

A man with a beard, wearing a white button-down shirt, is smiling and talking on a mobile phone. He is in an office environment with blurred windows and doors in the background.

Itego

SAP

Reference Data Management (RDM) for SAP MDG

Why companies need it and how they use it

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WHY

companies need it

What is reference data?

Definition

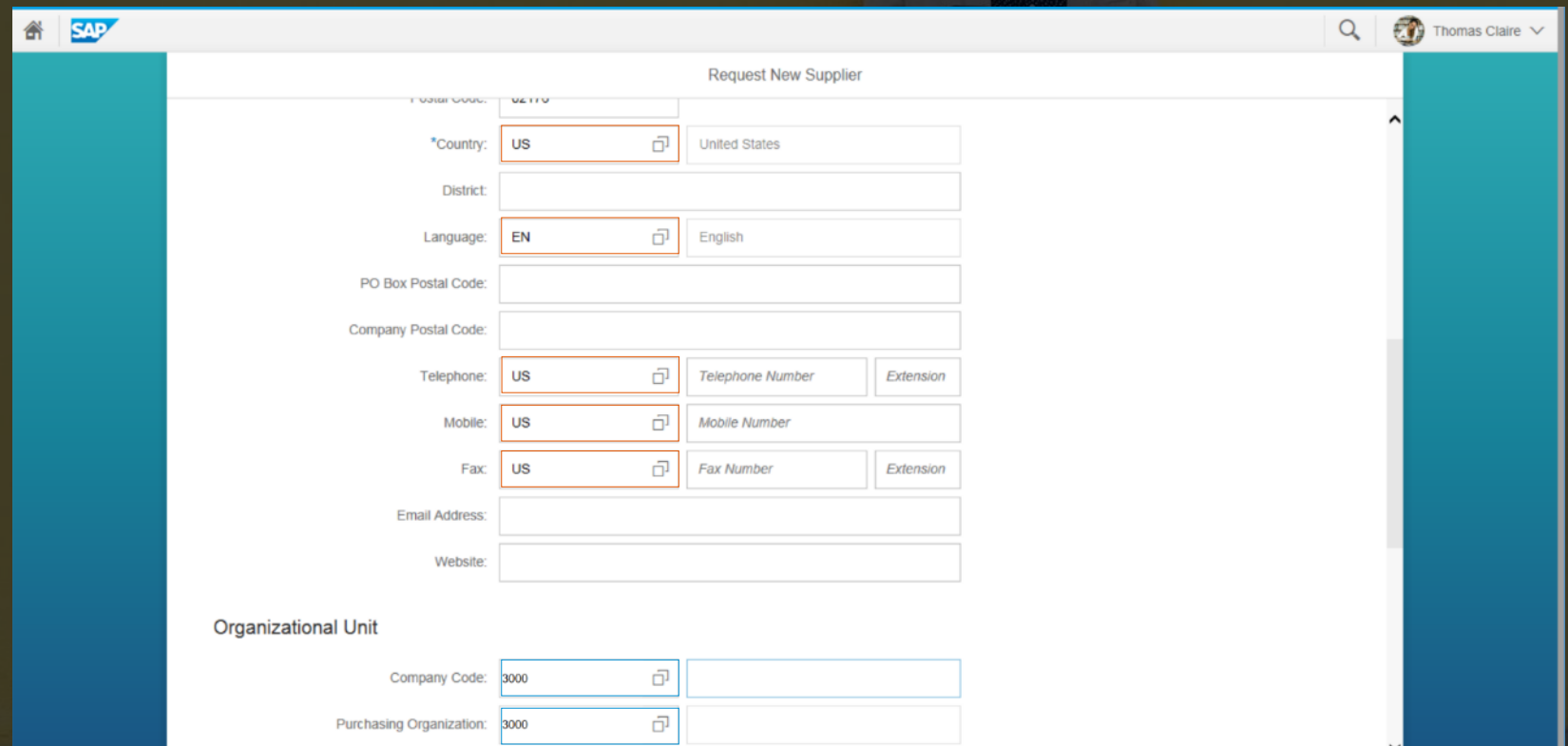
Reference data are data that define the set of permissible values to be used by other data fields (source Wikipedia)

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



The screenshot shows the SAP 'Request New Supplier' form. The form is titled 'Request New Supplier' and is displayed in a SAP Fiori interface. The user's name 'Thomas Claire' is visible in the top right corner. The form contains several fields for reference data, with some fields highlighted by orange boxes:

- Country:** US (United States)
- Language:** EN (English)
- Telephone:** US (Telephone Number, Extension)
- Mobile:** US (Mobile Number)
- Fax:** US (Fax Number, Extension)
- Company Code:** 3000
- Purchasing Organization:** 3000

The form also includes fields for District, PO Box Postal Code, Company Postal Code, Email Address, and Website. The 'Organizational Unit' section is visible at the bottom of the form.

Itego Reference Data Management

What and Why? Data with High Impact

Low Frequency of change
but high impact!

