



# SAP Master Data Governance

## Central governance of Business Partner, Customer, and Supplier Data

Based on SAP Master Data Governance on SAP S/4HANA 2021  
Mai 2022

PUBLIC

THE BEST RUN 

## Preface

SAP Master Data Governance (MDG) is a state-of-the-art master data management solution. It provides out-of-the-box, domain-specific master data governance to centrally create, change, and distribute, or to consolidate master data across your complete enterprise system landscape.

In this context, MDG can either run as a separate master data hub or be co-deployed on an operational system. In both cases MDG can run on:

- ERP on HANA or any other DB
- S/4HANA

From a functional perspective, SAP MDG on SAP S/4HANA 1809 correlates to the SAP MDG 9.2 release based on SAP ERP 6.0.

Note that although no correlating SAP MDG on ERP release exists for the subsequent SAP S/4HANA releases, many innovations have also been downported to earlier SAP MDG releases. You can find SAP Notes relating to this in the appendix.

# **Agenda**

## **Introduction**

SAP Master Data Governance Capabilities

Function in Detail

Integration Scenarios

Solution Benefits

# Introduction

Lack of data governance policies and poor data quality hurt the business

“

**90% of all businesses still do not have sufficient policies in place to meet data governance regulations.”**

IT Policy Compliance Group



**Compliance Failures**

“

**Average organization loses \$8.2 million annually through poor data quality.”**

Gartner



**Lower Profits**

“

**50% to 70% of ERP implementations are reported as “challenged” in part to data integrity and/or data accuracy problems.”**

Adaptive Growth, Inc.



**Low Productivity**

# Introduction

All Lines of Business are impacted by master data quality issues

Organizations and Roles			
 Financials CFO	 IT CIO	 Sales (S)VP of Sales, (S)VP of Marketing	 Supply Chain VP of Supply Chain, VP of Planning
Challenges			
<ul style="list-style-type: none"><li>§ Inconsistent financial master data across the enterprise</li><li>§ Manual efforts to update financial master data in local financial systems</li><li>§ Risk of non-compliance to IFRS, SOX etc.</li><li>§ Slow group closes</li><li>§ Lack of transparency about changes (who, what, when, why)</li></ul>	<ul style="list-style-type: none"><li>§ High master data maintenance costs</li><li>§ Need for multiple systems to manage master data in different domains</li><li>§ Lack of flexibility in dynamic business environments</li></ul>	<ul style="list-style-type: none"><li>§ Lack of consistent consolidated view of customer data across all channels</li><li>§ Customer transactions are compromised due to a limited view of the facts</li></ul>	<ul style="list-style-type: none"><li>§ Lack of transparency relating to suppliers and products</li><li>§ High costs due to insufficient supplier selection and rationalization</li><li>§ Loss of potential for benefit realization (i.e. discounts, conditions, central contracts)</li><li>§ Limited availability of up-to-date master data in my business network</li></ul>

# Introduction

Centrally govern and consolidate master data for your enterprise

**SAP MDG on S/4HANA is a state-of-the-art master data management solution, providing out-of-the-box, domain-specific master data governance to centrally create, change and distribute or to consolidate master data across your complete enterprise system landscape**

## Governance

Enables governance, compliance and transparency of master data during creation and change through integrated staging, approval and central audit trail

## Consistency

Delivers consistent definition, authorization and replication of key master data entities. Eliminates error-prone manual maintenance processes for master data in multiple systems

## Consolidation

Consolidate master data in any enterprise system landscape, create best records and key mapping between duplicates, and optionally combine consolidation with central governance for sustained master data quality

## Integration

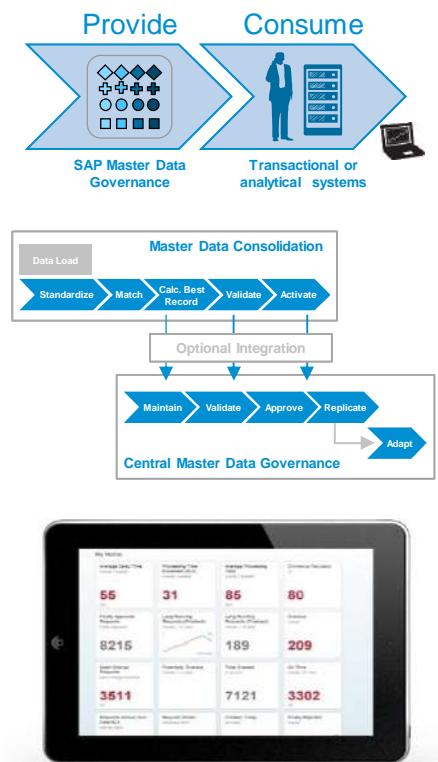
Provides native integration in SAP solutions, incl. re-use of data model, business logic, and configuration for validation while offering openness to integrate 3<sup>rd</sup> party services

## Flexibility

Open to extend the standard models and to create governance for your own master data and flexibly for non-SAP environments

## Data Quality

Measure Process quality using SAP Smart Business and integrate with SAP Data Services & SAP Information Steward for quality, enrichment, and data remediation



# Agenda

Introduction

## **SAP Master Data Governance Capabilities**

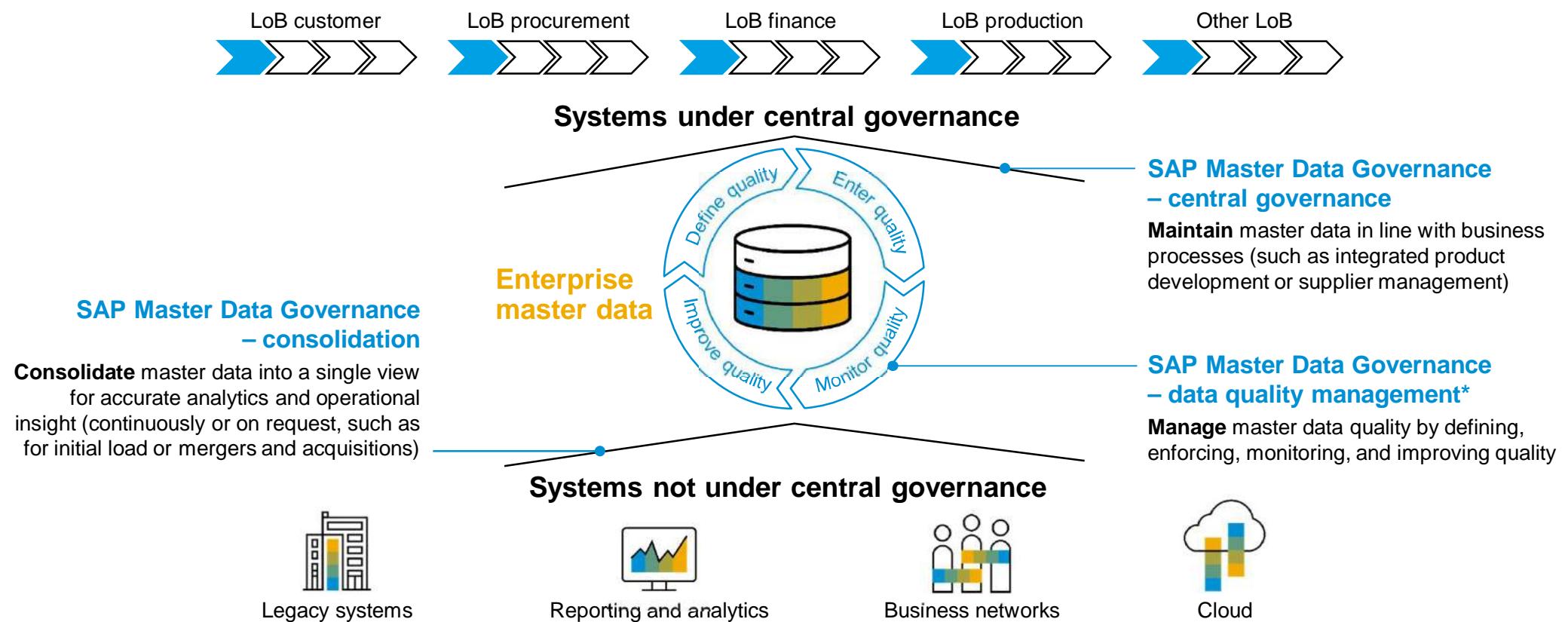
Function in Detail

Integration Scenarios

Solution Benefits

# Typical approaches to master data management

Central governance and distribution / de-central ownership and consolidation



All typical approaches are supported: central governance with distribution, decentralized ownership with consolidation, data quality monitoring with remediation

# What is SAP MDG, Central Governance for Business Partner Data?

## Capabilities

Master Data Governance for Business Partner data offers a central hub-based maintenance of BP master data.

To address the key business issues related to such a governance solution for master data, MDG for business partner follows some basic principles that are shared across the domains of MDG

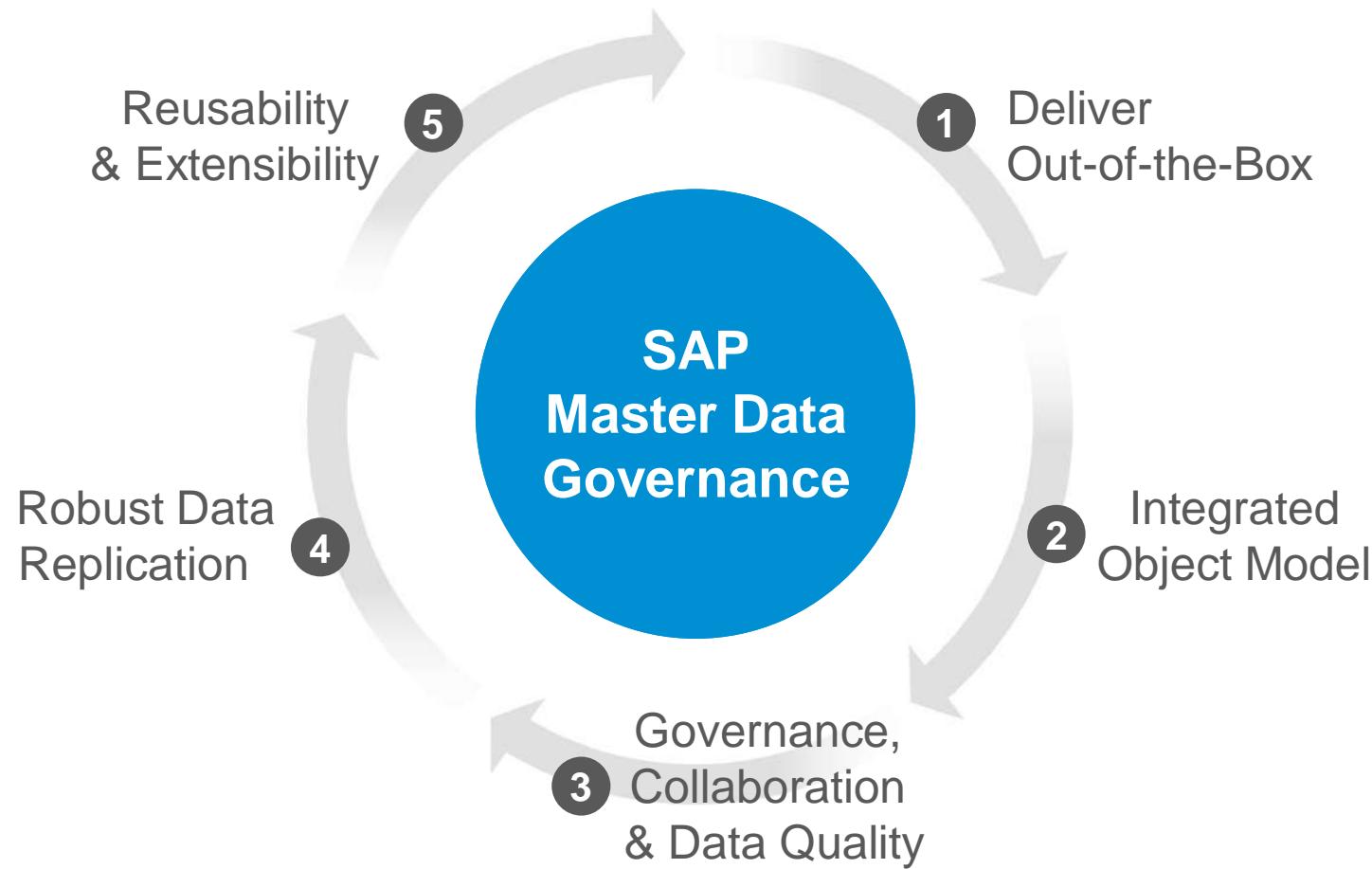
- Maintain once, use many
- One standardized process to be used by everybody
- One standardized user interface for everybody
- One standardized set of business logic

In order to fulfil these principles, SAP has built a Master Data Governance solution that offers

- Central maintenance of master data
- Workflow-driven processes that are flexible while ensuring governance and standardization
- Harmonized user interface, based upon Enterprise Portal, Business Client, or SAP Fiori launchpad
- Data model and business logic follow the best practices of SAP and reuse existing data structures, business validations and various services

# Master Data Governance Capabilities

Establish Best-Quality Master Data to Optimize Business Processes



# Master Data Governance Capabilities

## 1 Deliver Out-of-the-Box



### Low TCO

Full Integration to SAP systems as a client  
Offer integration services for non-SAP client systems



### Flexibility

Workflow flexibility closely integrated to a framework for defining business rules



### Ease of Consumption

Deliver a process-centric solution, with roles and a web-based user interface  
Deliver predefined data quality services



### Best Practice

Deliver a data model proven by several applications & industries



### Process Transparency

Reuse of existing processing logic



### Integration

Out-of-the box data replication mechanisms, using stable mechanisms

# Master Data Governance Capabilities

## 2 Integrated Object Model: Business Partners

Provide a directory of Business Partners (organizations, persons, groups of persons). This directory contains data primarily used for identification (e.g. name, address, ID numbers, etc.). The MDG objects like Customer and Supplier will be based on this directory and offer seamless integration with customer-specific data and supplier-specific data).



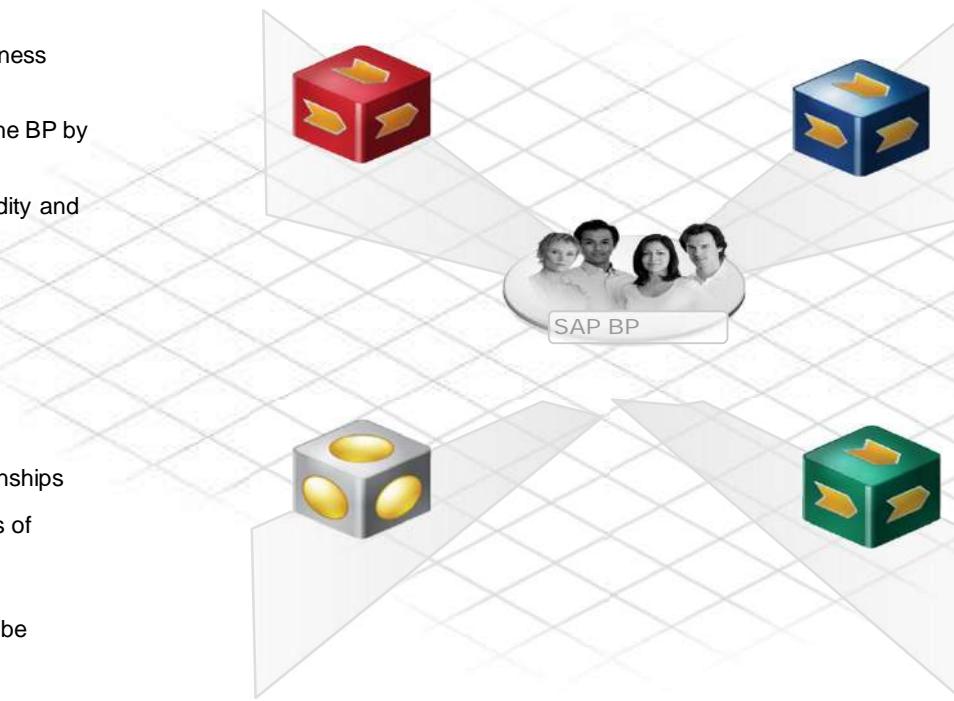
# Master Data Governance Capabilities

## 2 Integrated Object Model: SAP Business Partner Fundamentals

The Entity type *Business Partner* is a generic application for business partner management (maintaining organizations, persons and groups of persons)

### General Data

- Ø Consists of core attributes and business attributes from various applications
- Ø Customers/Partners can enhance the BP by adding their own attributes
- Ø Time dependent with Technical validity and business validity



### Role Concept

- Ø Roles are views on the attributes and define the relevance by displaying the specific fields ONLY
- Ø Classification according to business criteria
- Ø Different attributes relevant for each BP Role
- Ø **Examples:** Customer, Supplier, Prospect, Bidder, Payee, Employee

### Relationships

- Ø BPs can be connected using relationships
- Ø Relationship categories depict types of business connection between BPs
- Ø Categories can have attributes, and these categories and attributes can be enhanced by the customer

### Usage

- Ø Suite Ext. Applications (CRM, SRM)
- Ø Industry solutions
- Ø Suite Ext. Industries (Banking, Insurance, Utilities, Telecom, Media, ...)  
*to meet generic and industry-specific requirements for business partner management*

# Master Data Governance Capabilities

## 2 Integrated Object Model: Solutions for Customers, Suppliers, and Business Partners

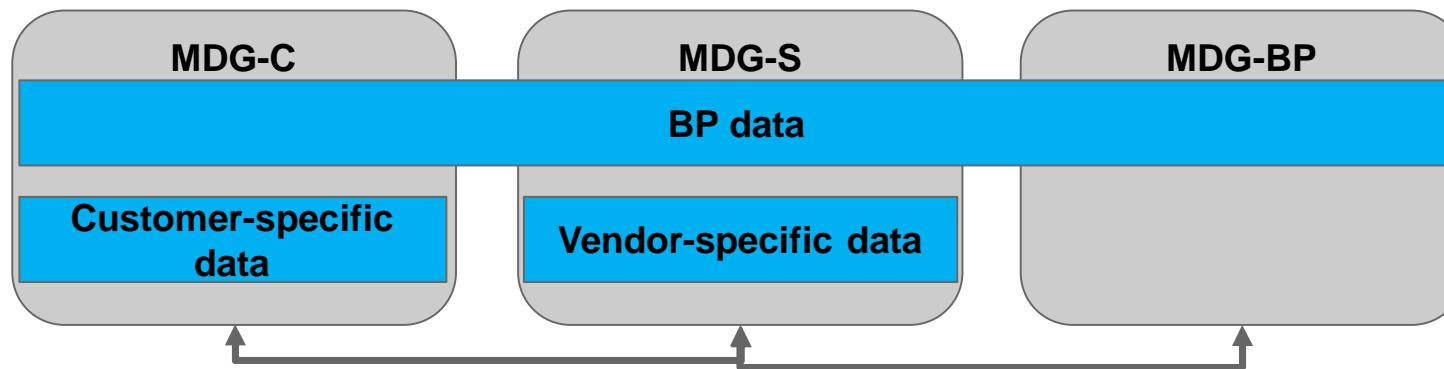
All solutions use the SAP-BP as central anchor for identifying data

- Business Partners that are both a customer and supplier are represented by one BP only

MDG-BP as basis for

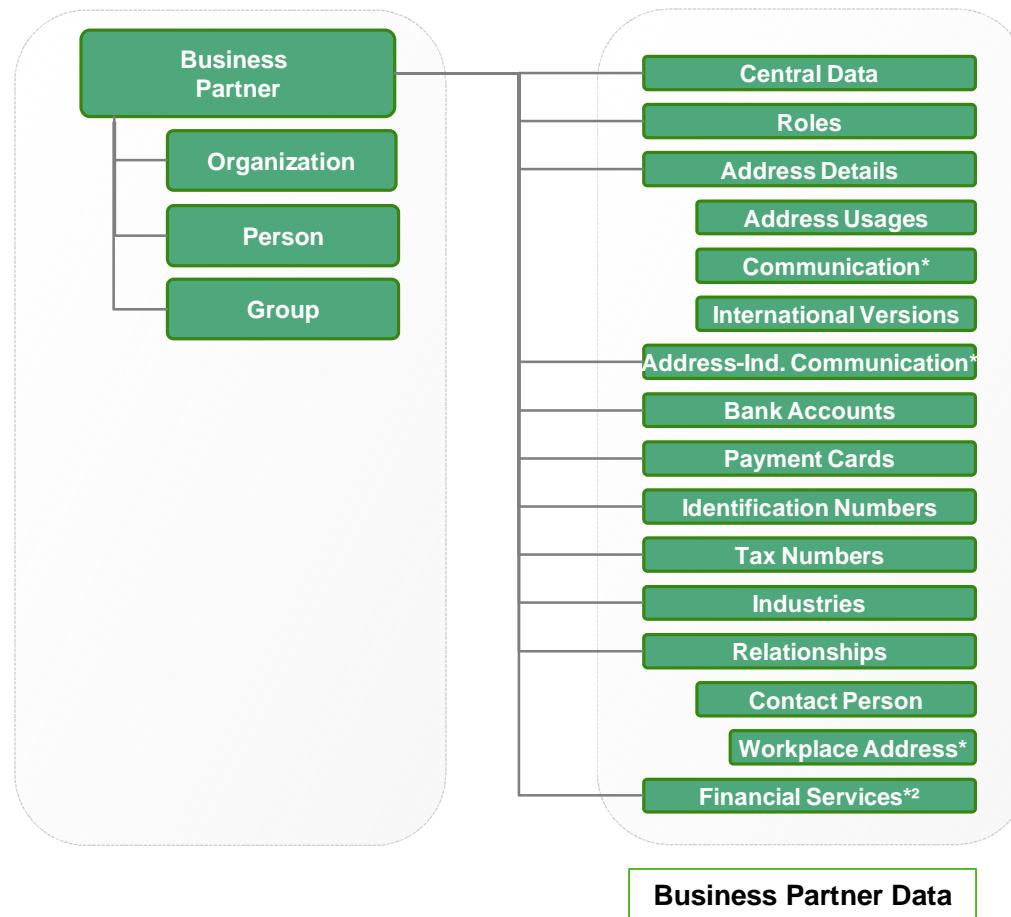
- Customers limiting their governance scope to BP data only
- Solutions only being based on SAP-BP (e.g. Service Industries)

Transition from MDG-BP to MDG-S / MDG-C without disruption



# Master Data Governance Capabilities

## 2 Integrated Object Model: The BP Data Model for MDG-BP

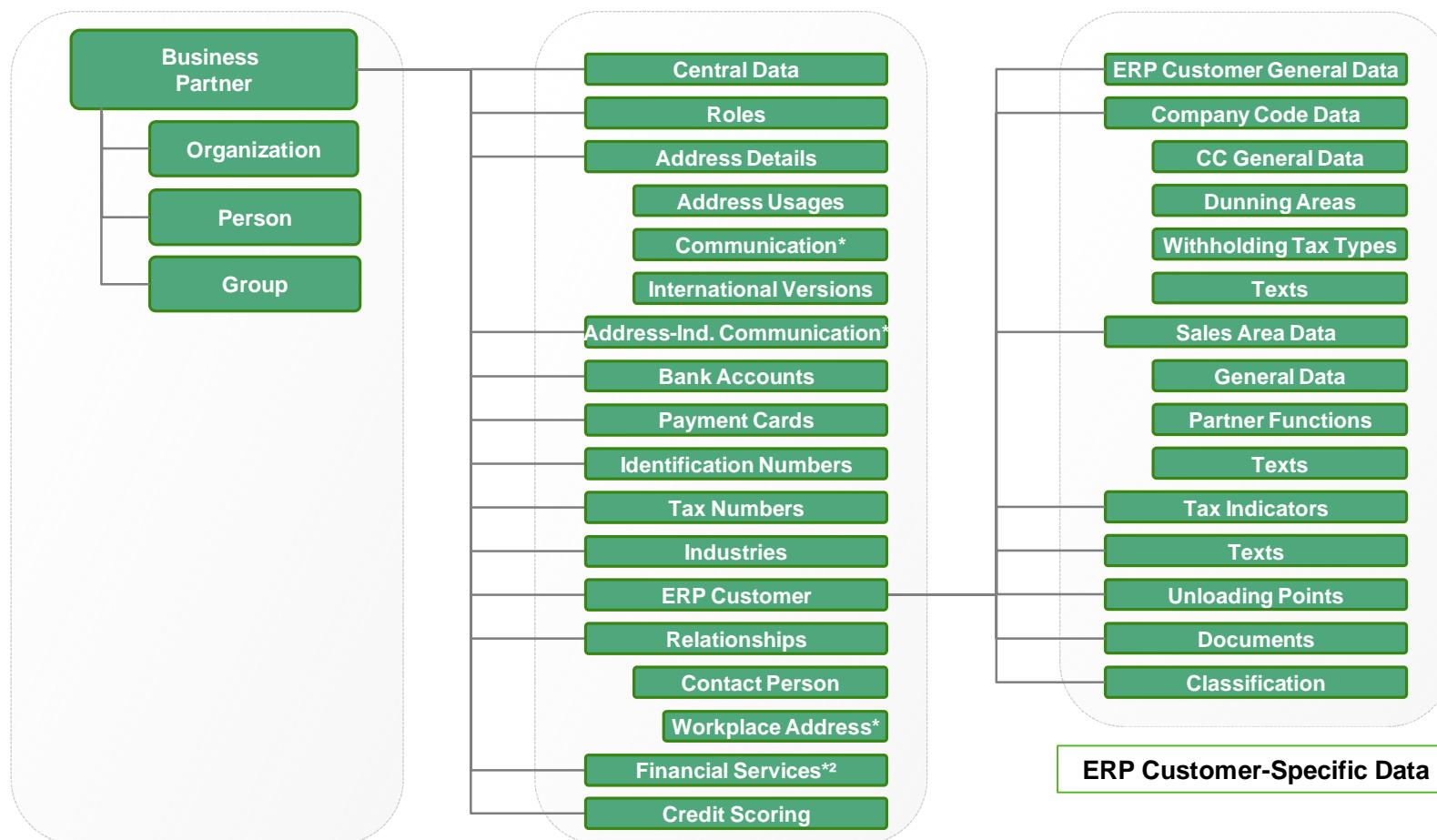


- \*Communication:
  - Telephone Numbers
  - Mobile Numbers
  - Fax Numbers
  - E-Mail Addresses
  - Web Sites

- \*\*2 Financial Services:
  - Ratings
  - Creditworthiness
  - Financial Services Details
  - Partner is Bank
  - Financial Services Reporting
  - Employment Overview
  - Fiscal Year Information
  - Additional Names
  - Tax Compliance

# Master Data Governance Capabilities

## 2 Integrated Object Model: The BP Data Model for MDG-C



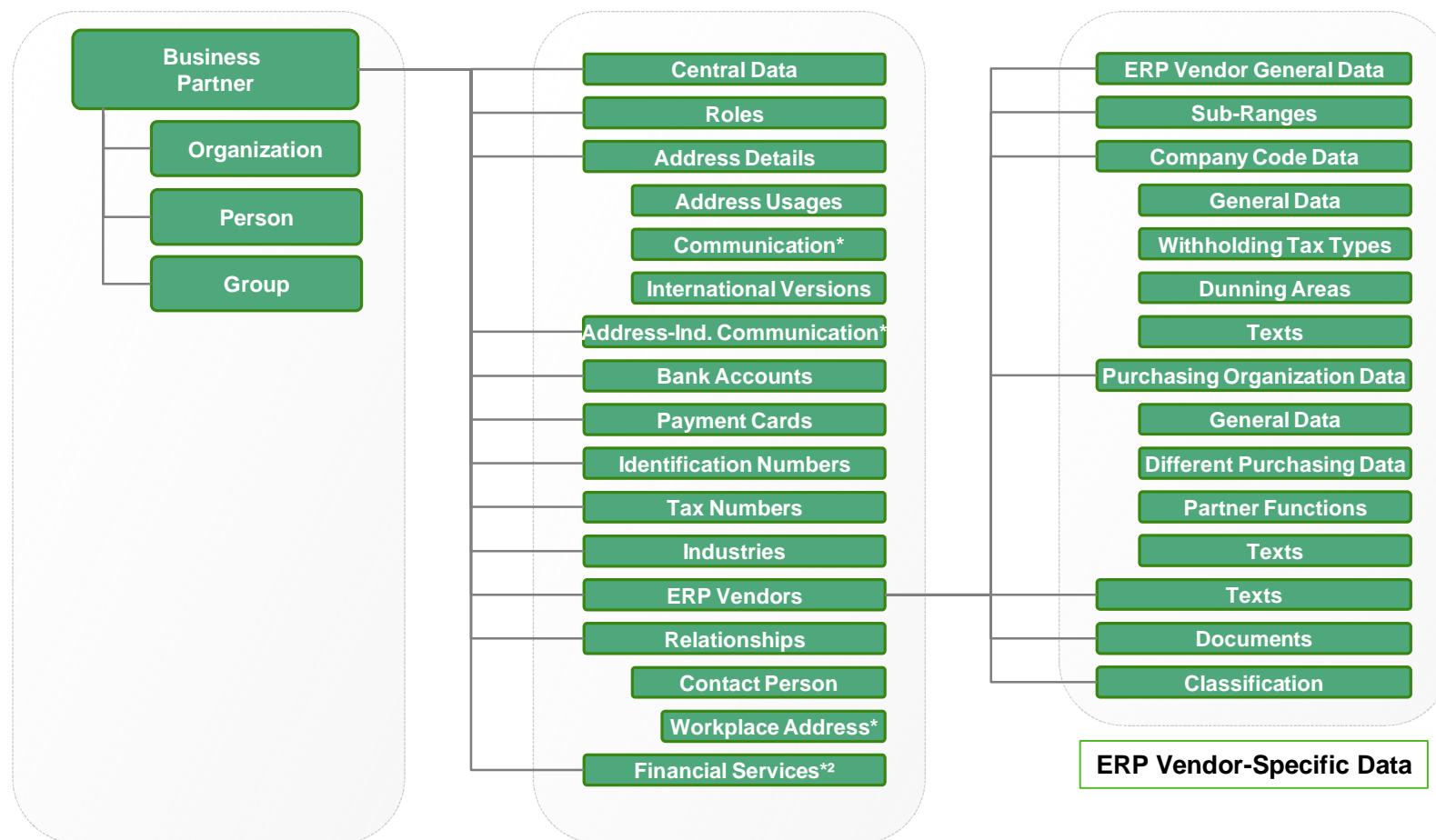
SAP Note 2221398 contains separate spreadsheets for Business Partners, Customers, and Suppliers of data model BP

- \*Communication:
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  - Partner is Bank
  - Financial Services Reporting
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  - Tax Compliance

# Master Data Governance Capabilities

## 2 Integrated Object Model: The BP Data Model for MDG-S



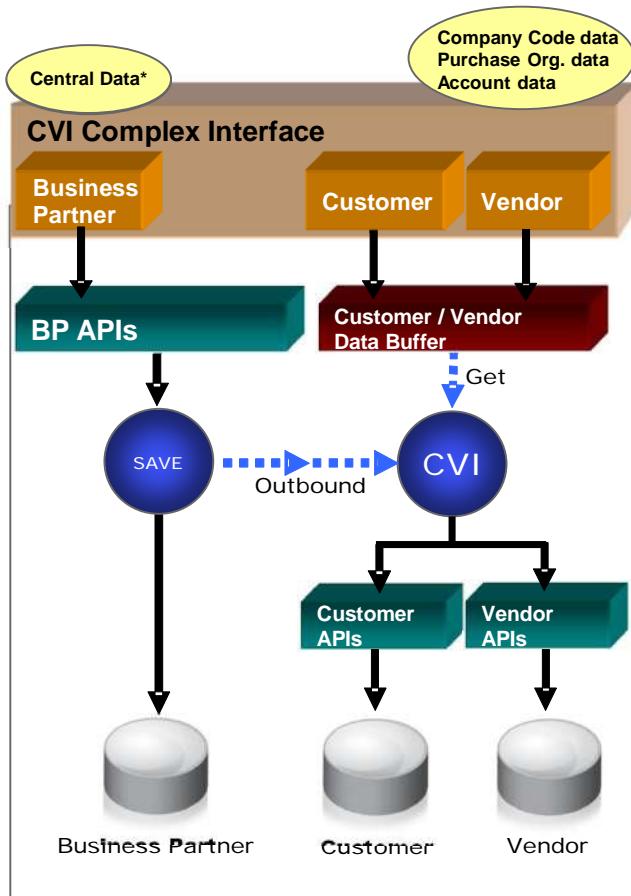
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# Master Data Governance Capabilities

## 2 Integrated Object Model: Customer/Vendor Integration



### Example: Vendor Creation

A **Business Partner** is always created when a customer or supplier is created.

