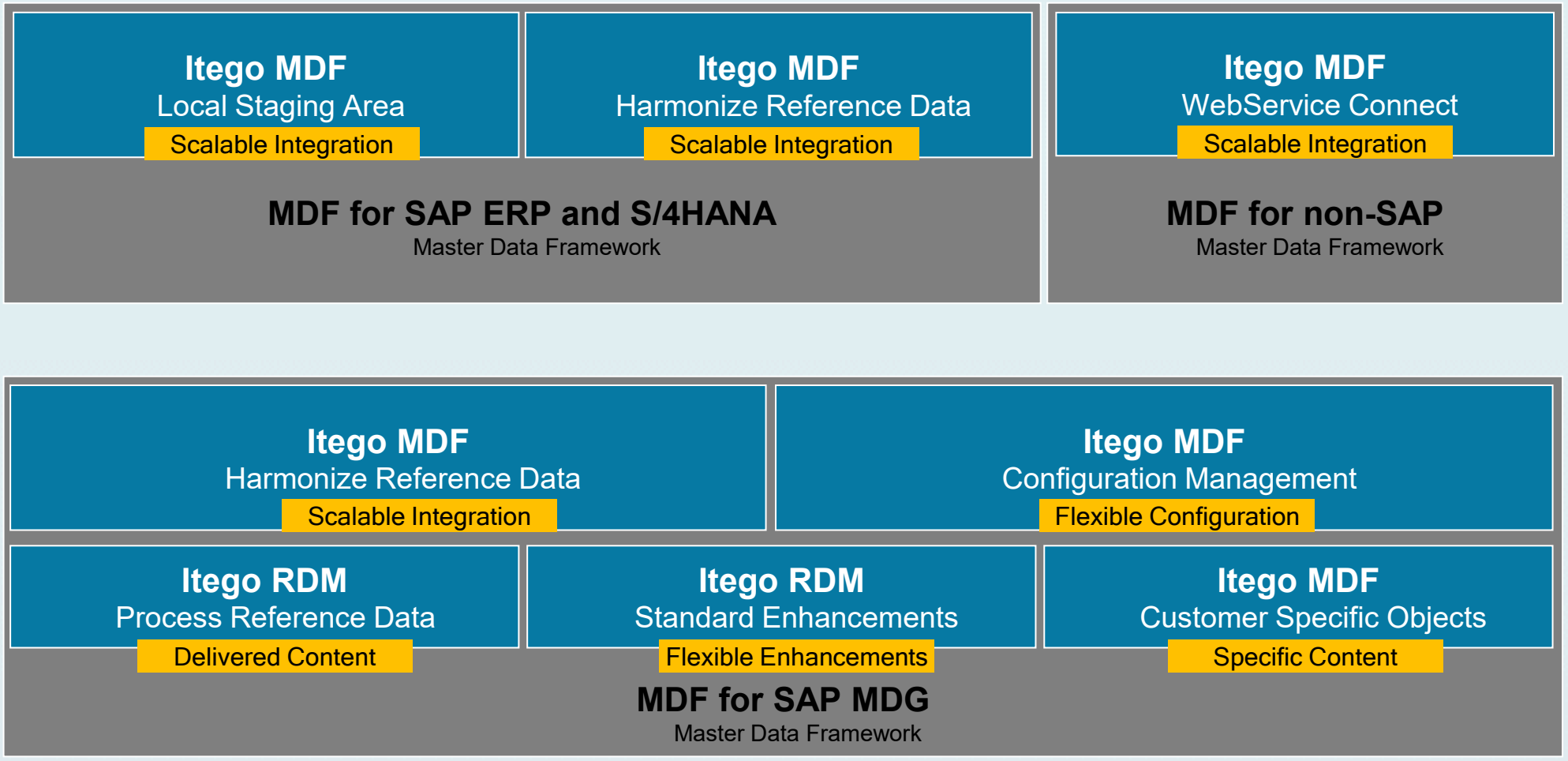
Project Name:	<None>

HOW

Master Data Framework

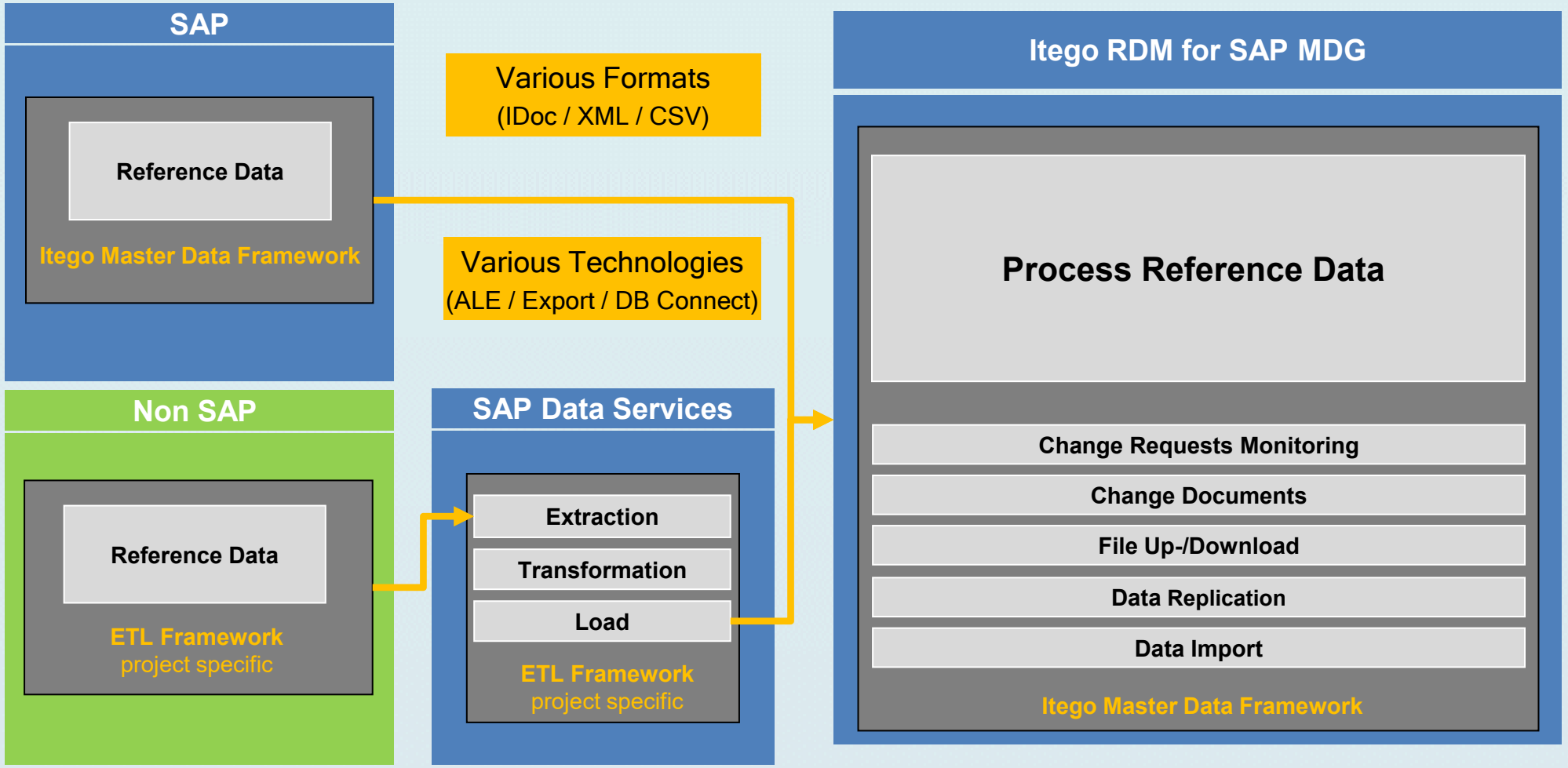
Itego Master Data Framework

Scenarios and Solution Components



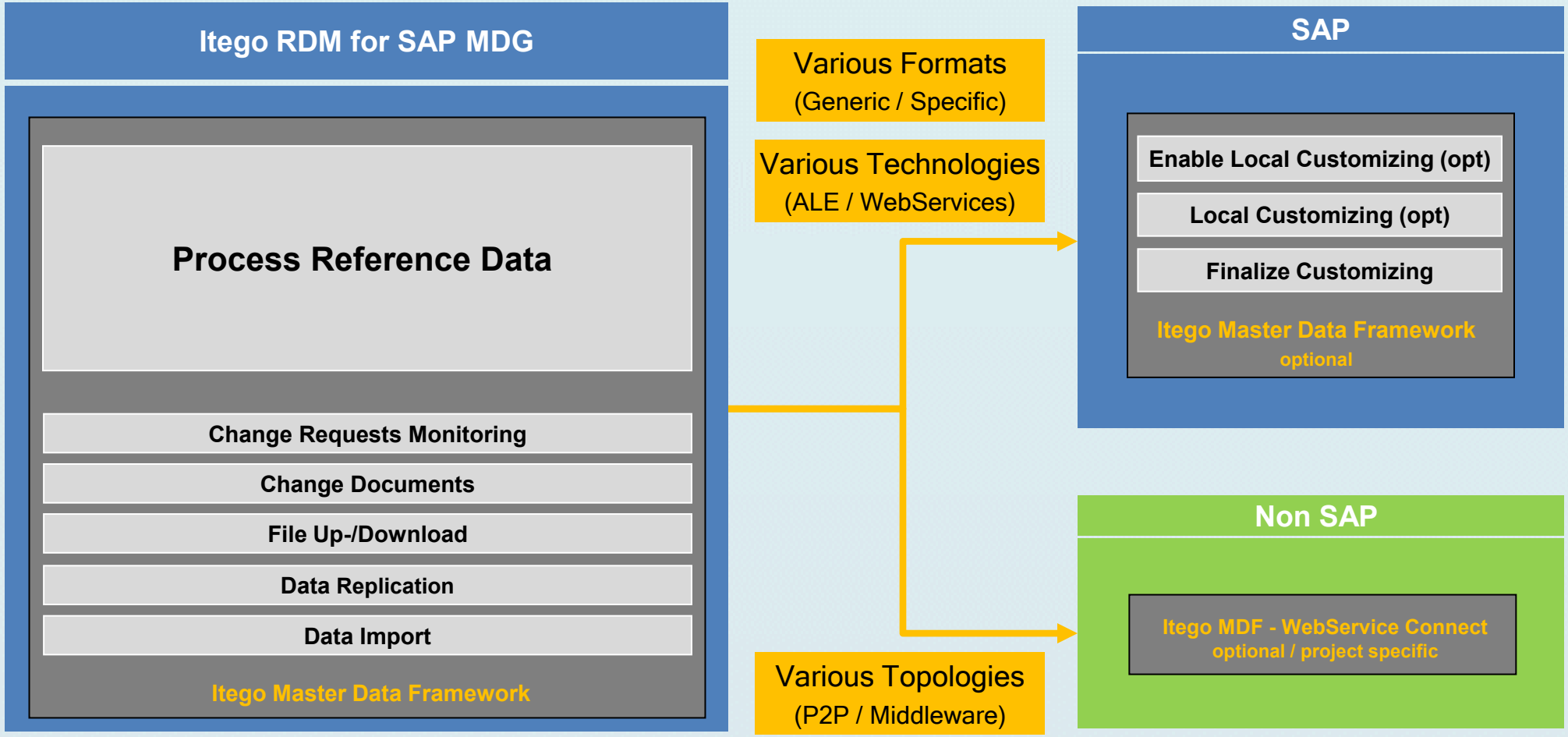
Itego Master Data Framework