FREQUENCY OF CHANGE



Reference data



Master data



Conditional master data



Transaction data



Reporting



Logs

Examples

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

DEGREE OF SHARING

Source: SAP

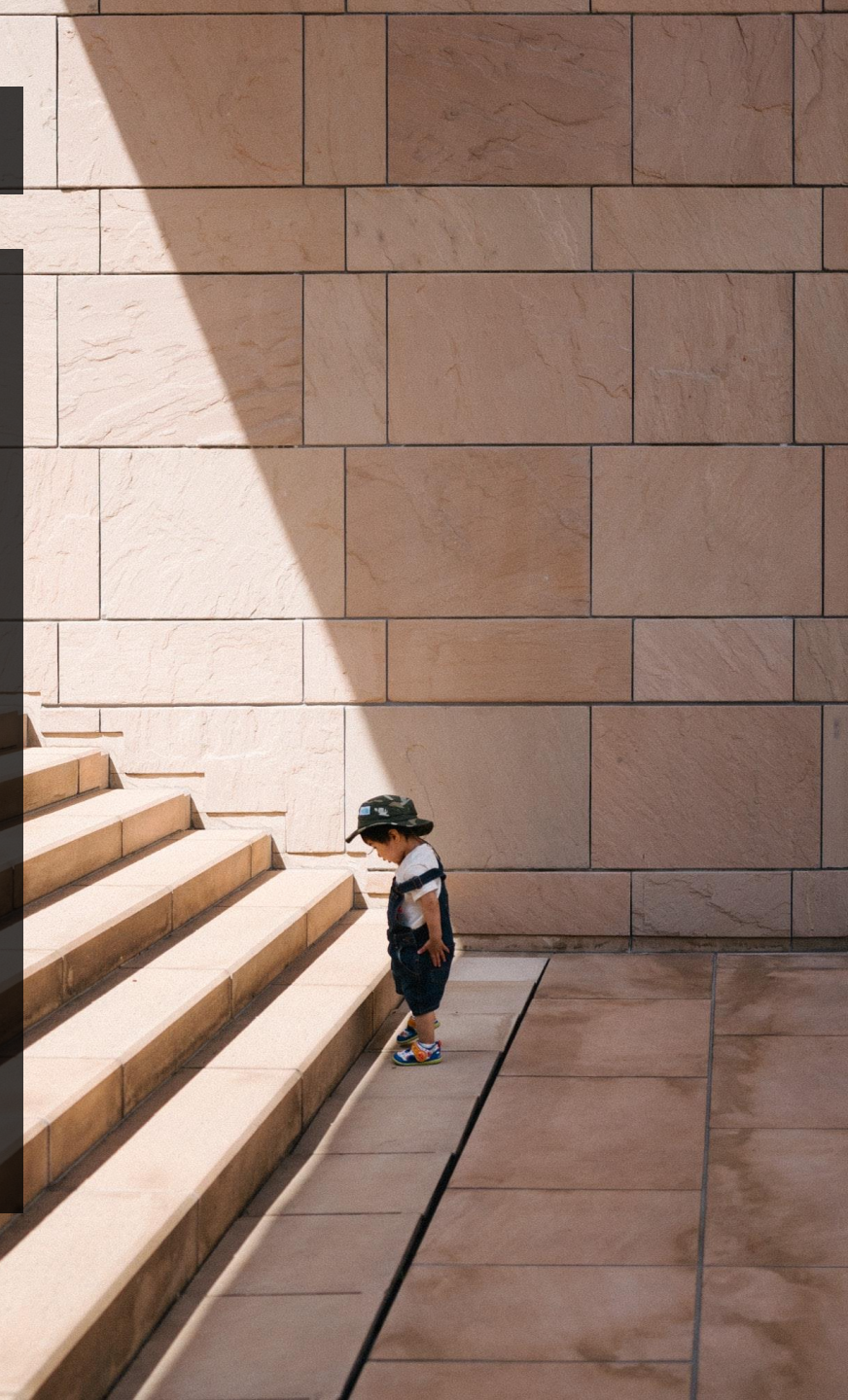
Itego RDM – Customer Feedback

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

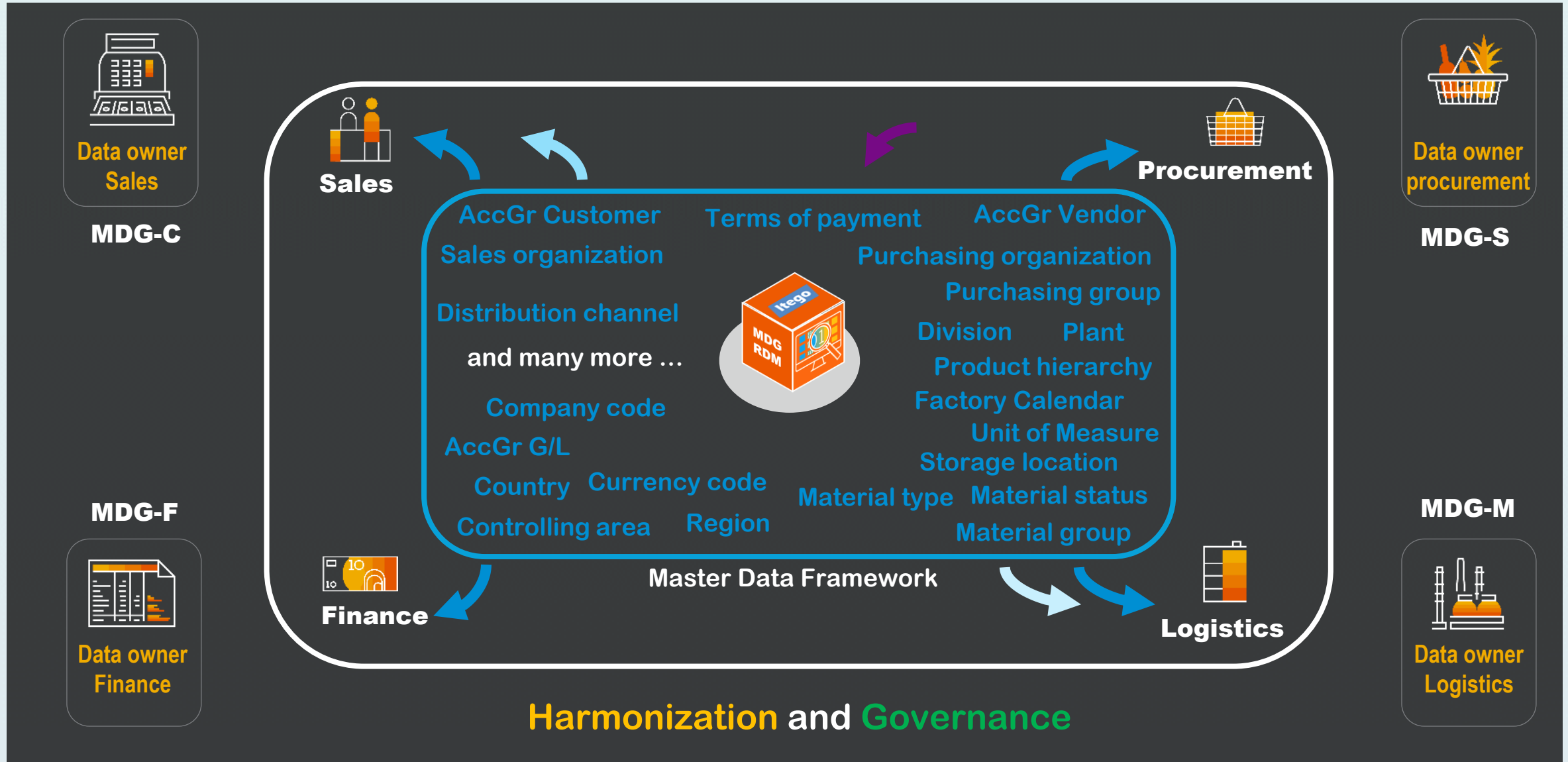
Harmonization



Governance

Itego Reference Data Management

Creating and keeping the Single Source of Truth



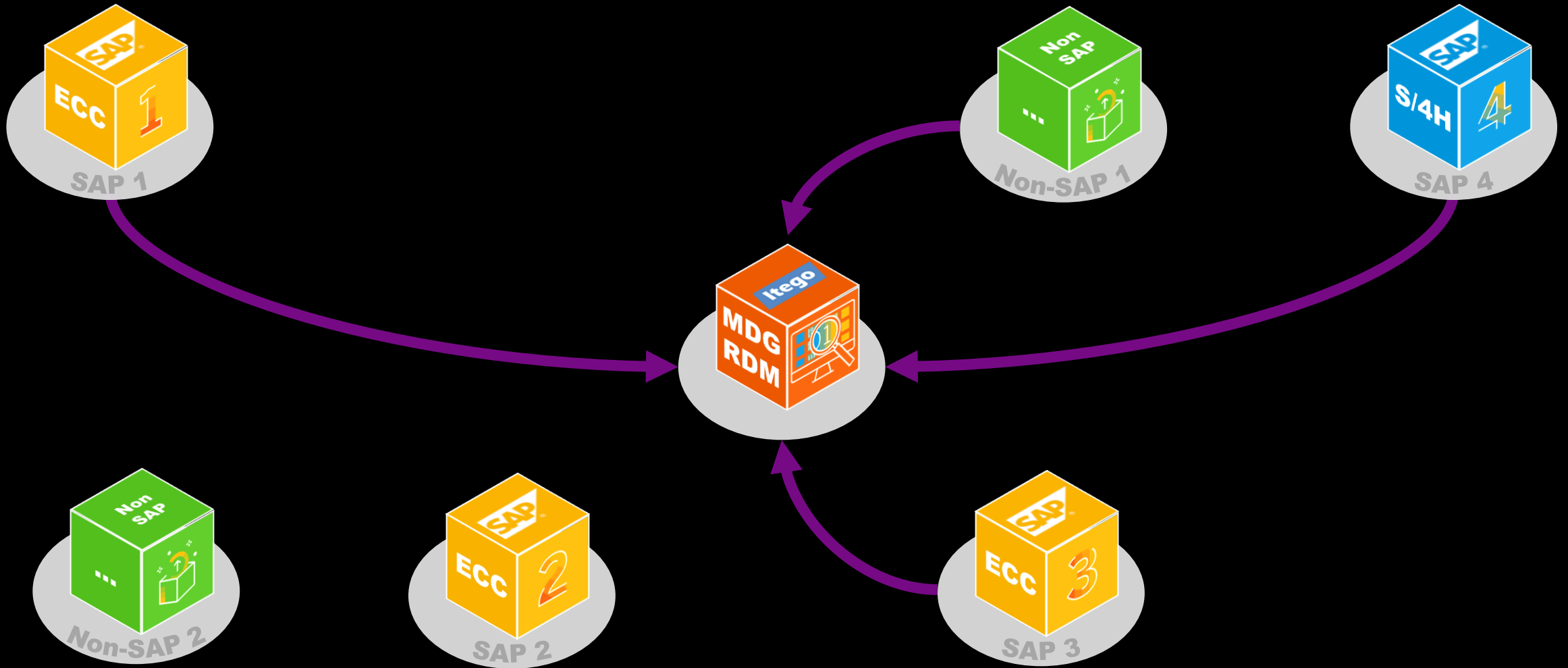


HOW

RDM Harmonization

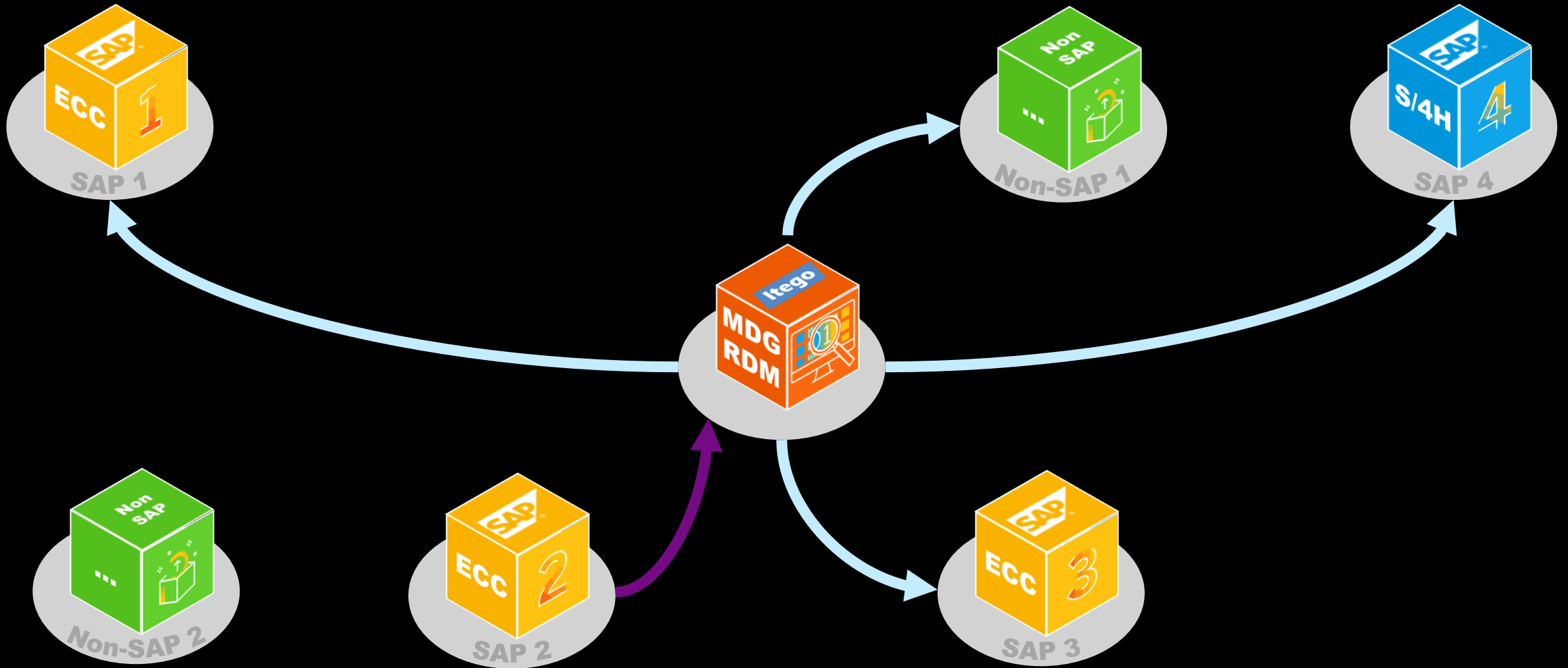
Itego Reference Data Harmonization

Step 1: Consolidation



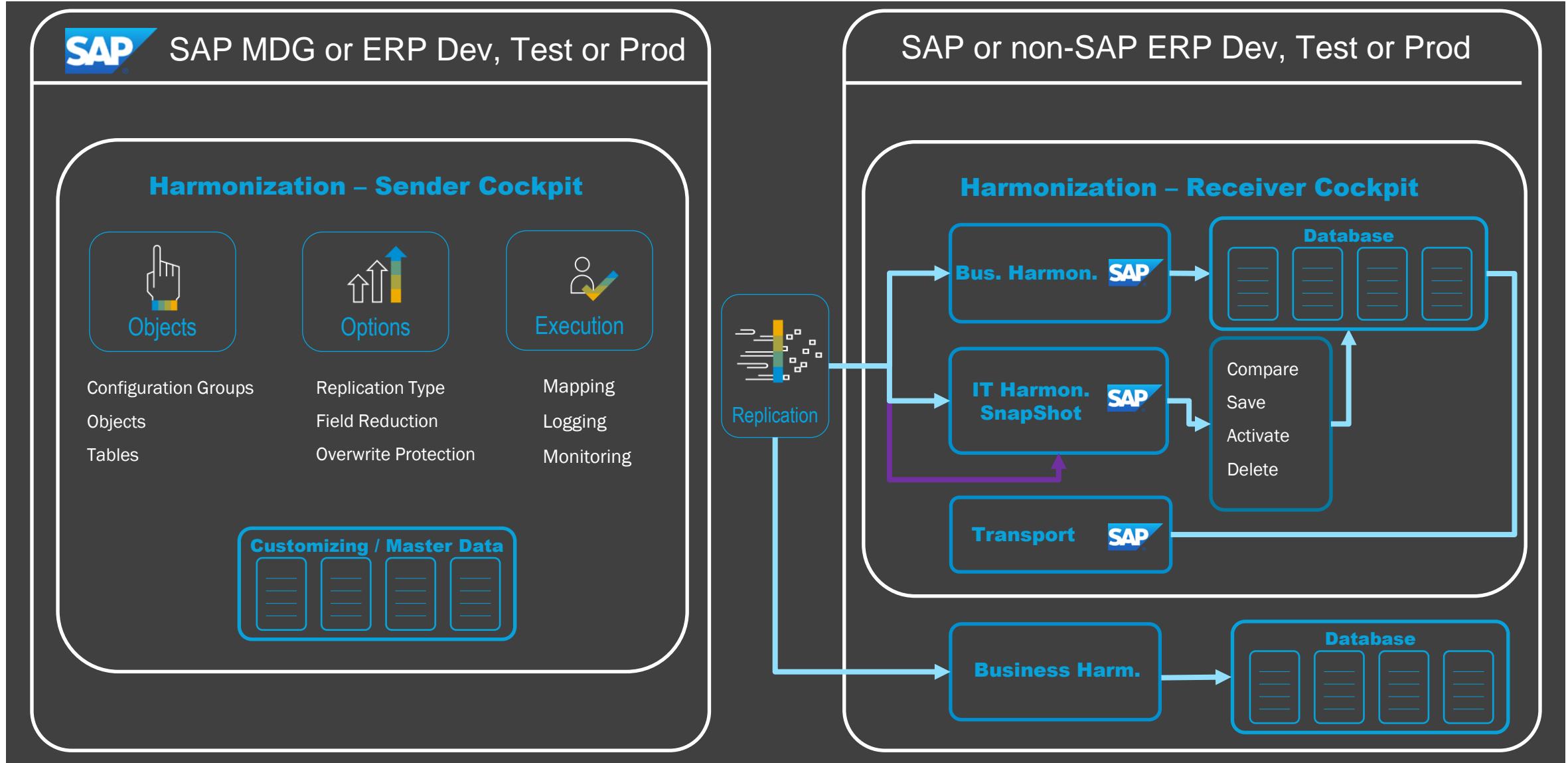
Itego Reference Data Harmonization

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	i
Business Objects	Recreate Foreign Keys	

Send and Activate

Send	Monitoring	i
Activation	Logging	

Settings

Field Reduction	Field Reduction	i
Overwrite Protection		

RefData Harmonization - Groups

Configuration G...	Configuration Group Text
<input type="checkbox"/> FUNCTIONAREA	Functional Area
<input checked="" type="checkbox"/> SAP-MDGF	MDG-F Customizing Sync

RefData Harmonization - Objects

Configuration G...	Table Name	Object key
<input type="checkbox"/> SAP-MDGF	FAGL_SEG	100*
<input type="checkbox"/> SAP-MDGF	FAGL_SEG	100*
<input type="checkbox"/> SAP-MDGF	J_1AINFMET	100*
<input type="checkbox"/> SAP-MDGF	J_1AINFMTX	100*
<input type="checkbox"/> SAP-MDGF	J_1AINFSKS	100*
<input type="checkbox"/> SAP-MDGF	SKM1	100*
<input type="checkbox"/> SAP-MDGF	T001	100*
<input type="checkbox"/> SAP-MDGF	T001S	100*
<input type="checkbox"/> SAP-MDGF	T002	100*
<input type="checkbox"/> SAP-MDGF	T003	100*
<input type="checkbox"/> SAP-MDGF	T004	100*
<input type="checkbox"/> SAP-MDGF	T004F	100*
<input type="checkbox"/> SAP-MDGF	T004G	100*
<input type="checkbox"/> SAP-MDGF	T004T	100*
<input type="checkbox"/> SAP-MDGF	T004V	100*
<input type="checkbox"/> SAP-MDGF	T005	100*
<input type="checkbox"/> SAP-MDGF	T005S	100*
<input type="checkbox"/> 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.
<input type="checkbox"/> 106001	03	■	88001	53	IH1400
<input type="checkbox"/> 106002	03	■	39001	53	IR1200
<input checked="" type="checkbox"/> 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
TKA00	42		Control parameters for controlling areas
TKA01	39		Controlling Areas
TKA02	40		Controlling area assignment
TKA00	42		Control parameters for controlling areas
TKA01	39		Controlling Areas
TKA02	39		Controlling area assignment
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