The complex interface of the CVI (Customer/Vendor Integration) contains **Business Partner** specific data as well as **Customer and Vendor** specific data.

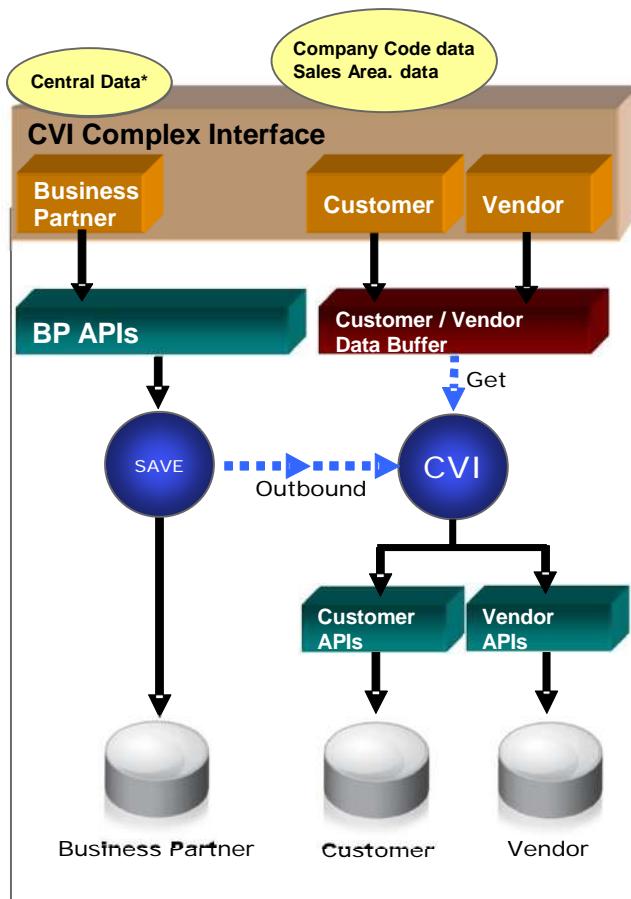
Partially, the data of the Business Partner and Customer/Vendor are redundant (BUT000 against KNA1 & LFA1 data). *For instance 'Name and Address specific attributes' are available in both persistencies.*

**Customer or Vendor specific data** is routed through the Customer/Vendor specific interface and mixed up with the Business Partner central data.

On commit, the **Business Partner and corresponding Customer and/or Vendor** is maintained / created.

# Master Data Governance Capabilities

## 2 Integrated Object Model: Customer/Vendor Integration



### Example: Customer Creation

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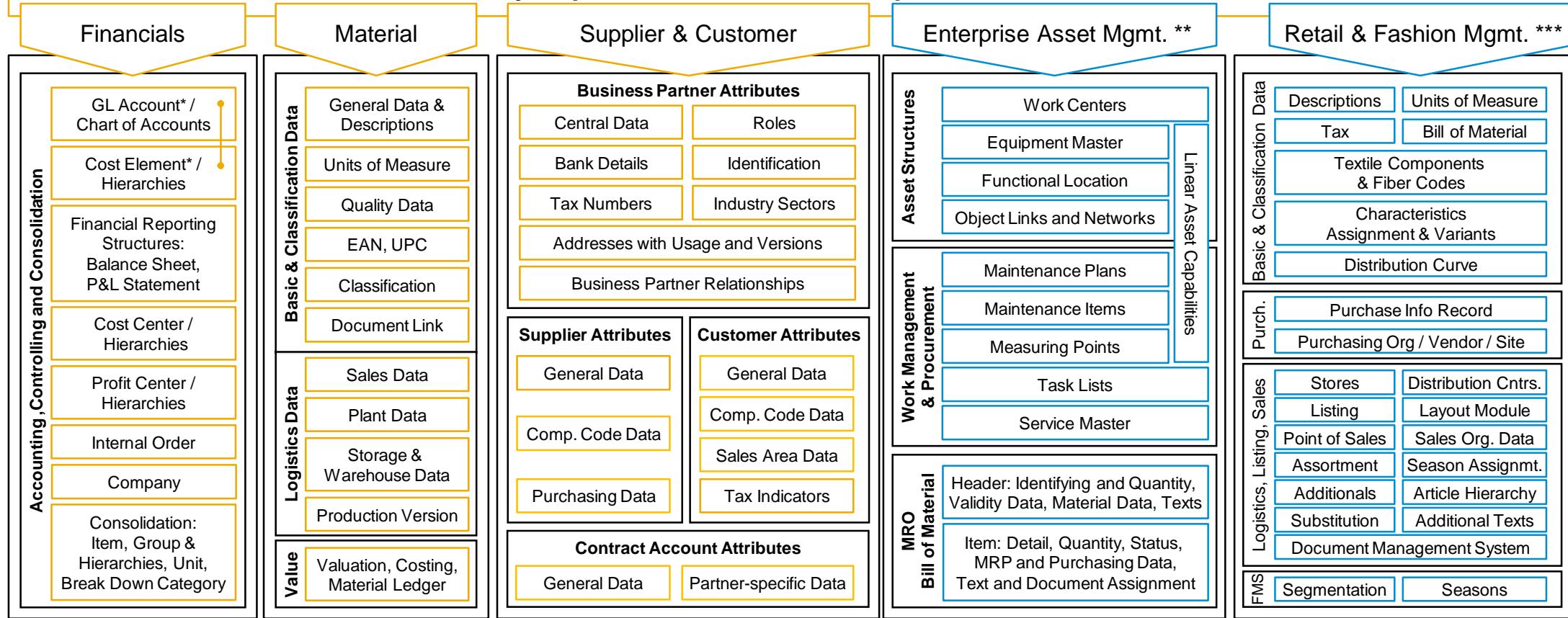
**Customer or Vendor specific data** is routed through the Customer/Vendor specific interface and mixed up with the Business Partner central data.

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# SAP Master Data Governance

## Integrated Object Model

**Out-of-the box delivery of proven data models for operational and financial master data**



\* User interface integration between GL Account and Cost Element only supported in SAP MDG on SAP S/4HANA

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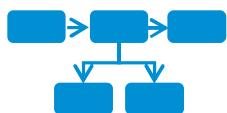
\*\* SAP MDG, enterprise asset mgmt extension by Utopia

\*\*\* SAP MDG, retail & fashion mgmt. extension by Utopia

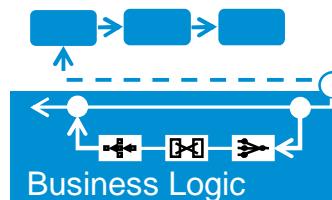
# Master Data Governance Capabilities

3

Governance, Collaboration...



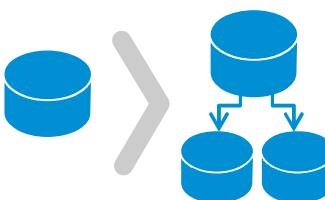
Linear or distributed and workflow based



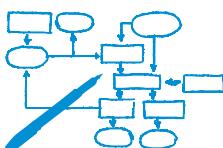
Possibility to extend the process by adding business logic and thereby bringing in data quality



Has roles and responsibilities and also task authority (e.g. create, change, approve)



Data in process stored in a separate repository, will be transferred to operational database after final approval



Can be adapted and tailored based on customer needs



Flexible enough to respect the distributed responsibilities existing in a company across various business units

# Master Data Governance Capabilities

## 3 ...and Data Quality

Prevent creation of duplicates for increased effectiveness and efficiency

- Y Checked early and embedded in the process
- Y High detection quality of matching using SAP HANA-based or Enterprise Search

### Validations

- Y Reuse of existing validation logic
- Y Custom validations can be modelled and programmed  
(For example, code lists, simple checks, or rules using BRFplus)
- Y Integration of rules from MDG, Data Quality Management

### Address Enrichment

- Y Simple check and selection lists
- Y Integration with content provided by SAP Data Quality Management
- Y Automatically adding Tax Jurisdiction Code reusing interfaces/ providers

Checked Record:

...	Bus...	Tel...	Street	Hous...	Postal...	City	Country	Region	Name / last name	...
	66355		Schweizerstr.	11	69123	Heidelberg	Germany		CKC HEIDELBERG	

Potential Duplicates Found:

...	Bus...	Tel...	Street	Hous...	Postal...	City	Country	Region	Name / last name	...	Score
	7035		Schweizerstr.	11	69124	Heidelberg	Germany	Baden...	CKC HEIDELBERG		96,74

[Continue](#) [Switch to Duplicate](#)

Address

House Number / Street:	123	Broadway	
City / State:	New York	NY	New York
ZIP Code:	123456		
Country:	US	USA	
District:	! The postal code 123456 must have a length of 5 or 10 - Display Help		
Language:	! No jurisdiction code could be determined		
Tax Jurisdiction:			

Address Validation - Review Changes

Please review Address validation results		
Address Component	Original Address	Validated Address
House Number	100	100
House no. suppl.		
Street	Broadway	Broadway
City	New York	New York
Region		NY
Postal Code	10014	10005-1999
Country	US	US

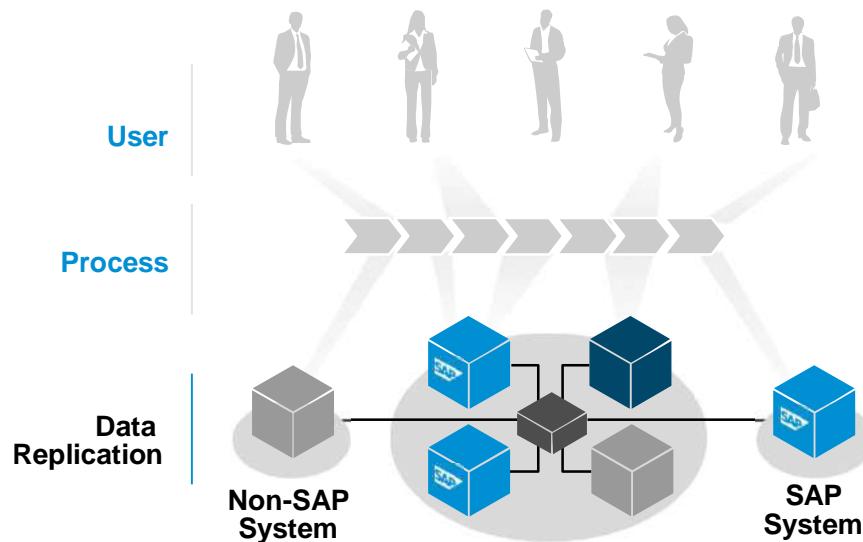
[Accept Validated Address](#) [Back](#) [Use Original Address](#) [Cancel](#)

Number / Street:	100	Broadway
City / State:	New York	
ZIP Code:	10014	
Country:	US	USA
District:	NEW YORK	
Language:	EN	English
Tax Jurisdiction:	3308120101	
Delivery Zone:		
Code / PO Box:		
Without Number:	<input type="checkbox"/>	
Company Postal Code:		

# Master Data Governance Capabilities

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## Robust Data Replication



### Replication

- Ŷ Direct, pooled or manual replication to SAP and non-SAP systems
- Ŷ Peer-to-peer or mediated

### Replication Techniques

- Ŷ DRF controlling replication mechanisms like
  - Ŷ ALE for SAP S/HANA OP, SAP ERP 6.0, R/3 and non-SAP systems
  - Ŷ SOA service for SAP and non-SAP systems
  - Ŷ RFC and File for SAP and non-SAP systems
- Ŷ CIF for SAP SCM and MW for SAP CRM/SRM

### Replication Features

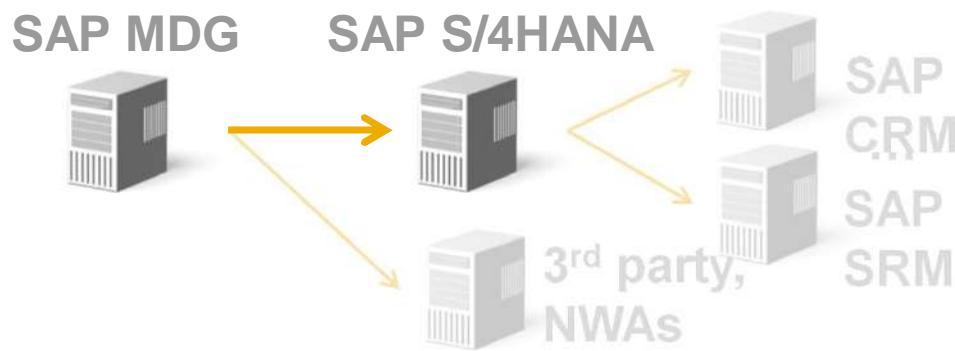
- Ŷ Flexibility to replicate selected data only to a specific client system by defining filters (controlled by DRF)
- Ŷ Support of different object IDs or customizing keys between hub and client systems (via mapping in MDG or PI)
- Ŷ Monitoring and error handling

# Master Data Governance Capabilities

Deployment Options: Consciously Decide for a Central hub or Co-deployment

## Deploy SAP MDG...

- ⋮ ... as standalone system / master data hub



- ⋮ ... on top of an operational S/4HANA / ERP 6.0



## ⋮ Customers typically choose to...

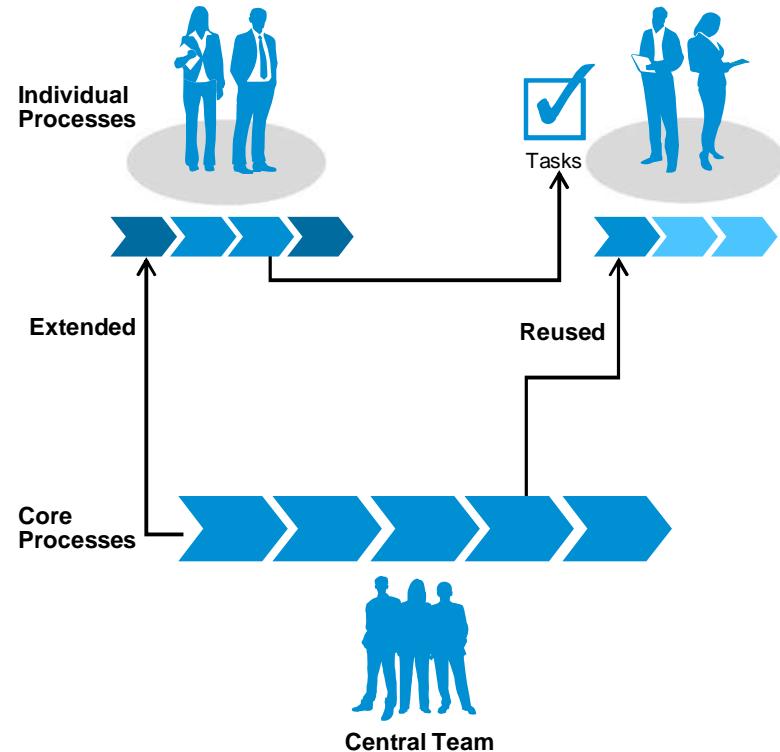
- ... create a dedicated master data hub and distribute to all operative systems from there, or
- ... co-deploy\*) with their single instance SAP S/4HANA / ERP 6.0 (or pick one of their SAP S/4HANAs / ERP 6.0s as the master for a particular domain) and create and distribute master data from there

\*) if speed of innovation in their S/4HANA systems does not allow for quick introduction of SAP MDG, some customers create a separate system first, and re-combine later

# Master Data Governance Capabilities

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## Reusability & Extensibility



### Reuse standard content

- Y Reuse existing data structures and functionality of SAP S/4HANA

### Enhance functionality

- Y Be able to enhance MDG functionality based on predefined content or customer-specific extensions

### Extend data structures

- Y Provide easy-to-use extensibility capabilities for enhancing nodes and fields
  - Y Data models
  - Y User interfaces
  - Y Processes
  - Y Data replication

# **Agenda**

Introduction

SAP Master Data Governance Capabilities

## **Function in Detail**

Integration Scenarios

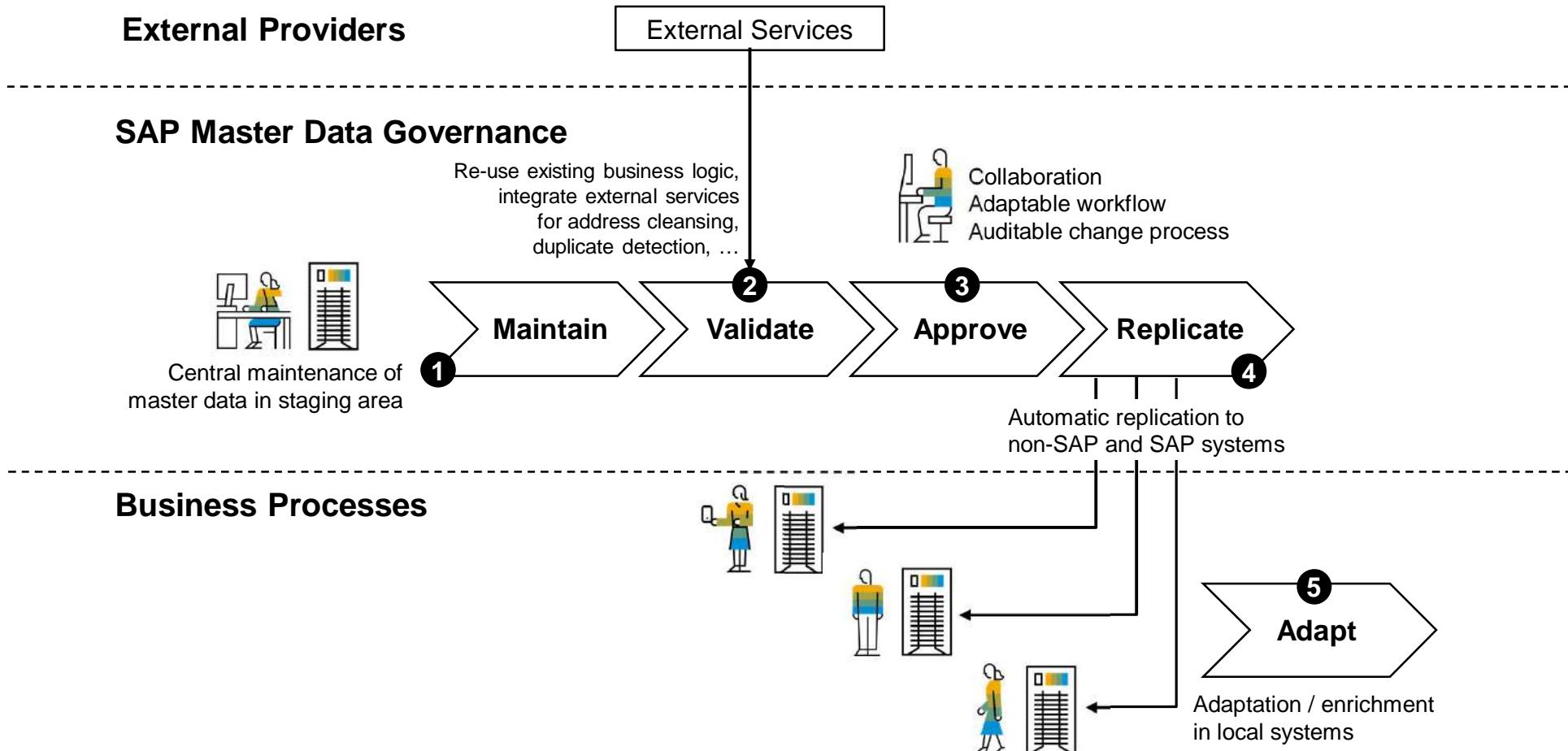
Solution Benefits

# Function in Detail

- **Processes**
- User Interface
- Business Partner Data
- Data Quality
- Data Replication
- Client Maintenance
- Cleansing
- Processing of Multiple Objects
- Hierarchies
- MDG Framework Capabilities and Process Analytics
- Data Protection
- MDG for FI Contract Account

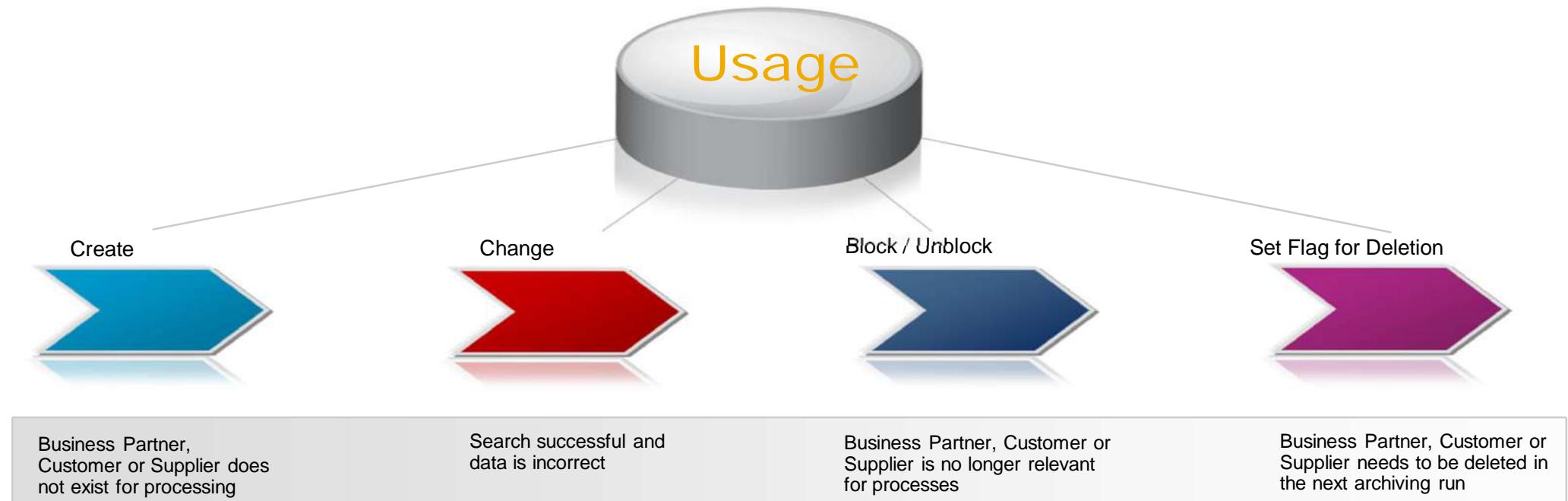
# SAP Master Data Governance, Central Governance

## Process Flow



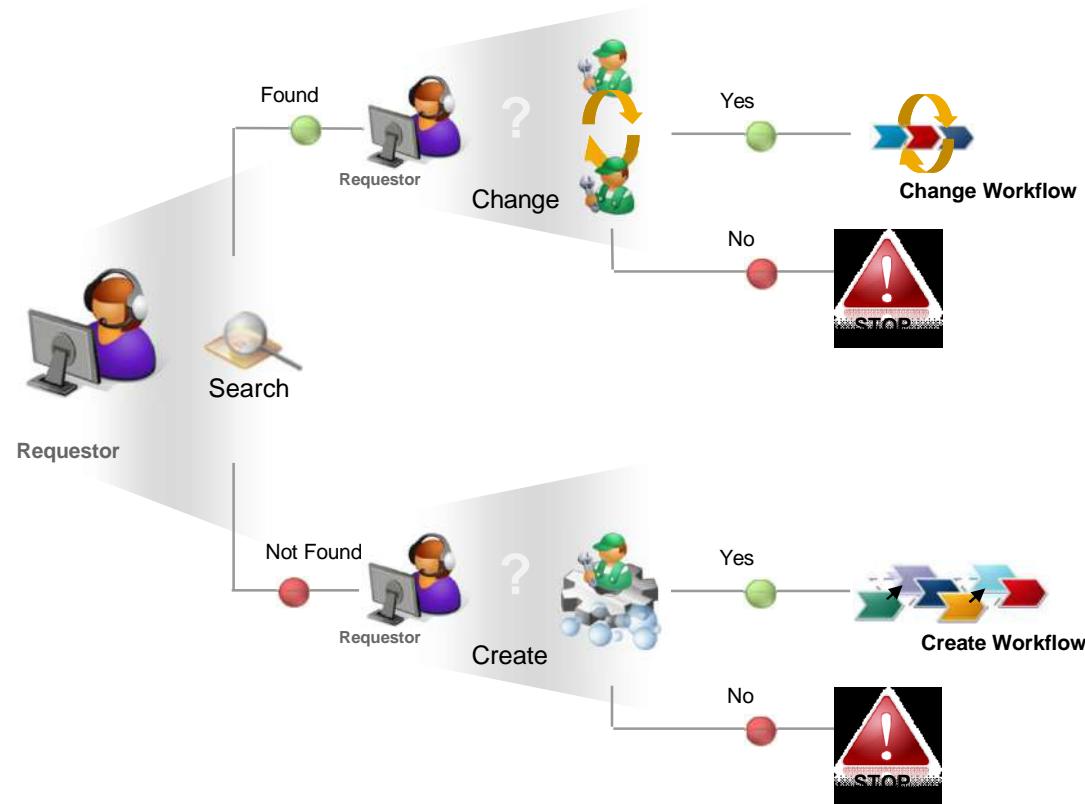
# Function in Detail: Processes

When to Use Which Process?