Flexibility for Data Load



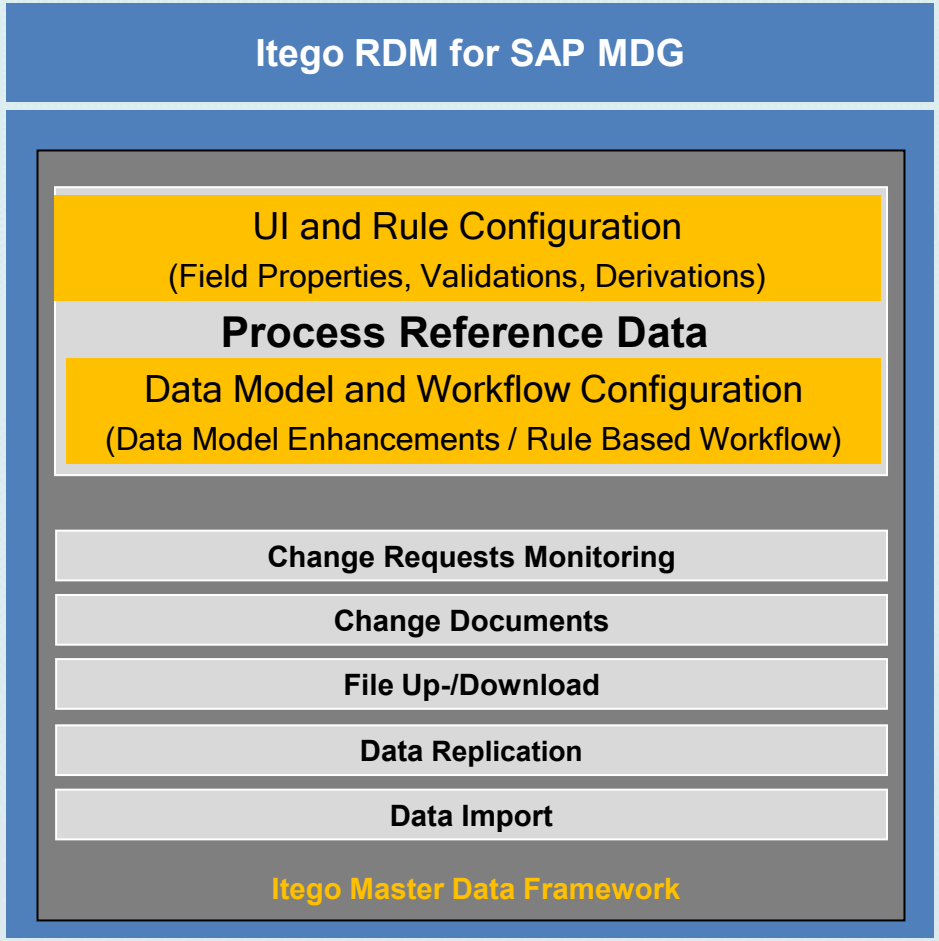
Itego Master Data Framework

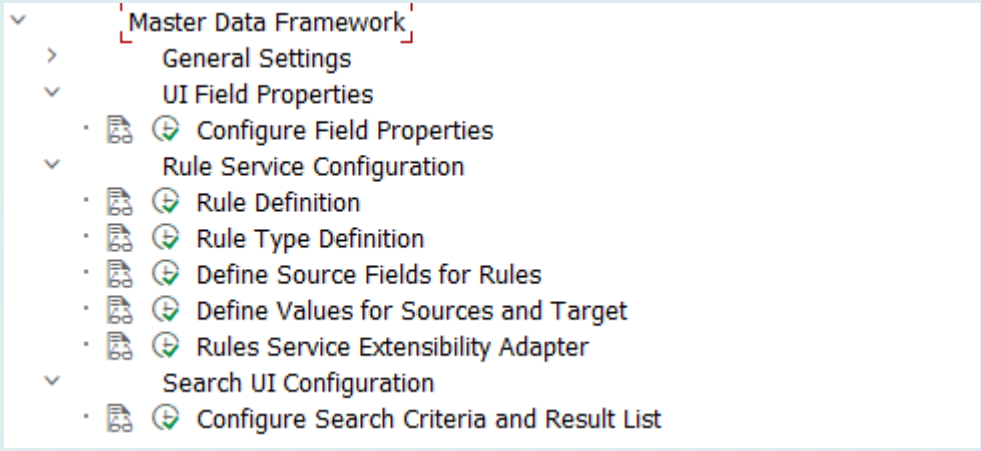
Scalability for Data Replication

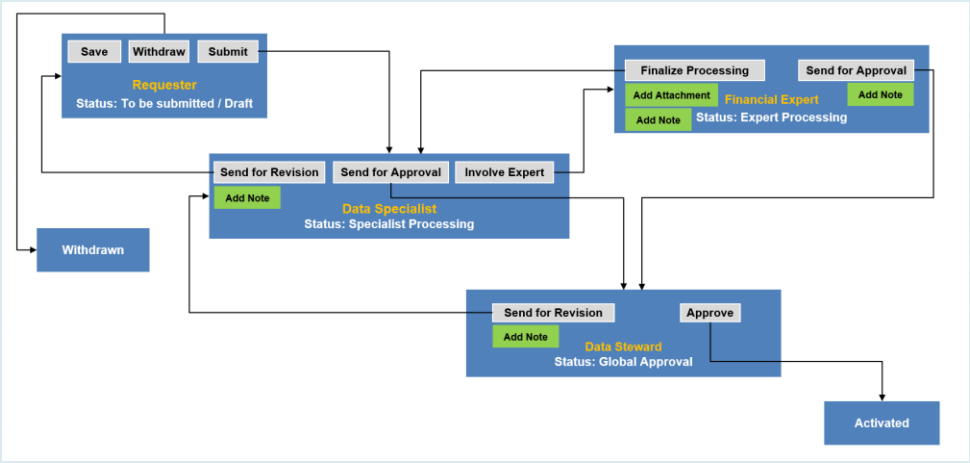


Itego Master Data Framework