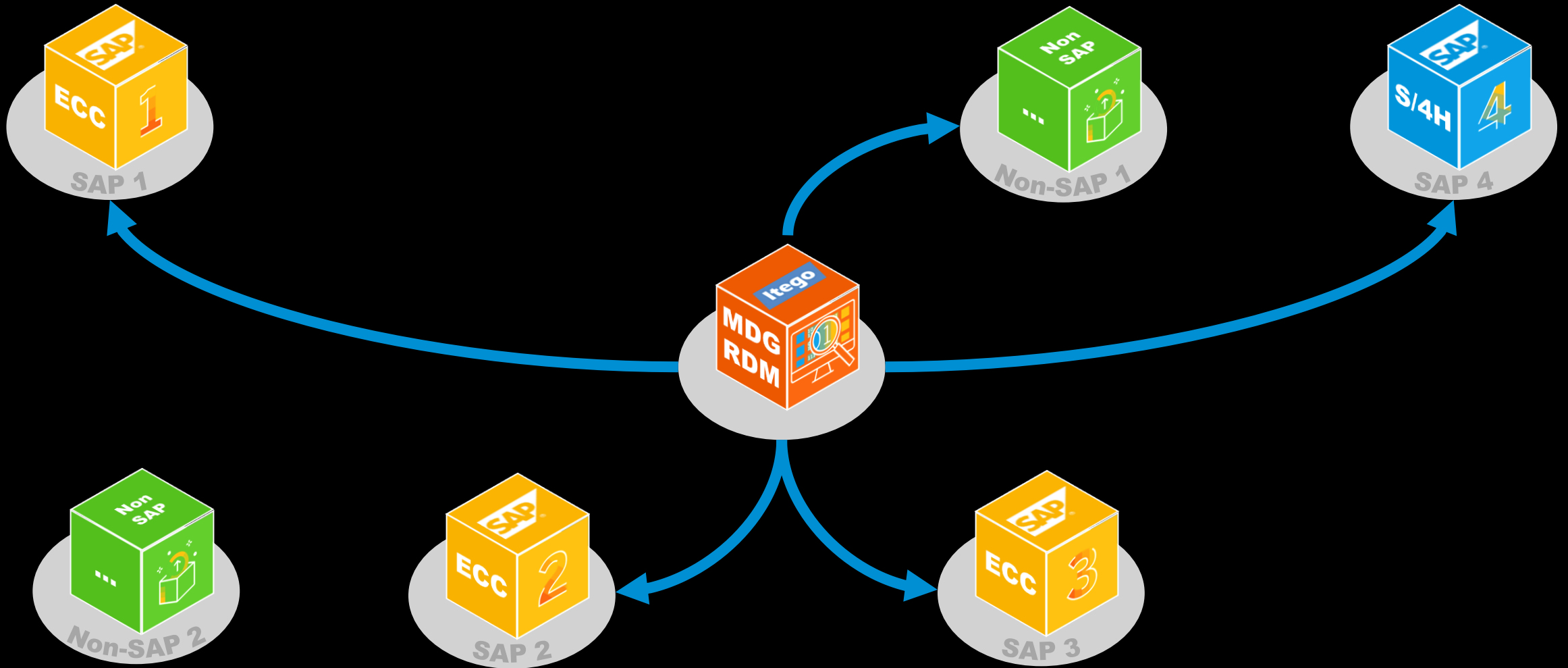
CO Area	Name	Crcy	Chart of Accts	FV
0003	SAP US (is-ht-sw)	USD	INT	K4



HOW
RDM Governance

Itego Reference Data Governance

Workflow Driven Maintenance



Itego Reference Data Governance

Processes for all Objects

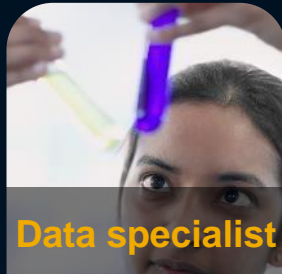
CREATE



Data steward

The data steward creates the data

REQUEST & APPROVE



Data specialist

The data specialist requests and completes the data



Data steward

The request is approved or rejected

REQUEST, PROCESS & APPROVE



Requester

A request for a change in the reference data is made



Data specialist

The data specialist enriches the data setup

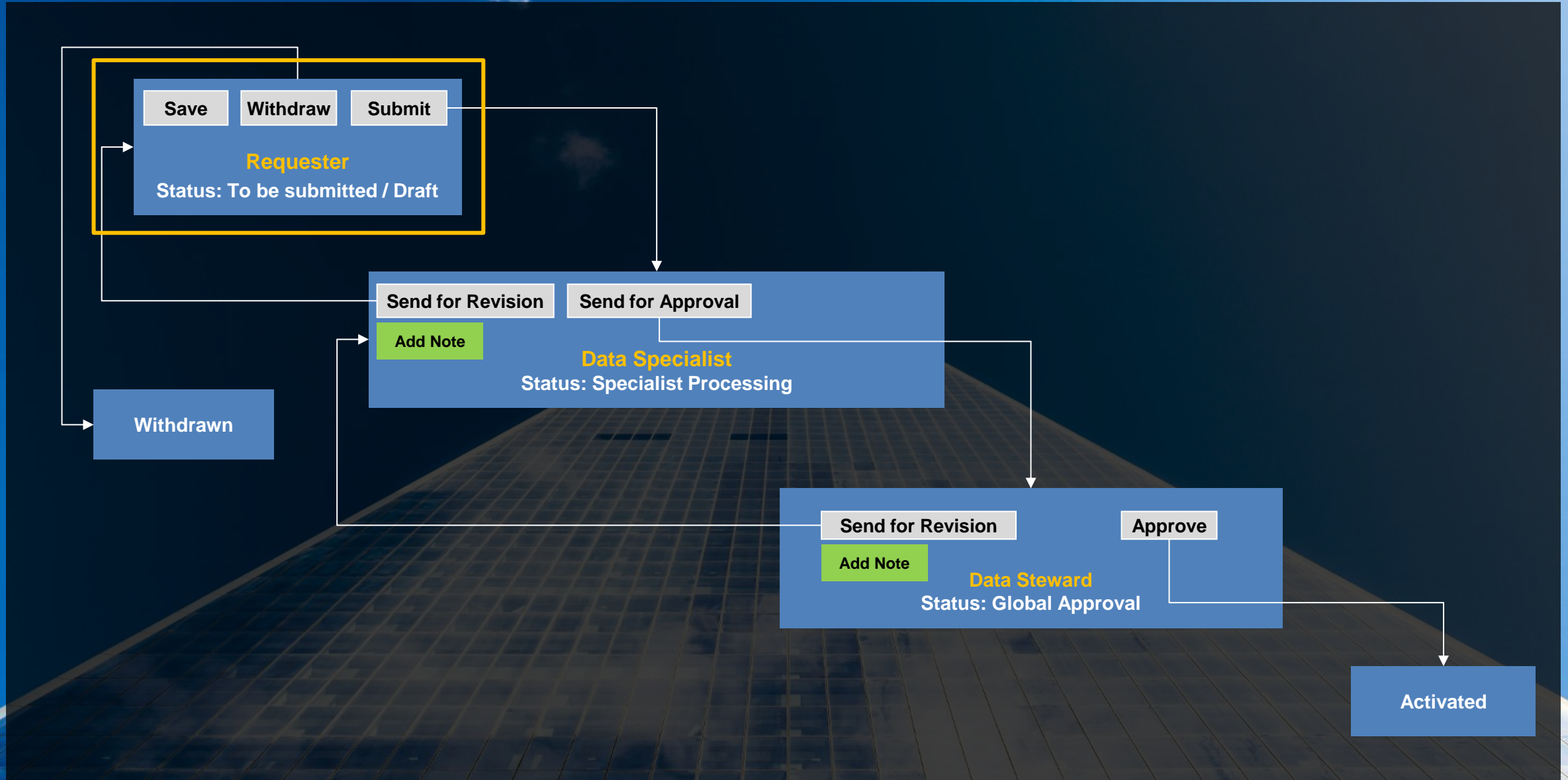


Data steward

The request is approved or rejected

Itego Reference Data Governance

Demo: Workflow Request, Process & Approve



Itego Reference Data Governance

Demo: Short Overview

The screenshot displays the SAP Itego Reference Data Governance interface. At the top left is the SAP logo and a 'Home' dropdown menu. To the right are search, help, and notification icons. Below the navigation bar, the 'My Home' section is active, with 'Reference Data Governance' selected. The main content area is divided into two sections:

- Financials**
 - Change Requests and Documents**
 - Change Requests Inbox
 - My Change Request
 - Display Change Requests
 - Display Change Documents
- Objects**
 - Business Area Search & Create
 - Chart Of Accounts Search & Create
 - Company Code Search & Create
 - Controlling Area Search & Create
 - Customer Account Group Search & Create
 - Document Type Search & Create
 - Exchange Rates Search & Create
 - Functional Area Search & Create
 - G/L Account Group Search & Create
 - Operating Concern Search & Create
 - Tax Code Search & Create
 - Valuation Class Search & Create
 - Vendor Account Group Search & Create
 - Scope of Planning Search & Create
 - Currency Key Search & Create


Itego Reference Data Governance

Demo: Select or Search for Country Governance


The screenshot displays the SAP Itego Reference Data Governance user interface. At the top left, the SAP logo is visible next to a 'Home' dropdown menu. Below this, there are navigation tabs for 'My Home' and 'Reference Data Governance'. A dropdown menu is open under 'Reference Data Governance', listing several categories: Financials, Logistics, Sales and Distribution, Purchasing, Human Resources, General Settings (highlighted with a blue bar), and Classification. The main content area is divided into sections: 'General Settings' (partially visible), 'Change Requests' (with sub-tiles for 'Change Requests Inbox', 'Display Change Requests', and 'Display Change Documents'), 'Objects' (with three tiles: 'Country Search & Create' (highlighted with an orange border), 'Language key Search & Create', and 'Regions Search & Create'), and 'Processing of Multiple Objects' (with 'File Download' and 'File Upload' tiles).


Itego Reference Data Governance




Demo: Search Country and Change



 Search: Country ▾



Search Method:

▼ Search Criteria Saved Searches: 



Search Term: 

Country/Region Key ▾ equal to ▾ Value   

Description (short text) ▾ equal to ▾ G*  

Description (long text) ▾ equal to ▾ Value  

Maximum Number of Results:

Save Search As:  

Result List: 16 records found

<input type="checkbox"/>	Pending ...	Country/Region Key	Description (short text)	Description (long text)	ISO Code	ISO Code 3 Charact...	ISO Code Numeri...
<input type="checkbox"/>		DE	Germany	Germany	DE	DEU	276
<input type="checkbox"/>		GA	Gabon	Gabon	GA	GAB	266
<input type="checkbox"/>		GD	Grenada	Grenada	GD	GRD	308
<input type="checkbox"/>		GE	Georgia	Georgia	GE	GEO	268
<input type="checkbox"/>		GG	Guernsey	Guernsey	GG	GGY	831
<input type="checkbox"/>		GH	Ghana	Ghana	GH	GHA	288
<input type="checkbox"/>		GI	Gibraltar	Gibraltar	GI	GIB	292
<input type="checkbox"/>		GL	Greenland	Greenland	GL	GRL	304
<input type="checkbox"/>		GM	Gambia	Gambia	GM	GMB	270
<input type="checkbox"/>		GN	Guinea	Guinea	GN	GIN	324

Itego Reference Data Governance

Demo: Audit / Highlighting / Descriptions / Meta Data (Attachments)

SAP Process Object with MDG

Refresh Check Change Documents

Undo Redo

Audit Information

Created On:	17.01.2024 15:47:30	Created By:	HOEWLERD	HOEWLERD
Changed On:	19.05.2025 16:27:22	Changed By:	IT_ALL_15	IT_ALL_15
Approved On:	31.01.2025 10:08:03	Approved By User:	VICKN	VICKN

Country

Country/Region Key: DE

General data

Name:	Germany
Long name:	Germany
Nationality:	German
Nationality (Long):	German
Vehicle Ctry/Reg Key:	D
Index-Based Currency:	
Language Key:	
Hard Currency:	EUR

Attributes

ISO Code:	DE	EU Member:	<input type="checkbox"/>
ISO Code 3 Characters:	DEU	Net Discount Base:	<input type="checkbox"/>
ISO Code Numeric 3-Chars.:	276	Capital Goods Ind.:	<input type="checkbox"/>
Procedure:	TAXD	Net Tax base:	<input type="checkbox"/>
Trade Stat.Short Name:	DEUT		
Intrastat Code:	004		

Date Format and Decimal Format

Decimal Format:	1.234.567,89
Date format:	DD.MM.YYYY (Gregorian Date)
Time Format (12/24h):	

Address Checks

Postal code required:	<input checked="" type="checkbox"/>	City file active:	<input type="checkbox"/>
PO Box postal code:	<input checked="" type="checkbox"/>	Street postcode:	<input type="checkbox"/>
Postal code length:	05	Check rule for postal code:	Length to be kept to ...