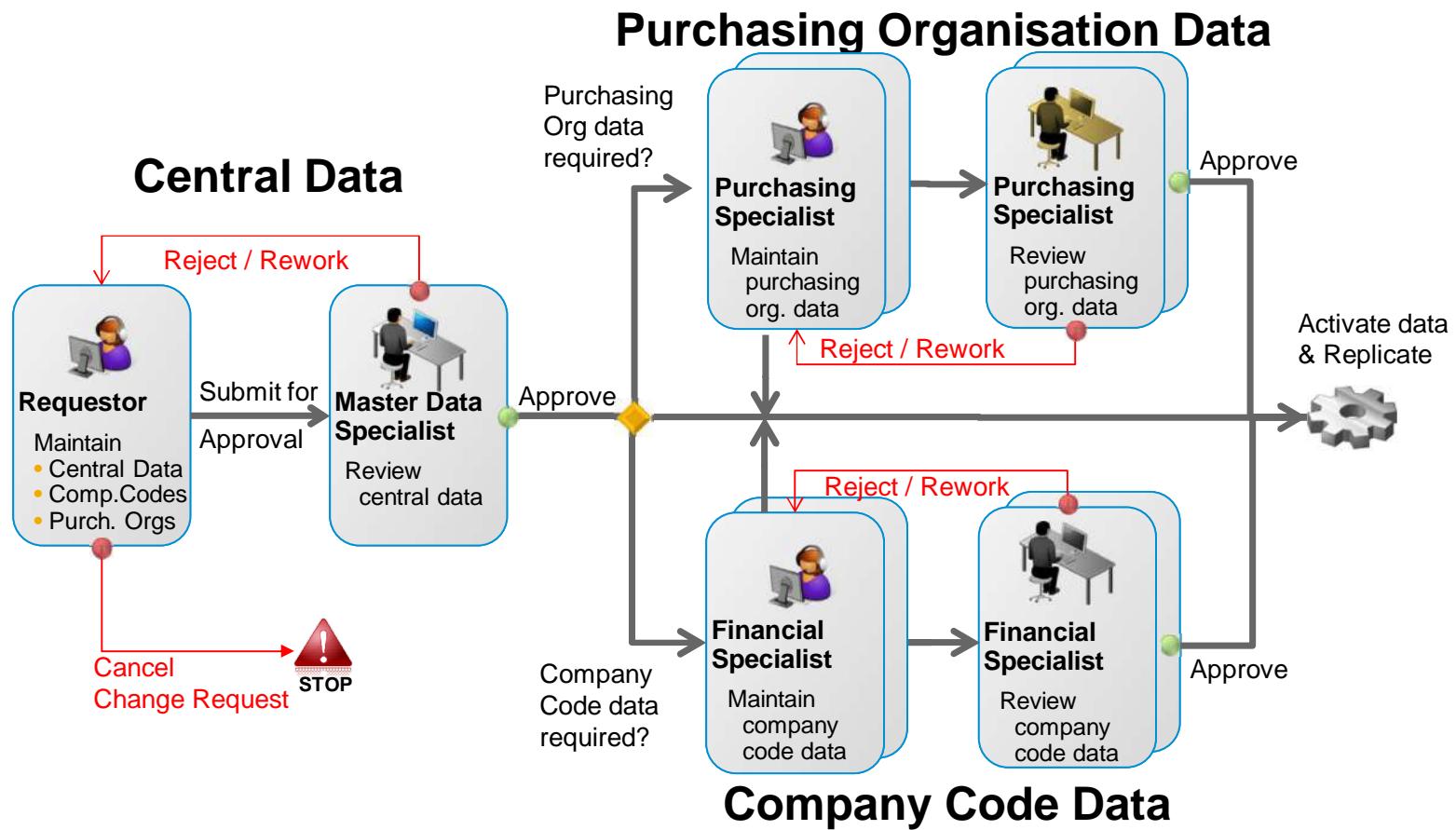
# Function in Detail: Processes

## Navigation to Create / Change Process



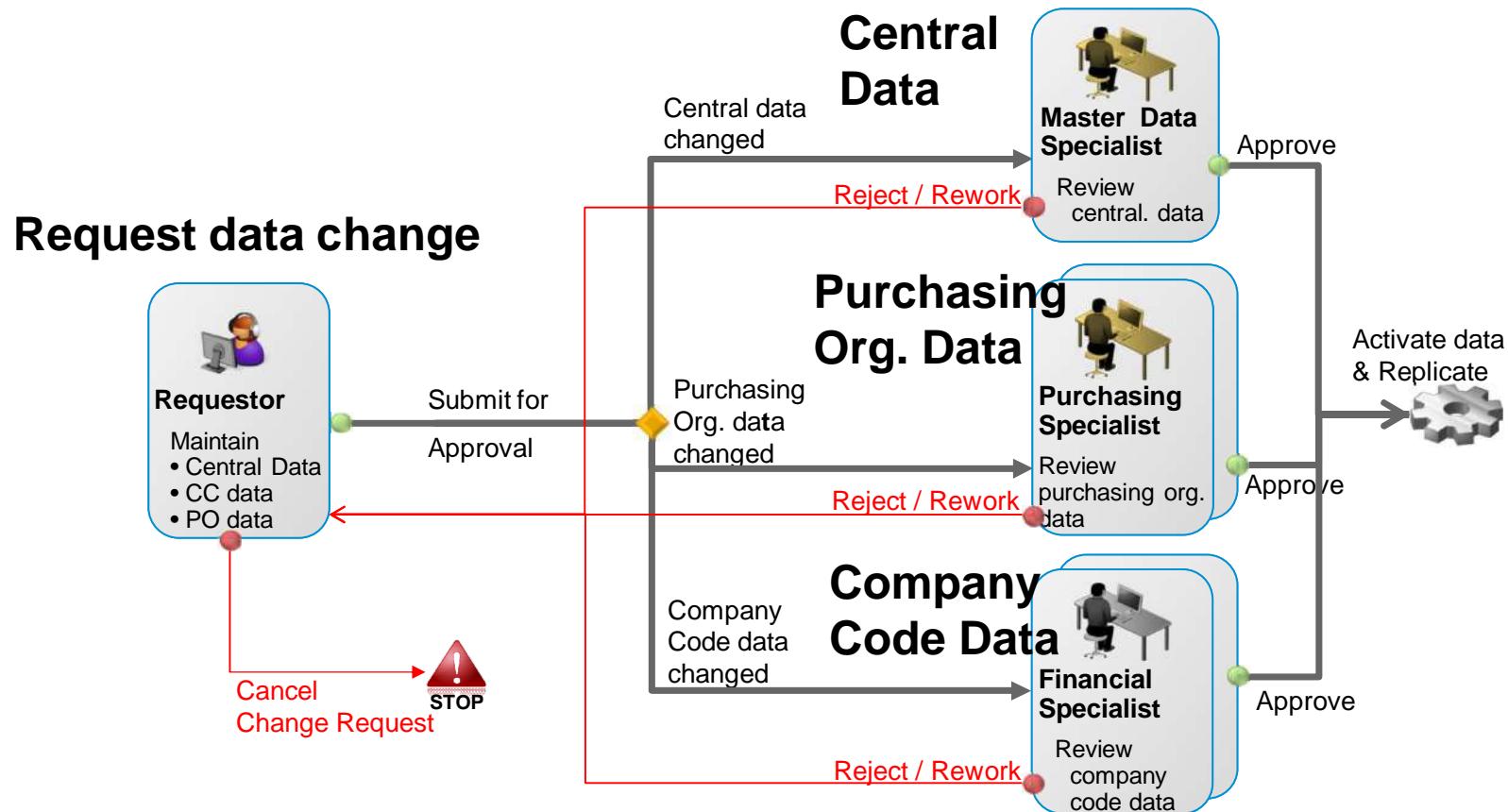
# Function in Detail: Processes

Workflow Template: Create Supplier (Distributed)



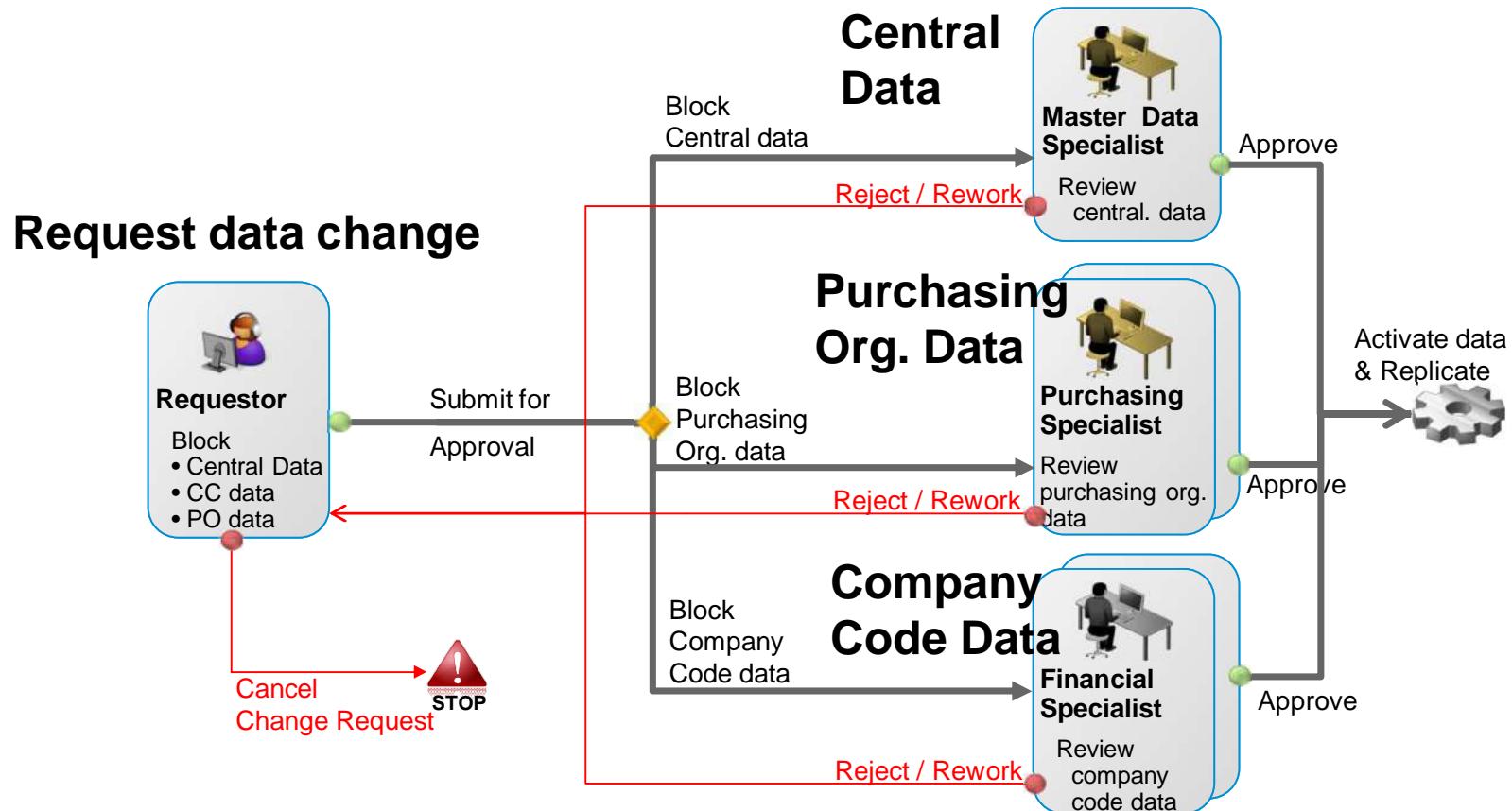
# Function in Detail: Processes

Workflow Template: Change Supplier (Distributed)



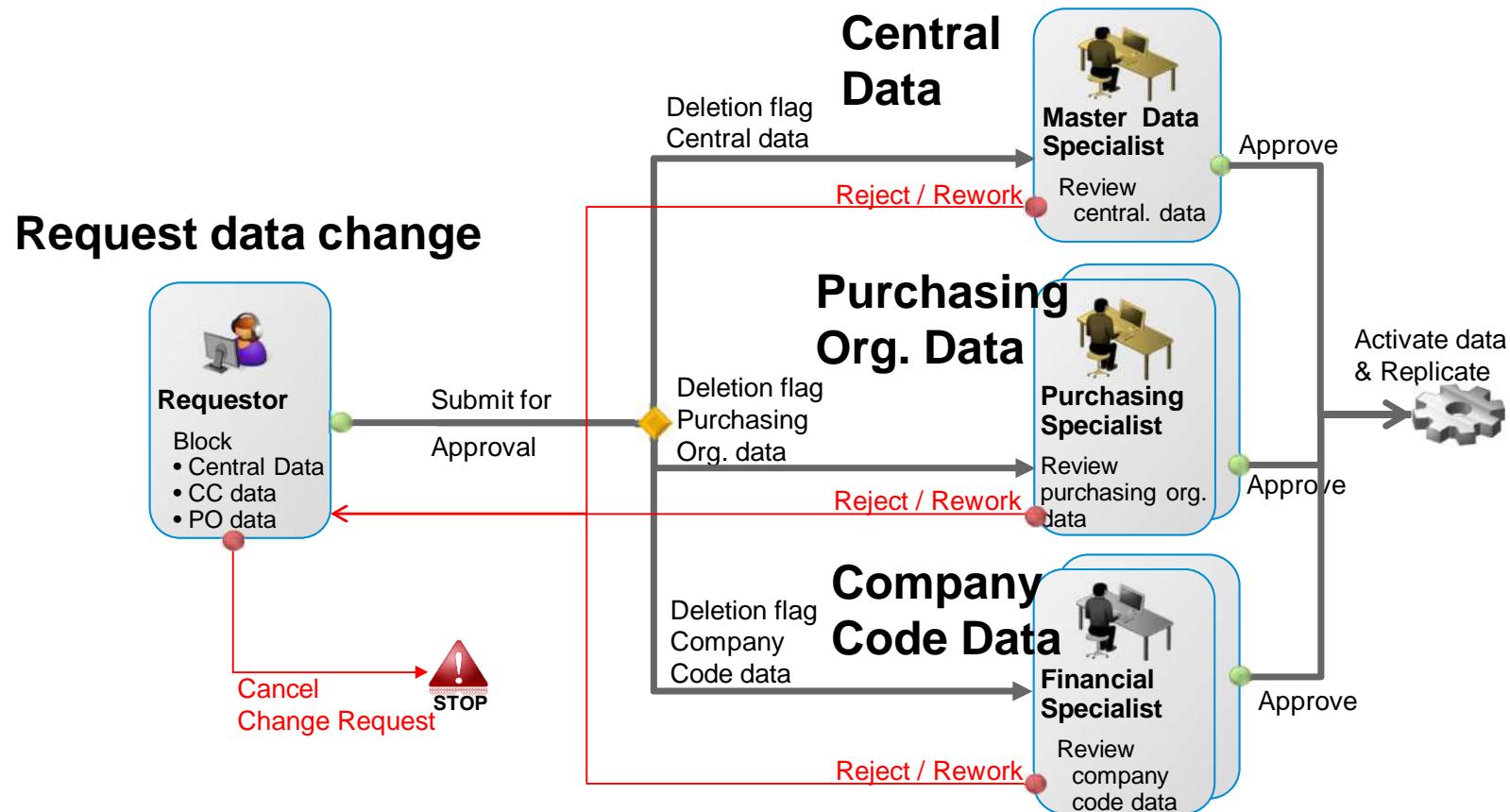
# Function in Detail: Processes

Workflow Template: Block / Unblock Supplier (Distributed)



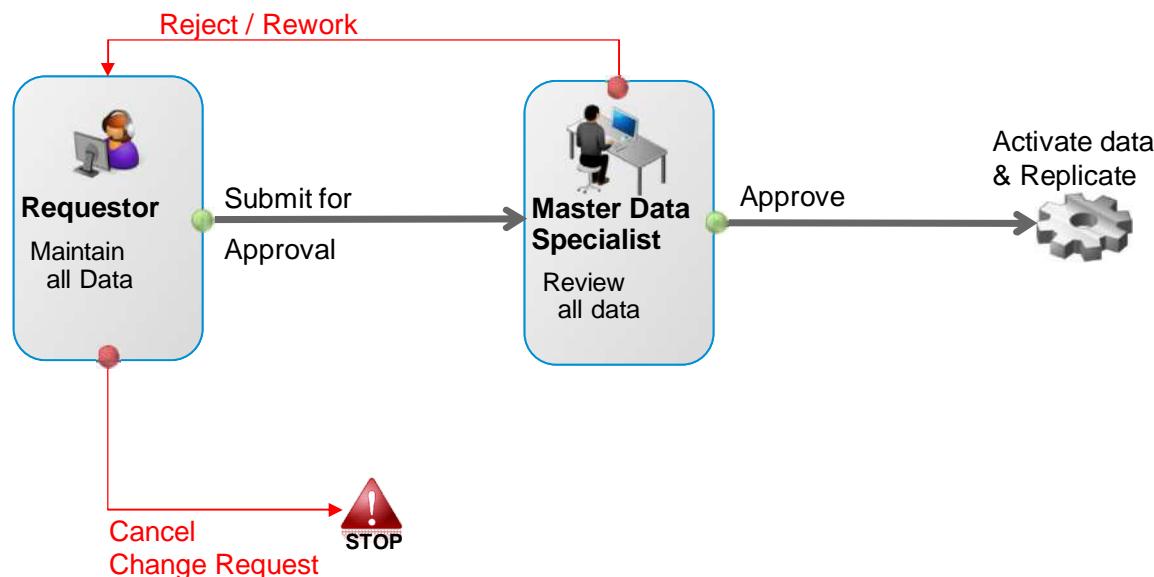
# Function in Detail: Processes

Workflow Template: Set Flag for Deletion Supplier (Distributed)



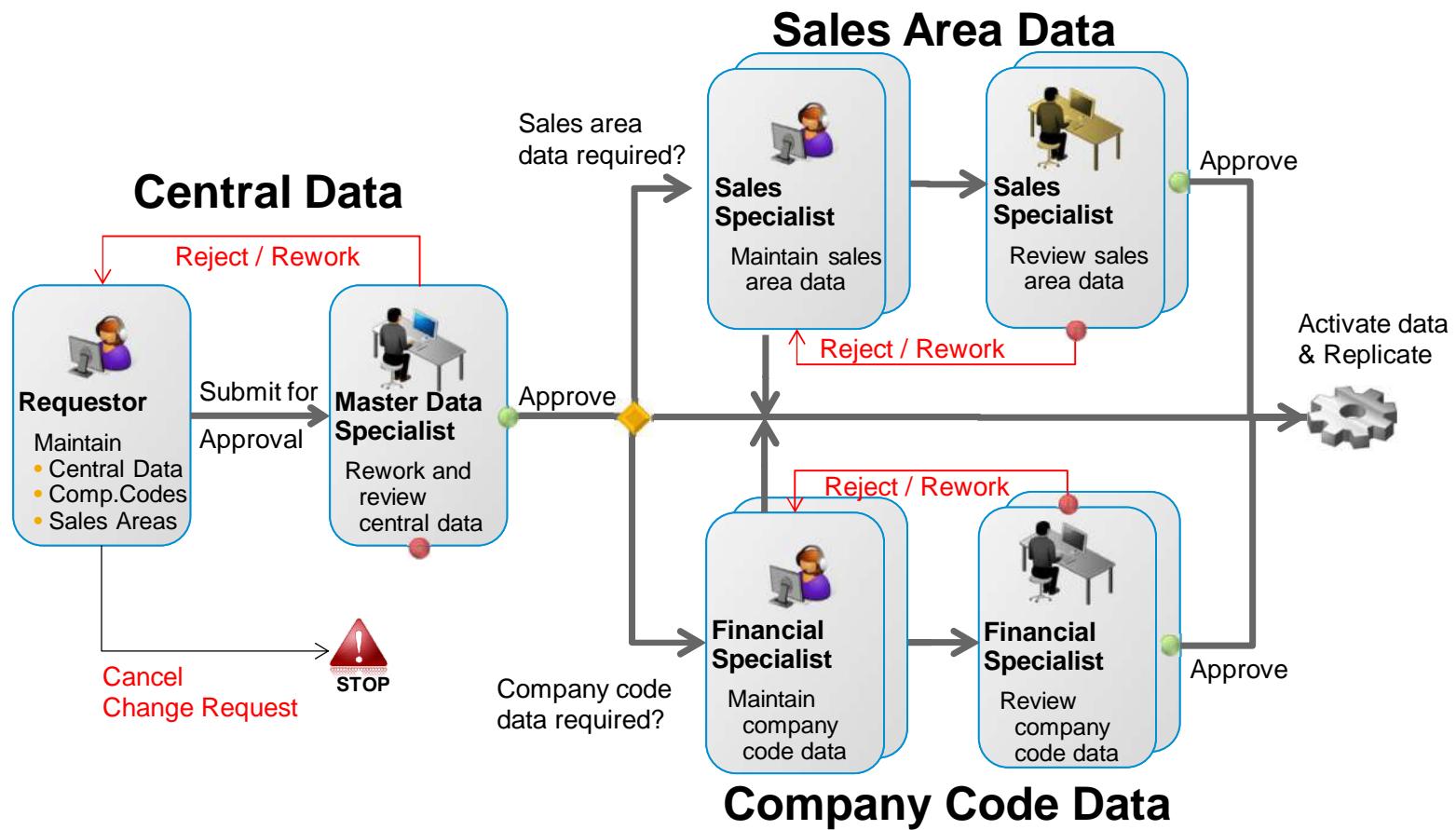
# Function in Detail: Processes

Workflow Template: Create / Change / Block / Set Flag for Deletion Supplier (Simple)



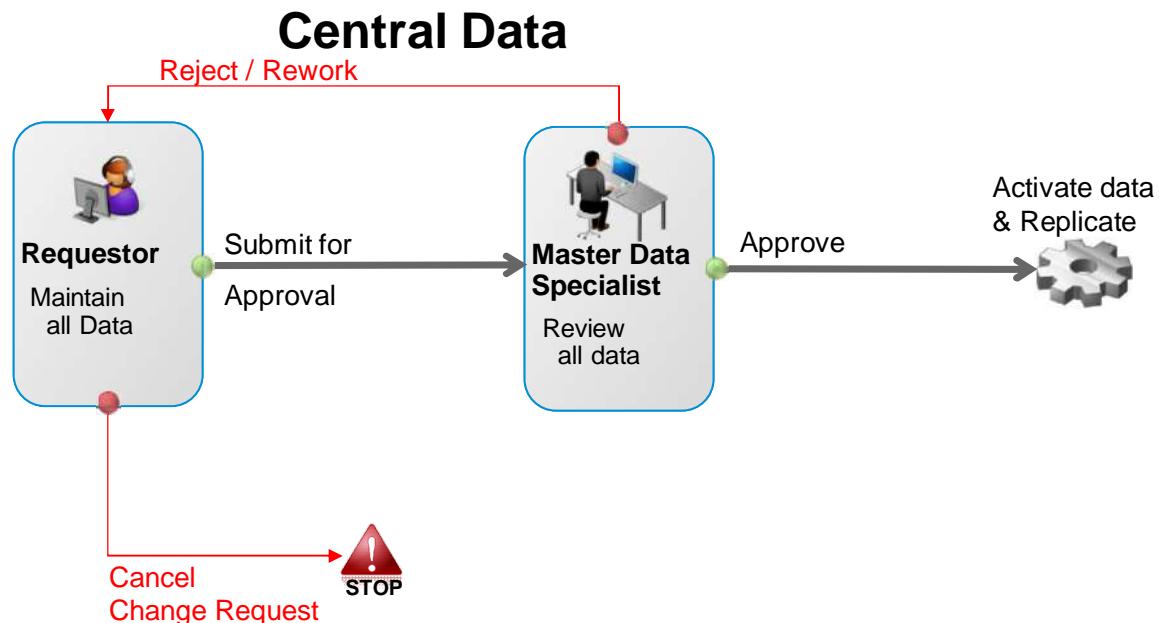
# Function in Detail: Processes

Workflow Template: Create Customer (Distributed)



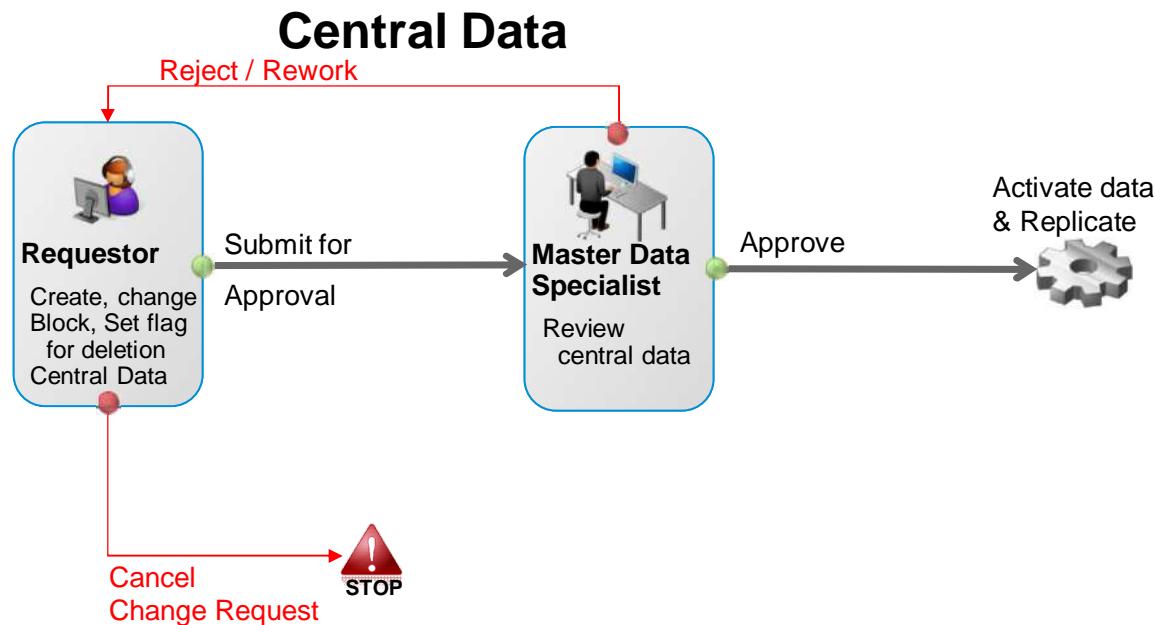
# Function in Detail: Processes

Workflow Template: Create / Change / Block / Set Flag for Deletion Customer (Simple)



# Function in Detail: Processes

Workflow Template: Create / Change / Block / Set Flag for Deletion Business Partner (Simple)



# Function in Detail: Processes

## Workflow Templates Out-of-the-Box

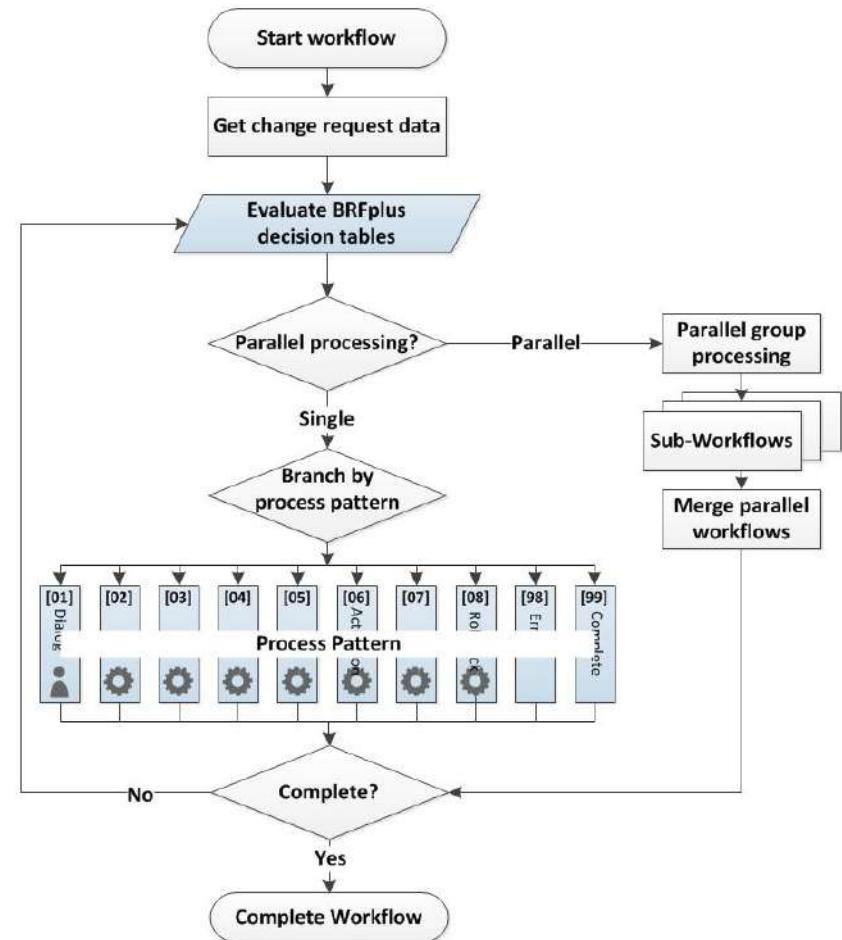
Title	Process	WF Technique
Simple workflow	Two-step workflow <ul style="list-style-type: none"><li>Starting with a requester</li><li>Completed by an approver who is also allowed to change / enrich the data.</li></ul>	SAP Business Workflow (Supplier + Customer) Rule-based Workflow WS60800086 (Business Partner)
Distributed workflow	Separate process steps for Central data, Financials data, and Sales / Purchasing data providing 4-eyes principle for each segment. Process for Financials data and Sales / Purchasing data run in parallel.	SAP Business Workflow
Fiori workflow	Three-step workflow with <ul style="list-style-type: none"><li>A requester maintaining a limited number of fields</li><li>A data steward changing / completing the data</li><li>Another data steward to finally approve the data.</li></ul>	Rule-based Workflow WS60800086

# Function in Detail: Processes

## Workflow Templates Out-of-the-Box

### Rule-Based Workflow Template

- § The generic workflow template (WS60800086) is the foundation of the RBWF. The different processes are reflected by BRFplus decision tables, which are maintained in the Customizing for each change request type.
- § The combination of this workflow template with the BRFplus decision tables allows you to easily set up many different processes that can be flexibly changed through Customizing.