Flexible Enhancements for Reference Data Processing

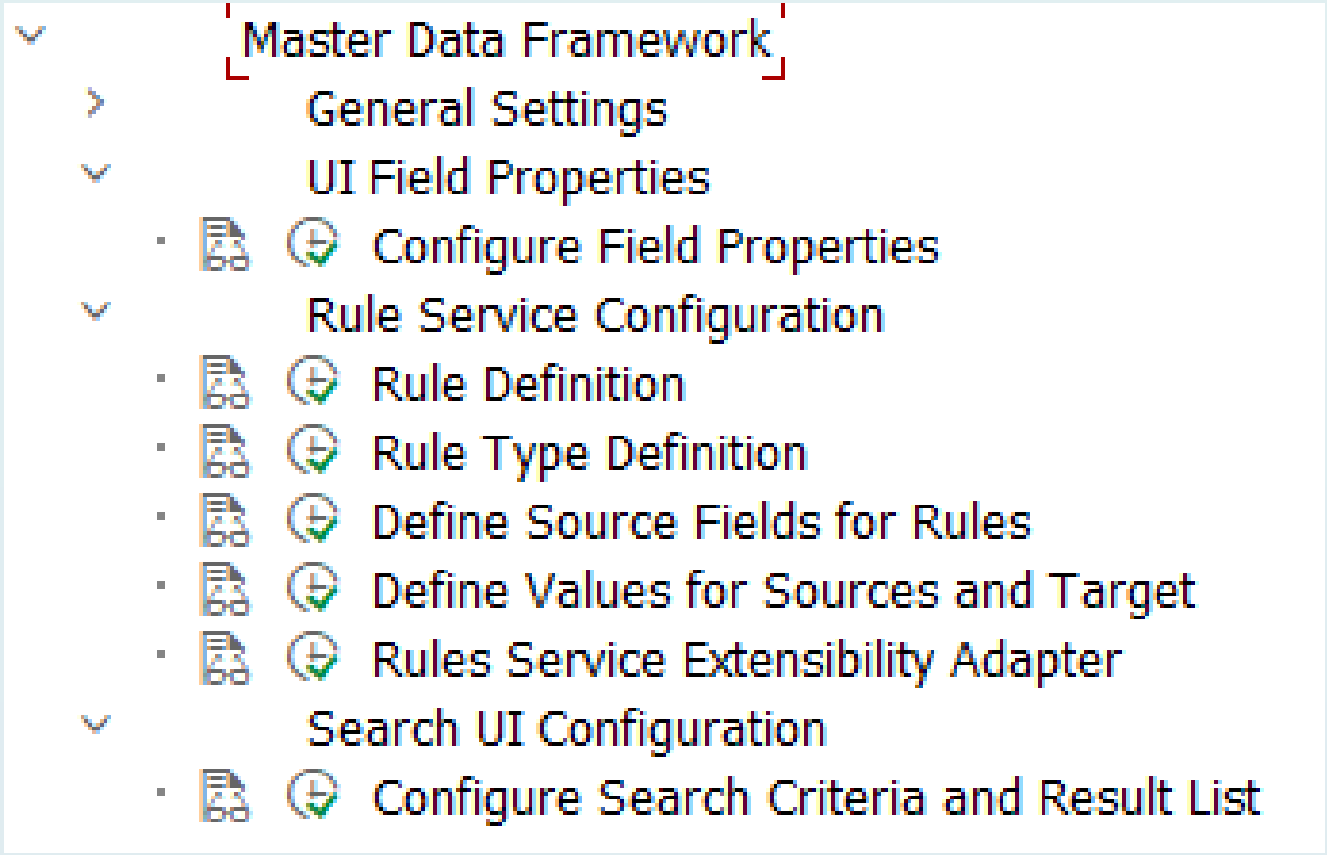






Itego Master Data Framework

Guided User Interface (UI) and Rule Configuration



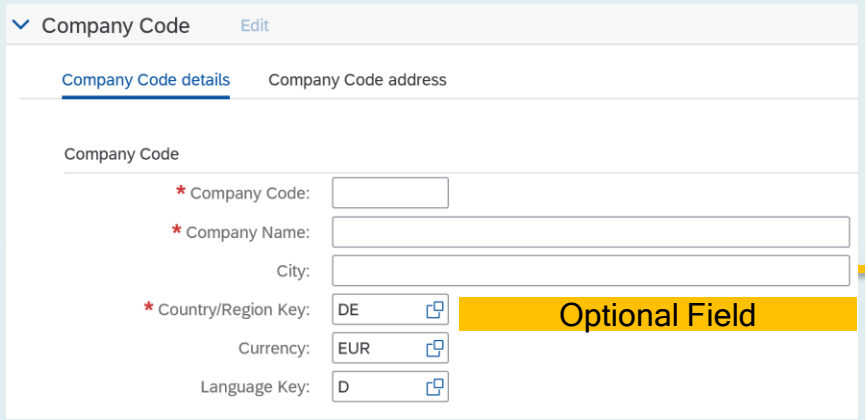
User Interface (UI) Configuration
Maintenance UI: Field Properties