Address format

Address layout key:	015	Print C/R Name:	<input type="checkbox"/>
---------------------	-----	-----------------	--------------------------

Country Descriptions

Nationality Descriptions

Actions	Changes	Language Key	Nationality	Nationality (Long)
<input type="checkbox"/>		DE	Deutsch	Deutsch
<input type="checkbox"/>		EN	German	German

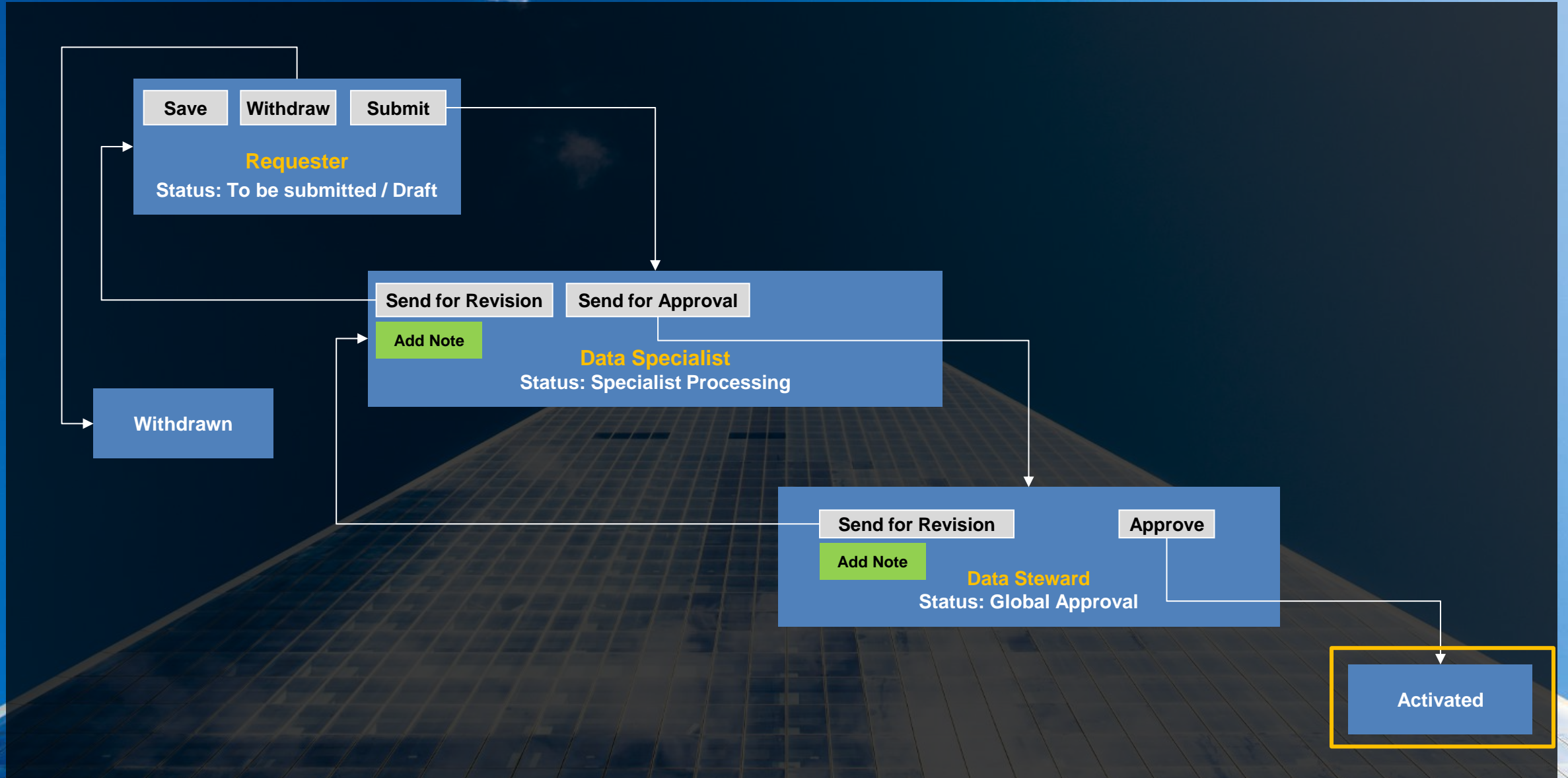
Attachments

Actions	Type	Title	Size
<input type="checkbox"/>		Germany additional information	58 KB

Save Send for Revision Approve Reject Withdraw Cancel

Itego Reference Data Governance

Demo: Workflow Request, Process & Approve



Itego Reference Data Governance

Object Types

Financials, HR, General Settings

Business Area	Chart of Accounts	Company Code	Controlling Area	Customer Acc. Group	Currency
Document Type	Exchange Rate	Functional Area	Gen.Ledger Acc. Group	Operating Concern	Personnel Area
Tax Code	Valuation Class	Vendor Acc. Group	Country	Region	Language

Logistics and Purchasing

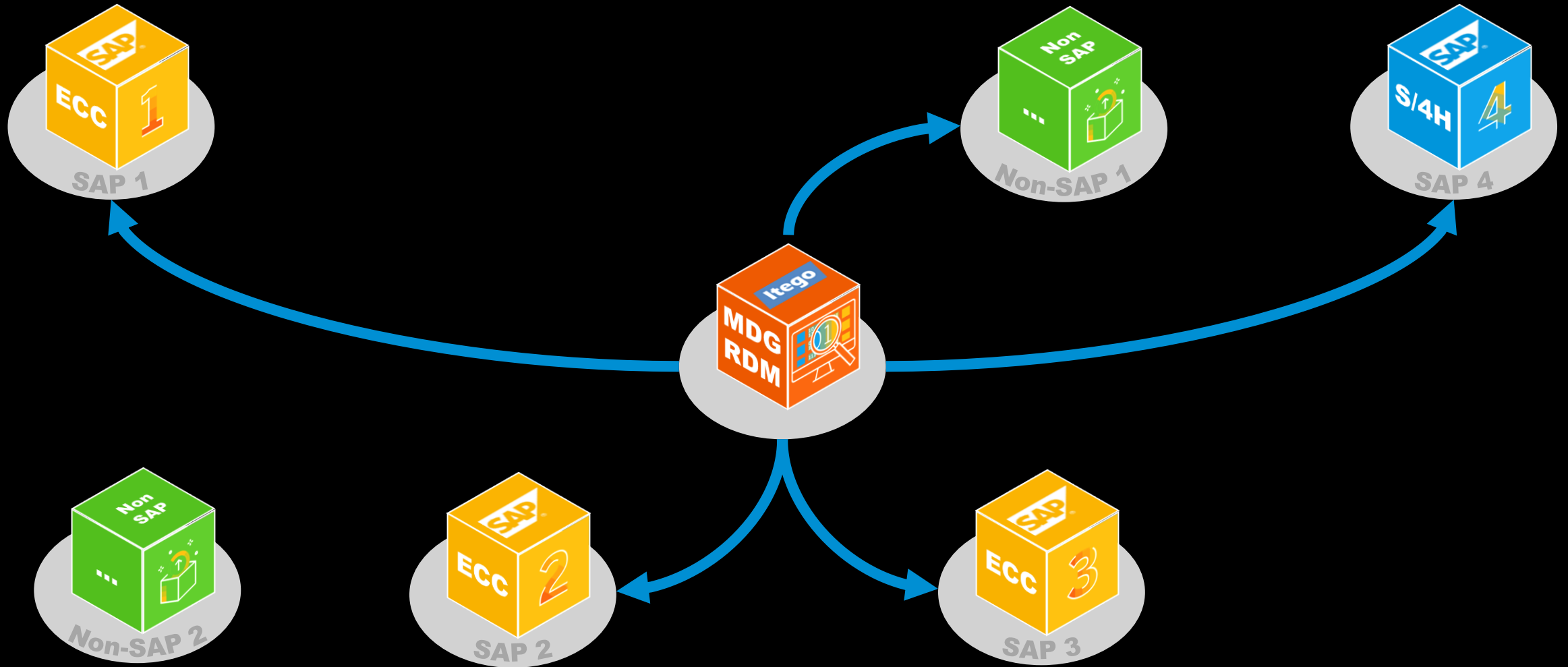
BOM Usage	Division	Factory Calendar	Laboratory/Office
Location	Material Group	Material Status	Material Type
MRP Area	MRP Controller	MRP Profile	MRP Type
Plant	Storage Location	Unit of Measure	Characteristics
Classes	Planning Scope	Purchasing Group	Purchasing Org.

Sales & Distribution, others

Distribution Channel	Incoterms
Payment Terms	Product Hierarchy
Sales Group	Sales Organization
Sales Office	Shipping Conditions
Shipping Type	Holiday Cal & Pub. Hol.