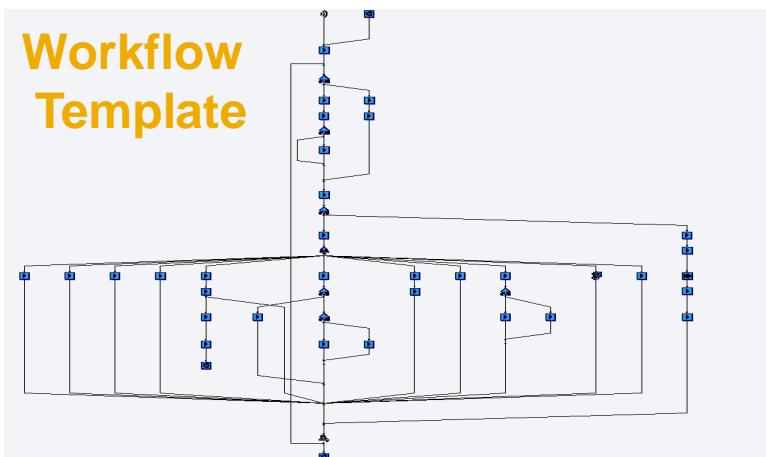
# Function in Detail: Processes

## Rule-Based Workflow Components

### Customizing

Type of Cfg. Request	Data Model	Description (medium text)	Objects Required	Single Object	Parallel	Main Entity Type	Workflow
BP1P1	BP	Create Business Partner	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086
BP1P2	BP	Create Bus. Partner w. Hry. Assignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086
BP2P1	BP	Process Business Partner	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086
BP2P2	BP	Process Bus. Partner w. Hry. Assignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086
BP5P1	BP	Block/Unblock Business Partner	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086
BP6P1	BP	Mark Business Partner for Deletion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086
BPCC1	BP	Process BP Cleansing Case (BP only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086
BPCC2	BP	Process Business Partner Cleansing Case	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086
FKK1P1	BP	Create Contract Account	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FKKV_K	WS60800086
FKK2P1	BP	Change Contract Account	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FKKV_K	WS60800086
SUF1P1	BP	Create Supplier (SAP Fiori)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BP_HEADER	WS60800086

### Workflow Template



### BRFplus Decision Tables

#### Decision Table: DT\_SINGLE\_VAL\_MAT01

##### Table Contents

CR Previous Step	Previous Action	Cond...	New Chng. Req...	New CR Status
00 (Processing)		1	90 (Final Check)	02 (Changes to Be Executed)
90 (Final Check)	09 (Activate)	2	91 (Activation)	02 (Changes to Be Executed)
90 (Final Check)	10 (Send for Revision)	3	95 (Revision Pro...)	02 (Changes to Be Executed)
91 (Activation)	31 (Activation successful)	4	99 (Complete)	01 (Final Check Approved)
91 (Activation)	<>31 (Activation successful)	5	90 (Final Check)	11 (Process Errors After Activation)
92 (Revision)		6	99 (Complete)	06 (Final Check Rejected)
95 (Revision Proces...	07 (Submit Request)	7	90 (Final Check)	02 (Changes to Be Executed)
95 (Revision Proces...	08 (Withdraw)	8	92 (Revision)	02 (Changes to Be Executed)

#### Decision Table: DT\_USER\_AGT\_GRP\_MAT01

##### Table Contents

Condition Al...	User Agt ...	Step Type	User Agent T...	User Agent Value...
1; 5; 7	001	5 (Activate Change Request)	US (User)	ANZEIGER
3	001	4 (Revise Change Request)	US (User)	ANZEIGER

#### Decision Table: DT\_NON\_USER\_AGT\_GRP\_MAT01

##### Table Contents

Condition Al...	Agent Group	Process Pattern
2	001	05 (Activation (Do Not Bypass Snapshot))
4; 6	001	99 (Complete (Sub-)Workflow)
8	001	08 (Roll Back Change Request)

# Function in Detail: Processes

Workflow-Step-Dependent Configuration Enables Flexible UI / Process Design

## UI Configuration

Provide different User Interface per WF-step based on task / knowhow of the user. Example: Lean Request UI

## Validations

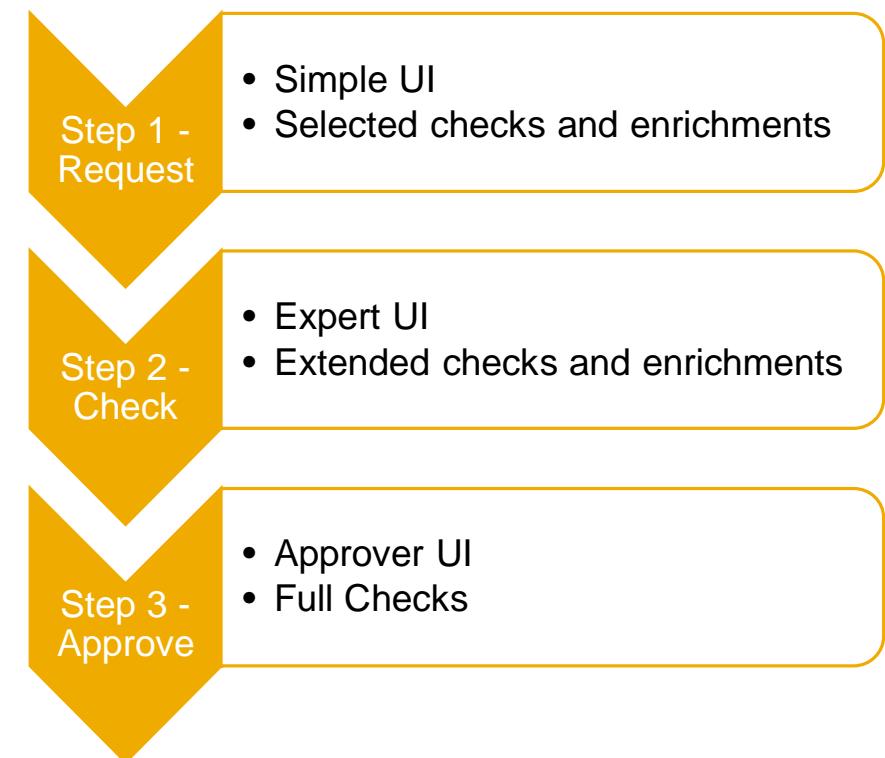
Enable or disable checks / enrichments

Example: Switch off required field check and address validation in Lean Request UI

## Field properties

Set some data to read-only

Example: Processor for company code 0001 can only maintain these fields



# Function in Detail

- Processes
- **User Interface**
- Business Partner Data
- Data Quality
- Data Replication
- Client Maintenance
- Cleansing
- Processing of Multiple Objects
- Hierarchies
- MDG Framework Capabilities and Process Analytics
- Data Protection
- MDG for FI Contract Account

# Function in Detail: User Interface

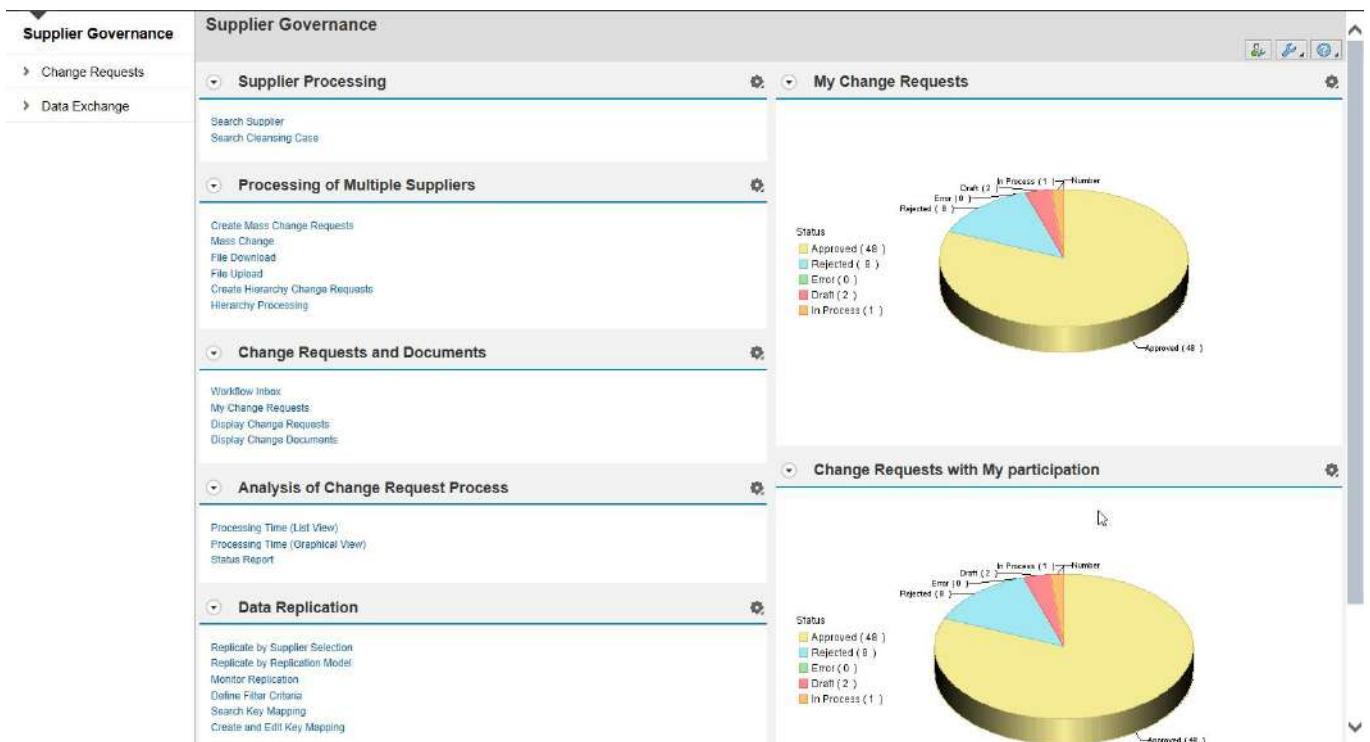
Homepage for NW Business Client

All relevant tasks reachable with one click

Additional analysis / graphics like 'Change Requests with my participation' can be integrated

Easy to configure and personalize

## Example: Supplier

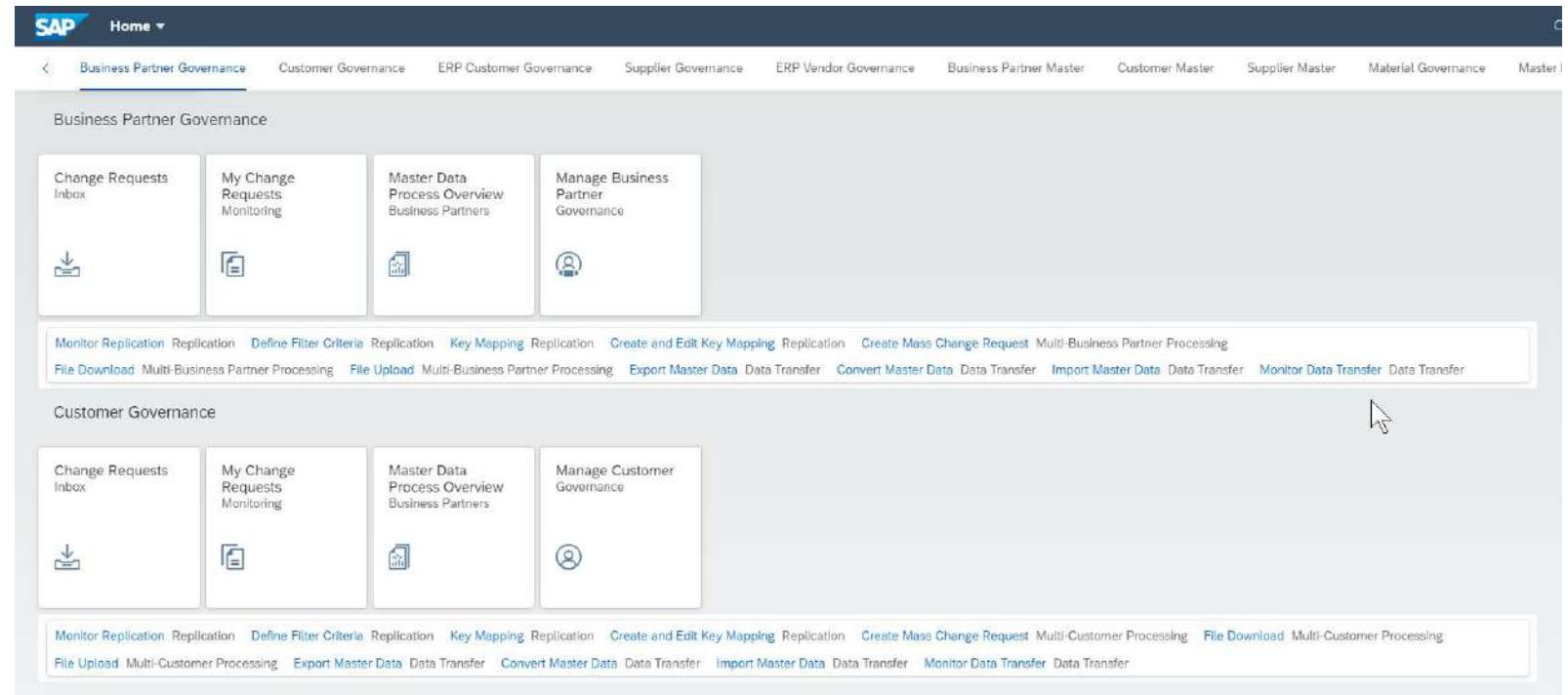


# Function in Detail: User Interface

Fiori Launchpad for MDG on S/4HANA

All relevant tasks  
reachable with one  
click

Easy to configure  
and personalize



SAP template Business Role: SAP\_BR\_BUPA\_MASTER\_SPECIALIST

# Function in Detail: User Interface

## Workflow Inbox

The screenshot shows the SAP Lean Workflow Inbox Application interface. At the top, there is a header bar with the SAP logo and the title "Lean Workflow Inbox Application". Below the header, a navigation bar includes links for "Change Requests (885)", "Show Quick Criteria Maintenance", "Change Query", "Define New Query", and "Personalize". A toolbar below the navigation bar contains buttons for "View: Standard View", "Process Change Request", "Display Workflow Log", "Complete Processing", "Not Responsible", "Complete", "Resubmit", "End Resubmission", "Forward", "Assign To Me", "Cancel Assignment", "Substitution", "Refresh", "Print Version", and "Export". The main content area displays a table of change requests with the following columns: Subject, From, Sent On, and Status. The table contains five rows of data, each representing a different change request with its subject, sender information, send date, and status.

Subject	From	Sent On	Status
Approve Change Request 12977 : Central Data	N	05.05.2020 22:13:01	To Be Considered and Approved
Approve Change Request 12977 : SUPPLIER ( Standard ) Data of Company Code 0001	N	05.05.2020 22:13:00	To Be Considered and Approved
Approve Change Request 12977 : SUPPLIER ( Standard ) Data of Purchasing Organization 0001	N	05.05.2020 22:13:00	To Be Considered and Approved
Approve Change Request 13012 : Central Data	Y	05.05.2020 21:55:52	To Be Considered and Approved
Approve Change Request 12998 : Central Data	N	05.05.2020 19:11:21	To Be Considered and Approved

# Function in Detail: User Interface

UI Configurations: Overview of out-of-the-box configurations

Title	Process	Configuration
BP-UI	UI consisting of all data (central data as well as organizational data) of a BP, customer and / or supplier. Separate pages for BP data, central customer / supplier data as well as organizational data.	WD-App: BS_OVP_BP BS_OVP_BP BS_OVP_CU BS_OVP_SP BS_OVP_BP_ALL
ERP Customer / ERP Vendor like UI	UI consisting of all data (central data as well as organizational data) of a customer or a supplier. Look & feel very similar to ERP Customer / ERP Vendor UI in ERP standard.	WD-App: BS_OVP_BP BS_OVP_CU_CL BS_OVP_SP_VL
Specialized UIs for org. data	UI for Sales, Purchasing, Financial specialists consisting of organizational data for one organizational unit.	WD-App: BS_OVP_BP BS_OVP_CU_ORG BS_OVP_SP_ORG
Fiori UIs	Lean UIs to request new customer, supplier or Business Partner; intended for business users with no / limited MDG knowledge UIs to approve new or changed customer / supplier; intended for experts approving MD changes Implemented as Fiori applications running on all devices.	

# Function in Detail: User Interface

## UI Configurations: BP Maintenance UI

The screenshot displays the SAP Business Partner Maintenance UI. At the top, the SAP logo is visible, followed by the organization information: Organization: 60224, Manns Marketing Co / Newton IA 50208-4919. The top navigation bar includes Refresh, Check, Undo, Redo, Side Panel, and various status indicators.

The main interface is divided into two main sections:

- Change Request:** This section contains fields for Change Request (12312), Description (Change Adress), Priority (Low), Due Date, Reason, Status (Changes to Be Executed), Current Work Item (New Change Request), Created On/By (26.05.2020 23:37:23 EI), and Type of Change Request (CUST2PI / Process Customer).
- Customer Details:** This section is further divided into General Data and Organizational Data. General Data includes fields for Business Partner ID / Grouping (60224), Internal Number Assignment, Title, \* Name 1 (Manns Marketing Co), Name 2, Salutation, Search Term (EMM), Print Format, House Number / Street (901), City / State (Newton, IA, Iowa), ZIP Code (50208-4919), County (US, USA), District, Language, Tax Jurisdiction, Transportation Zone, PO Box Postal Code / PO Box, PO Box Without Number, Company Postal Code, and Address (5 13th Ave E). Organizational Data includes fields for Legal Entity, Legal Form, Date Founded, Liquidation Date, and Authorization Group (Stakeholder Visibility 0 (Unrestricted)). Communication Data fields include Telephone (Country, Number, Extension), Mobile (Country, Number), Fax (Country, Number, Extension), E-Mail Address, and Web Site.

At the bottom right of the form, there are Save, Submit, and Cancel buttons.

# Function in Detail: User Interface

UI Configurations: ERP Customer-like UI

Goal: Support data maintenance in a way that is very much like ERP Customer Master

Every new BP automatically becomes an ERP Customer

Display ERP Customer number and select account group instead of BP number and BP grouping

Identifying data (name, address, bank accounts, etc.) and general customer data (Control data, Company codes, Sales areas, etc.) on one screen

BP role derived in the background

Maintain contact persons similar to ERP Customer Master

The screenshot displays the SAP Fiori user interface for creating an organization. At the top, there's a header bar with 'Organization: \$1640, ABC AG / 69117 Heidelberg'. Below it, a 'Check' button and a dropdown for 'Description' (set to 'Create ABC AG') are visible. The main area contains fields for 'Priority', 'Due Date', and 'Reason'. To the right, status information like 'Created On By' and 'Changed On By' is shown. The central part of the screen is titled 'ERP Customer Details' and contains several sections: 'Administrative Data' (with 'Customer' and 'Account Group' dropdowns), 'General Data' (with 'Title' set to 'Company' and 'Name 1' set to 'ABC AG'), 'Communication Data' (with fields for telephone, mobile, fax, email, and web site), and 'Control Data' (which is expanded to show sub-sections like 'Tax Numbers', 'Bank Accounts', and 'Contact Persons'). The 'Name 1' field and the entire 'Control Data' section are highlighted with a yellow border.

# Function in Detail: User Interface

UI Configurations: ERP Vendor-like UI

Goal: Support data maintenance in a way that is very much like ERP Vendor Master

Every new BP automatically becomes an ERP Vendor

Display ERP Vendor number and select account group instead of BP number and BP grouping

Identifying data (name, address, bank accounts, etc.) and general vendor data (Control data, Company codes, Purchasing organizations, etc.) on one screen

BP role derived in the background

The screenshot displays two overlapping SAP application windows. The top window is titled 'Change Request' and shows fields for Change Request ID (5006), Description (Create vendor ABC AG), Priority, Due Date, and Reason. It also includes sections for Process Data (Status: Changes to Be Executed, Current WorkItem: New Change Request, Created OnBy: 27.12.2013 10:07:04, Changed OnBy: 27.12.2013 10:10:32). The bottom window is titled 'ERP Vendor Details' and contains tabs for General Data, Administrative Data, Address, Communication Data, and Control Data. The 'Administrative Data' tab is active, showing fields for Vendor (ABC AG) and Account Group (Vendor (InNumber assignment)). The 'Address' tab shows Street/House Number (Unter den Linden 11), Postal Code/City (11111 Berlin DE), Country (Germany), Region (DE), Language (German), Transportation Zone, PO Box Postal Code/PO Box, PO Box Without Number, and Company Postal Code. The 'Control Data' tab lists Reference Data, Tax Numbers, Tax Information, Bank Accounts, Payment Transactions, Company Codes, and Purchasing Organizations. A yellow box highlights the 'Vendor' field in the Admin Data section and the entire 'Control Data' tab.

# Function in Detail: User Interface

UI Configurations: Specialized UI, Maintain / approve Company Code data

UI contains data of the relevant company code only

Direct navigation from inbox to the UI

Finalize processing of the task on the same page

The screenshot shows the SAP Fiori Change Request interface. At the top, there's a toolbar with buttons for Save, Finalize Processing, Cancel, Check, Workitems, Change Documents, Workflow Log, Undo, Redo, and various icons. The main title is "Organization: \$3023, CKC Berlin / 10117 Berlin". Below it, a section titled "Change Request" is open, showing "General" tab details: Change Request ID: 5443, Description: Create CKC Berlin, Priority: , Due Date: , Reason: . To the right, "Process Data" shows Status: Dependent Data to Be Processed/Approved, Current Workitem: Process Change Request 5443: CUSTOMER (St..., Created On/By: 07.04.2014 18:33:18, Changed On/By: 07.04.2014 18:36:25. Below this, sections for "ERP Customer Details" and "Company Code" are visible. Under "Company Code", the "Company Code" section shows Company Code: 0001 MDG Company Code 0001. The "Company Code: Accounting Information" section contains fields for Reconciliation Account (140000), Head Office, Authorization Group, Value Adjustment, Sort Key (001), Planning Group (E2), and Release Group (Domestic customers). The final section shown is "Company Code: Interest Calculation".

# Function in Detail: User Interface

UI Configurations: Specialized UI, Maintain / approve Sales Area data

UI contains data of the relevant sales area only

Direct navigation from inbox to the UI

Finalize processing of the task on the same page

The screenshot shows a specialized user interface for maintaining Sales Area data. At the top, there's a header bar with buttons for Save, Finalize Processing, Cancel, Check, Workitems, Change Documents, Workflow Log, Undo, Redo, and various icons. Below the header, there are three expandable sections: 'Change Request', 'ERP Customer Details', and 'Sales Area'. The 'Sales Area' section is currently expanded, showing a form for 'Customer Sales Area' with fields for Sales Organization (0001 Sales Org. 001), Division (01 Product Division 01), Distribution Channel (01 Distribn Channel 01), and a 'Customer Sales Area' table. This table includes columns for Sales District (00002), Sales Office (001), Sales Group (01), Customer Group (01), ABC Classification, Currency (EUR), and Switch Off Rounding. To the right of the table, there are fields for Order Probability (%), Authorization Group, Item Proposal, Account at Customer, Unit of Measure Group, Exchange Rate Type, and PP Customer Procedure. Below the 'Customer Sales Area' section, there are two more sections: 'Sales Area: Sales Order' and 'Sales Area: Pricing Statistics', each with their own tables and edit buttons.

# Function in Detail: User Interface

UI Configurations: Specialized UI, Maintain / approve Purchasing Organization data

UI contains data of the relevant purchasing organization only

Direct navigation from inbox to the UI

Finalize processing of the task on the same page

The screenshot shows the SAP Fiori user interface for maintaining a Purchasing Organization. At the top, it displays the organization details: \$3029, CKC Mannheim / 68161 Mannheim. Below this is a toolbar with various buttons like Save, Finalize Processing, Cancel, Check, Workitems, Change Documents, Workflow Log, Undo, Redo, and others. The main content area is organized into sections:

- Purchasing Organization**: Shows the Purchasing Organization number 0001 MDG Purch. Org. 0001.
- Purchasing Organization: Conditions**: Contains fields for Order Currency (EUR), Minimum Order Value (100.00), Schema Group (Standard schema vendor), Terms of Payment (D01), Incoterms, and Pricing Date Control.
- Purchasing Organization: Sales Data**: Shows Salesperson (Thomas Miller) and Account with Vendor.
- Purchasing Organization: Control Data**: Contains fields for ABC Indicator, Mode of Transport - Border, Customs Office, Sort Criterion (By VSR sequence number), PROACT Control Profile, Shipping Conditions, Revaluation Allowed, Qualifying for Discount in Kin..., and several checkboxes for Goods Receipt-Based Invoicing, Automatic Evaluated Receipt, Acknowledgment Required, Automatic Purchase Order Generation, Subject to Subsequent Settlement, Index Compilation for Subsequent Settlement, and Comparison/Agreement of Business Partner.

# Function in Detail: User Interface

## UI Configurations: Fiori UI, Lean Request for new Customer

### Facts & Figures

- |   |  |
|---|--|
| § Help Portal:                            | Click <a href="#">here</a> for help documentation          |
| § Role:                                   | A general business user                                    |
| § Target Segment:                         | All employees including those with no MDG or SAP knowledge |
| § Functional and Technical Prerequisites: | MDG 7.0 SP02   |
| § Device and Browser Support:             | Desktop, iPad, Smartphone, IE9, Chrome                     |

### Business/Process Context

- MDG Fiori lean request for Customer is meant for a business user who does not have much expertise in MDG master data handling but would still like to request a new MDG Customer
- Such a business user may require a new Customer for his product, even while on the move. Rather than sending an email to or calling a Master Data Expert, he/she can raise a request to create new customer by using Lean MDG Fiori application for customer

### Typical Business Challenges

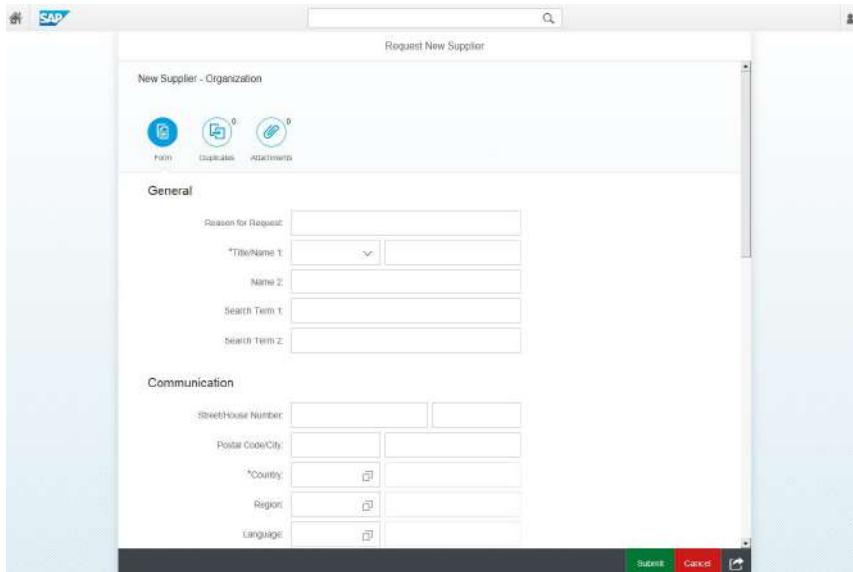
- Manual efforts (emails, phone calls) to create MDG customer when request comes from users either having no access to MDG or have no MDG / SAP knowledge
- Dependency on few employees having MDG knowledge to trigger MDG master data creation
- High TCO and TCD for improving the user experience for commonly used business functions of SAP MDG software

### Features and Capabilities

- An easy, simple and user-friendly UI for users with no master data expertise
- Provides a simple, easy-to-use and coherent experience across devices – desktop, tablet, or smartphone
- Leverages responsive design, the concept of making apps sensitive to the form factor of devices with a single user interface
- Automatic duplicate check when creating a new customer
- Attachment functionality to attach a document with request
- Supports creation of Organization or Person for a customer
- Supports US and Europe address form layouts for customer

# Function in Detail: User Interface

UI Configurations: Fiori UI, Lean Request for new Supplier



## Facts & Figures

- |   |  |
|---|--|
| § Help Portal:                            | Click <a href="#">here</a> for help documentation          |
| § Role:                                   | A general business user                                    |
| § Target Segment:                         | All employees including those with no MDG or SAP knowledge |
| § Functional and Technical Prerequisites: | MDG 7.0 SP02   |
| § Device and Browser Support:             | Desktop, iPad, Smartphone, IE9, Chrome                     |

## Business/Process Context

- MDG Fiori lean request for Supplier is meant for a business user who does not have much expertise in MDG master data handling but would still like to request a new MDG Supplier
- Such a business user may require a new supplier for his running project, even while on the move. Rather than sending an email to or calling a Master Data Expert, he/she can raise a request to create a new supplier by using Lean MDG Fiori application for supplier

## Typical Business Challenges

- Manual efforts (emails, phone calls) to create MDG supplier when request comes from users either having no access to MDG or have no MDG / SAP knowledge
- Dependency on few employees having MDG knowledge to trigger MDG master data creation
- High TCO and TCD for improving the user experience for commonly used business functions of SAP MDG software

## Features and Capabilities

- An easy, simple and user-friendly UI for users with no master data expertise
- Provides a simple, easy-to-use and coherent experience across devices – desktop, tablet, or smartphone
- Leverages responsive design, the concept of making apps sensitive to the form factor of devices with a single user interface
- Automatic duplicate check when creating a new supplier
- Attachment functionality to attach a document with request
- Supports creation of Organization or Person for a supplier
- Supports US and Europe address form layouts for supplier

# Function in Detail: User Interface

## UI Configurations: Fiori UI, Lean Request for new Business Partner

The screenshot shows the SAP Fiori interface for creating a new business partner. It includes sections for 'General' (Reason for Request) and 'Communication' (Address details). The footer has 'Submit' and 'Cancel' buttons.

### Facts & Figures

- § Help Portal: Click [here](#) for help documentation
- § Role: SAP\_MDG\_BCR\_REQUESTOR\_T
- § Target Segment: All employees including those with no MDG or SAP knowledge
- § Functional and Technical Prerequisites: MDG 7.0 SP02
- § Device and Browser Support: Desktop, iPad, Smartphone, IE9, Chrome

### Business/Process Context

- MDG Fiori lean request for Business Partner is meant for a business user who does not have much expertise in MDG master data handling but would still like to request a new MDG business partner
- Such a business user may require a new business partner for his project, even while on the move. Rather than sending an email to or calling a Master Data Expert, he/she can raise a request to create a new business partner by using Lean MDG Fiori application for business partner

### Typical Business Challenges

- Manual efforts (emails, phone calls) to create MDG business partner when request comes from users either having no access to MDG or have no MDG / SAP knowledge
- Dependency on few employees having MDG knowledge to trigger MDG master data creation
- High TCO and TCD for improving the user experience for commonly used business functions of SAP MDG software

### Features and Capabilities

- An easy, simple and user-friendly UI for users with no master data expertise
- Provides a simple, easy-to-use and coherent experience across devices – desktop, tablet, or smartphone
- Leverages responsive design, the concept of making apps sensitive to the form factor of devices with a single user interface
- Automatic duplicate check when creating a new business partner
- Attachment functionality to attach a document with request
- Supports Organization or Person for a business partner creation
- Supports US and Europe address layouts for business partner

# Function in Detail: User Interface

UI Configurations: Fiori UI, Lean Request for change of Customer (Flexible Search)

Customer	Street/House Number	City	Postal Code	Country	Category
Geoholding Services 232551	Hauptstr 12	Walldorf	69190	Germany (DE)	Organization
Geoholding11 services 244660	hauptstr 12	walldorf	69190	Germany (DE)	Organization
Geoholding Services \$6004	Hauptstr 12	Walldorf	87867	Germany (DE)	Organization

## Search UI

- § Uses standard search defined in MDG Configuration
- § Configure search fields visible on main screen
- § More search options via Filters link
- § Save predefined filters to reload next time
- § Navigate to FIORI app to request a new customer
- § SAP template Business Roles:  
SAP\_MDG\_BCR\_MYREQUESTS and  
SAP\_MDG\_BCR\_REQUESTOR\_T

# Function in Detail: User Interface

UI Configurations: Fiori UI, Lean Request for change of Customer (Change Data)

Same data available as in FIORI Lean Request for new Customer

Guided step-by-step UI to support unexperienced users:

- § Select Data to be changed (e.g. Name & Organization Data, Address, Bank Account, etc.)
- § Select Action to be executed on selected data (e.g. Change selected address)
- § Change data: Possibility to finalize change or add more changes

The image displays two screenshots of the SAP Fiori UI for changing customer data, illustrating a guided step-by-step process.

**Screenshot 1: Step 1 - Select Data**

This screen shows the initial step of selecting the type of data to change. The user has chosen "Address and Communication". Other options include "Name and Organizational Data", "Bank Account", "Identification Number", and "Tax Number".

**Screenshot 2: Step 2 - Select Action**

This screen shows the second step, where the user has selected "Change Address and Communication".

**Screenshot 3: Step 3 - Change Address and Communication**

This screen shows the details for changing the address. The user has entered "Hauptstr 12" as the Street/House Number, "69190 Walldorf" as the Postal Code/City, "DE" as the Country, "Region Key" as the Region, "DE" as the Language, and "89123" as the PO Box Postal Code. A note in the "Reason for Request" field states "Customer's address changed".