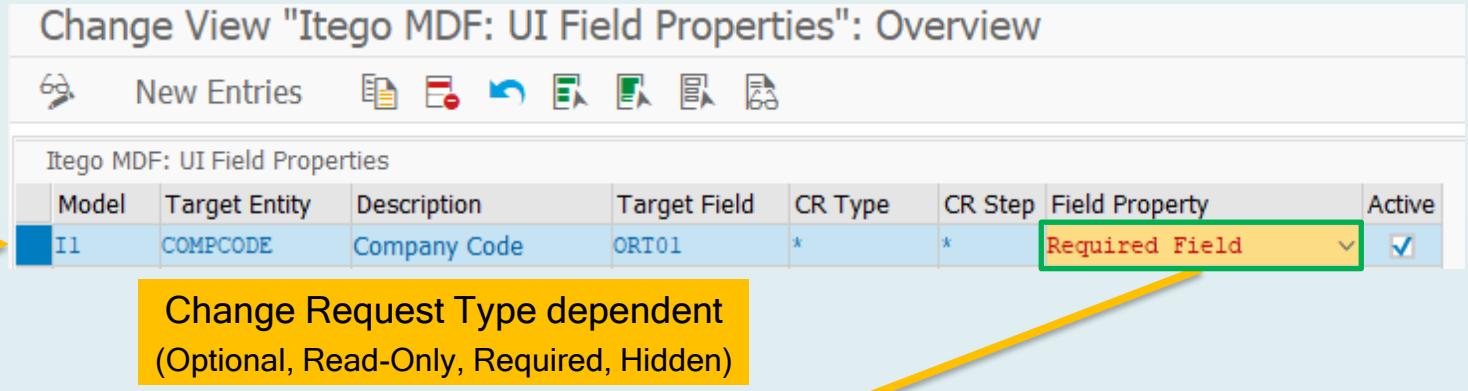
Rule Configuration
(Validations, Derivations)

User Interface (UI) Configuration
Search UI: Search Attributes and Result List

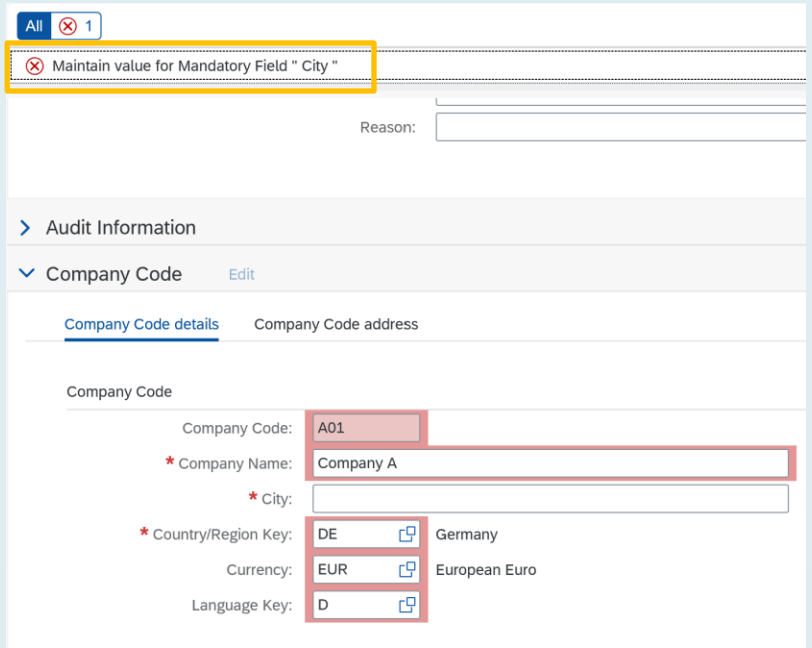
Itego Master Data Framework

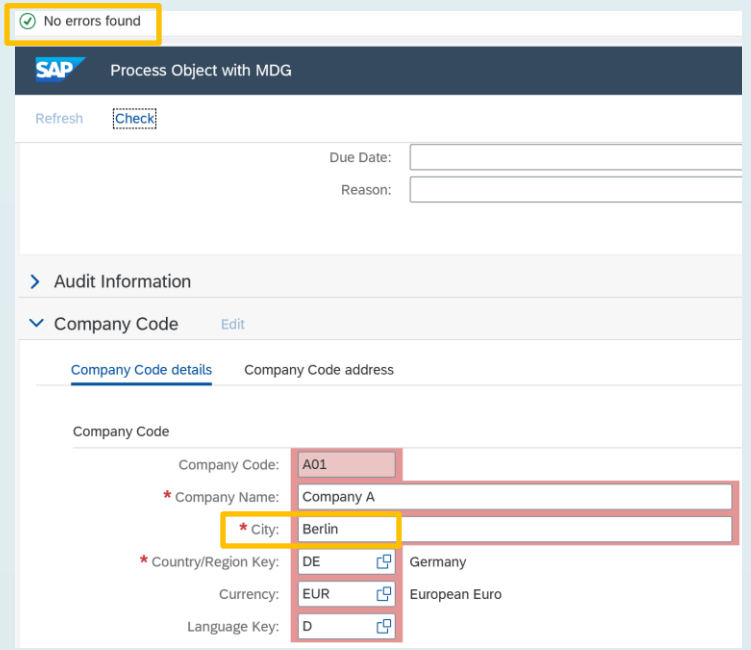
Example 1: Company Code - User Interface Configuration





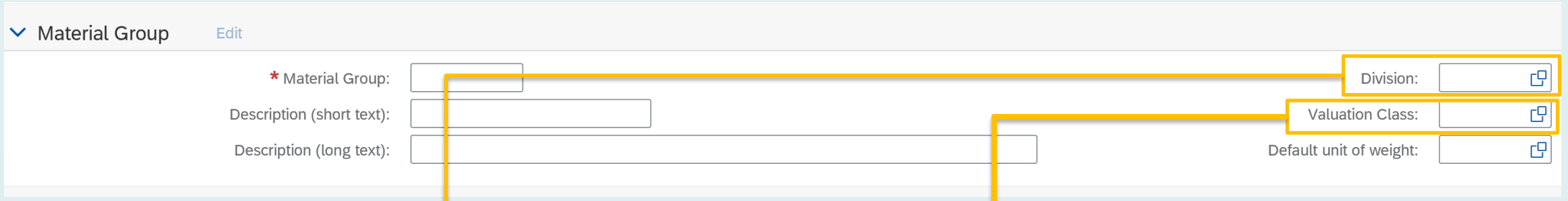
Change Request Type dependent
(Optional, Read-Only, Required, Hidden)





Itego Master Data Framework

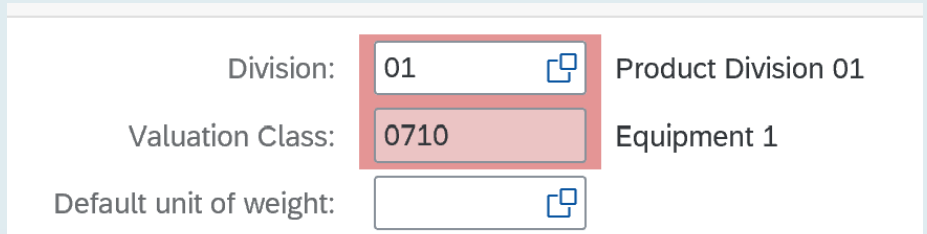
Example 2: Rule Configuration - Derivation

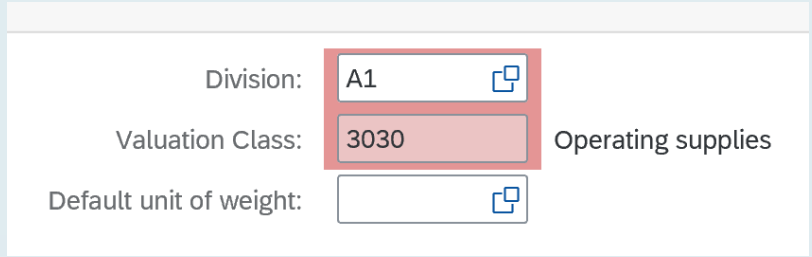


Source Field(s) dependent
(Derivation for Target Field)