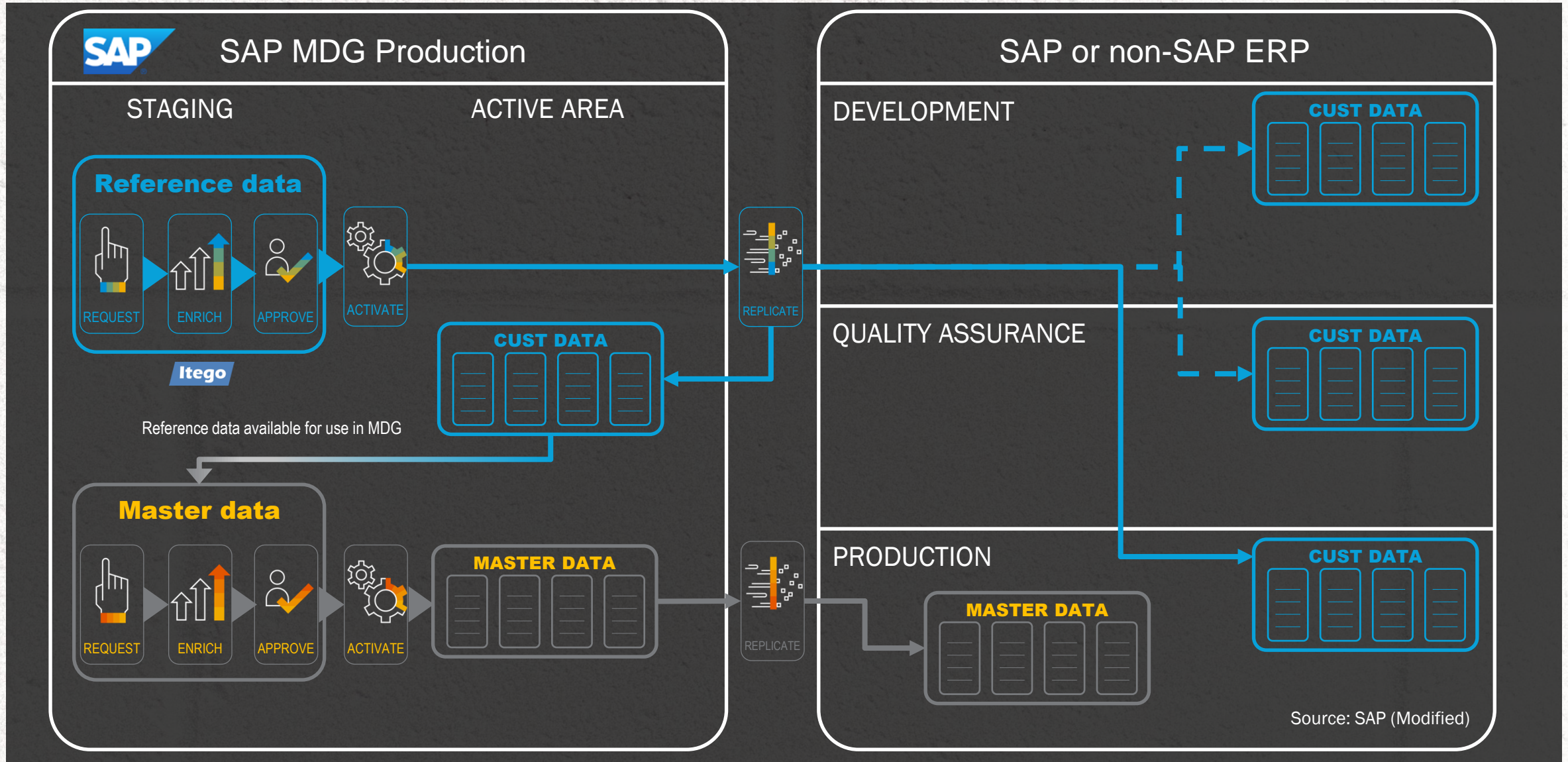
Itego Reference Data Governance

Data Replication



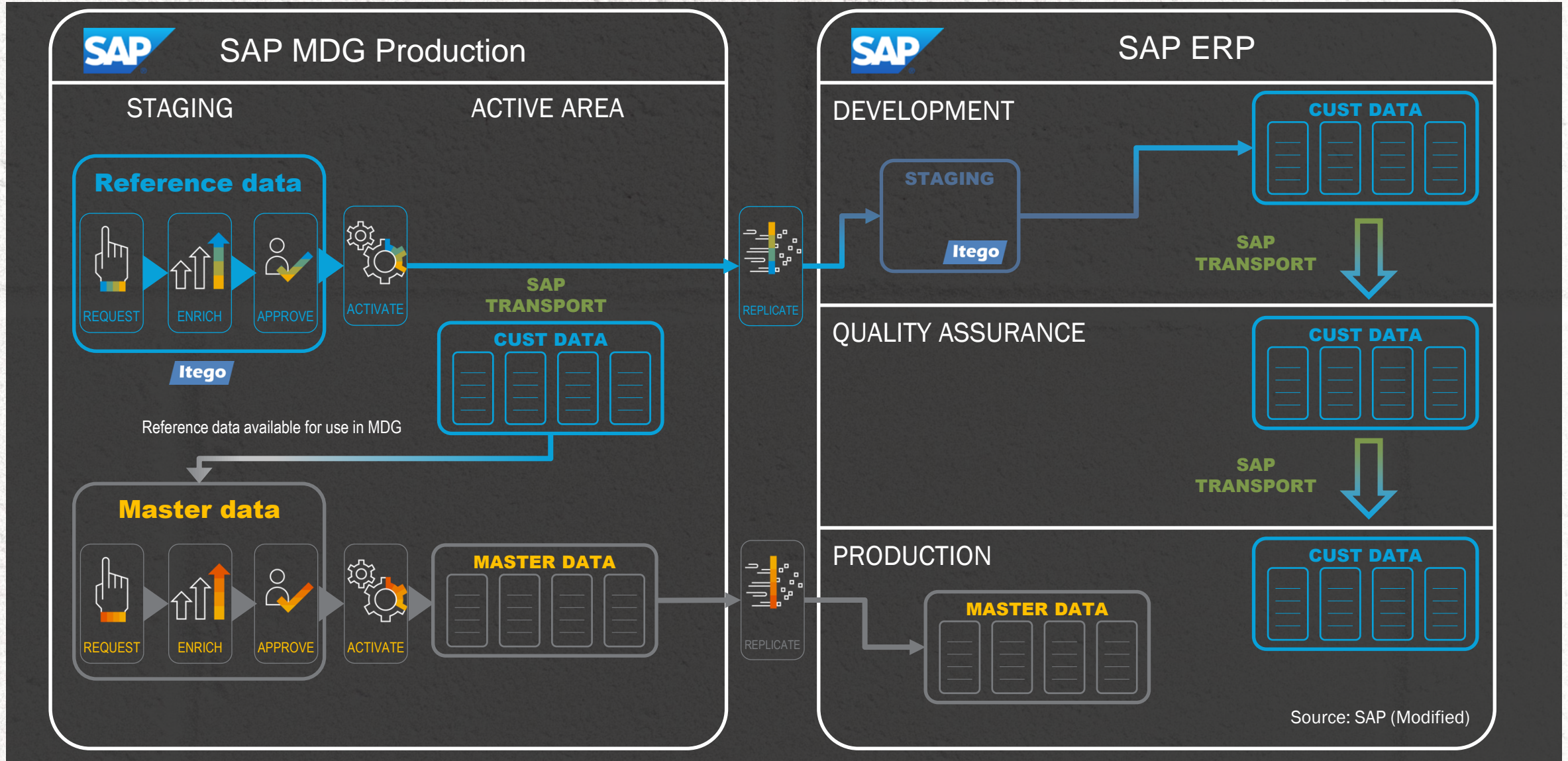
Itego Reference Data Management

Business Controlled Governance Alternative (Business Alternative)



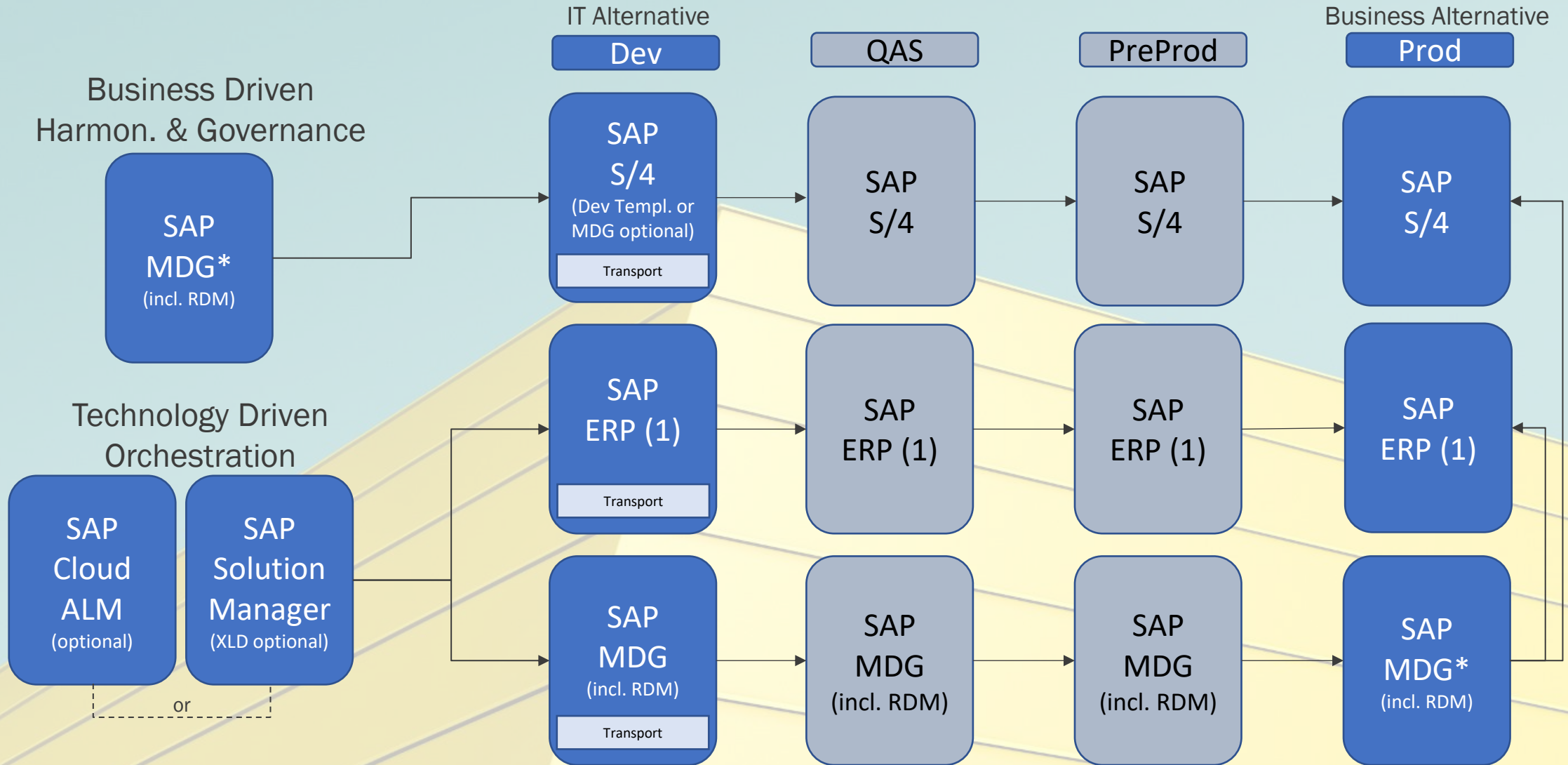
Itego Reference Data Management

Full IT Governance Alternative (IT Alternative)



Itego Reference Data Management

System Landscape – Options and Recommended Set Up



*same physical MDG system hosting RDM

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](#)



Itego

Trusted data. Delivered.