# Function in Detail: User Interface

## UI Configurations: Fiori UI, Track My Request

### Business/Process Context

- MDG Fiori application 'Track My Requests' is meant for a business user who does not have much expertise in MDG master data handling
- After raising the request for a new MDG master data, such a business user would like to see the status of his/her request to check if the request is approved or not

### Typical Business Challenges

- Manual efforts (emails, phone calls) to contact and check the status of raised request with MDG expert
- Dependency on few employees having MDG knowledge to convey the status of MDG master data requests
- High TCO and TCD for improving the user experience for commonly used business functions of SAP MDG software

### Features and Capabilities

- An easy, simple and user-friendly UI for users with no master data expertise
- Provides a simple, easy-to-use and coherent experience across devices – desktop, tablet, or smartphone
- Leverages responsive design, the concept of making apps sensitive to the form factor of devices with a single user interface
- Filter and sort functionality for selected requests
- Configurable duration for which user wants to see the raised requests

### Facts & Figures

§ Help Portal:	Click <a href="#">here</a> for help documentation
§ Role:	SAP_MDG_BCR_MYREQUESTS
§ Target Segment:	All employees including those with no MDG or SAP knowledge
§ Functional and Technical Prerequisites:	MDG 7.0 SP02
§ Device and Browser Support:	Desktop, iPad, Smartphone, IE9, Chrome (check <a href="#">configuration guide</a> for more details of support matrix)

# Function in Detail: User Interface

UI Configurations: Fiori UI, Approve Customer

## Approve New Customer

The screenshot shows the Fiori UI for approving a new customer. The top navigation bar displays "Approve Requests (404)". The main content area is titled "Request" and shows a card for "Person: Anush" (ID \$4226). The card indicates the request is "To Be Considered and Approved". Below the card, there are sections for "General Data", "Company Codes", and "Sales Areas". Under "General Data", it shows "Name 1: test" and "Name 2: test". The "Organization Data" section shows "Authorization Group: Stakeholder; Visibility 0 (Unrestricted)". The "Roles" section lists "Business Partner Role" and "Customer (FLCU01)". The "Addresses" section is currently empty. At the bottom, there are "Approve" and "Reject" buttons.

## Approve Changed Customer

The screenshot shows the Fiori UI for approving a changed customer. The top navigation bar displays "Approve Requests (404)". The main content area is titled "Request" and shows a card for "Organization: Test / 69190 Walldorf (125226)". The card indicates the request is "To Be Considered and Approved". Below the card, there are sections for "General Data", "Company Codes", "Sales Areas", and "Notes". Under "General Data", it shows "Name 1: walldorf" and "Name 2: (\$1505)". The "Organization Data" section shows "Authorization Group: Stakeholder; Visibility 0 (Unrestricted)". The "Roles" section lists "Business Partner Role" and "Customer (FLCU01)". The "Addresses" section is currently empty. A table at the bottom shows context descriptions and their values. At the bottom, there are "Approve" and "Reject" buttons.

# Function in Detail: User Interface

## UI Configurations: Fiori UI, Approve Supplier

### Approve New Supplier

The screenshot shows the Fiori UI for approving a new supplier request. The main title is "Approve Requests (44)". A search bar and refresh button are at the top left. The main content area displays a request for "Organization: test / 69190 walldorf (\$1688)". The status is "To Be Considered and Approved". Below the title, there's a note about being a new supplier and a change request. The "General Data" tab is selected, showing fields like Name 1: test, Name 2: test, and various search terms. Other tabs include Company Codes, Purchasing Details, Notes (1), and Attachments (1). At the bottom, there are "Approve" and "Reject" buttons.

### Approve Changed Supplier

The screenshot shows the Fiori UI for approving a changed supplier request. The main title is "Approve Requests (44)". The main content area displays a request for "Organization: test1 / 69190 walldorf (125291)". The status is "To Be Considered and Approved". Below the title, there's a note about being a changed supplier and a change request. The "General Data" tab is selected, showing fields like Name 1: test1, Name 2: test, and various search terms. Other tabs include Company Codes, Purchasing Details, Notes (1), and Attachments (1). On the right side, there's a table showing context descriptions, new values, and old values for changes made. At the bottom, there are "Approve" and "Reject" buttons.

# Function in Detail: User Interface

## Highlight Changes: Field changes

Highlight Saved Changes: Supports processor when deciding about next action

Highlight Unsaved Changes: Provides information what can be “undone”.

Saved changes and unsaved changes shown in two different colours.

Highlighting of Table Rows

Highlighted table rows refer to changes that you can only see when navigating from a table row to the details of a dependent entity.

Tooltip Information

Field tooltip shows previous value.

The screenshot shows a form for a business partner. The fields and their current values are:

- Business Partner ID / Grouping: 8448
- Title: Company
- \*Name 1: Seamar Divers, Inc. (highlighted with yellow background)
- Name 2: Seamar Dive Center (highlighted with orange background)
- Salutation: Dear Sir or Madam (highlighted with blue background)
- Search Terms: SEAMAR
- Internal number assignment: (empty field)

A tooltip is visible at the bottom right of the screen, stating "Empty value changed to 'Dear Sir or Madam' (unsaved)".

# Function in Detail: User Interface

Highlight Changes: Table changes, Create / Update

## Unsaved changes

1<sup>st</sup> account changed

2<sup>nd</sup> account created

Bank Accounts									
Actions	Ct	*ID	Bank...	Bank Key	Bank Name	Bank Account	Valid From	Valid To	Account Name
Details	0001	DE	10010424	Aareal Bank	1234567	05.02.2014	31.12.9999	X	
Details	0002	FR	6620424490	BNP Paribas, SA	63452345	05.02.2014	31.12.9999	X	

## Saved changes

1<sup>st</sup> account changed

2<sup>nd</sup> account created

Bank Accounts									
Actions	Ct	*ID	Bank...	Bank Key	Bank Name	Bank Account	Valid From	Valid To	Account Name
Details	0...	DE	10010424	Aareal Bank	1234567	05.02.2014	31.12.9999	X	
Details	0...	FR	6620424490	BNP Paribas, SA	63452345	05.02.2014	31.12.9999	X	

## Changes after save

1<sup>st</sup> account changed and saved

2<sup>nd</sup> account created, saved, and changed again

Bank Accounts									
Actions	Ct	*ID	Bank...	Bank Key	Bank Name	Bank Account	Valid From	Valid To	Account Name
Details	0001	DE	10010424	Aareal Bank	1234567	05.02.2014	31.12.9999	X	
Details	0002	FR	6620424490	BNP Paribas, SA	23456456456	20.03.2014	31.12.9999		

Identification Numbers									
Actions	Ct	*ID	Bank...	Bank Key	Bank Name	Bank Account	Valid From	Valid To	Account Name
Details	0002	FR	6620424490	BNP Paribas, SA	23456456456	20.03.2014	31.12.9999		

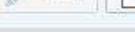
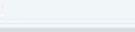
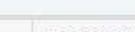
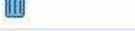
## Function in Detail: User Interface

Highlight Changes: Table Changes, Delete

It enables you to highlight deleted values, including deleted rows that are shown in lists, and to restore the latest active version of the deleted record.

The system highlights the relevant rows and displays deleted values as strikethrough, supporting you in quickly identifying items marked for deletion when checking change requests, and offering a new easy way to restore  data.



Bank Accounts							
Actions	C.	*ID	Bank Co...	Bank Key	Bank Name	Bank Account	Account Name
  		0001	DE	40020030	Deutsche Bank	1122334455	
Tax Numbers							
Actions	C.	*Tax Number Category	Description		Tax Number		
  		BRS	Brazil: Municipal Tax Number		BR1234567890123456789012345678		
		DE0	Germany: VAT Registration Number		DE123456788		

# Function in Detail: User Interface

Highlight Changes: Changes on Detail Pages

Change in vendor's  
company code data...

Organization: 8448, Seamar Divers, Inc. / Miami FL 33178-3181 - ERP Vendor 100673 - Company Code 0001

Done

ERP Vendor Company Code

Company Code

\* Company Code: 0001 MDG Company Code 0001

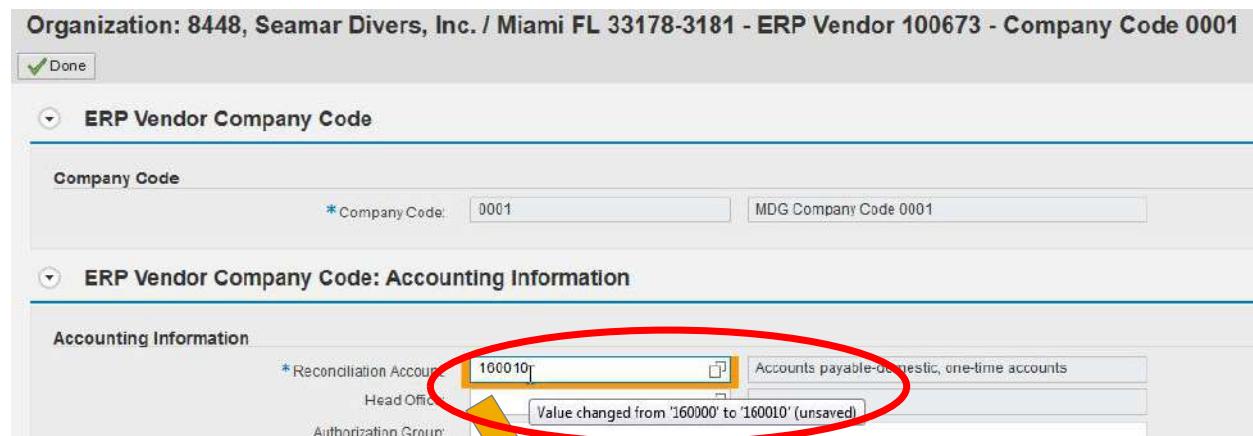
ERP Vendor Company Code: Accounting Information

Accounting Information

\* Reconciliation Account: 100010 Accounts payable-domestic, one-time accounts

Head Office: Value changed from '160000' to '160010' (unsaved)

Authorization Group:



Highlighted on first page  
(Propagated up to BP-level)

Organization: 8448, Seamar Divers, Inc. / Miami FL 33178-3181

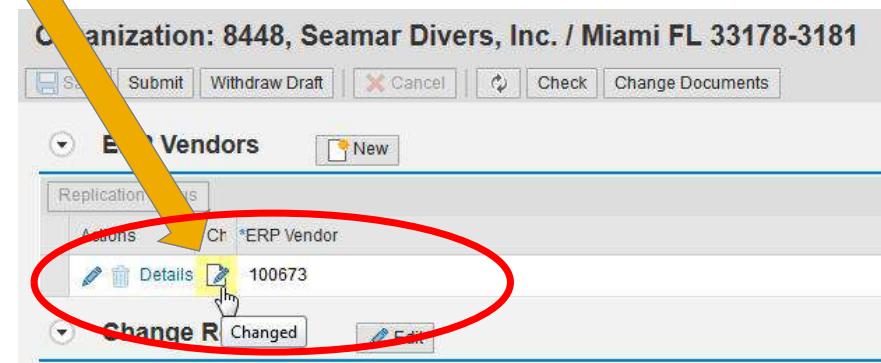
Submit Withdraw Draft Cancel Check Change Documents

E Vendors New

Actions Ch \*ERP Vendor

Details 100673

Change R Changed Edit



# Function in Detail: User Interface

## Undo Changes

All actions between two roundtrips are collected in one step that can be **undone**.

You can undo steps (since last save) using **Undo**.

After having used **Undo**, use **Redo** to recover actions.

The screenshots illustrate the SAP UI5 'Tax Numbers' screen. The top row shows the initial state where the Tax Number has been changed from DE013456789 to DE023456789. A tooltip indicates this change. The second screenshot shows the 'Change Request' button highlighted, indicating the step that can be undone. The third screenshot shows the 'Redo' button highlighted, indicating the step that can be recovered. The fourth screenshot shows the 'Redo' button being clicked, which reverts the Tax Number back to its original value of DE013456789.

# Function in Detail: User Interface

Create with Reference

## User Interaction

1. Mark business partner to be copied in search result list.
2. Select *Copy* button.
3. UI to create customer /supplier appears, fields to be copied are taken over from source business partner.

## Copy Pattern

Two patterns delivered by SAP:

- Standard: Copy non-individual data only
- Complete: Copy all except fields causing business error, e.g. do not copy 'Date of last dunning notice'

For more information, see SAP Note 2020896.

The screenshot illustrates the SAP Business Partner Copy function across three panels: a result list, a detailed view, and a roles section.

- Result List:** Shows a list of 37 business partners. A specific row for CKC AG (Business Partner ID 221) is highlighted in blue. The 'Copy' button in the top right corner is highlighted with a red box and labeled '2.'.
- Customer Details:** A detailed view of the selected business partner (CKC AG). The 'Business Partner ID / Grouping' field contains '221'. The 'Address' section shows 'Country: DE' and 'Language: German'. The 'Communication Data' section includes fields for telephone, mobile, fax, and e-mail. The 'Roles' section at the bottom shows a single role assigned: 'FLCU01'. The entire 'Customer Details' panel is labeled '3.'
- Roles:** A list of roles assigned to the business partner. It shows one role: 'FLCU01' with a description of 'Customer'. This section is also labeled '3.'

# Function in Detail: User Interface

## Copy Segments

### Copy organizational data

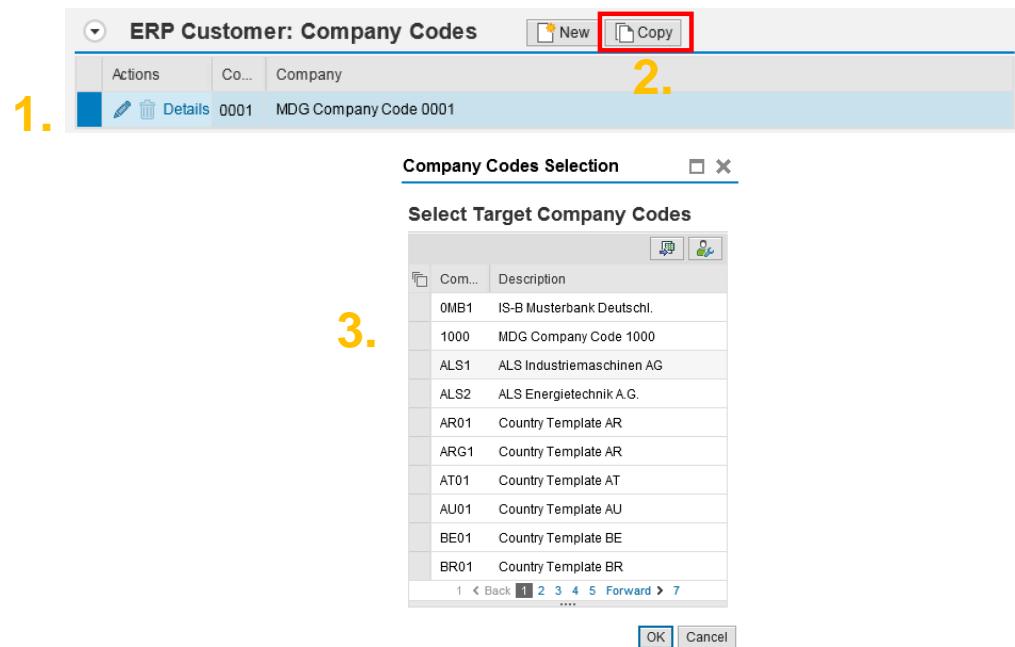
1. Mark already available organization.
2. Select *Copy* button.
3. Select target organization(s) not yet being maintained.
4. Data is copied and can be reworked.

### Copy org. data: Entities

- Customer: Company Code data
- Customer: Sales Area data
- Vendor: Company Code data
- Vendor: Purchasing Org. data

### Copy assigned Customer / Vendor: User interaction

1. Mark assigned Customer / Vendor in UIBB.
2. Choose *Copy* button.
3. Customer / Vendor is copied and can be reworked.



# Function in Detail: User Interface

Flexible UI via Configuration / Personalization: Call personalization

The screenshot shows the SAP Fiori Change Request interface. On the left, the main screen displays a 'Change Request' form with sections for General Data (Change Request: 13313, Description: Add Contact Person, Priority: High, Due Date: 2020-05-27, Reason: Test), Process Data (Status: Changes to Be Executed, Current Work Item: New Change Request, Created On/By: 27.05.2020 00:17:22, Type of Change Request: CUST2P1), and tabs for Customer Details, Roles, Tax Numbers, ERP Customers, and Addresses. Below this is a table for Address Usages, Payment Cards, and Contact Persons. On the right, a red arrow points to the top-right corner of the screen where the 'Change Page Layout' button is located. To the right of the main screen is the 'Change Page Layout' configuration dialog, which is divided into three sections: Section 1 (One Column Standard Layout), Section 2 (One Column Standard Layout, showing options like Two Column, Two Column (50:50), Two Column (1/3: 2/3), Two Column (2/3: 1/3), and Three Column (1/3: 1/3: 1/3)), and Section 3 (One Column Standard Layout, showing a stack of tabs: 1. ERP Customers, Addresses, 2. Address Usages, Payment Cards, Contact Persons). The dialog includes buttons for Save, Reset to Default, and Cancel.

UI easy to configure and personalize

- Choose *Change Page Layout* button
- *Change Page Layout* popup appears
- Multi-column (up to 3) design
- Change sequence
- Stacked UIBBs (Tabs)
- Expand / compress / suppress blocks

# Function in Detail: User Interface

Flexible UI via Context-Based Adaptations (CBA)

## Integration of Context-Based Adaptations:

Y Pre-delivered CBA dimensions:

Adapt. Di...	Index of Di...	Data element
ACTION	150	USMD_ACTION
CATEGORY	300	BU_TYPE
COUNTRY	400	LAND1
CRTYPE	200	USMD_CREQUEST_TYPE
OTC	100	MDG_OBJECT_TYPE_CODE_BS

Y Examples of pre-delivered dimension usages:

- Y 'Category' used for BP-category-specific attributes like name and e.g. birth date / marital status for persons
- Y 'Country' is used for country-specific address layout

Y CBA schema can be reused and enhanced with custom-defined dimensions

Y Delivered CBA schema can be substituted by custom-defined schema

Y Customizing: Configure Properties of Change Request Step, if the CBA is not used in the UI Configuration

# Function in Detail: User Interface

Integrate Additional Information via BCV Side Panel: Open Side Panel

The screenshot illustrates the SAP Fiori user interface for managing supplier details. On the left, the main content area displays 'Supplier Details' for organization 8912, Sailing One Design. The 'Side Panel' button is highlighted with a red box. On the right, a separate window titled 'Side Panel' is open, also with a red box around it. This panel shows a 'Purchase Orders For Vendor' report with two entries:

Material	Order quantity	Order Unit
BB TEST 1	100.000	CAR
P-020713-01	100.000	EA

Below the table is a bar chart comparing the quantities of these materials. The chart has 'Material' on the x-axis and 'Quantity [~]' on the y-axis (ranging from 0 to 100). The chart shows two bars: one for 'BB TEST 1' reaching 100 and another for 'P-020713-01' reaching 100. A legend indicates the blue color represents 'Quantity'. At the bottom of the side panel, there is a list of navigation links:

- > Query Views
- > Dashboards
- > Favorites
- > Launchpad

# Function in Detail: User Interface

Integrate Additional Information via BCV Side Panel: Content for MDG Customer

- 💡 Reuse of generic component Business Context Viewer (BCV)
- 💡 Customers can easily add content to the Side Panel

The figure consists of three screenshots of SAP Fiori screens, each featuring a side panel with a red border. The top screenshot shows a customer details screen with a 'Sales Orders For Customer' side panel displaying a bar chart of sales orders. The bottom-left screenshot shows an 'ERP Customers' screen with a 'Sales Orders For Customer' side panel. The bottom-right screenshot shows a 'Changes Overview' screen with a 'Changes for Request 42109' side panel displaying a table of changes.

**Sales Orders For Customer**

Material	Order quantity	Base Unit
S-1001	333.000	PC

**Changes for Request 42109**

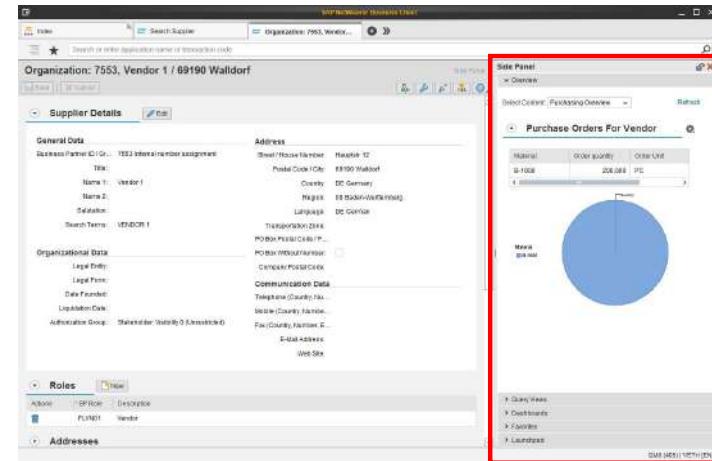
Description	Old Value	New Value
Salutation		Hello
City	Ludwigshafen	Mannheim
Postal Code	67061	69190
Company Post Cd		67240
Legal form	08	

# Function in Detail: User Interface

Integrate Additional Information via BCV Side Panel: Content for MDG Supplier

- Yellow star icon: Reuse of generic component Business Context Viewer (BCV)
- Yellow star icon: Customers can easily add content to the Side Panel

- Yellow star icon: **Purchasing Overview:** Purchase orders created for the current vendor number
- Yellow star icon: **Changes Overview:** Changes raised by the current MDG change request



This screenshot shows a side panel titled 'Changes for Request 42109' within the SAP Fiori interface. It displays a table showing changes for a request, with rows for Salutation (changed from 'Hello' to 'Mannheim'), City (changed from 'Ludwigshafen' to 'Mannheim'), Postal Code (changed from '67061' to '69190'), Company Post Cd (changed from '67240' to '67240'), and Legal form (changed from '08' to '08').

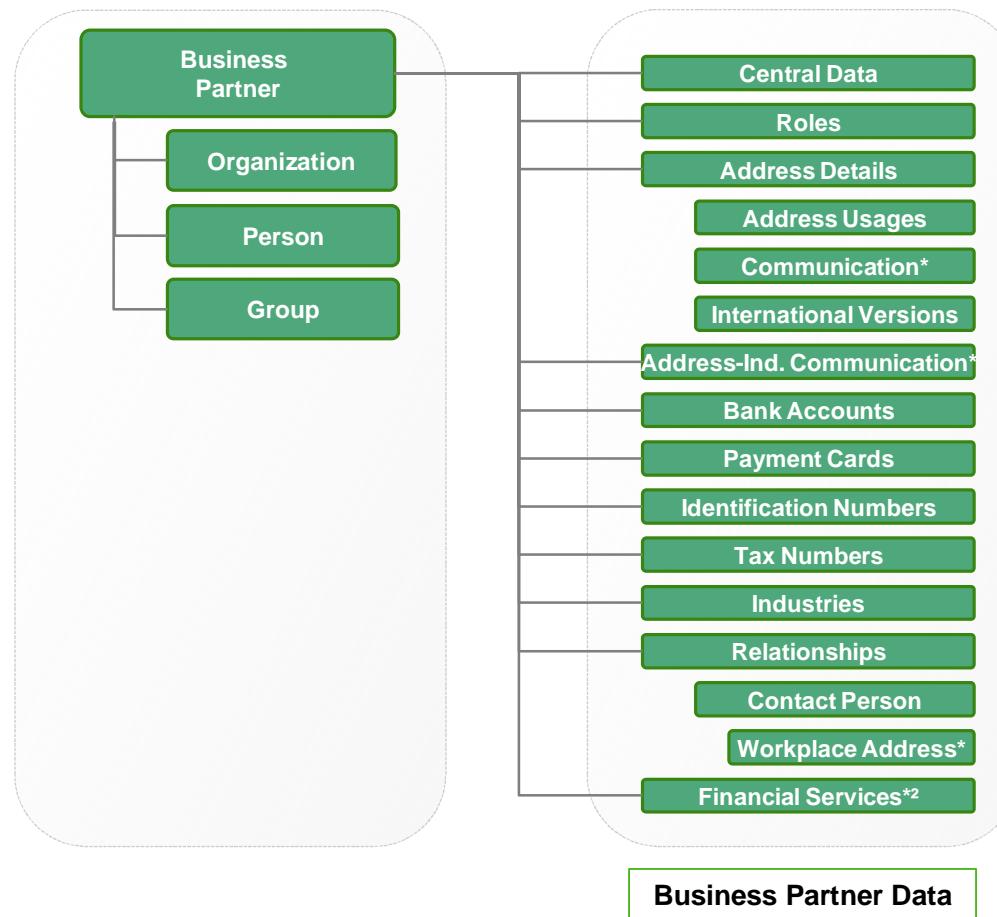
Description	Old Value	New Value
Salutation	Hello	Mannheim
City	Ludwigshafen	Mannheim
Postal Code	67061	69190
Company Post Cd	67240	67240
Legal form	08	08

# Function in Detail

- Processes
- User Interface
- **Business Partner Data**
- Data Quality
- Data Replication
- Client Maintenance
- Cleansing
- Processing of Multiple Objects
- Hierarchies
- MDG Framework Capabilities and Process Analytics
- Data Protection
- MDG for FI Contract Account

# Function in Detail: Business Partner Data

## Data Model Business Partner BP



### \*Communication:

- Telephone Numbers
- Mobile Numbers
- Fax Numbers
- E-Mail Addresses
- Web Sites

### \*\*<sup>2</sup> Financial Services:

- Ratings
- Creditworthiness
- Financial Services Details
- Partner is Bank
- Financial Services Reporting
- Employment Overview
- Fiscal Year Information
- Additional Names
- Tax Compliance

# Function in Detail: Business Partner Data

## Central Data

**General Data**

Business Partner ID / Grouping:	CKCO	External Number Assignment
Title:	Company	(dropdown)
* Name 1:	CKC SE	
Name 2:		
Salutation:		
* Search Terms:	CKC	BB

**Organizational Data**

Legal Entity:	(dropdown)	
Legal Form:	(dropdown)	
Date Founded:	(date input)	
Liquidation Date:	(date input)	
Authorization Group:	Stakeholder: Visibility 0 (Unrestricted)	(dropdown)

**General Data**

Business Partner ID / Grouping:	CKCP	External Number Assignment
Title:	(dropdown)	(dropdown)
Academic Title:	(dropdown)	
First Name / Last Name:	Hugo	Tester
Salutation:		
* Search Terms:	TESTER	

**Personal Data**

Sex:	Male	(dropdown)
Marital Status:	(dropdown)	
Birth Date / Birthplace:	(date input)	(dropdown)
* Correspondence Language:	DE	German
Authorization Group:	Stakeholder: Visibility 1 (Restricted)	

**General Data**

Business Partner ID / Grouping:	61571	Internal Number Assignment
Title:	(dropdown)	
* Name 1:	Supervisory Board SAP SSE	
Name 2:		
Search Terms:	SAP	

**Group Data**

Partner Group Type:	Supervisory Board of a company	(dropdown)
Authorization Group:	Stakeholder: Visibility 2 (Very Restricted)	

## Organization

- § 4 Name fields plus search terms
- § Organizational data
- § Selected fields visible only, more fields can be added via UI Configuration

## Persons

- § Several name fields like first name and last name plus search terms
- § Personal data
- § Selected fields visible only, more fields can be added via UI Configuration

## Groups (of persons)

- § 4 Name fields plus search terms
- § Group data including Group Type
- § Selected fields visible only, more fields can be added via UI Configuration

# Function in Detail: Business Partner Data

## Addresses

Multiple Addresses can be maintained per BP

### Address Data

- § Postal address
- § PO Box address

### Communication Data: Multiple ...

- § Telephone (landline and mobile) and Fax numbers
- § Email addresses and Homepages

### UI Layouts for Address data

- § Layouts for Europe, USA, Canada, and Japan
- § Layout for all users in IMG  
SAP NetWeaver à Application Server à Basis Services à Address Management à International Settings à Choose Address Screen Layout
- § Layout per user via user parameter ADDRESS\_SCREEN

The screenshot shows the SAP Fiori interface for managing business partner addresses. At the top, there is a list of three addresses:

Actions	Changes	Address	Country	Standard
		Hauptstr 11 / 69190 Walldorf, Baden	DE	<input type="checkbox"/>
		Hohenbühlstr 10 / CH-8152 Opfikon	CH	<input type="checkbox"/>
		Unter den Linden 11 / 10117 Berlin	DE	<input checked="" type="checkbox"/>

A large yellow arrow points down from the list to a detailed address edit screen below. This screen contains fields for Street / House Number, Postal Code / City, Country, Region, Language, Transportation Zone, and various communication data fields like Telephone, Mobile, Fax, E-Mail Address, and Web Site.

# Function in Detail: Business Partner Data

## Address Usages

### Configure Address Types / Transactions

§ Address Types: Visible in UI

§ Address Transactions: Code against ID

§ Configuration in IMG

Cross-Application Components à SAP Business Partner à Business Partner à Basic Settings à Address Determination

### Synchronization via CVI to ERP Customer / ERP Vendor

§ Synchronize assigned address per ERP Customer / ERP Vendor

è See slides about 'Usage of Multiple Addresses')

Address Usages					
Actions	Changes	*Address Type	Description	*Address	Standard Usage
	0002		Home Address	Hauptstr 11 / 69190 Walldorf, Baden	<input checked="" type="checkbox"/>
	0004		Holiday Home	Hohenbühlstr 10 / CH-8152 Opfikon	<input checked="" type="checkbox"/>
	XXDEFAULT		Standard Address	Unter den Linden 11 / 10117 Berlin	<input type="checkbox"/>

# Function in Detail: Business Partner Data

## Address Versions

### Address versions

- § Maintain address data per character set
- § Latin, Cyrillic, Greek, Kanji, Hebrew, etc.
- § Detailed documentation see SAP Note 316331, attached document

### Maintain multiple versions per address

### Configuration of Address Versions

IMG: SAP NetWeaver à Application Server  
à Basis Services à Address Management  
à International Settings à Activate International Address Versions

### Synchronization with ERP Customer / ERP Vendor

- § Synchronize all address versions per address

The screenshot shows two SAP Fiori screens related to address versions. The top screen is titled 'International Versions' and lists a single entry: 'Cyrillic' for the 'Address Version' and 'ЦКЦ СЕ' for the 'Name'. A yellow arrow points from this screen down to the second screen. The bottom screen is titled 'International Address Versions' and contains several input fields: 'Address Version' (set to 'Cyrillic'), 'General Data' (Title, Name, Name 2), and 'Address' (Street / House Number: 'Унтер ден Линден 11', City: 'Берлин'). Below these are search terms: 'Search Terms' (containing 'ЦКЦ').