Itego MDF: Define Values for Sources and Target

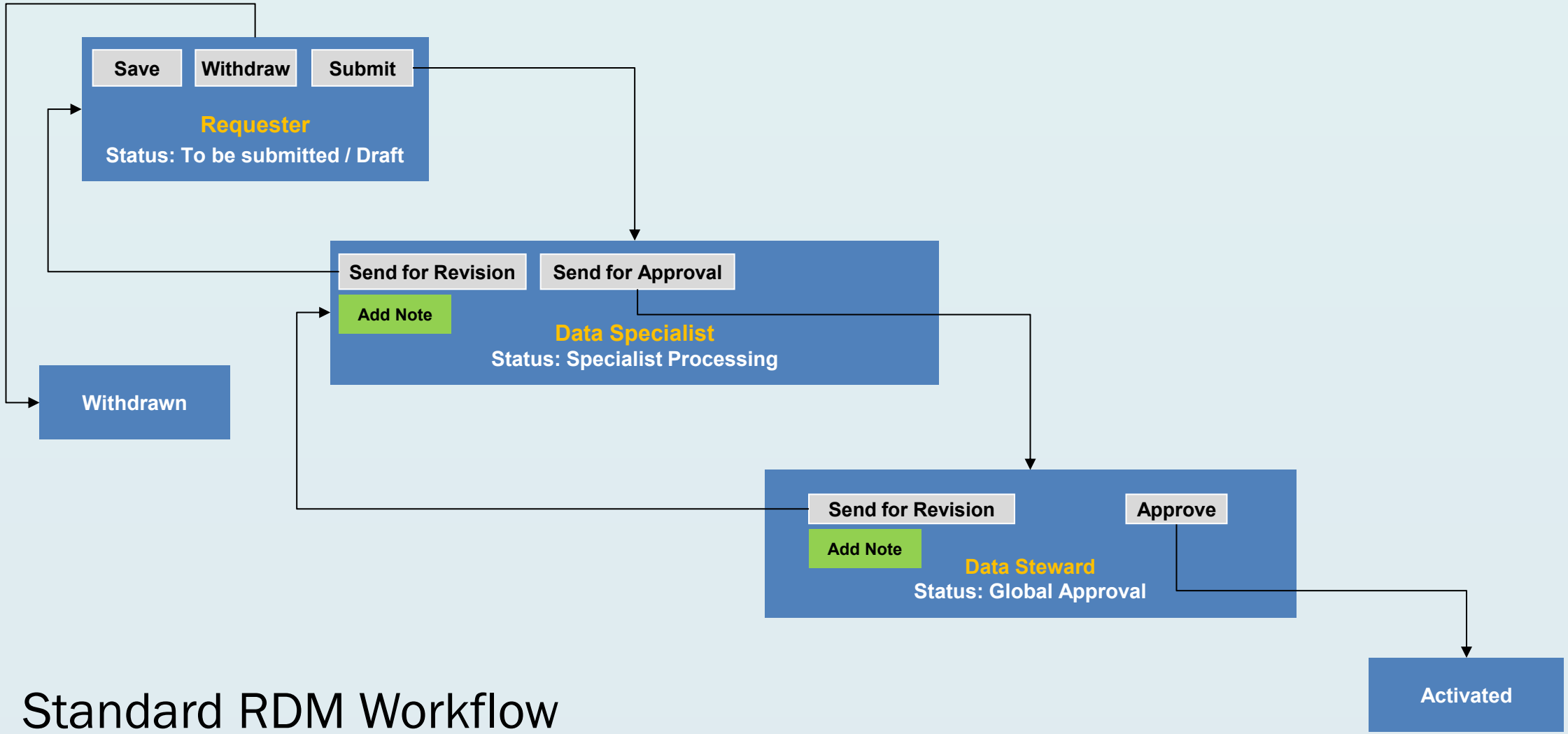
Model	Target Entity	Description	Target Field	Rule ID	Counter	Source1 from	Source1 to	Source2 ...	Source2 to	Source3 ...	Source3 to	Target Value from	Target Value to	Active	Message ...	Msg...	Type
I1	MATKL	Material Group	BKLAS	0001	1	01						0710		☑			
I1	MATKL	Material Group	BKLAS	0001	2	A1						3030		☑			