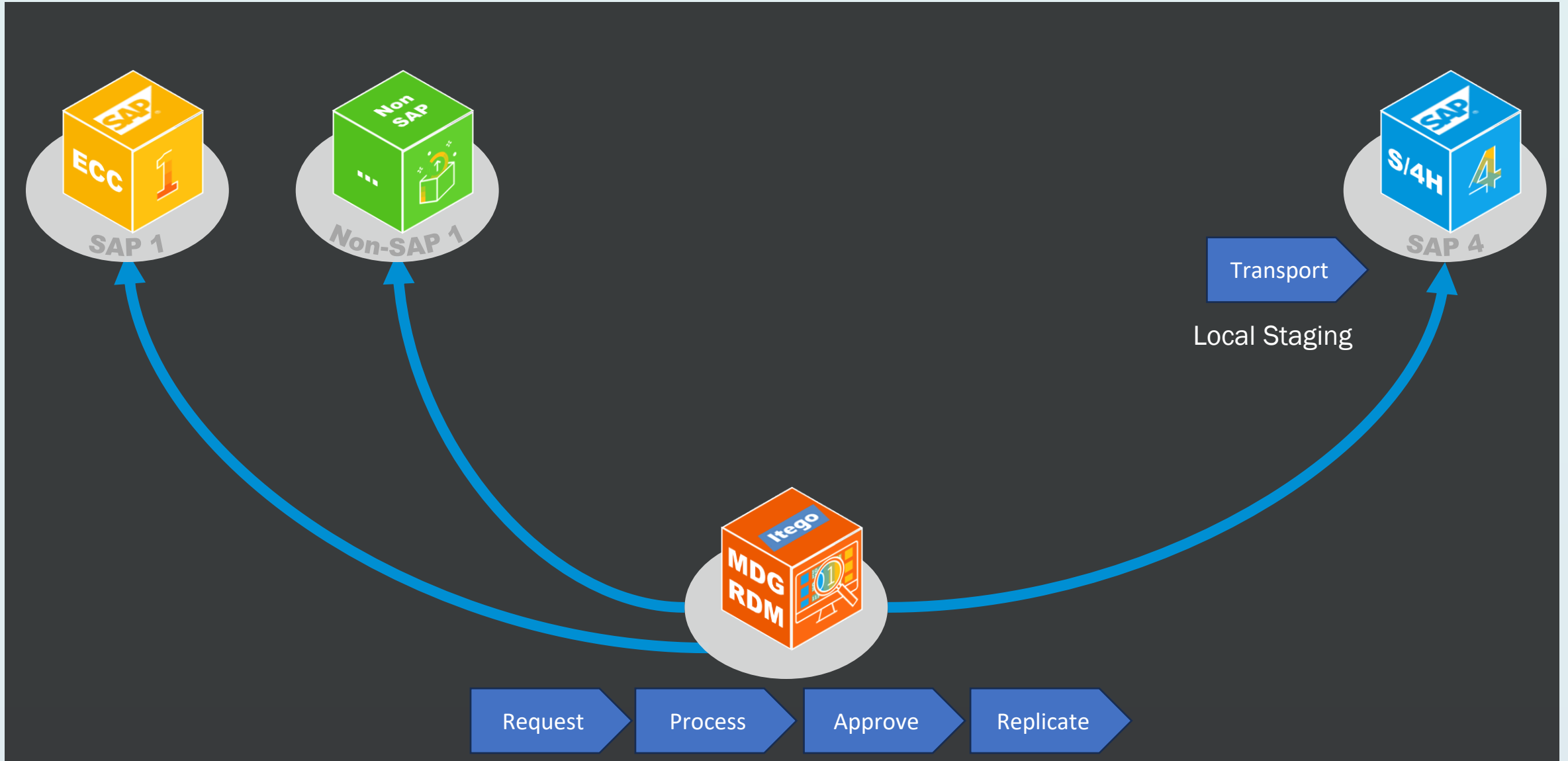
E-Mail: info@itego.de

SAP Certified
Integration with RISE with SAP S/4HANA Cloud



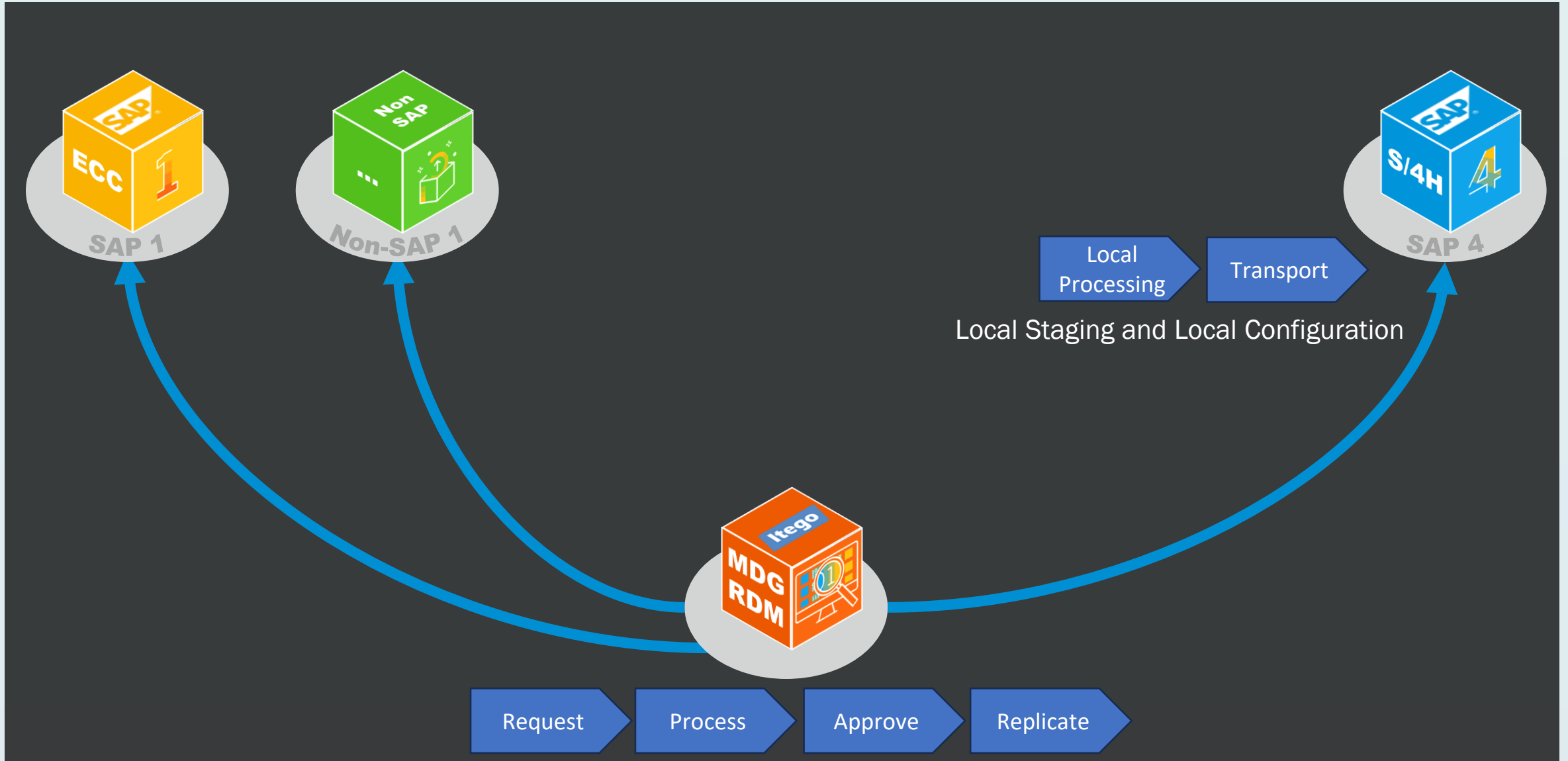
Itego Reference Data Governance

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



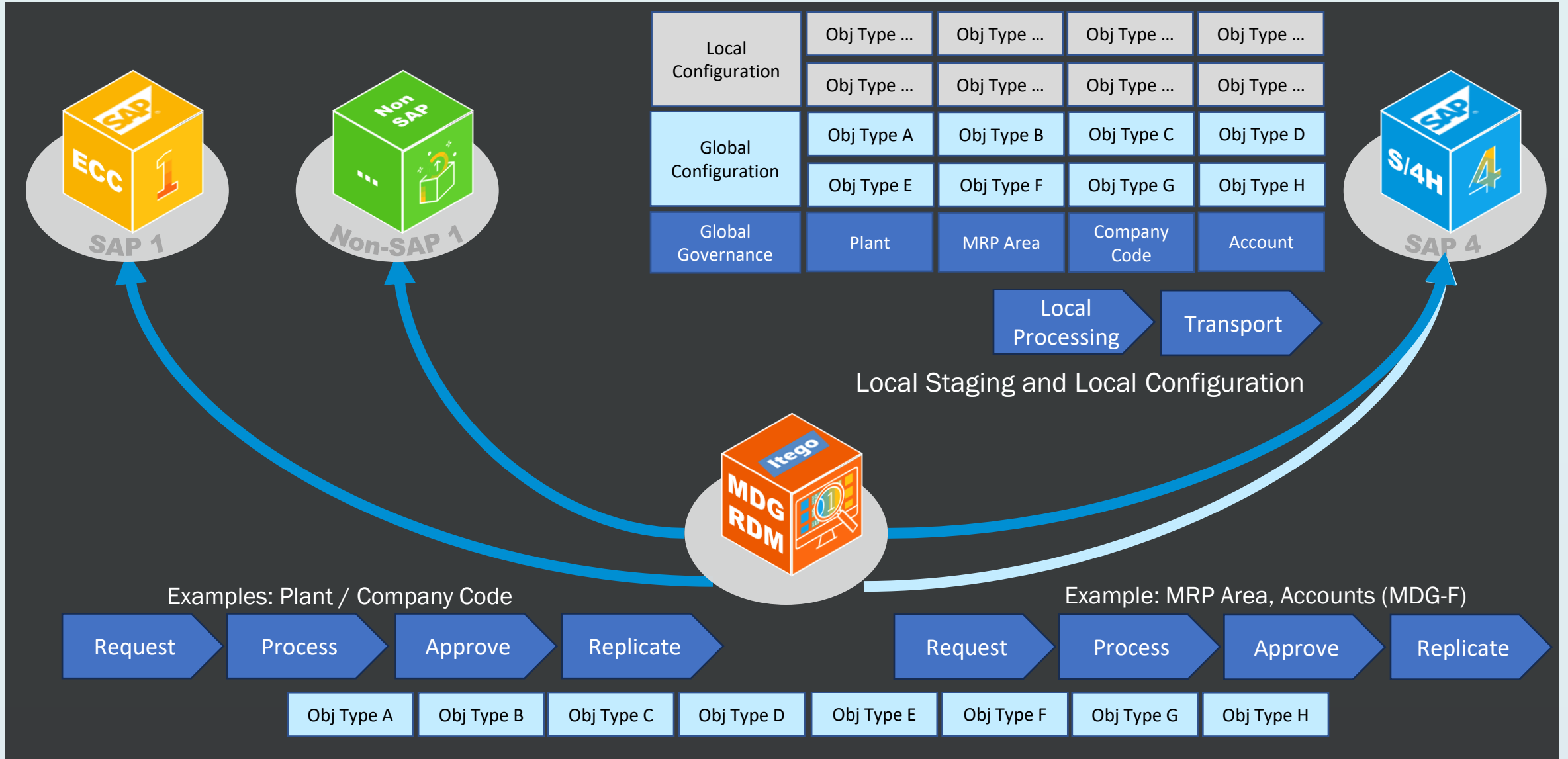
Itego Reference Data Governance

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



Itego Reference Data Governance

Process Driven Maintenance: Full Scenario (including Harmonization)



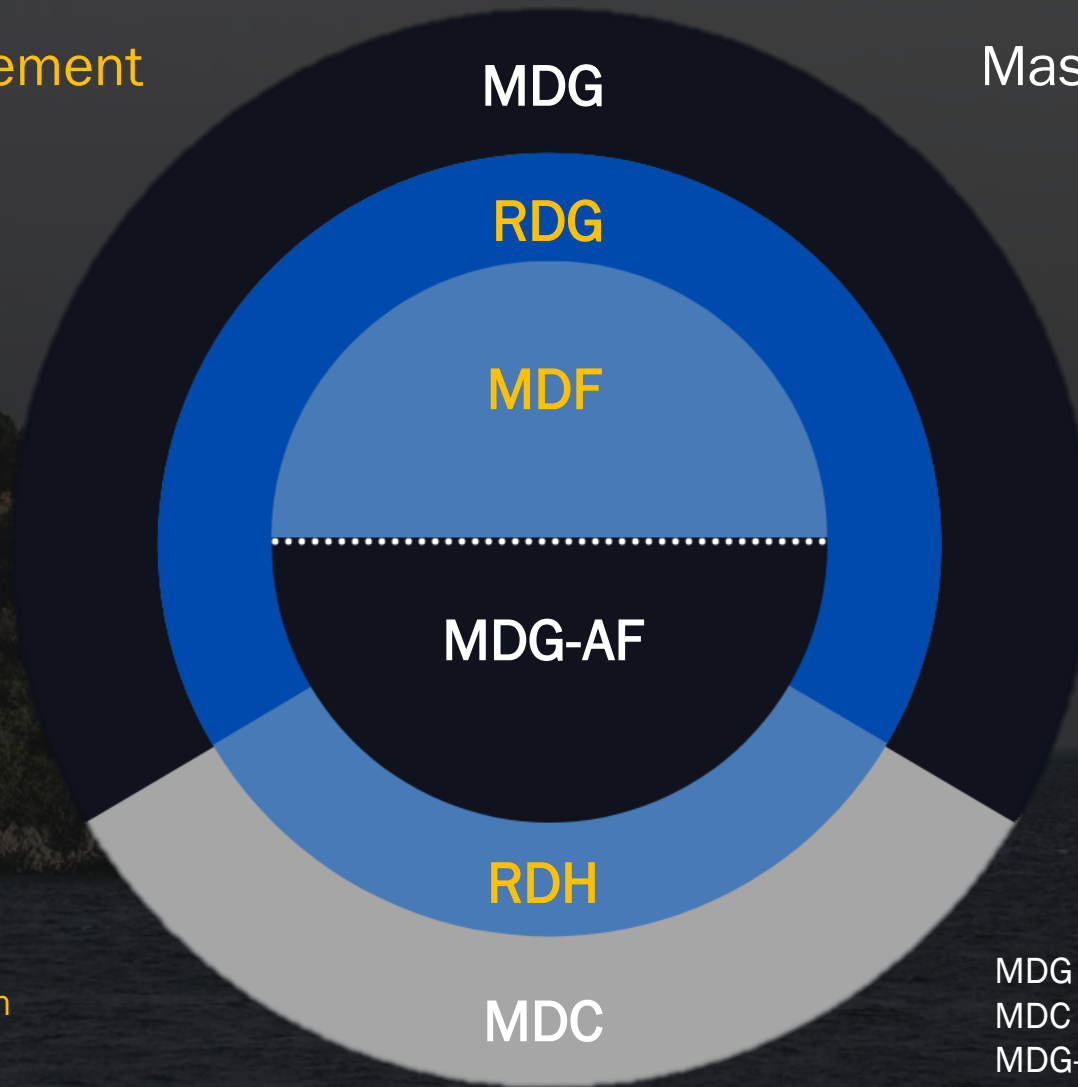
Itego Reference Data Management

How? Solution Components

Reference Data Management

Master Data Governance

Itego



SAP



RDG – Reference Data Governance
RDH – Reference Data Harmonization
MDF – RDM Master Data Framework

MDG – Master Data Governance
MDC – Master Data Consolidation
MDG-AF – MDG Application Framework

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

SAP Certified

Integration with RISE with SAP S/4HANA Cloud

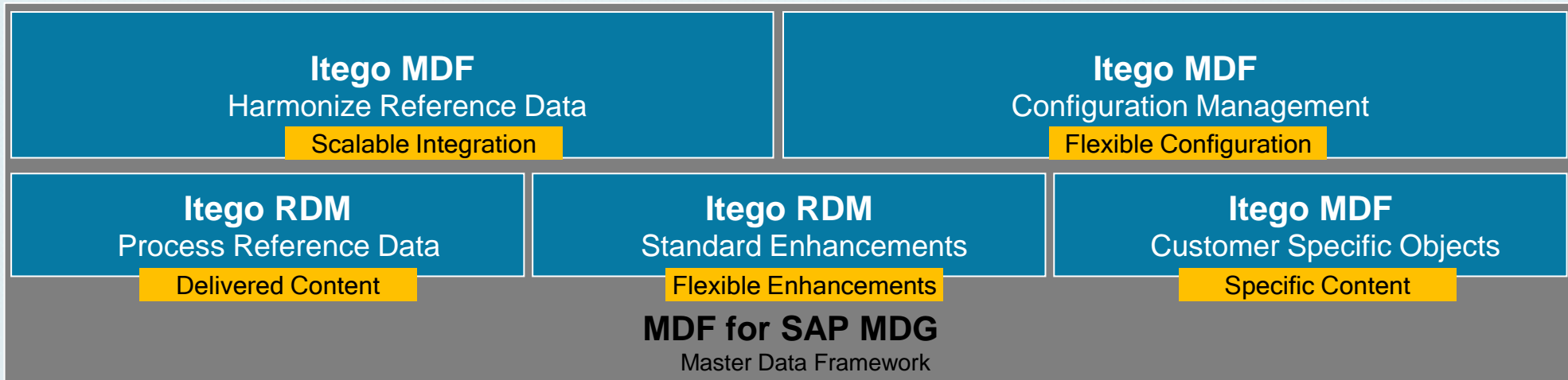
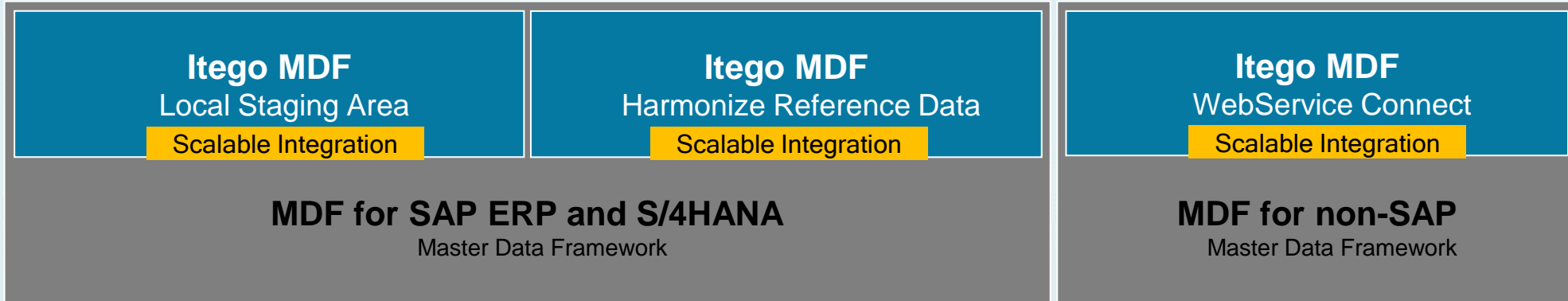