# Function in Detail: Business Partner Data

## Multiple Address Handling for Customer Master Data

Up to now different addresses of a customer are often stored in distinct customer master records, because of one standard address per customer number.

Solution with S/4HANA 2021:

It is now possible to maintain all addresses of a customer under a single BP master record. Additionally, any data specific to a particular address can be maintained as part of address-dependent data. Prerequisite is the Lightweight Business Function BPCUSTOMER\_MULTIPLE\_ADDRESSES.

The following address-dependent UIBBs become available:

UIBB Description	Back-end Table	MDG Entity Type
ERP Customer: Address Dependent General Data	KNA1_ADDR	BP_CGENAD
ERP Customer: Address Dependent Tax Indicators	KNVI_ADDR	BP_CTAXAD
ERP Customer: Address Dependent Unloading Points	KNVA_ADDR	BP_CULPAD
ERP Customer Sales Area: Address Dependent Data	KNVV_ADDR	BP_CSALAD
ERP Customer Sales Area: Partner Functions	KNVP	BP_CUSFCN
Addresses -> Details	BUT022	BP_ADDDEP
Addresses -> Details -> Tax Numbers	DFKKBPTAXNUM_ADR	BP_TAX_AD

The screenshot shows the SAP Fiori interface for managing customer data. It displays several tables under the 'Customer' module:

- ERP Customer: Address Dependent General Data**: Shows a row for customer 31616 with address 'Dietmar-Hopp-Allee 16 / 69190 Walldorf' and train station 'South'.
- ERP Customer: Company Codes**: Shows a row for country 'DE' (Germany).
- ERP Customer: Tax Indicators**: Shows a row for tax category 'MWST' (Output Tax) and classification 'Lieble for Taxes'.
- ERP Customer: Texts**: Shows a row for text code 'I'.
- ERP Customer: Unloading Points**: Shows a row for unloading point '36952'.
- ERP Customer: Address Dependent Unloading Points**: Shows a row for factory calendar 'Germany (Standard)' and goods receiving 'Weekdays Only'.
- ERP Customer: Documents**: Shows a row for document type '01'.
- ERP Customer: Class Assignment**: Shows a row for class assignment '001'.

# Function in Detail: Business Partner Data

## BP Roles

Assign multiple roles per Business Partner

Roles			
Actions	Changes	*BP Role	Description
		FLCU01	Customer
		FLVN01	Vendor

Time-validity of BP Roles supported

§ Fields can be added to the UI via UI Configuration

Synchronization with ERP Customer / ERP Vendor during activation

§ Define roles to enable Customer Vendor Integration (CVI)

IMG: Cross-Application Components à Master Data Synchronization à Customer/Vendor Integration à Business Partner Settings  
à Settings for Customer Integration à Set BP Role Category for Direction BP to Customer  
à Settings for Vendor Integration à Set BP Role Category for Direction BP to Vendor

# Function in Detail: Business Partner Data

## Bank Accounts

Multiple bank accounts per BP

Country-specific checks

### § Bank ID and Bank Account Number

SAP NetWeaver à General settings  
à Set Countries à Set Country-Specific Checks

Time-validity of Bank Accounts

### § Fields can be added via UI Configuration

The screenshot shows the SAP Fiori interface for managing bank accounts. At the top, there is a header bar with the title "Bank Accounts" and buttons for "Edit" and "New". Below the header is a table with columns: Actions, Changes, \*ID, Bank Country, Bank Key, Bank Name, Bank Account, and Account Name. Two rows of data are visible:

Actions	Changes	*ID	Bank Country	Bank Key	Bank Name	Bank Account	Account Name
	Details	0001	DE	10020030	Deutsche Bank	11111111	
	Details	0002	US	540000007	Bank of America Corporation	234234234	

A large orange arrow points from the "Bank Details" section of the table down to the "Bank Details" and "Bank Data" input fields below. The "Bank Details" section contains fields for Bank Details ID (0001), Bank Account (11111111), Account Holder, IBAN (DE62100200300011111111), Account Name, Control Key, Reference Details, and Collection Authorization. The "Bank Data" section contains fields for Bank Country (DE - Germany), Bank Key (10020030), Bank Name (Deutsche Bank), Street, and City.

Legal requirements from Single European Payment Area (SEPA)

### § IBAN: Maintain bank accounts with IBAN only (w/o Bank Identification Code)

### § Mandates: Maintenance per local system (transactions BP, XD\*, XK\*), not supported in MDG

Synchronization with ERP Customer / ERP Vendor

### § Synchronize all Bank Accounts to standard assigned ERP Customer / ERP Vendor

# Function in Detail: Business Partner Data

MDG-BP/C/S: Address-Independent Communication Data

As a master data specialist, I want to maintain address-independent communication data for a business partner like email, fax and websites.

Solution from S/HANA 2021:

UIBB 'Address-Independent Communication' is available for the standard communication with fields for Telephone, Mobile, Fax, Email, Website and Standard Method.

A '[More Address-Independent Communication](#)' link is also available, where additional entries can be maintained.

UIBB Description	Back-end Table	MDG Entity Type
Telephone Numbers	ADR2	BP_TEL
Mobile Numbers	ADR2	BP_TEL
Fax Numbers	ADR3	BP_FAX
E-Mail Addresses	ADR6	BP_EMAIL
Websites	ADR12	BP_URL

The screenshot shows the SAP Fiori interface for maintaining Business Partner Data. The left side features a navigation tree with the following structure:

- > Customer Details
- > Roles
- > Addresses
- > Address Usages
- > Bank Accounts
- > Address-Independent Communication Edit

The 'Address-Independent Communication' section is expanded, showing the following fields:

- Standard Address-Independent Communication
  - Telephone (Country/Region, Number, Extension):
  - Mobile (Country/Region, Number):
  - Fax (Country/Region, Number, Extension):
  - Email:
  - Website:
  - Standard Method:
- More Address-Independent Communication
  - > Payment Cards
  - > Identification Numbers
  - > Tax Numbers

# Function in Detail: Business Partner Data

## Payment Cards

The screenshot shows the SAP Fiori interface for managing payment cards. At the top, there's a header with 'Payment Cards' and buttons for 'Edit' and 'New'. Below is a table with columns: Actions, Card ID, Payment Card Type, Card Description, Standard, and Card Number. Two cards are listed: one for 'Private affaires' (VISA, Card ID 0001) and another for 'Business' (MasterCard, Card ID 0002). A yellow arrow points from the table down to a detailed view of card 0002. The detailed view includes fields for Payment Card ID (0001), Type (VISA), Card Number (\*\*\*\*\*7200), and Description (Private affaires). Below this is a 'Detail Data' section with fields for Card Holder (Hugo Tester), Issuing Bank (Deutsche Bank Frankfurt), Category (Credit Card), Valid From (10.07.2017), Valid To (31.12.9999), Issued On, and Payment Card Lock.

### User Interface

- 1 Multiple payment cards per BP can be maintained in MDG-C. One can be marked as standard.
- 2 Card numbers can be masked on UI or even encrypted at database level (SAP-BP).
- 3 Only users with special authorization are allowed to see the full card number on request.

### More Information

- § Data will be stored during activation
  - No security measure or Masked display  
SAP-BP: Table BUT0CC, CCARD  
ERP Customer: tables VCKUN / VCNUM
  - Masked display & Encrypted when saved  
SAP-BP: Tables BUT0CC, PCA\_\*  
ERP Customer: Tables VCKUN / VCNUM
- § Replication
  - via ALE (IDoc DEBMAS) or
  - SOA Service BusinessPartnerSUITEBulkReplicateRequest

# Function in Detail: Business Partner Data

## Identification Numbers

Maintain multiple Identification Numbers BP

Configuration of ID Type and ID Category

§ Pre-defined values by SAP

§ Customer can add values

§ One or multiple numbers per ID Type

SEPA (Slides in What's new for MDG 7.0)

§ IBAN

§ Mandates (local use only, not supported in MDG)

Synchronization with ERP Customer / ERP Vendor during activation

§ No

Identification Numbers							
Actions	Changes	*Identification Type	*ID Number	Responsible Institution	Entry Date	Country	Region
		Dun & Bradstreet Number	2222222	Frankfurt	01.04.2000	DE	11
		Commercial Register Number	123123123	Berlin	01.03.1998	DE	11

# Function in Detail: Business Partner Data

## Tax Numbers

Maintain multiple Tax Numbers BP

Tax Number Categories

§ All values delivered by SAP, new values via legal patch

Tax Number Duplicate Check

§ Activate per Tax Number Category

§ Tax Number checked against all other BPs

Synchronization with ERP Customer / ERP Vendor during activation

- § Tax Number Category \*0: VAT Registration Numbers
  - BP home country: Field STCEG in KNA1 / LFA1
  - Other countries: Tables KNAS / LFAS
- § Tax Number Category \*1 .. \*4
  - Tax Number fields STCD1 .. 4 in KNA1 / LFA1

Tax Numbers		Edit	New	
Actions	Changes	*Tax Number Category	Description	Tax Number
		DE0	Germany: VAT Registration Number	DE123456788
		US2	USA: Employer ID Number	US11223344

## Function in Detail: Business Partner Data

Tax Numbers, Support of numbers with more than 20 characters

Tax numbers were limited to a length of 20 characters, now extended to up to 60 characters in the UI

Relevant for some countries like Brazil which have tax numbers with more than 20 characters

Database for long tax numbers

- SAP Business Partner: Tax Number Category ending with '5', data stored in DFKKBPTAXNUM-TAXNUMXML
- ERP Customer / ERP Vendor: data stored in new fields KNA1-STCD5 / LFA1-STCD5

Tax Numbers			
	C.	*Tax Number Category	Description
		BR5	Brazil: Municipal Tax Number
		DE0	Germany: VAT Registration Number

# Function in Detail: Business Partner Data

## Industries

Maintain multiple Industries per BP

Optional: Maintain multiple industries for multiple Industry Systems (Catalogs)

§ Add field Industry System to UI Configuration if multiple Industry Systems are relevant

## Configure Industry Systems and Industries

Cross-Application Components à SAP Business Partner à Business Partner à Organizations à Maintain Industry Systems and Industries

Synchronization with ERP Customer / ERP Vendor

§ Standard industry of standard industry system synchronized to Industry field (KNA1 / LFA1-BRSCH)

§ Precondition: Define industry mapping for CVI

IMG: Cross-Application Components à Master Data  
Synchronization à Customer/Vendor Integration à Business Partner Settings

à Settings for Customer Integration à Field Assignment for Customer Integration à Assign Attributes à Assign Industries  
à Settings for Vendor Integration à Field Assignment for Vendor Integration à Assign Attributes à Assign Industries

Industries				
Actions	Changes	*Industry	Description	Standard Industry
		0005	Manufacturing	<input checked="" type="checkbox"/>
		0006	Automotive	<input type="checkbox"/>

# Function in Detail: Business Partner Data

## BP Relationships

Maintain multiple relationships per relationship category

### Relationship Categories

- § SAP-delivered categories: Contact Person, Shareholder, Marriage, Parent / Child, etc.
- § Customers can add further Categories (transaction BUBA)
- § Cardinality and Time Constraint can be defined

Synchronization with ERP Customer / ERP Vendor

- § Contact Persons with Workplace Address are synchronized

Relationships				
		Edit	New	Create
Replication Status				
Actions	*Relationship Category	*Partner ID	Partner Description	Standard
Details	Has Contact Person	252	Dr. Hugo Tester / 10117 Berlin	<input type="checkbox"/>
Details	Is Activity Partner For	335	Combined Overview / 10117 Berlin	<input type="checkbox"/>
Details	Has Shareholder	117	Hugo Heise / 37191 Katlenburg-Lindau	<input type="checkbox"/>

# Function in Detail: Business Partner Data

## BP Relationships, Add Relationship in UI

### Add Relationship with **existing** BP

1. Choose *New* to add a new relationship
2. Select the relationship category
3. Select related Business Partner via Search
4. Select relationship and maintain relationship data

1.

The screenshot shows the SAP Fiori Relationships interface. At the top, there are three buttons: 'Edit', 'New', and 'Create'. The 'New' button is highlighted with a yellow circle and the number '1.' above it. Below the buttons is a table header row with columns: Actions, Changes, \*Relationship Category, \*Partner ID, Partner Description, and Standard. The 'Relationship Category' column has a dropdown menu open, with the option 'Has Contact Person' highlighted. The table body contains several rows of data, with the first row's 'Partner ID' column highlighted with a red box and the number '2.' below it. The 'Actions' column for the first row has a pencil icon and a trash bin icon. The 'Partner Description' column for the first row has a checkbox icon.

2. 3.

### Add Relationship with **new** BP

1. Choose *New* to add a new relationship
2. Select the relationship category
3. Choose *Create* and select category of related Business Partner
4. Enter data of related Business Partner and choose *Done*
5. Select relationship and maintain relationship data

1. 3.

The screenshot shows the SAP Fiori Relationships interface. At the top, there are three buttons: 'Edit', 'New', and 'Create'. The 'Create' button is highlighted with a yellow circle and the number '1.' above it. Below the buttons is a table header row with columns: Actions, Changes, \*Relationship Category, \*Partner ID, Partner Description, and Standard. The 'Relationship Category' column has a dropdown menu open, with the option 'Has Contact Person' highlighted. The table body contains several rows of data, with the first row's 'Partner ID' column highlighted with a red box and the number '2.' below it. The 'Actions' column for the first row has a pencil icon and a trash bin icon. The 'Partner Description' column for the first row has a checkbox icon.

2.

## Function in Detail: Business Partner Data

### BP Relationships, Time Dependency

Validity dates can be maintained for BP Relationships

Time constraint and cardinality can be defined for each relationship category (see transaction BUBA)

Time dependency to be activated by customer

→ Manual action required, for more information see SAP Note [2249877](#)



The screenshot shows a SAP Fiori application interface for managing business partner relationships. At the top, there's a navigation bar with a dropdown menu set to 'Relationships', and buttons for 'Edit', 'New', and 'Create'. Below this is a 'Replication Status' section. The main area is a table with the following columns: Actions, Relationship Category, Partner ID, Partner Description, Valid From, Valid To, and Standard. Three rows of data are listed:

Actions	Relationship Category	Partner ID	Partner Description	Valid From	Valid To	Standard
Data - Has Contact Person	115796	Matthias Schmitt / 69190 Walldorf	01.01.2015	31.12.2015	<input type="checkbox"/>	
Data - Has Shareholder	115952	CKC AG / 10117 Berlin	28.12.2015	31.12.9999	<input type="checkbox"/>	
Data - Has Contact Person	115911	Alfons Huber / 69254 Malsch	27.07.2015	31.12.9999	<input type="checkbox"/>	

# Function in Detail: Business Partner Data

BP Relationships, Specialized UI for Contact Person Relationships

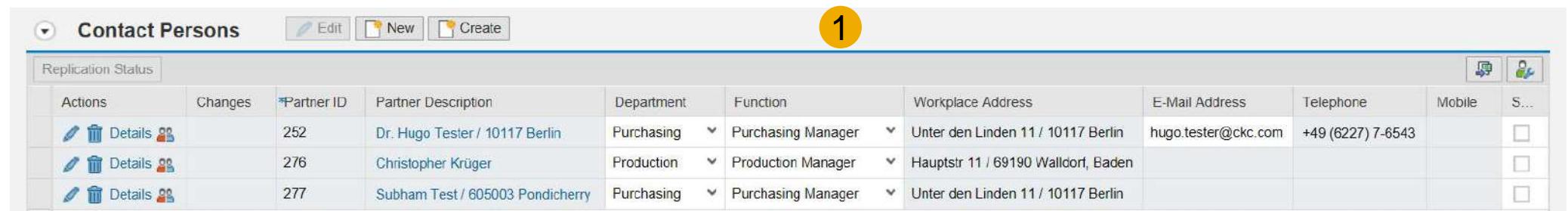
## Business Background

Relevant contact person information distributed across several pages (person data, relationship data, workplace address). The requirement was to merge most relevant data on one page, decrease the navigation, and thus optimize the usability.

## User Interface

- 1 § New List UIBB for contact persons containing specific relationship information.

Note: Generic Relationship List UIBB is still available.



Contact Persons										
Replication Status										
Actions	Changes	Partner ID	Partner Description	Department	Function	Workplace Address	E-Mail Address	Telephone	Mobile	S...
		252	Dr. Hugo Tester / 10117 Berlin	Purchasing	Purchasing Manager	Unter den Linden 11 / 10117 Berlin	hugo.tester@ckc.com	+49 (6227) 7-6543		<input type="checkbox"/>
		276	Christopher Krüger	Production	Production Manager	Hauptstr 11 / 69190 Walldorf, Baden				<input type="checkbox"/>
		277	Subham Test / 605003 Pondicherry	Purchasing	Purchasing Manager	Unter den Linden 11 / 10117 Berlin				<input type="checkbox"/>

Navigation to details UI, see next slide

# Function in Detail: Business Partner Data

BP Relationships, Specialized UI for Contact Person Relationships

The screenshot shows the SAP Fiori Business Partner Data interface. At the top, it displays the organization information: CKCO, CKC SE / 10117 Berlin - Relationship Has Contact Person (BUR001) Dr. Hugo Tester / 10117 Berlin (252). A yellow circle with the number 2 is positioned in the top right corner of the header. The interface is divided into several sections:

- Contact Person**: Shows the Partner ID (252), Name (Dr. Hugo Tester / 10117 Berlin), and a 'Standard' checkbox.
- General Data**: Includes fields for Title (Dr.), First Name (Hugo), Last Name (Tester), Academic Title (Dr.), and Gender.
- Contact Person Details**: Shows Department (0002, Purchasing), Function (0002, Purchasing Manager), Authority (5, Main Decision Maker), and Note.
- Standard Workplace Address**: Shows Company address (Unter den Linden 11 / 10117 Berlin) and Workplace details (Function: Purchasing Officer EMEA, Department: Purchasing EMEA, Room Number: A2 11, Floor: 2, Building: NY01). It also includes Communication Data: Telephone (DE, 06227/7, 6543), Mobile (Country, Number), Fax (Country, Number, Extension), E-Mail Address (hugo.tester@ckc.com), and Communication Method.
- Workplace Addresses**: A table view showing columns for Actions, Address, Telephone, Mobile, E-Mail Address, and Standard.

## User Interface

- 
- 2 One UI merging the most relevant:
- Contact Person data (e.g. First Name, Last Name)
  - Contact Person (Relationship) details (e.g. Department, Function)
  - Standard Workplace Address (e.g. Building, Room Number, Communication data)
  - Navigation to further Workplace Addresses

# Function in Detail: Business Partner Data

## Financial Services Business Partner

As a master data specialist, I want to maintain financial services specific attributes of a business partner.

Solution:

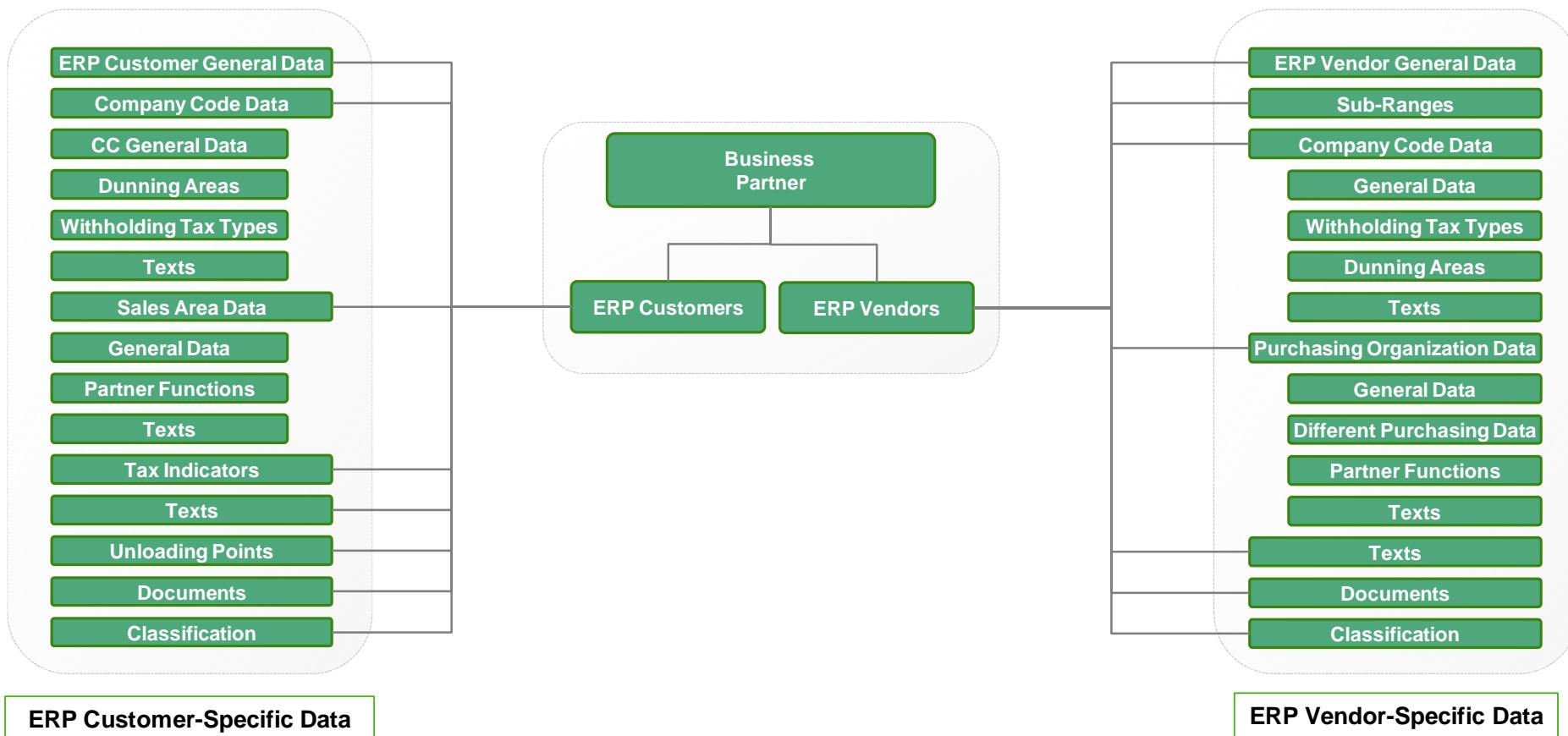
You can maintain the attributes on the following UIBBs:

UIBB Description	Back-end Table	MDG Entity Type
Ratings	BP1012	FS_BP1012
Creditworthiness	BP1010	FS_BP1010
Financial Services Details	BP001	FS_BP001
Partner is Bank	BUT0BANK	FS_BPBANK (only if BP is an organization)
Financial Services Reporting	BP1030	FS_BP1030
Employment Overview	BP011	FS_BP011 (only if BP is a person)
Fiscal Year Information	BP021	FS_BP021 (only if BP is an organization)
Additional Names	BKK21	FS_BKK21
Tax Compliance	BPTAXC	FS_BPTAXC (prerequisite BF: CA_FSBP_TAX_C)

The screenshot shows the SAP Fiori interface for maintaining a business partner. The top navigation bar includes the SAP logo, the organization code 'Organization: \$403, Simon Max', and standard navigation buttons like Refresh, Check, Undo, Redo, Side Panel, and a search bar. The main content area is titled 'Financial Services Details' with an 'Edit' button. It is divided into several sections: 'Organization Data' (Registered Office, Office Country/Region, Office Region, Capital Increase / Currency, Year of Capital Increase, Balance Sheet Display, Factory Calendar), 'Customer Status' (VIP checkbox, Undesirable Customer checkbox, Reason for Undesirability input field, Comment on Undesirability input field, End of Business Relation dropdown, Last Customer Contact dropdown), 'Common Data' (Letter Sustitution, Trading Partner, Grouping Characteristic, Target Group), and a sidebar with expandable sections for 'Partner is Bank', 'Financial Services Reporting', 'Fiscal Year Information', 'Additional Names', and 'Tax Compliance'. At the bottom right are 'Save' and 'Submit' buttons.

# Function in Detail: Business Partner Data

Data Model ERP Customer / ERP Vendor



# Function in Detail: Business Partner Data

Assign ERP Customers / ERP Vendors, Use Cases & Concept

Multiple ERP Customers and ERP Vendors can be assigned to one Business Partner.

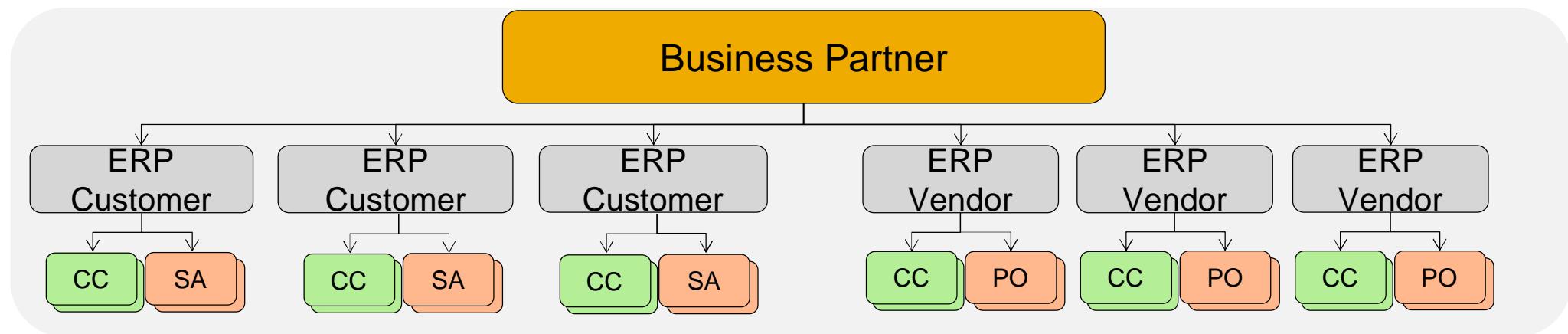
Use Case for assigning multiple ERP Customers with **same** address:

§ Customer is treated differently within several business units of the same company code

Use Case for assigning multiple ERP Customers with **different** addresses:

§ Company includes main location as well as deviating bill-to, ship-to etc. addresses (alternative option: Multiple Address Handling for Customer Master Data)

Note: Multiple Assignments in MDG-BP will be supported in future only with the current scope and state. Customers must decide, if this scope is sufficient for their complete system landscape. Also, performance topics should be considered when using a lot of assignments. See also SAP note [2876690](#) - Multiple Business Partners for the same legal entity.



# Function in Detail: Business Partner Data

Assign ERP Customers / ERP Vendors, Implementation

Multiple ERP Customers and ERP Vendors can be assigned to one Business Partner and share the same Business Partner data.

ERP-Customer-specific and ERP-Vendor-specific data including sales / purchasing organization and company code data; can be maintained per assigned ERP Customer or ERP Vendor

The screenshot illustrates the SAP Business Partner Data Management interface. At the top, there are three tabs: 'Roles', 'ERP Customers', and 'ERP Suppliers'. The 'ERP Customers' tab is active, showing two entries: '2666' and '5117', both assigned to 'Business Area 1'. A yellow arrow points from the '5117' entry down to a detailed view of a customer record. This detailed view is titled 'Organization: 9646, CKC Chicago / Chicago IL 60654-1363 - ERP Customer 5117'. It contains sections for 'Customer Control Data' (with 'Multiple Assignment' and 'Administrative Data' tabs), 'Customer Tax Information', and 'Supplier Reference Data'. The 'Supplier Reference Data' tab is currently selected, showing fields like 'Train Station', 'External Manufacturer', 'Relevant for POD', 'SCAC', 'Actual QM System', 'Carrier Freight Group', 'Service Agent Procedure...', 'Credit Information Number', 'Last External Review', 'Statuses Group, Service...', and 'QM System Valid To'.