Itego Master Data Framework & SAP MDG Appl. Framework

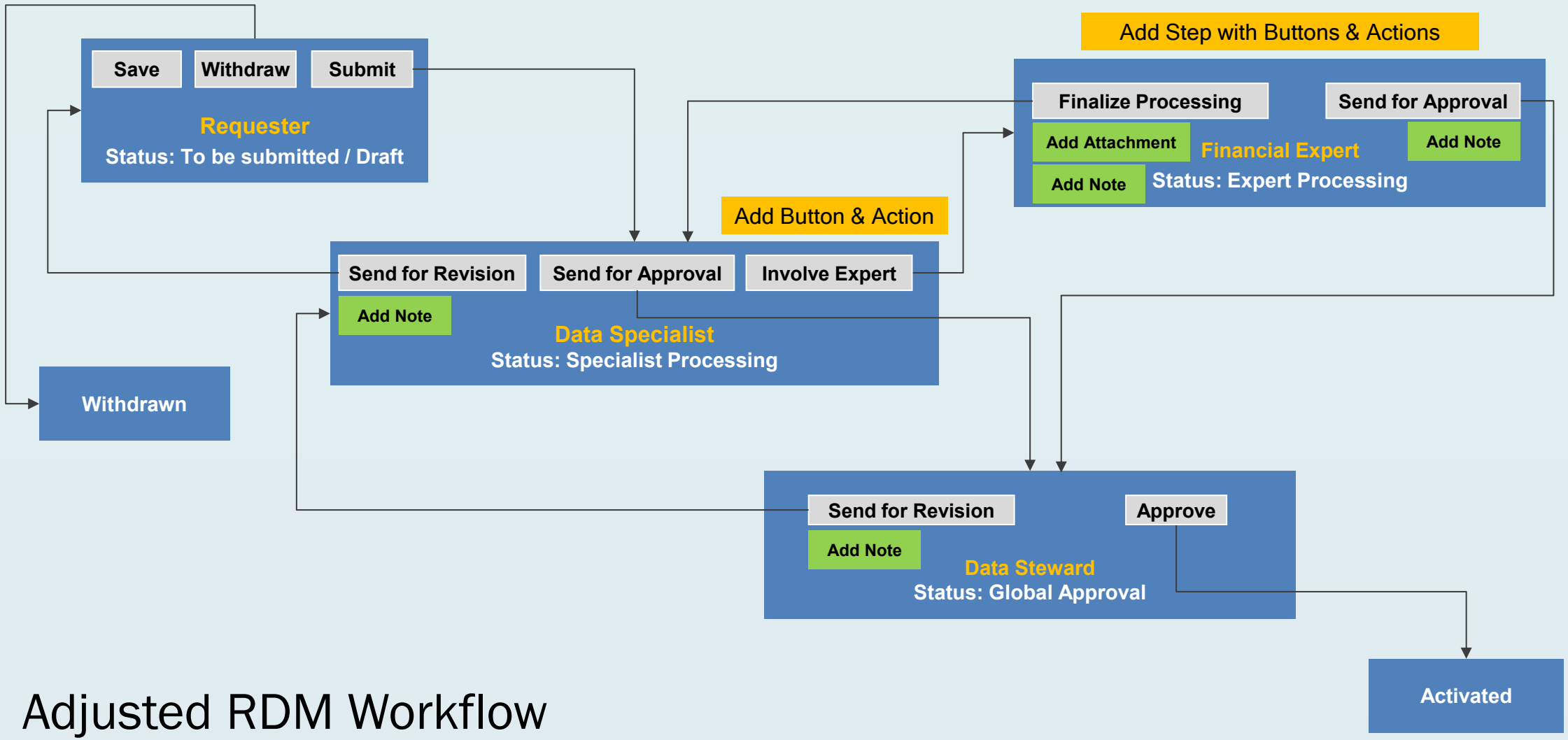
Workflow Configuration



Standard RDM Workflow

Itego Master Data Framework & SAP MDG Appl. Framework

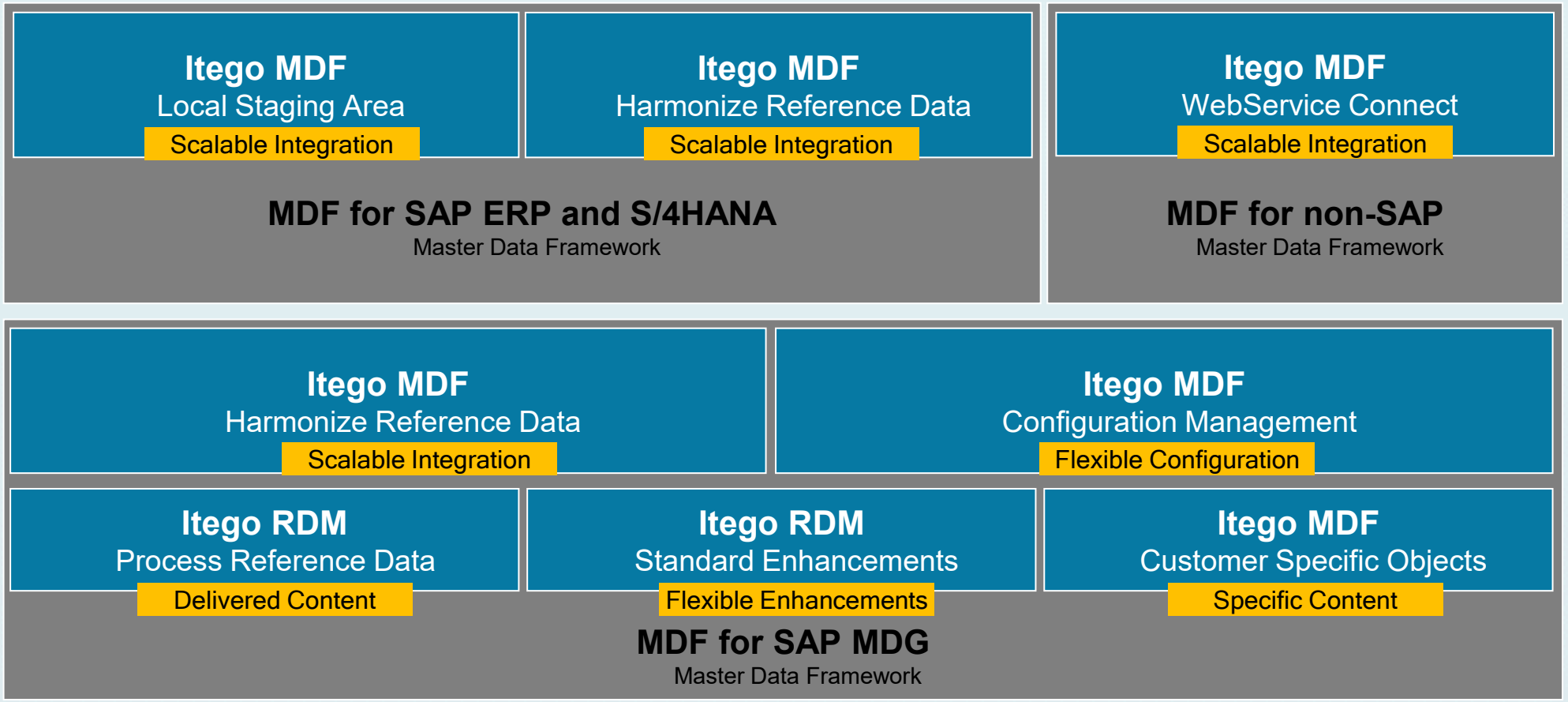
Workflow Configuration



Adjusted RDM Workflow

Itego Master Data Framework

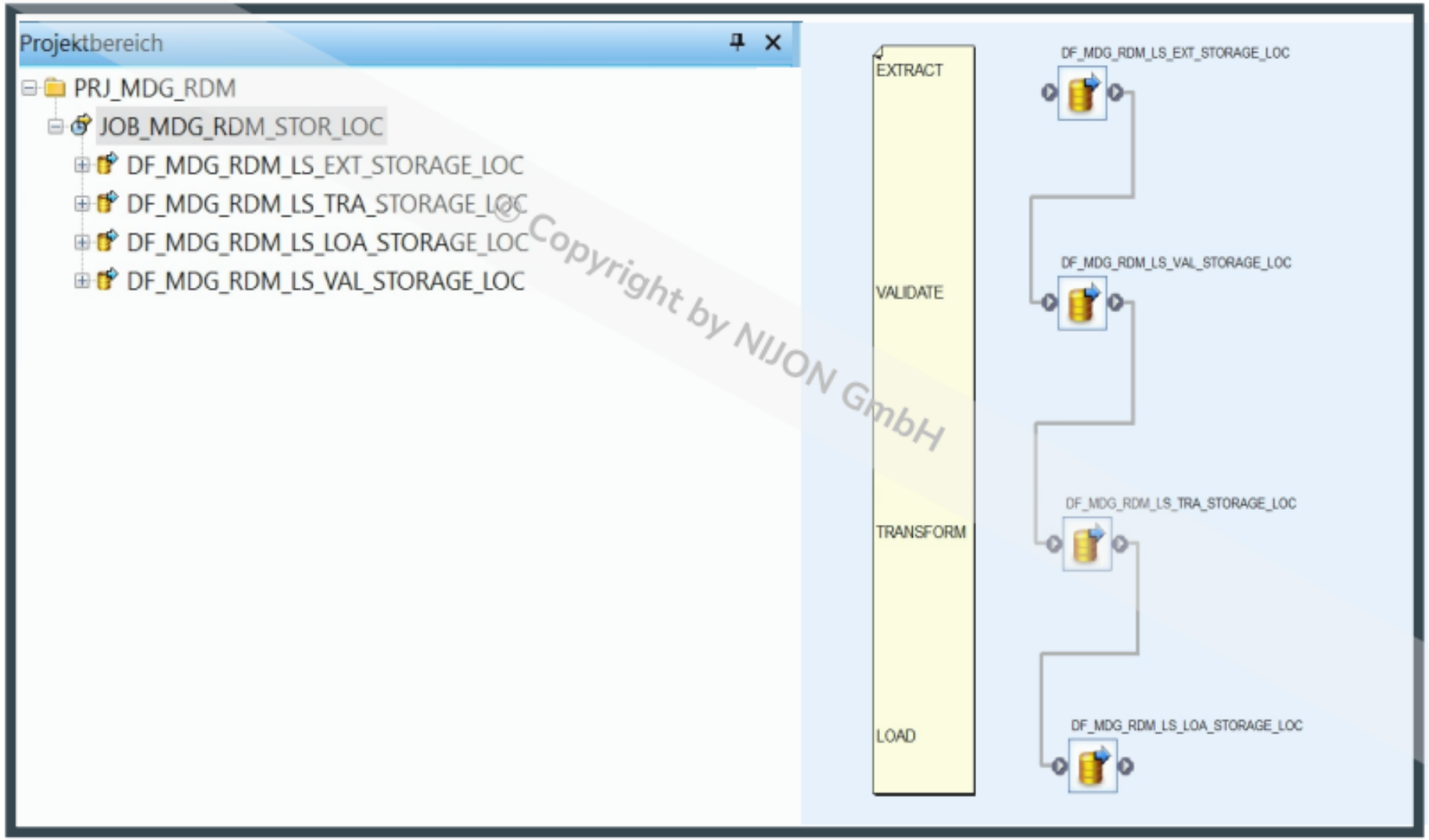
Summary



Enabling Itego
- Deliver unmatched content
- Deliver new content at unmatched rate / cost

Enabling Customers and Partners
- Enhance and integrate with maximized flexibility
- Grow MDG and RDM scope as needed