HOW

Master Data Framework

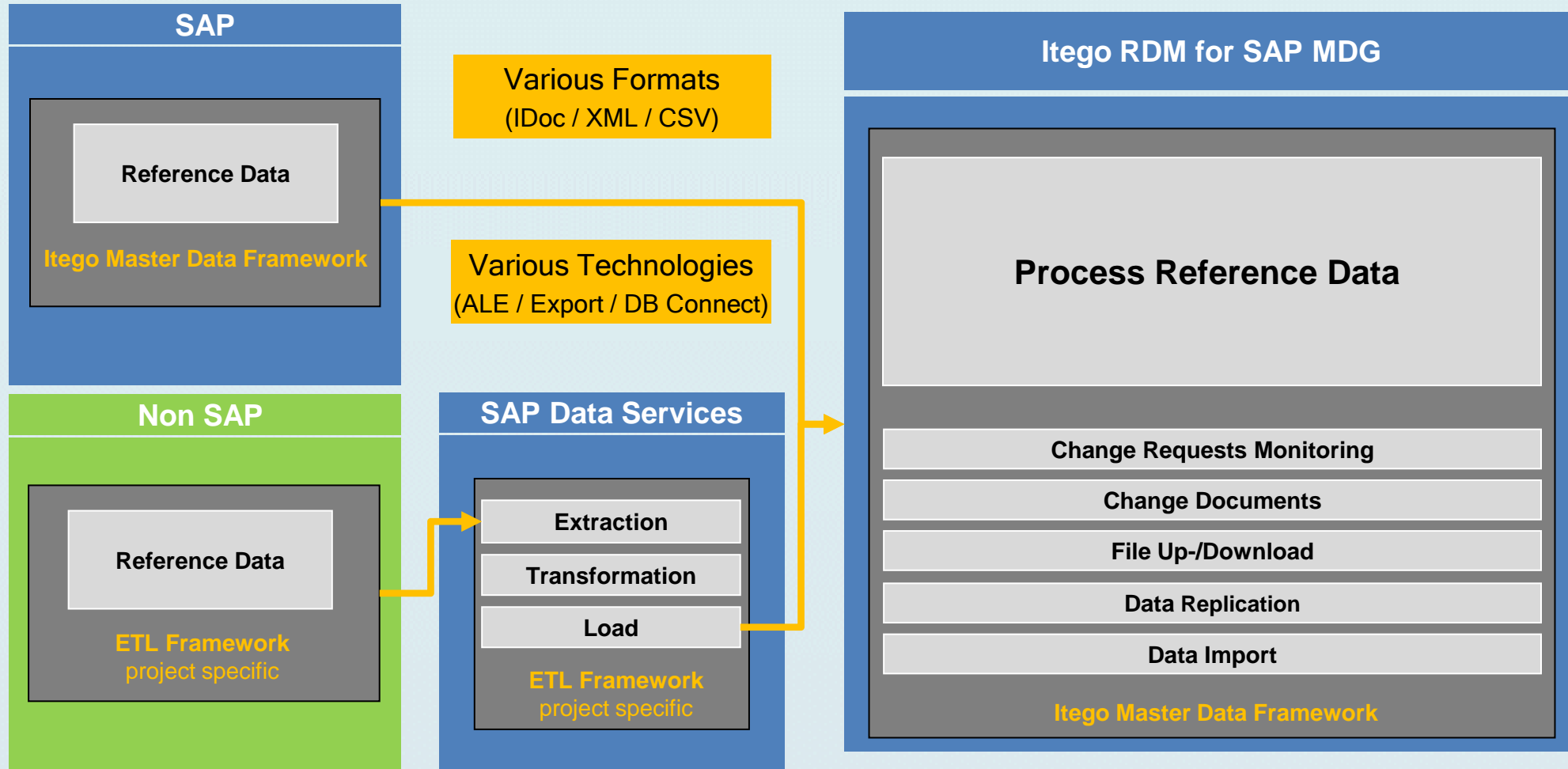
Itego Master Data Framework

Scenarios and Solution Components



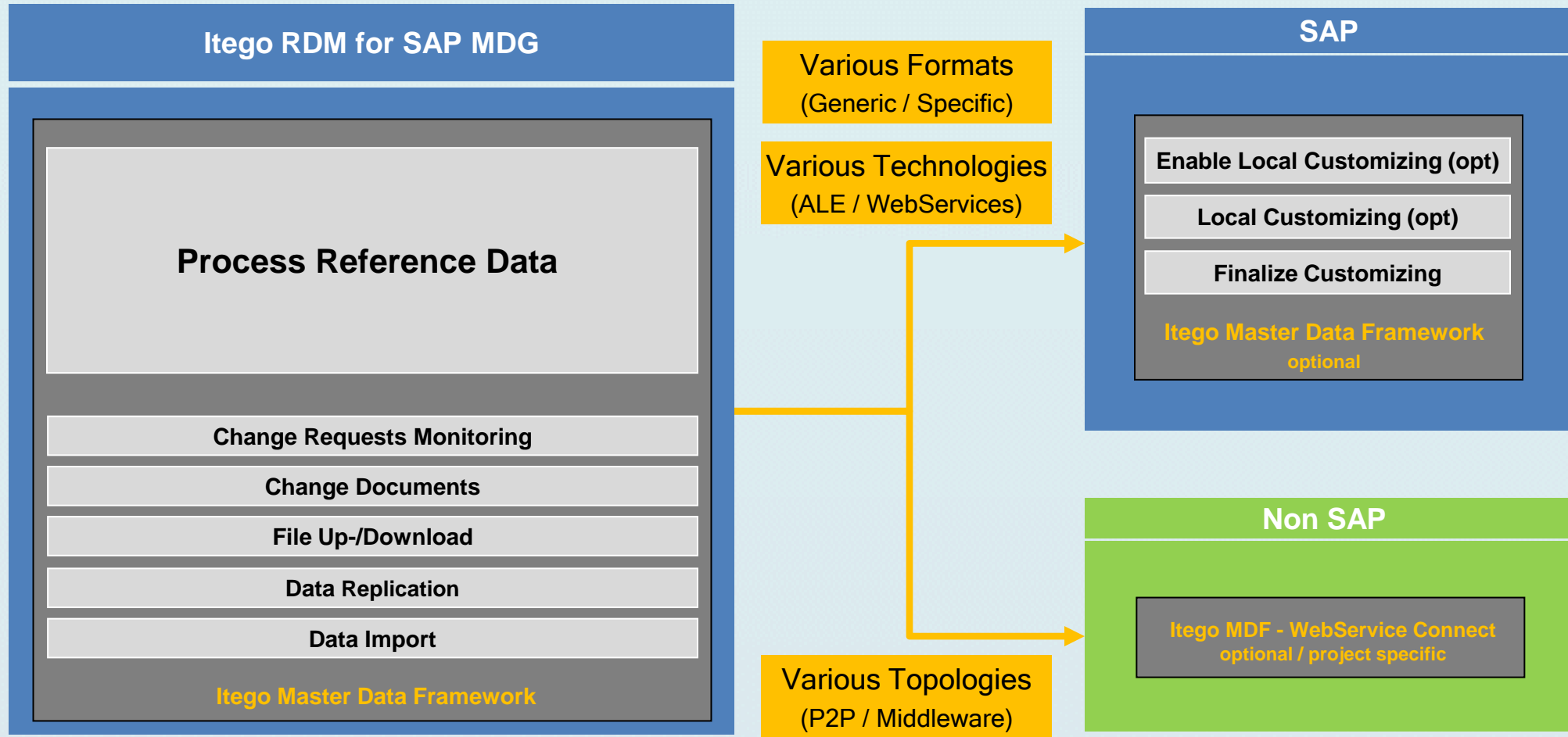
Itego Master Data Framework

Flexibility for Data Load



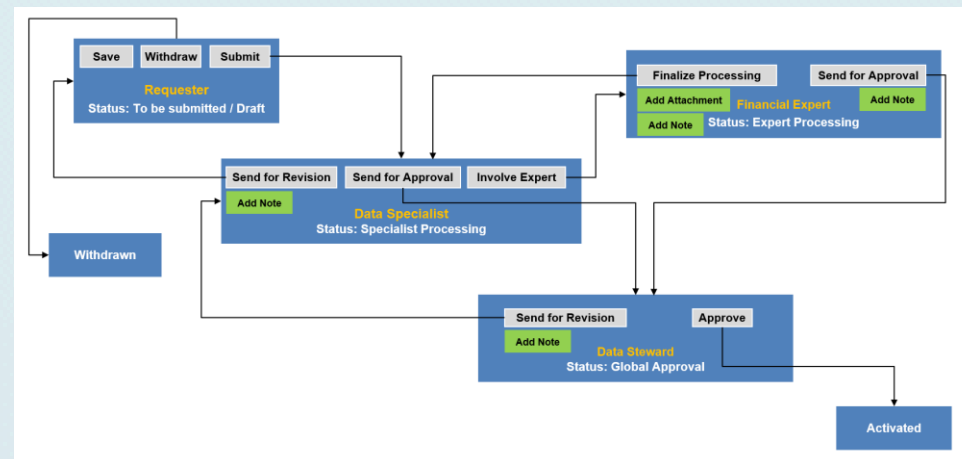
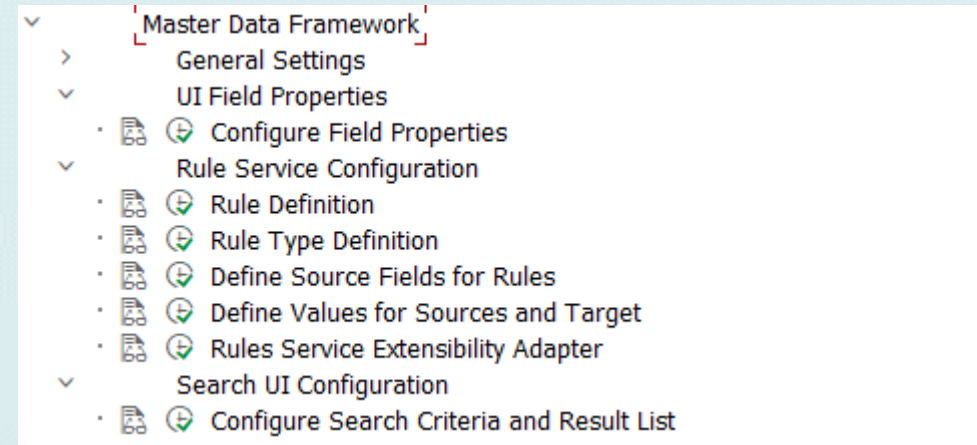
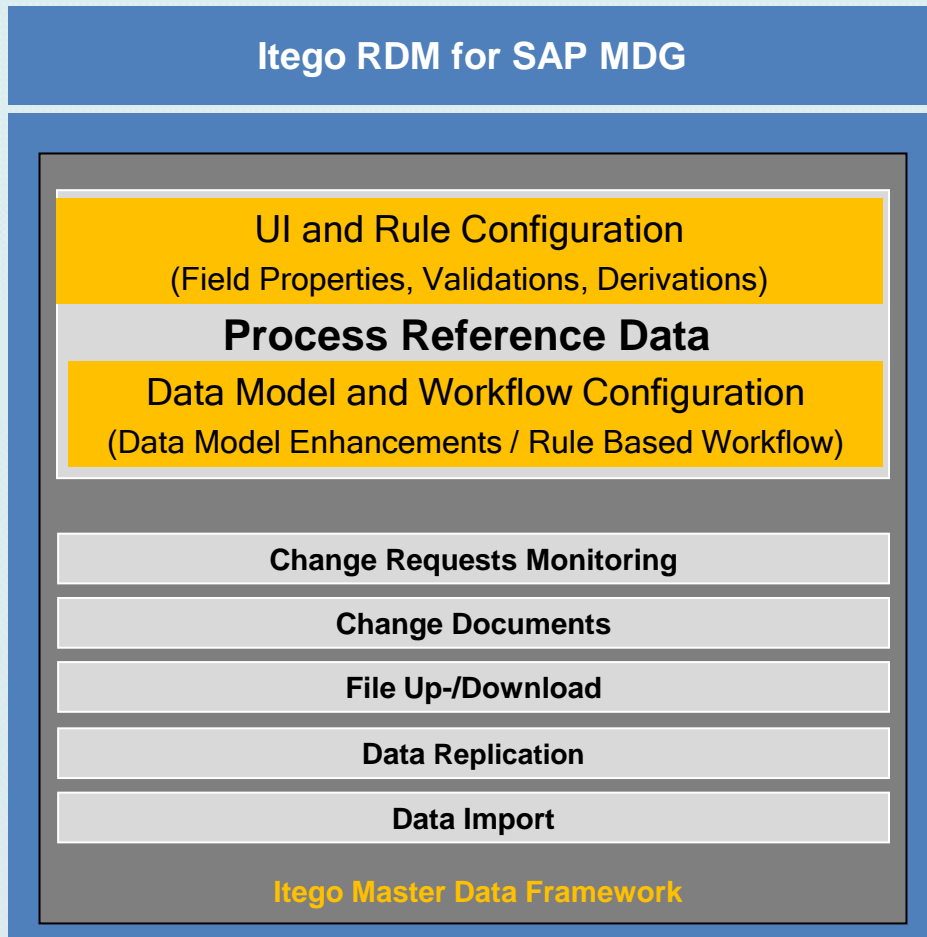
Itego Master Data Framework