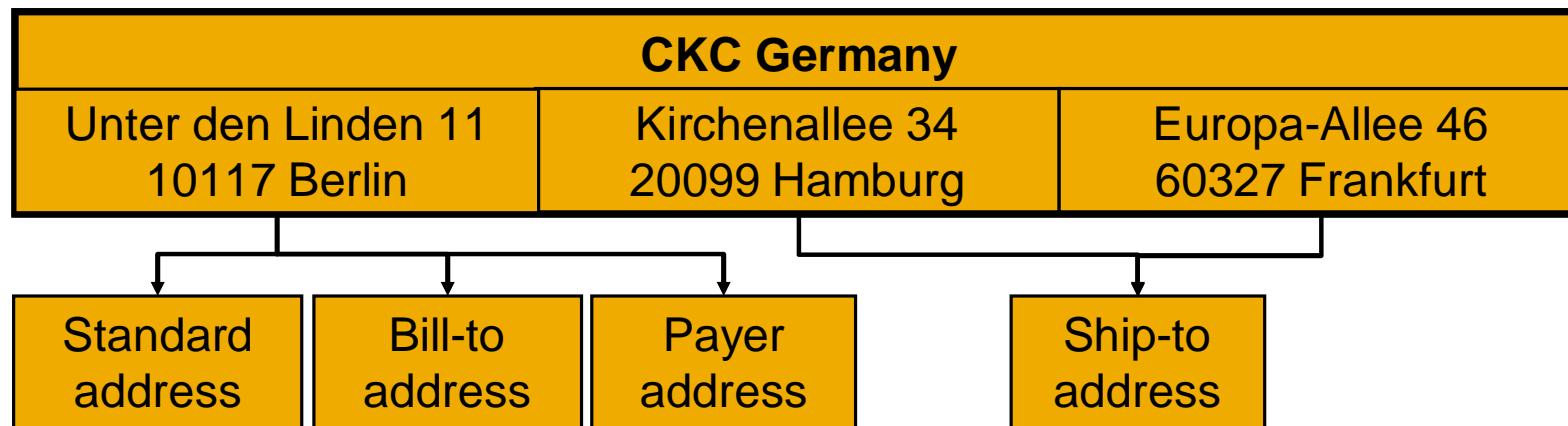
## Function in Detail: Business Partner Data

Assign ERP Customers / ERP Vendors, Usage of Multiple BP addresses (Use Case)

### One Business Partner with 3 Addresses

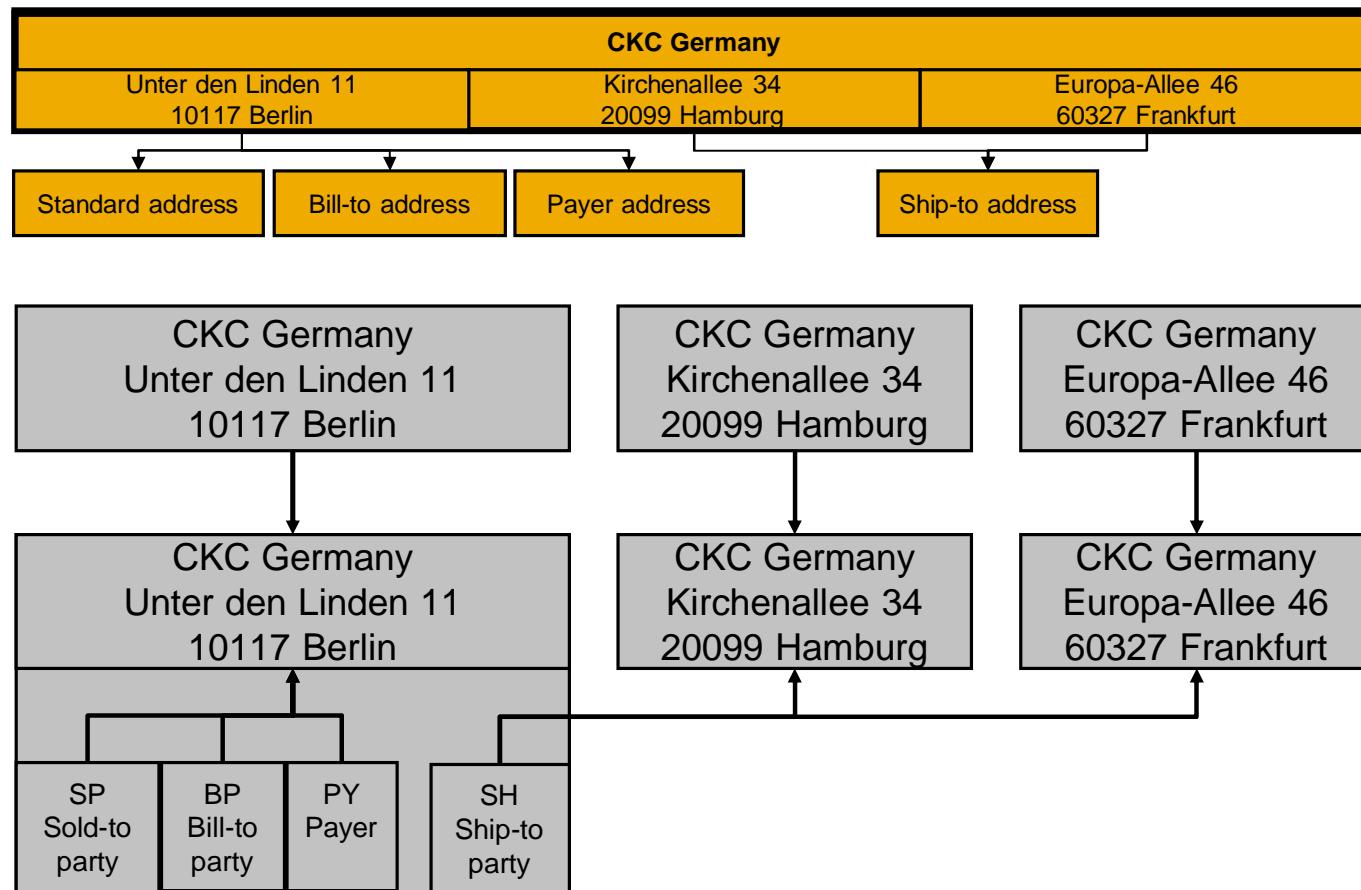
Main address in Berlin is Sold-to, Bill-to, and Payer Address

Additional addresses in Hamburg and Frankfurt are ship-to addresses



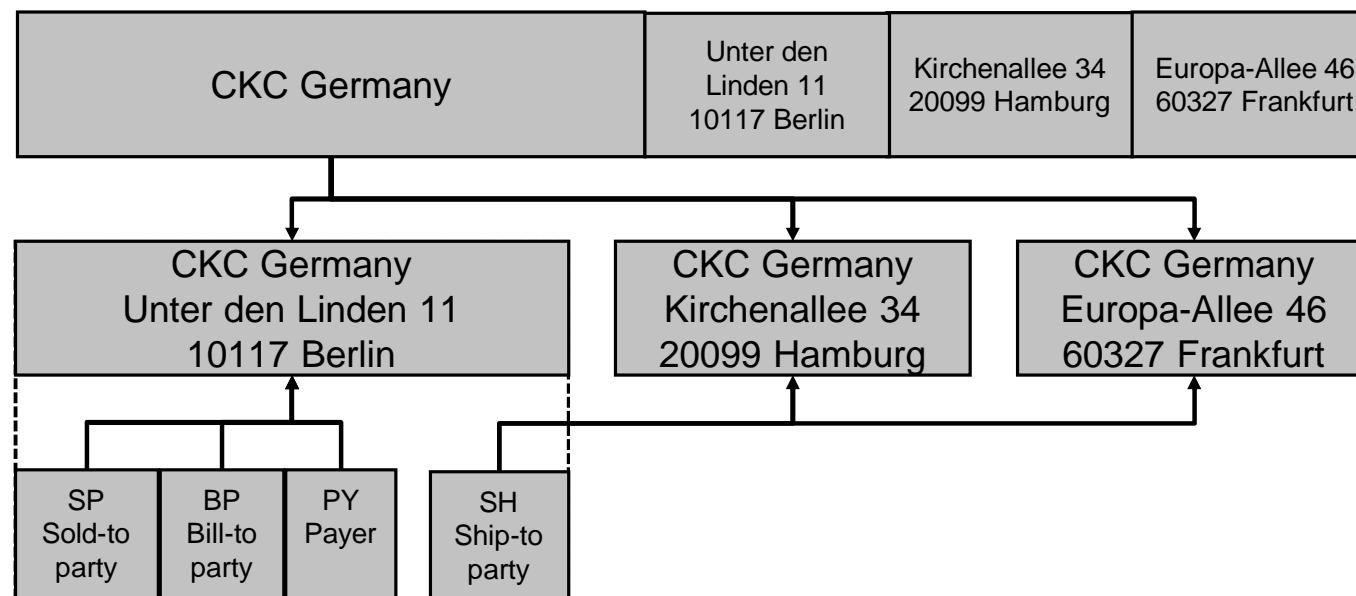
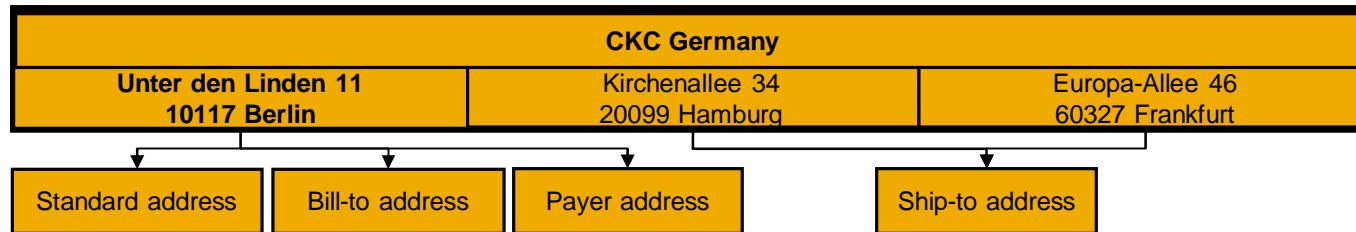
# Function in Detail: Business Partner Data

Assign ERP Customers / ERP Vendors, One BP per Address



# Function in Detail: Business Partner Data

Assign ERP Customers / ERP Vendors, One BP per Legal Entity



## Business Partner

**One** Business Partner for sold-to party with three addresses

## ERP Customers

Relevant location for each process

## Partner Functions (per Sales Area)

SP, BP, and PY by the same ERP Customer  
For SH: links to other ERP Customers under the same Business Partner

# Function in Detail: Business Partner Data

Assign ERP Customers / ERP Vendors, One BP per Legal Entity, User Interface

The figure consists of four screenshots of the SAP user interface, each numbered 1 through 4:

- Screenshot 1:** Addresses screen showing three addresses: Europa-Allee 46 / 60327 Frankfurt, Kirchenallee 34 / 20099 Hamburg, and Unter den Linden 11 / 10117 Berlin. The third address is marked as Standard.
- Screenshot 2:** ERP Customers screen showing three ERP Customers assigned to the Business Partner. Customer 414 has the Standard Address (Unter den Linden 11 / 10117 Berlin) marked as Standard.
- Screenshot 3:** ERP Customer: Control Data screen showing the assignment of an address to an ERP Customer. The address "Kirchenallee 34 / 20099 Hamburg" is selected in a dropdown menu.
- Screenshot 4:** ERP Customer Sales Area: Partner Functions screen showing partner functions assigned to the ERP Customers. The functions SP, BP, and PY are assigned to Customer 415, while SH is assigned to Customer 416.

## 1 Business Partner with Addresses

Add new Business Partner for sold-to party with three addresses, one address marked as standard

## 2 ERP Customers with Sales Area Data

Assign three ERP Customers including Sales Area data to the Business Partner. One ERP Customer is marked as standard which has to use the standard address. For additional assigned ERP Customers, users can decide whether to use the standard address or one of the BP addresses that are assigned explicitly

3

## 4 Partner Functions (per Sales Area)

Maintain partner functions at sales-area level for the standard ERP Customer. Partner Functions SP, BP, and PY are taken over by the same ERP Customer, SH (ship-to) is taken over by the other ERP Customers.

Note: In MDG on S/4HANA 1709 / MDG 9.1, activated ERP Customers can only be referred within Partner Functions. The process may have to be split into two consecutive Change Requests.

# Function in Detail: Business Partner Data

Assign ERP Customers / ERP Vendors, Create BP with Assignments & Partner Functions in one CR

ERP Customers / ERP Vendors added to the Business Partner can now be used as deviating partner within partner functions in the same change request.

This means that within one change request, you are now able to create a Business Partner with multiple ERP Customers / ERP Vendors and maintain partner functions between these ERP Customers / ERP Vendors.

The screenshot shows the SAP Fiori interface for creating Business Partner Data. On the left, there are two tabs: 'ERP Customer Sales Area: Customer Groups' and 'ERP Customer Sales Area: Partner Functions'. The 'Customer Groups' tab is active, showing fields for Customer Group 1, Customer Group 3, and Customer Group 5. The 'Partner Functions' tab shows a table with four rows: SP (Sold-to party), BP (Bill-to party), PY (Payer), and SH (Ship-to party). The 'BP' row has a checked 'Same Partner' checkbox and a red box highlights the 'Partner' column. A modal window titled 'Search: Partner' is open, showing search criteria like Sales Organization (0001), Distribution Channel (01), Division (01), and Name (ckc\*). The results list shows three entries: CKC Germany (Number 2, Street Unter den Linden 11), CKC Germany (Number 1328, Street Kirchenallee 34), and CKC Germany (Number 1329, Street Europa-Allee 46).

Actions	*Partner Function	Partner Function Description	Same Partner	Partner
	SP	Sold-to party	<input checked="" type="checkbox"/>	
	BP	Bill-to party	<input checked="" type="checkbox"/>	
	PY	Payer	<input checked="" type="checkbox"/>	
	SH	Ship-to party	<input type="checkbox"/>	

# Function in Detail: Business Partner Data

## General Data (Customer and Vendor)

Organization: CKCO, CKC SE / 10117 Berlin - ERP Customer CKCO

ERP Customer: Control Data

Multiple Assignment	Administrative Data
Reason:	ERP Customer: CKCO
Standard:	Account Group: Customer (ext.number assignment)
Address:	Standard Address (Unter den Linden)
Account Control	Reference Data
Authorization Group:	Express Station: Berlin-Tegel
Group Key:	Train Station: Berlin-Tegel
Trading Partner:	Location Code:

ERP Customer: Tax Information

Tax Information	Liable for VAT:
City Code:	<input checked="" type="checkbox"/>
County Code:	<input type="checkbox"/>
Fiscal Address:	<input type="checkbox"/>
Tax Type:	Sales/burch tax consumer
SubTrib Group:	Sub.Trib. exempt
Type of Business:	<input type="checkbox"/>
Representative's Name:	<input type="checkbox"/>

ERP Customer: Payment Transactions

Payment Transactions	Alternative Payer
DME Indicator: Use house bank default value	<input type="checkbox"/>

General data can be maintained per ERP Customer / ERP Vendor

Account Group for:

- § Standard Assignment derived from BP Grouping according to CVI Configuration
- § Additional Assignments selected by the user

Authorization checks supported:

- § General Data (F\_KNA1\_GEN, F\_LFA1\_GEN)
- § Account Group (F\_KNA1\_GRP, F\_LFA1\_GRP)

Data will be stored in tables KNA1 / LFA1 during activation

Replication via ALE and SOA Service

# Function in Detail: Business Partner Data

General Data (Customer and Vendor), Select account group during creation

The screenshot shows three sequential steps in a SAP Fiori application:

- Step 1:** Overview of Number Assignment for Direction BP to Customer. A table lists four entries. The last column, "Flexible Grouping", contains checkboxes. The third row has a red box around the "Flexible Grouping" checkbox, and a yellow circle labeled "1" is positioned above it.
- Step 2:** Customer Details screen. It shows General Data (Business Partner ID, Name: CKC AG, Title) and Address (Street: Unter den Linden 11, Postal Code: 1011, City: Berlin, Country: Germany). A yellow arrow points from Step 1 to this screen, and a yellow circle labeled "2" is positioned above the "Name" field.
- Step 3:** ERP Customer: Control Data screen. It shows Multiple Assignment (Reason, Standard checked, Address: Standard Address (Unter den Linden 11)) and Administrative Data (ERP Customer, Account Group: FLEX ACC ONLY: Int. N. Assign.). A yellow arrow points from Step 2 to this screen, and a yellow circle labeled "3" is positioned above the "Account Group" dropdown.

## Business Background

When first assigning an ERP Customer / ERP Vendor to a Business Partner, the account group was automatically derived according to CVI Configuration. Requirement to enable users to select another account group manually.

## CVI Configuration

- 1 Assignment of BP Grouping to Account Group can now be marked as flexible. This means the user can overwrite the account group for standard assignment.

## User Interface

- 2 When creating a new Business Partner, select flexible BP Grouping from the value list.
- 3 When adding a new ERP Customer, the account group is defaulted according to the CVI Configuration, but can be overwritten by the user.

# Function in Detail: Business Partner Data

## Documents (Customer and Vendor)

The screenshot shows the SAP ERP Customer: Documents interface. It displays two documents assigned to an ERP customer:

Actions	Changes	Document	Document Type	Document Part	Document Version	Description	Status
		MDG-C WORD DOCUMENT	ZC1	000	00	MDG 9.1 Starter Kit for Testers	In Work
		10000000065	ZC2	000	00	Matterhorn	In Work

An orange arrow points down from this interface to the DMS UI, indicating the integration between the two systems.

The DMS UI shows the following details for the document ZC2:

Display Document: Basic Data MDG PNG Picture (ZC2)

Document Data:

- Description: Matterhorn
- Document Status: In Work (Not Released)
- User: KOENIGERC, Carsten Koehler, PI S4 MDM(SE)
- Lab/Office:
- Change Number:
- Valid From:
- Authorization Group:

Superior Document:

Originals:

App.	Application	Storage Cat.	S.	M.	File Name
• SIM	Kleinbild	DMS_CLOUD			Zermatt_01.jpg

An orange arrow points from the DMS UI to a preview image of the Matterhorn mountain.

## User Interface

- 1 Multiple documents can be assigned per ERP Customer / ERP Vendor.
- 2 Documents as well as links are stored in the Document Management System (DMS); this UI can be called from MDG UI.
- 3 From DMS UI, document properties can be managed, and document can be displayed.
- 4 Documents can be uploaded to DMS from MDG UI.

## Replication

- § Document as well as link to ERP Customer / ERP Vendor via ALE (IDoc DOCMAS) or
- § Link to ERP Customer / ERP Vendor via SOA Service BusinessPartnerSUITEBulkReplicateRequest

# Function in Detail: Business Partner Data

Lean Classification (Customer and Vendor), Motivation

Feedback for MDG-M Classification (up to MDG 9.0 and S/4HANA 1610):

§ UI-related feedback:

- Classes and characteristics are not on same page
- User should not see a difference between normal attributes and classification
- More usable UI, possibility to adapt the UI

§ Function-related feedback:

- Integration of derivations missing
- Simultaneous display and change of classification is not supported (authorizations for display not possible)
- Simultaneous processing of different class types or classes using a parallel change request is not possible

Missing support in other MDG applications (up to MDG 9.0 and S/4HANA 1610)

§ No support for classification in MDG Consolidation

§ No support for classification for Supplier and Customer in MDG Central Governance

## Function in Detail: Business Partner Data

Lean Classification (Customer and Vendor), Concept

For Customer, Supplier and Material:

§ MDG Single-Object Maintenance UI

§ MDG Consolidation

Simplified UIs

Mass-enabled API

Simplified back-end features to reduce complexity

Class assignment and characteristics valuation work like normal entities in data model



# Function in Detail: Business Partner Data

Lean Classification (Customer and Vendor), Features and Restrictions

## Supported Features

- § Derivations using BAdI CROSS\_ENTITY\_BADI (incl. defaulting for class types and classes)
- § Checks using BRFplus
- § Authorizations (incl. display authorization)
- § Change Documents
- § Multiple class types and class assignments
- § Characteristic values: Single or multiple values, additional values, intervals, mandatory checks (required entry)

## Restrictions (not supported)

- § Object dependencies (preconditions, actions, selection condition, procedures)
- § Overwriting of characteristic values and overwriting of inherited values
- § Engineering Change Number

You can find detailed information about included/excluded features in SAP Note [2479869](#).

# Function in Detail: Business Partner Data

Lean Classification (Customer and Vendor), User Interface

The screenshot shows two tables in the SAP user interface:

**ERP Vendor: Class Assignment**

Actions	Changes	Class Type	Class Type Description	Class
		010	Vendor Class	11
		010	Vendor Class	CK_Hobbies
		010	Vendor Class	CK_USTAX

**ERP Vendor: Characteristics**

Actions	Characteristic Name	Changes	Characteristic Description	Characteristic Value	Value Description
	CK_USTAXVF		US Tax Number Valid From	01.02.2015	01.02.2015
	CK_USTAXVT		US Tax Number Valid To	31.12.2021	31.12.2021
	CK_USTAXAUTH		US Tax number Authority	Frankfurt	Frankfurt
	CK_Hobbies		Hobbies	000001	Football
	CK_Hobbies		Hobbies	000004	Tennis

1

1

## Assign Classes

List UIBB to assign classes. Classes of class types assigned to object table LFA1 / KNA1 can be assigned.

2

2

## Enter Characteristic Values (Single Value)

Single value characteristics assigned to selected classes are visible in one row and can be filled with a value.

3

3

## Enter Characteristic Values (Multiple Values)

Multiple value characteristics are also visible in one row and can be recognized by '+' and '-' buttons on the left. You can use these buttons to insert or delete rows.

# Function in Detail: Business Partner Data

Lean Classification (Customer and Vendor), Further Details

## Configuration / Master Data

- § Based on Customizing configuration of classification system to e.g. maintain object types and class types (see Customizing under Cross-Application Components è Classification System)
- § Based on master data of classification system to e.g. maintain characteristics and classes (see SAP Menu under Cross-Application Components è Master Data)

## Consolidation

- § Can be consolidated like other entities
- § See separate presentation about Consolidation

## Data Activation / Replication

- § Classification data will be stored in classification system during activation
  - Object Type KNA1 for ERP Customer
  - Object Type LFA1 for ERP Vendor
- § ALE replication via standard IDoc CLFMAS
- § SOA Service replication via BP service *BusinessPartnerSUITEBulkReplicateRequest*

# Function in Detail: Business Partner Data

## Texts (Customer and Vendor)

You can now enter explanatory texts for ERP Customers and ERP Vendors for different text types and for different languages.

Texts are available for

- ERP Customers at general level, as well as at company-code and sales-area level
- ERP Vendors at general level, as well as at company-code and purchasing-organization level

Configuration of Text IDs within IMG activities known from ERP Customer / ERP Vendor

The screenshot shows a SAP Fiori application window titled 'ERP Customer: Texts'. At the top, there are buttons for 'Edit' and 'New'. Below the header is a table with columns: Actions, Changes, Language, Language Description, and Text ID. Two rows are visible in the table:

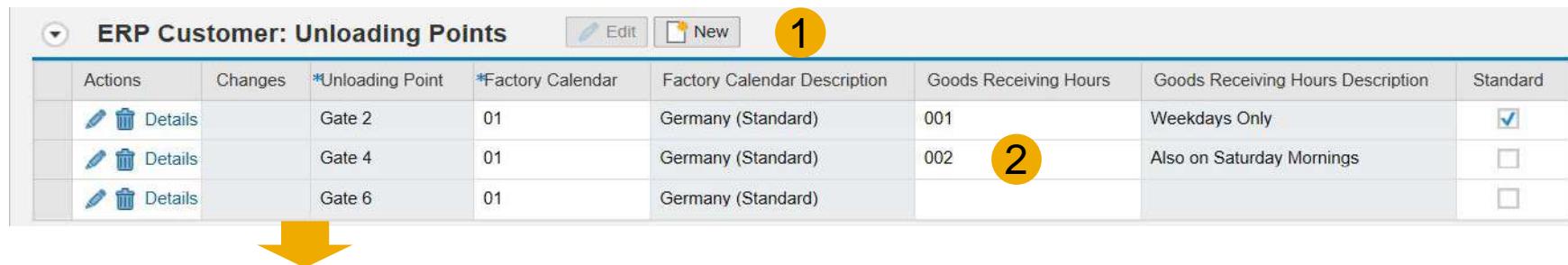
Actions	Changes	Language	Language Description	Text ID
		EN	English	Sales note for customer
		EN	English	Accounting note

To the right of the table is a large text area labeled 'Text' containing the following text:

Customer will always be willing to increase ordered quantity if good discount is offered

# Function in Detail: Business Partner Data

## Unloading Points (Customer)



Actions	Changes	*Unloading Point	*Factory Calendar	Factory Calendar Description	Goods Receiving Hours	Goods Receiving Hours Description	Standard
		Gate 2	01	Germany (Standard)	001	Weekdays Only	<input checked="" type="checkbox"/>
		Gate 4	01	Germany (Standard)	002	Also on Saturday Mornings	<input type="checkbox"/>
		Gate 6	01	Germany (Standard)			<input type="checkbox"/>

1

2

ERP Customer Unloading Point

Unloading Point

- \* Unloading Point: Gate 2
- \* Factory Calendar: 01 (Germany (Standard))
- Goods Receiving Hours: 001 (Weekdays Only)

2

ERP Customer Unloading Point: Opening Hours

	Morning	Afternoon
Mo...	09:00 - 12:45	13:00 - 17:00
Tue...	08:30 - 12:00	13:00 - 17:00
We...	08:30 - 12:00	13:00 - 15:00
Thu...	08:30 - 12:00	13:00 - 17:00
Friday:	08:00 - 12:00	13:00 - 14:00
Sat...	00:00 - 00:00	00:00 - 00:00
Sun...	00:00 - 00:00	00:00 - 00:00

### User Interface

- 1 § Multiple unloading points can be maintained per ERP Customer. One can be marked as standard.
- 2 § Pre-configured goods receiving hours can be assigned or can be maintained manually (field *Goods Receiving Hours* is initial).
- § Receiving points and departments are not supported.

### More Information

- § Data will be stored in ERP Customer (table KNVA) during activation
- § Unloading points can be replicated via
  - § ALE (IDoc DEBMAS) and
  - § SOA Service BusinessPartnerSUITEBulkReplicateRequest

# Function in Detail: Business Partner Data

Company Code Data (Customer and Vendor)

Multiple Company Codes can be assigned per ERP Customer / ERP Vendor

Screen Layout per Company Code supported

IMG: Financial Accounting (New) à Accounts Receivable and Accounts Payable à Customer Accounts à Master Data à Preparations for Creating Customer Master Data à Define Screen Layout per Company Code (Customers)  
Similar path for ERP Vendor

Authorization check per company code (F\_KNA1\_BUK, F\_LFA1\_BUK) supported

Data will be stored in tables KNB1 / LFB1 during activation

Replication via ALE and SOA Service

The screenshot displays a SAP Fiori interface for defining an ERP Customer Company Code. The top bar shows the organization as CKCO, CKC SE / 10117 Berlin - ERP Customer CKCO - Company Code 0001. The main area has four tabs: 'ERP Customer Company Code' (selected), 'ERP Customer Company Code: Accounting Information', 'ERP Customer Company Code: Payment Data', and 'ERP Customer Company Code: Automatic Payment Transactions'.

- ERP Customer Company Code:** Contains a field for 'Company Code' with the value 'MDG Company Code 0001'.
- ERP Customer Company Code: Accounting Information:** Includes fields for Reconciliation Account (140000, Customers - Domestic Receivables), Head Office, Authorization Group, Value Adjustment, Sort Key (001), Planning Group, Release Group, and Tolerance Group (DEB1).
- ERP Customer Company Code: Payment Data:** Shows Terms of Payment (within 14 days 2% cash discount, within 30 days), Credit Memo Payment Terms, B/E Charges Payment Term, Check Cashing Time, Known/Negotiated Late, AR Pledging Indicator, and Payment History Record.
- ERP Customer Company Code: Automatic Payment Transactions:** Lists Payment Methods (KS, Bankcheck bei Auslandszahlung: S), Alternative Payer, Payment Block (Free for payment), and House Bank (Postbank, Deutsche Postbank AG).

# Function in Detail: Business Partner Data

## Dunning Areas (Customer and Vendor)

Multiple Dunning Areas per company code assigned to ERP Customer / ERP Vendor

Configure Dunning Areas and values for other fields in IMG for ERP Customer / ERP Vendor

Dunning Area ‘ ‘ (Default) always first entry

Data will be stored in tables KNB5 / LFB5 during activation

Replication via ALE and SOA Service

The screenshot shows two SAP Fiori screens. The top screen is titled "ERP Customer Company Code: Dunning Areas". It has columns for Actions, Changes, \*Dunning Area, and Dunning Area Description. There are two entries: one for "Default Dunning Area" and another for "MDG Dunning Area 01 for CC 0001". The bottom screen is a detailed view of a dunning area, titled "Dunning Area". It contains fields for \* Dunning Area, Dunning Recipient, Dunning Block, Last Dunned, Dunning Procedure, Dunning Clerk, Dunning Level, and Date of Legal Dunning... . The "Default Dunning Area" from the list view is selected in the detailed view.

Actions	Changes	*Dunning Area	Dunning Area Description
Details			Default Dunning Area
Details		01	MDG Dunning Area 01 for CC 0001

Dunning Area	
* Dunning Area:	<input type="text"/>
Dunning Recipient:	<input type="text"/>
Dunning Block:	<input type="text"/>
Last Dunned:	<input type="text"/>
Dunning Procedure:	<input type="text"/> 0001 <input type="checkbox"/> Four-level dunning notice
Dunning Clerk:	<input type="text"/> MM <input type="checkbox"/> Max Mustermann
Dunning Level:	<input type="text"/>
Date of Legal Dunning... :	<input type="text"/>

# Function in Detail: Business Partner Data

## Withholding Tax Types (Customer and Vendor)

Multiple Withholding Tax Types per company code assigned to ERP Customer / ERP Vendor

Activate Extended Withholding Tax per Company Code

IMG: Financial Accounting (New) à Financial Accounting Global Settings (New) à Withholding Tax à Extended Withholding Tax à Company Code à Activate Extended Withholding Tax

Data will be stored in tables KNBW / LFBW during activation

Replication via ALE and SOA Service

ERP Customer Company Code: Extended Withholding Tax Types			
Actions	Changes	*Withholding Tax Type	Withholding Tax Type Description
	Details	IF	Funrural
	Details	IP	FCPS

↓

Extended Withholding Tax Type	
* Withholding Tax Type:	IF      Funrural
Withholding Tax Identification Number:	12345678
Withholding Tax Obligated From:	01.03.2017
Exemption certificate no.:	11223344
Exemption start date:	01.06.2017
Exemption reason:	
Withholding Tax Code:	R0      2,2% - Farmer with CPF
Indicator: Withholding Tax Agent:	<input type="checkbox"/>
Withholding Tax Obligated Until:	31.12.2018
Exemption rate:	20,00
Exemption end date:	31.12.2017

# Function in Detail: Business Partner Data

## Sales Area Data (Customer)

Multiple Sales Areas per ERP Customer

Screen layout per sales area supported  
(transaction SM30, view V\_T079V)

Authorization check for ERP Customer per Sales Area (V\_KNA1\_VKO) supported

Data will be stored in tables KNVV during activation

Replication via ALE and SOA Service

The screenshot shows the SAP ERP Customer Sales Areas interface. At the top, there is a table titled "ERP Customer: Sales Areas" with columns: Actions, Changes, \*Sales Organization, Sales Organization Description, \*Distribution Channel, Distribution Channel Description, \*Division, and Division Description. Two rows are visible: Row 1 has Sales Org. 0001 and Sales Org. 0001; Row 2 has MDG Sales Org. 0002 and MDG Sales Org. 0002. Below this is a large yellow arrow pointing down to a detailed view of a single sales area. The detailed view is titled "Organization: CKCO, CKC SE / 10117 Berlin - ERP Customer CKCO - Sales Are..." and contains three tabs: "ERP Customer Sales Area", "ERP Customer Sales Area: Sales Order", and "ERP Customer Sales Area: Shipping". The "ERP Customer Sales Area" tab shows fields for \* Sales Organization (0001), Sales Org. 001, \* Division (01), and Product Division 01. The "ERP Customer Sales Area: Sales Order" tab shows fields for \* Sales District (000001), Northern region, Order Probability (%), Sales Office (0001), Sales Office South, Authorization Group, Sales Group (001), Sales Group 001, Item Proposal, Customer Group (02), Retail, Account at Customer, ABC Classification, Unit of Measure Group, Currency (EUR), European Euro, Exchange Rate Type, and PP Customer Procedure. The "ERP Customer Sales Area: Shipping" tab shows fields for Delivery Priority (1, High) and Order Combination (checked).