SAP DS: Initial Load Storage Location



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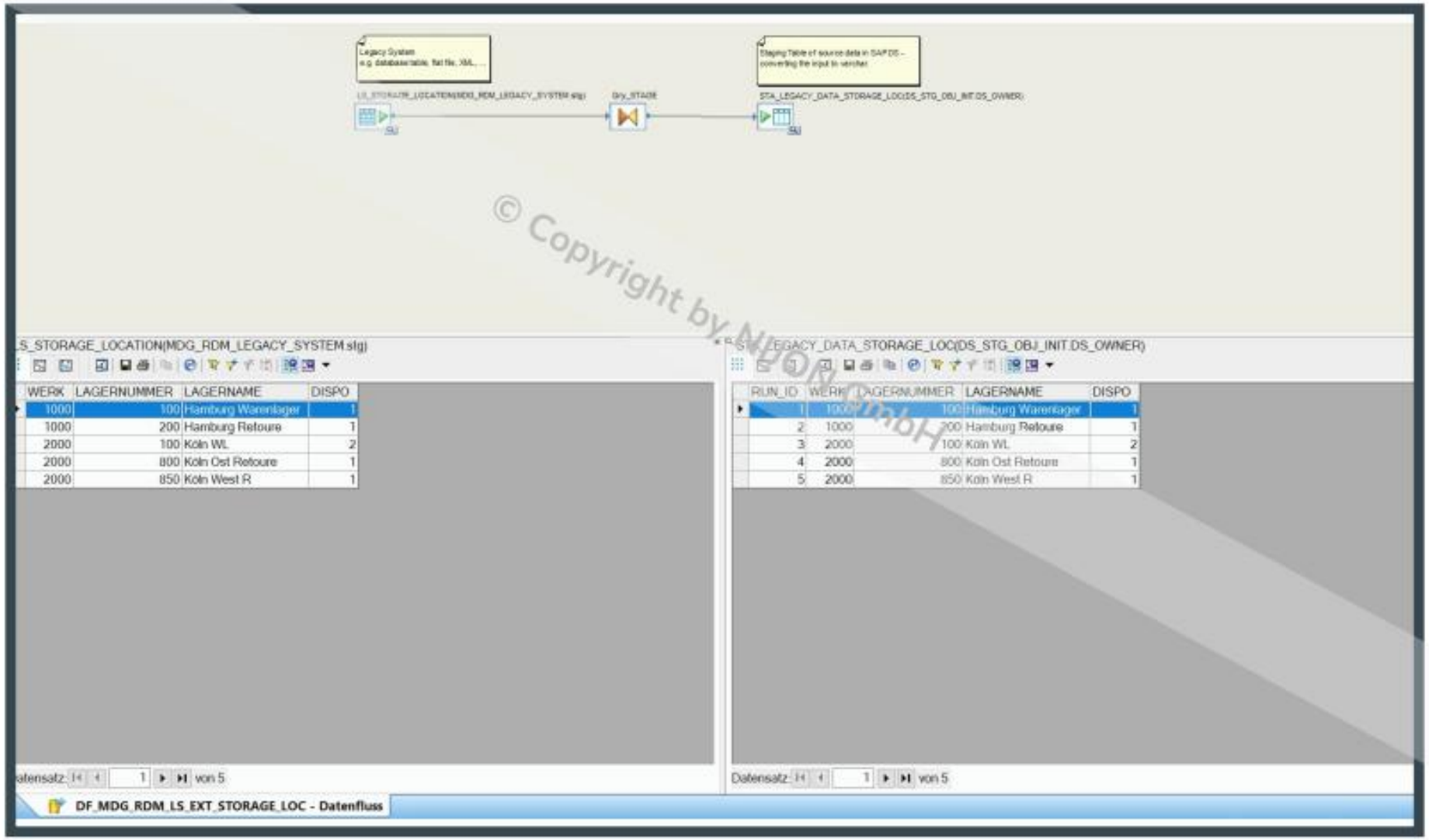
SAP DS: Extraction