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

- ▼ Master Data Framework
 - > General Settings
 - ▼ UI Field Properties
 -   Configure Field Properties
 - ▼ Rule Service Configuration
 -   Rule Definition
 -   Rule Type Definition
 -   Define Source Fields for Rules
 -   Define Values for Sources and Target
 -   Rules Service Extensibility Adapter
 - ▼ Search UI Configuration
 -   Configure Search Criteria and Result List

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

Company Code Edit

[Company Code details](#) Company Code address

Company Code

* Company Code:

* Company Name:

City:

* Country/Region Key: DE

Currency: EUR

Language Key: D

Optional Field

Change View "Itego MDF: UI Field Properties": Overview

New Entries

Itego MDF: UI Field Properties

Model	Target Entity	Description	Target Field	CR Type	CR Step	Field Property	Active
I1	COMPCODE	Company Code	ORT01	*	*	Required Field	<input checked="" type="checkbox"/>

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

All 1

Maintain value for Mandatory Field " City "

Reason:

> Audit Information

Company Code Edit

[Company Code details](#) Company Code address

Company Code

Company Code: A01

* Company Name: Company A

* City:

* Country/Region Key: DE Germany

Currency: EUR European Euro

Language Key: D

No errors found

SAP Process Object with MDG

Refresh

Due Date:

Reason:

> Audit Information

Company Code Edit

[Company Code details](#) Company Code address

Company Code

Company Code: A01

* Company Name: Company A

* City: Berlin

* Country/Region Key: DE Germany

Currency: EUR European Euro

Language Key: D

Itego Master Data Framework

Example 2: Rule Configuration - Derivation

Material Group [Edit](#)

* Material Group:

Description (short text):

Description (long text):

Division:

Valuation Class:

Default unit of weight:

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		<input checked="" type="checkbox"/>			
I1	MATKL	Material Group	BKLAS	0001	2	A1						3030		<input checked="" type="checkbox"/>			



Division: Product Division 01

Valuation Class: Equipment 1

Default unit of weight:

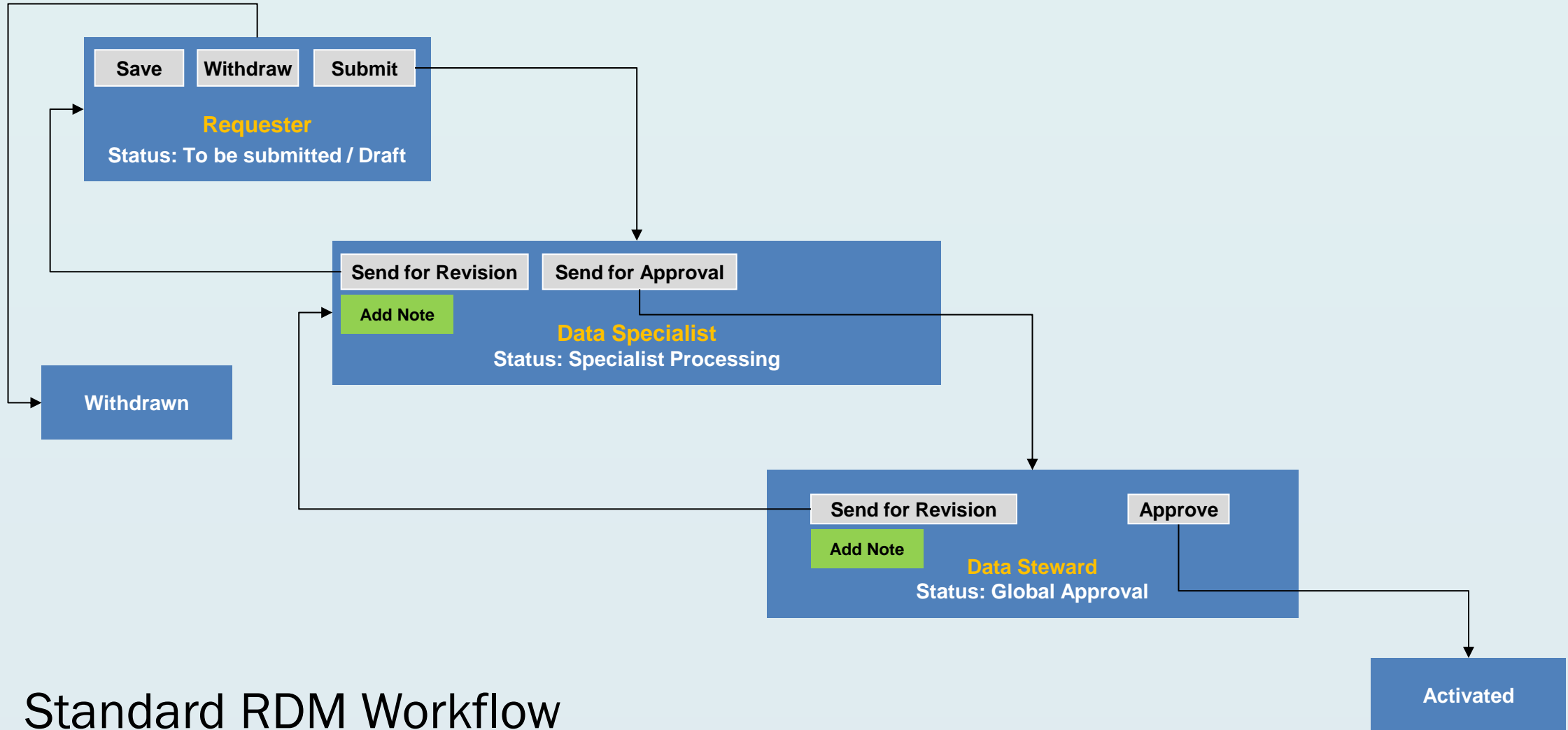
Division: Operating supplies

Valuation Class: Operating supplies

Default unit of weight:

Itego Master Data Framework & SAP MDG Appl. Framework

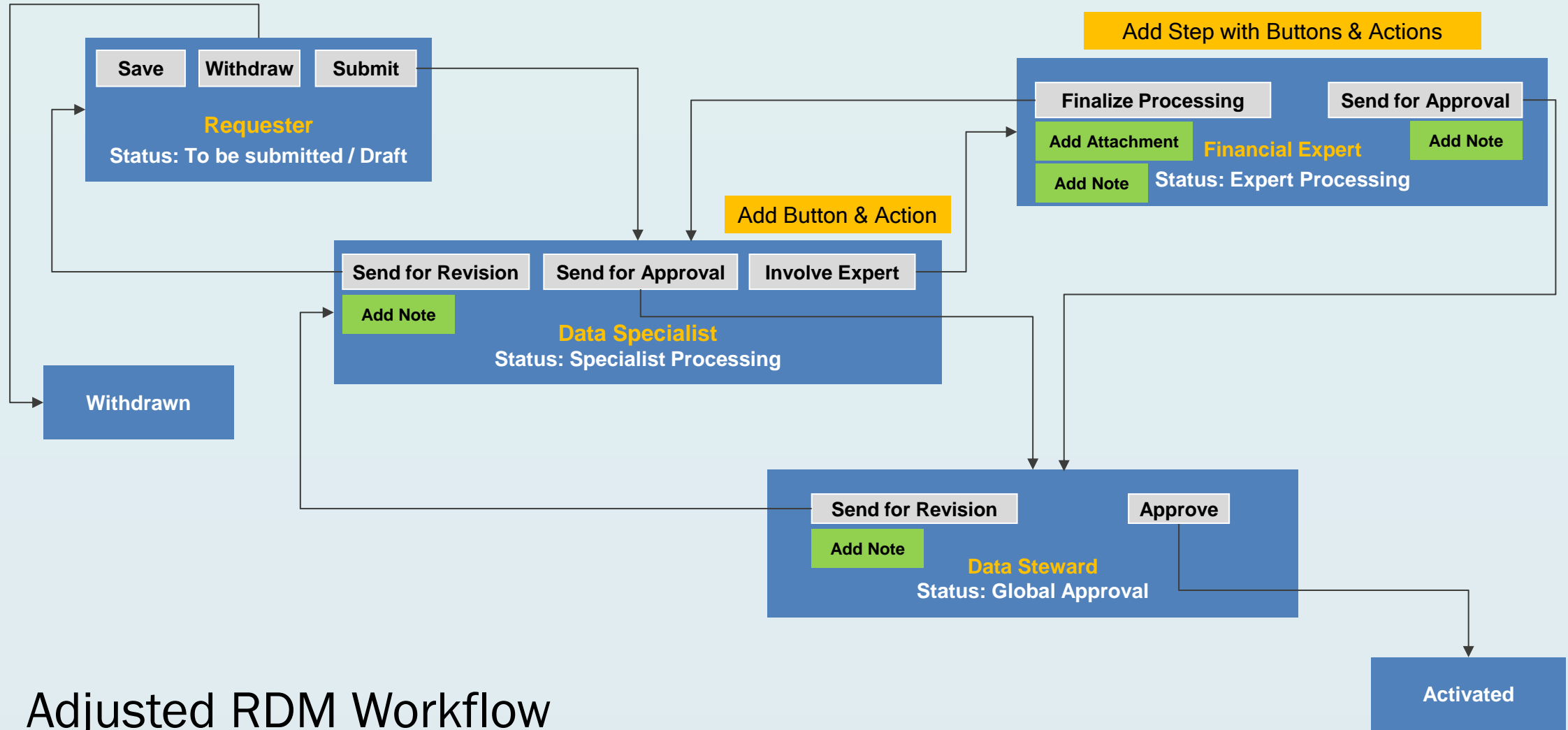
Workflow Configuration



Standard RDM Workflow

Itego Master Data Framework & SAP MDG Appl. Framework

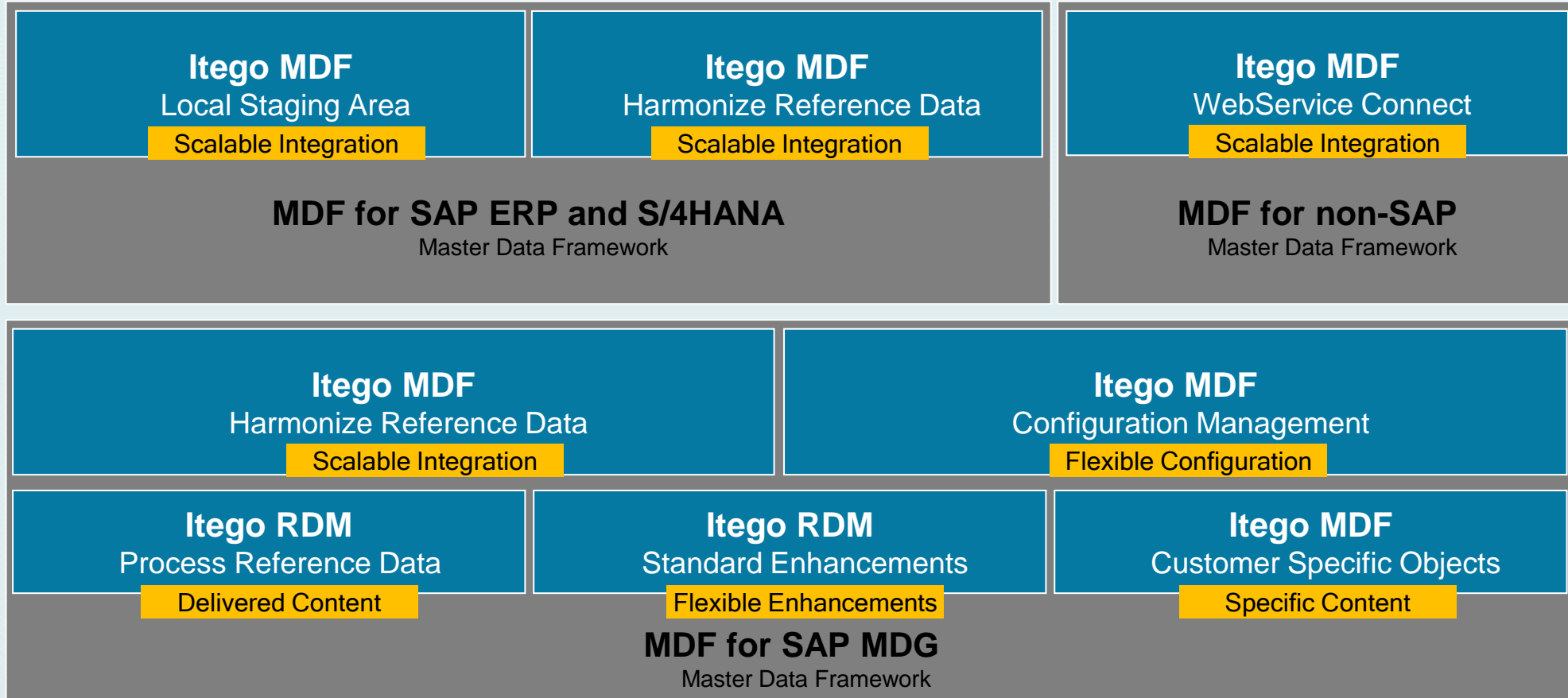
Workflow Configuration



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