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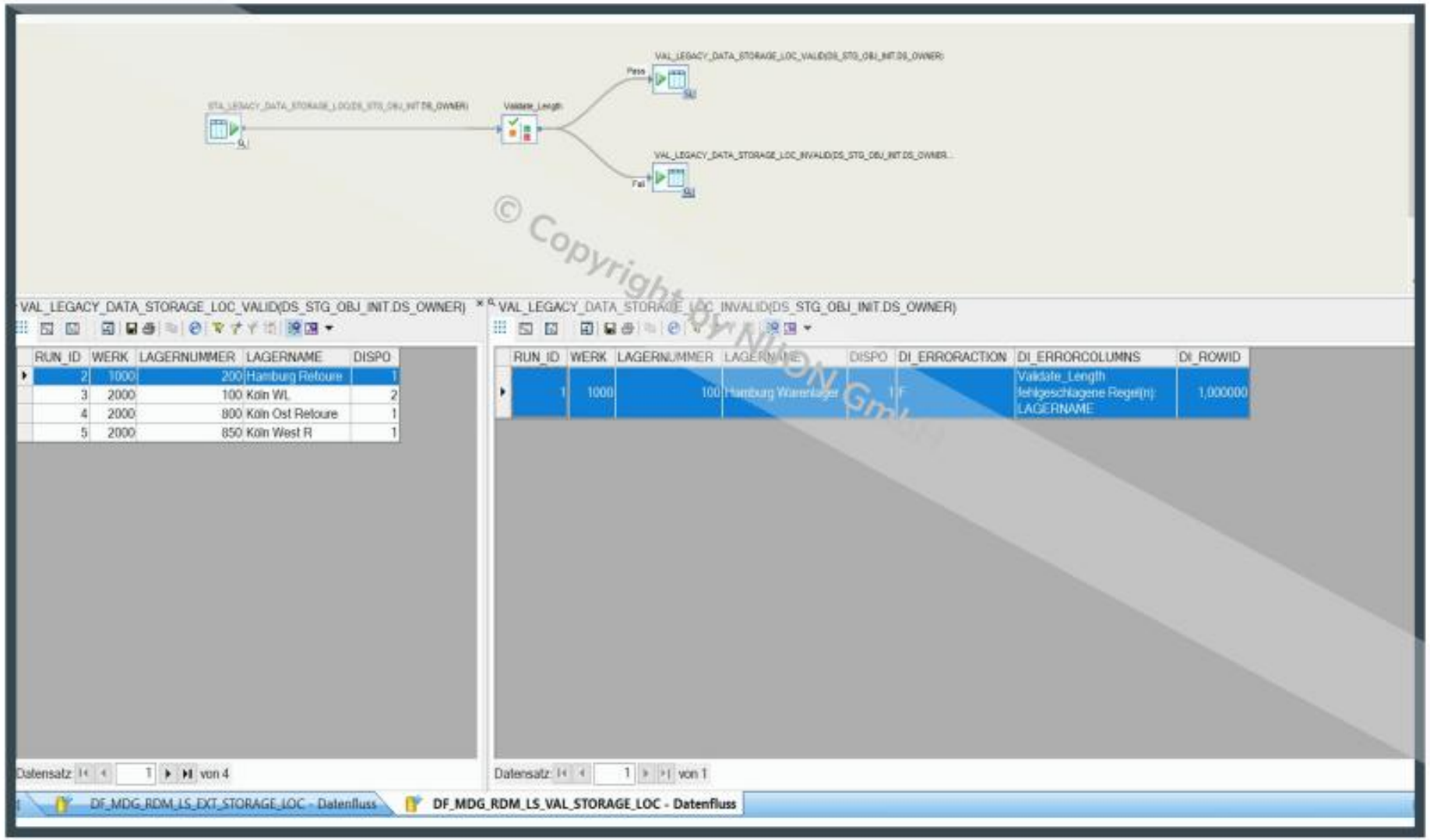
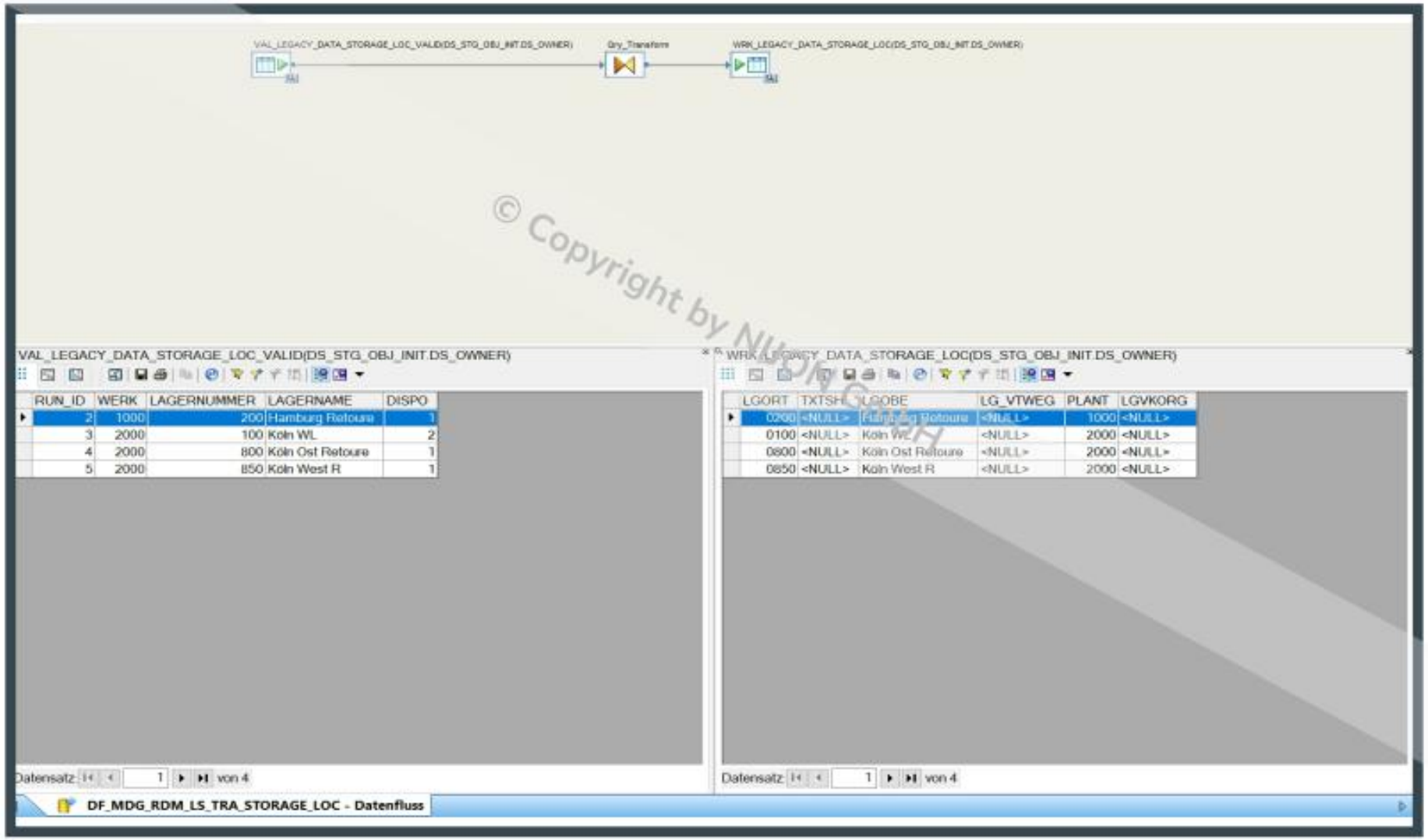
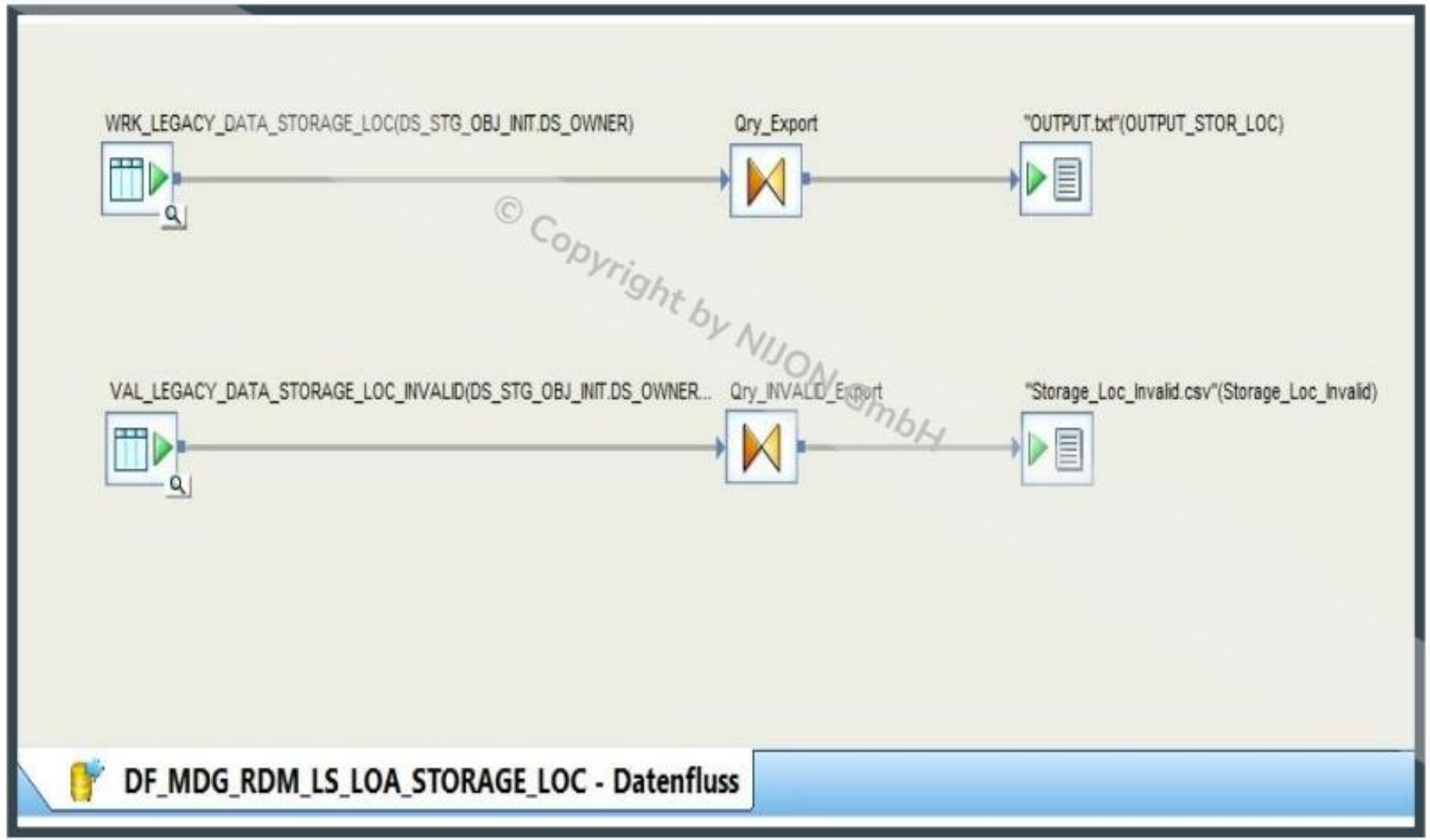
SAP DS: Validation



SAP DS: Transformation



SAP DS: Loading



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