# Function in Detail: Business Partner Data

## Partner Functions (Customer)

Multiple Partner Functions per Sales Area can be assigned to ERP Customer

Partner Determination for ERP Customer can be configured in IMG

IMG: Sales and Distribution à Basic Functions à Partner Determination à Set Up Partner Determination

Data will be stored in tables KNPV during activation

Replication via ALE and SOA Service

ERP Customer Sales Area: Partner Functions								
Actions	Changes	*Partner Function	Partner Function Description	Same Partner	Partner	Partner Name	Partner description	Default Partner
		SP	Sold-to party	<input checked="" type="checkbox"/>				<input type="checkbox"/>
		BP	Bill-to party	<input checked="" type="checkbox"/>				<input type="checkbox"/>
		PY	Payer	<input checked="" type="checkbox"/>				<input type="checkbox"/>
		SH	Ship-to party	<input type="checkbox"/>	416	CKC Germany / 60327 Frankfurt		<input type="checkbox"/>

## Function in Detail: Business Partner Data

### Tax Indicators (Customer)

Tax Indicators to be maintained per relevant countries

Collect company code's countries of Sales Organizations assigned to ERP Customer

Data will be stored in table KNVI during activation

Tax Indicators can be replicated via ALE and SOA Service

ERP Customer: Tax Indicators							
Actions	Changes	*Country	Country Description	*Tax Category	Tax Category Description	Tax Classification	Tax Classification Description
		DE	Germany	MWST	Output Tax	1	Liable for Taxes
		GB	United Kingdom	MWST	Output Tax	0	Tax Exempt

# Function in Detail: Business Partner Data

## Purchasing Organization Data (Vendor)

Multiple Purchasing Organizations can be assigned per ERP Vendor

Field modification per Purchasing Organization supported (transaction SM30, view V\_T079M)

Authorization check per Purchasing Organization (M\_LFM1\_EKO) supported

Data will be stored in tables LFM1 during activation

Replication via ALE and SOA Service

Organization: CKCO, CKC SE / 10117 Berlin - ERP Vendor CKCO - Purchasing Organization 0001

ERP Vendor Purchasing Organization

Purchasing Organization  
\* Purchasing Organization: MDG Purch. Org. 0001

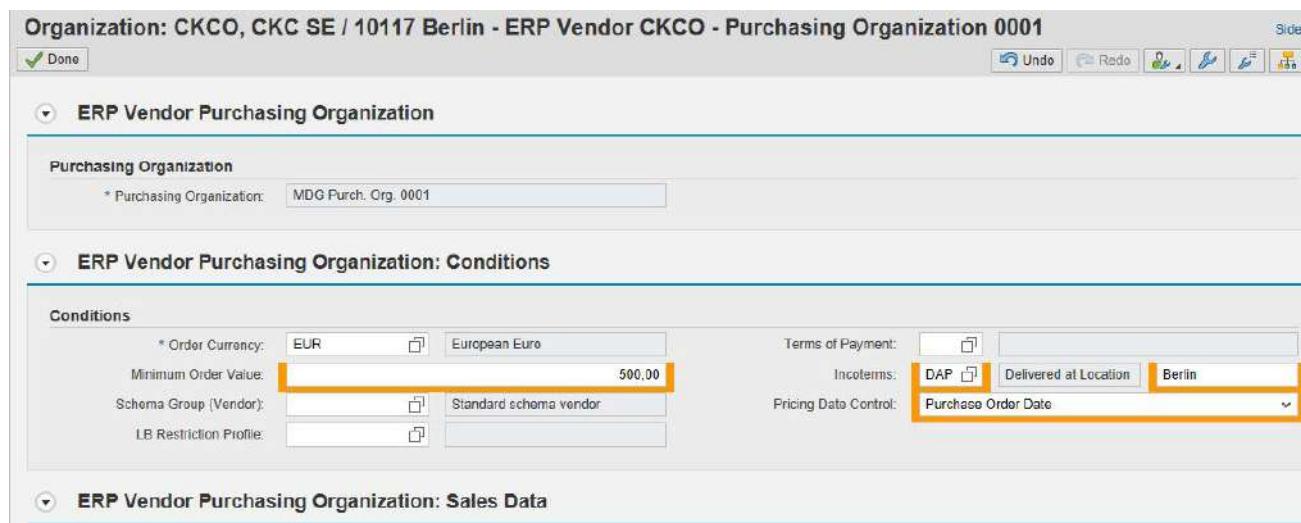
ERP Vendor Purchasing Organization: Conditions

Conditions

* Order Currency:	EUR	European Euro
Minimum Order Value:	500,00	
Schema Group (Vendor):	Standard schema vendor	
LB Restriction Profile:		

Terms of Payment:  
Incoterms:  
Pricing Data Control:

ERP Vendor Purchasing Organization: Sales Data



# Function in Detail: Business Partner Data

## Different Purchasing Organization Data (Vendor)

Multiple records per assigned ERP Vendor / Purchasing Organizations

Record can be dependent on a:

- § Plant
- § Vendor Subrange
- § Combination of Plant / Vendor Subrange

Data will be stored in table LFM2 during activation

Replication via ALE and SOA Service

Plants can be configured in IMG  
Vendor Subranges are maintained per ERP Vendor at general data level (table WYT1)

The screenshot shows the SAP ERP interface for managing vendor purchasing organizations. The main title is 'ERP Vendor Purchasing Organization: Different Purchasing Data'. Below it, a sub-screen titled 'Organization: CKCO, CKC SE / 10117 Berlin - ERP Vendor CKCO - Purchasing Organization 0001 - Plant 0001 Subra...' is displayed. The sub-screen contains sections for 'Different Purchasing Data' and 'Conditions'. The 'Different Purchasing Data' section includes fields for 'Sub-Range' (0001) and 'Raw Material'. The 'Conditions' section includes fields for 'Order Currency' (USD), 'Minimum Order Value', 'UB Restriction Profile', 'Terms of Payment' (0001), 'Incoterms', 'Pricing Date Control', and 'Delivery Date'.

The screenshot shows the SAP ERP interface for managing vendor sub-ranges. The title is 'ERP Vendor: Sub-Ranges'. The table lists two sub-ranges: '0001 Raw Material' and '0002 Precious Metal', both in English language.

Actions	C.	*La.	Language Description	*Su...	*Sub-Range Description
		EN	English	0001	Raw Material
		EN	English	0002	Precious Metal

# Function in Detail: Business Partner Data

## Partner Functions (Vendor)

Multiple Partner Functions can be assigned per ERP Vendor / Purchasing Organization.

Partner Functions can be additionally dependent on 'Different Data':

- § Plant
- § Vendor Subrange
- § Combination of Plant / Vendor Subrange

Partner Determination can be configured in IMG  
IMG: Materials Management à Purchasing à Partner Determination

Data will be stored in table WYT3 during activation

Replication via ALE and SOA Service

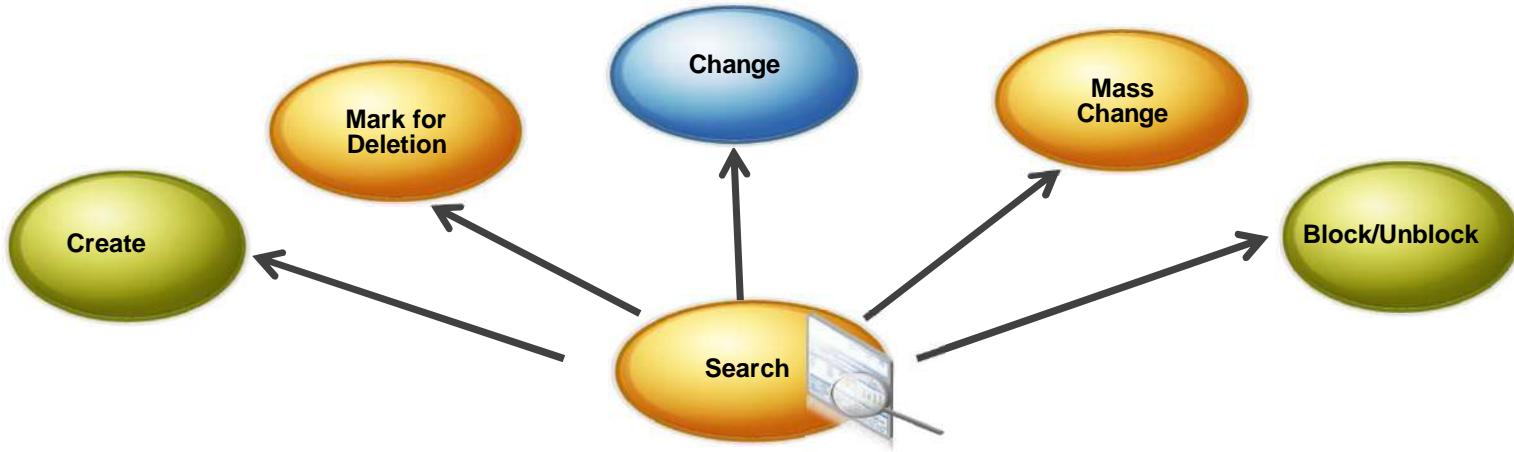
ERP Vendor Purchasing Organization: Partner Functions											
Actions	Changes	*Partner Function	Partner Function Description	Same Partner	Partner	Partner Name	Default Partner	Sub-Range	Sub-Range Description	Plant	Plant Description
		OA	Ordering address	<input type="checkbox"/>	CKCOFLEXC	CKC Flex Account C / 69190 Walldorf	<input type="checkbox"/>	0001	Raw Material	0001	MDG Plant 0001
		PI	Invoicing Party	<input type="checkbox"/>	CKCOFLEXC	CKC Flex Account C / 69190 Walldorf	<input type="checkbox"/>	0001	Raw Material	0001	MDG Plant 0001
		OA	Ordering address	<input checked="" type="checkbox"/>			<input type="checkbox"/>				
		VN	Vendor	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
		PI	Invoicing Party	<input checked="" type="checkbox"/>			<input type="checkbox"/>				

# Function in Detail

- Processes
- User Interface
- Business Partner Data
- **Data Quality**
- Data Replication
- Client Maintenance
- Cleansing
- Processing of Multiple Objects
- Hierarchies
- MDG Framework Capabilities and Process Analytics
- Data Protection
- MDG for FI Contract Account

# Function in Detail: Data Quality

## Search Overview



### Search – First Step to Data Quality

Search is the initial action, if a user wants to “do something” with the data

Several flavours supported via Search Provider Concept

Standard providers:

- DB-based search
- Enterprise Search
- SAP HANA-based Search

# Function in Detail: Data Quality

## Search Capabilities

Consistent search UI containing all search capabilities:

- Search methods are easy to configure, more search methods can be added
- Drop-down lists of available fields and operators
- Add and remove search criteria (AND combination of multiple parameters)
- Search criteria can be saved using a descriptive name for quick and easy reuse (as a global or private variant)
- Search for hits within active and inactive data
- One or more business partners can be selected to find related change requests

The screenshot shows the SAP Search Customer interface. At the top, there is a header with the SAP logo and the title "Search Customer". Below the header, there is a search bar labeled "Search Method: Address Data". Underneath the search bar, there is a section titled "Search Criteria" with four dropdown fields: "Business Partner ID" (set to "Is"), "Name 1 / Last Name" (set to "Is" and contains "manns\*"), "City" (set to "Is"), and "Street" (set to "Is"). To the right of these fields are several icons for filtering and saving. Below the search criteria, there is a checkbox "Maximum Number of Results: 100" and buttons for "Search", "Clear Entries", and "Reset to Default". To the right of these buttons is a "Save Search As:" field with a dropdown arrow. Below these controls is a section titled "Result List: 3 business partners found". This section includes a toolbar with buttons for "New", "Block", "Change Documents", "Replication Status", "Replicate", "Create Cleaning Case", "Copy", "Multi-Processing", and "Change Requests". There is also a "Pending Change R..." column with checkboxes, a "Business..." column, a "Description" column, and a "Rank" column. The result list shows three entries:

Pending Change R...	Business...	Description	Rank
<input checked="" type="checkbox"/>	60224	Manns Marketing Co / Newton IA 50208-4919	100,00
<input type="checkbox"/>	87281	Manns SE / 70178 Stuttgart	100,00
<input type="checkbox"/>	87282	Manns Marketing Co / Newton 50208-4919	100,00

# Function in Detail: Data Quality

## Search Options

The screenshot shows the 'Search Supplier' application interface. At the top, there is a dropdown menu for 'Search Method' set to 'Enterprise Search' with a checked 'Fuzzy' checkbox. Below this is a 'Saved Searches' dropdown and a 'Search Criteria' section. The 'Search Criteria' section contains a table with rows for 'Business Partner ID', 'First Name of Organization', 'Second Name of Organization', 'Search Term 1', 'Street', 'House Number', and 'Postal Code'. Each row has a dropdown for the field name and a dropdown for the operator ('is', 'IS', 'is empty', etc.). To the right of each row are three small blue icons: a plus sign, a minus sign, and a circular arrow. At the bottom of the 'Search Criteria' section are buttons for 'Search', 'Clear Entries', and 'Reset to Default', along with a checkbox for 'Maximum Number of Results' (set to 100) and a 'Save Search As:' input field with a save icon.

Fuzzy (error-tolerant) search, if supported by search provider

Add and remove search parameter (AND combination of multiple parameters)

Drop-down lists of available fields and operators for search

Search criteria can be saved using a descriptive name for quick and easy reuse

# Function in Detail: Data Quality

## Enterprise Search

Search Supplier

Search Method: Enterprise Search  Fuzzy

Saved Searches:

Search Criteria

Search Term:	Condition:	Value:	Operations:
Business Partner ID	is empty		<input type="button" value="Add"/>
First Name of Organization	is		<input type="button" value="Add"/>
Search Term 1	is		<input type="button" value="Add"/>
Postal Code	is		<input type="button" value="Add"/>

Free text  Attribute-based

Maximum Number of Results: 100

Save Search As:

Using Enterprise Search with MDG provides

- Free-text search across many attributes
- Attribute-based search in specific fields only
- Search active data only to limit search to active area
- Fuzzy search checkbox to enable error-tolerant search mode

Advantages of using Enterprise Search (compared with database search)

- Free-text search
- Fuzzy (error-tolerant) search

# Function in Detail: Data Quality

## SAP HANA-based search capabilities

The screenshot shows the SAP NetWeaver Business Client interface for 'Search Supplier'. The left sidebar navigation includes 'Supplier Governance' with 'Change Requests' and 'Supplier Processing' (selected), 'Processing of Multiple Suppliers', 'Change Requests and Documents', 'Analyses of Change Request Process', and 'Data Exchange'. The main area is titled 'Search Supplier' with 'Search Method: Supplier Search (HANA)'. It features a 'Search Criteria' section with fields for Name 1 / Last Name (Mueller G), Name 2 / First Name (Heidelberg), Search term 1, City, Postal Code (69115), and Street. A 'Result List' table displays 9 business partners found, each with a Business Partner ID, Description, Category, and Rank. The table includes columns for Pending Change Request, Business Partner ID, Description, Category, and Rank. The rank column shows values like 90.80, 90.80, 90.18, 89.76, 87.97, 87.97, 86.32, 84.04, and 81.81.

### Search terms and attribute-based search

- Using a single search term “free-style search” across all attributes
- The fuzziness threshold for search criteria can be customized. A threshold of 1.0 will run an exact match search for that criterion and hence behave as ‘equal to’.

### Calculated similarity rank

- For each positive hit, SAP HANA-based search calculates a similarity score weighted across all attributes
- Hit List contains ranking and is sorted by ranking

# Function in Detail: Data Quality

## Duplicate Check, Validations, Address Enrichment

Prevent creation of duplicates for increased effectiveness and efficiency

- Y Checked early and embedded in the process
- Y High detection quality of matching using SAP HANA-based or Enterprise Search

### Validations

- Y Reuse of existing validation logic
- Y Custom validations can be modelled and programmed  
(For example, code lists, simple checks, or rules using BRFplus)
- Y Integration of rules from MDG, Data Quality Management

### Address Enrichment

- Y Simple check and selection lists
- Y Integration with content provided by SAP Data Quality Management
- Y Automatically adding Tax Jurisdiction Code reusing interfaces/ providers

Checked Record:

...	Bus...	Tel...	Street	Hous...	Postal...	City	Country	Region	Name / last name	...
	66355		Schweizer Str.	11	69123	Heidelberg	Germany		CKC HEIDELBERG	

Potential Duplicates Found:

...	Bus...	Tel...	Street	Hous...	Postal...	City	Country	Region	Name / last name	...	Score
	7035		Schweizer Str.	11	69124	Heidelberg	Germany	Baden...	CKC HEIDELBERG		96,74

[Show All](#) [Continue](#) [Switch to Duplicate](#)

Address

House Number / Street:	123	Broadway	
City / State:	New York	NY	New York
ZIP Code:	123456		
Country:	US	USA	
District:	! The postal code 123456 must have a length of 5 or 10 - Display Help		
Language:	! No jurisdiction code could be determined		
Tax Jurisdiction:			

Address Validation - Review Changes

Please review Address validation results

Address Component	Original Address	Validated Address
House Number	100	100
House no. suppl.		
Street	Broadway	Broadway
City	New York	New York
Region		NY
Postal Code	10014	10005-1999
Country	US	US

Number / Street: 100 Broadway

City / State: New York NY

ZIP Code: 10014

Country: US USA

District: NEW YORK

Language: EN English

Tax Jurisdiction: 3308120101

Validation Zone:

Code / PO Box:

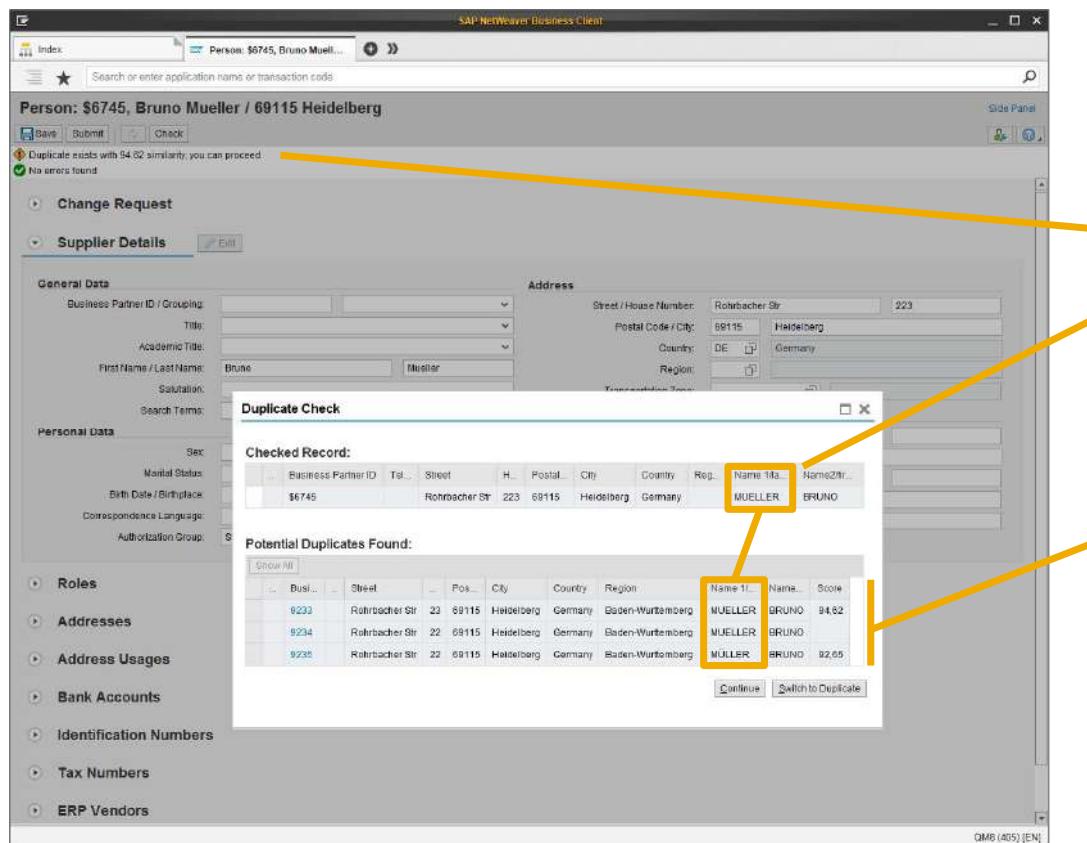
Without Number:

Company Postal Code:

[Accept Validated Address](#) [Back](#) [Use Original Address](#) [Cancel](#)

# Function in Detail: Data Quality

Duplicate detection via SAP HANA-based search



Prevent users from creating redundant master data

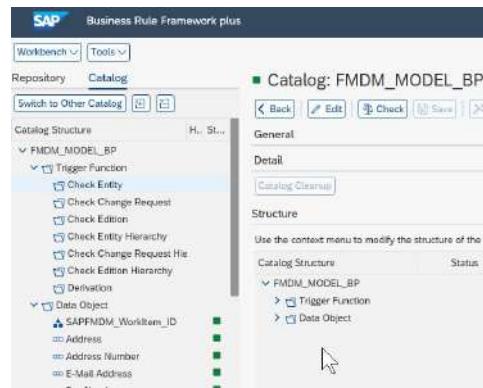
- § Find duplicates early in the process
- § High detection quality using SAP HANA-based search and matching

Help users to decide if duplicates exist

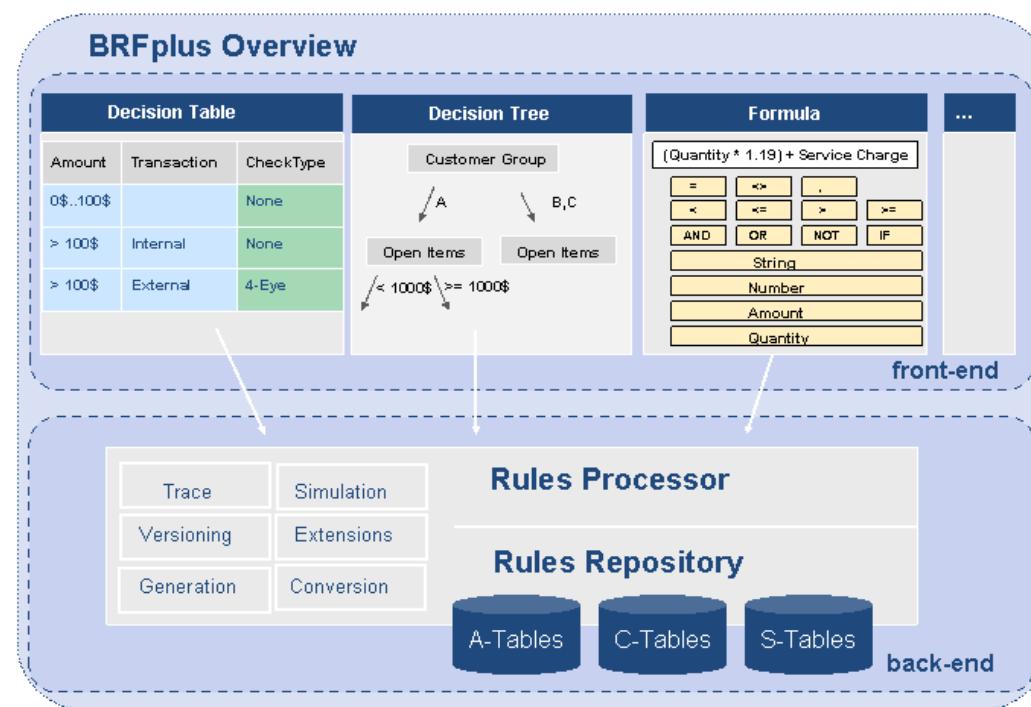
- § Similarity score used to identify and sort potential duplicates

# Function in Detail: Data Quality

## Checks and Derivations using BRFplus



Transaction USMD\_RULE



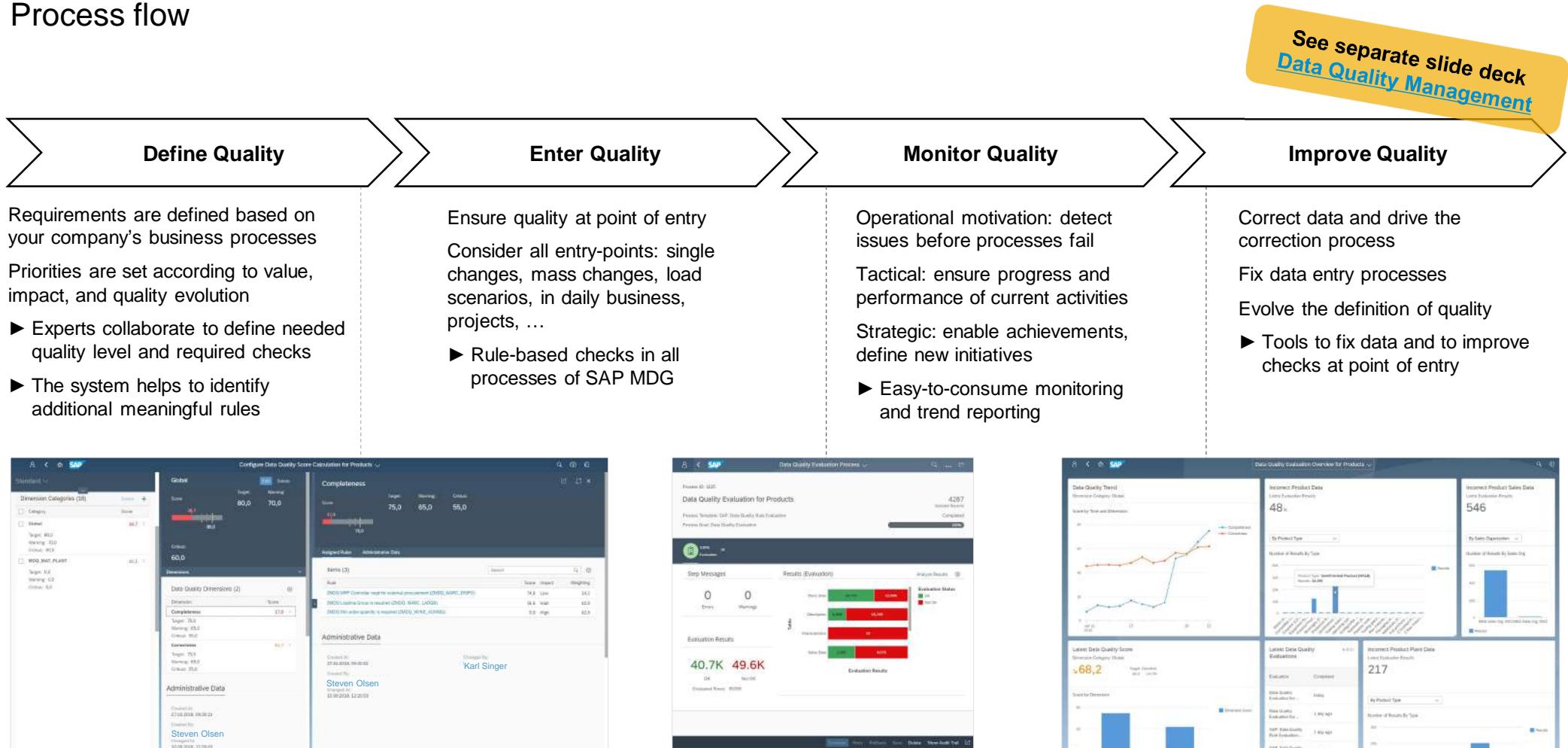
For general information  
on how to work with  
BRFplus, see:

§ [SAP Help Portal](#)

§ [SAP Documentation](#)

# SAP Master Data Governance, Data Quality Management\*

## Process flow



# Master Data Quality Management\*

Improve the quality of your business partner and product data

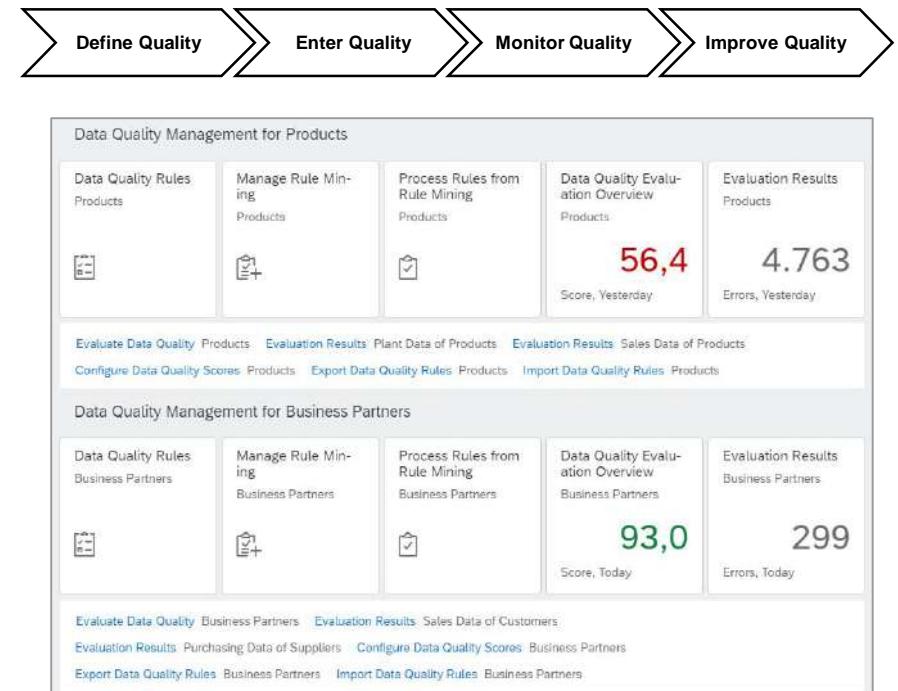
In a nutshell ...

Business user application to define master data quality rules, striving for consistent usage across all points of entry and enabling data quality monitoring and remediation.

## Business value

Central place for master data quality rules. Providing transparency on business aspects, usages and technical implementations, consistent quality definition, and continuous evaluation and monitoring

- § Business partner and product master data covered as packaged applications, and platform for custom-defined objects
- § Collaboratively describe, catalog, and implement rules for data quality evaluation
- § Schedule quality evaluations, analyse evaluation results and initiate correction of erroneous data
- § Get an overview of current data quality status and KPIs
- § Allow for drill-down analysis of data quality scores along multiple dimensions



# Function in Detail: Data Quality

## MDQ Rule Adapter in Central Governance

As a master data steward, I want to use existing data quality rules for quality evaluation in change request processing as well.

**Solution: Integration of Master Data Quality rules in Central Governance Change Request Processing**

- Enable additional usage of rule for check in change request
- Reuse of the same rule implementation
- Flexibility to independently enable rules for evaluation and check
- Open for custom implementation in the access class of MDG, central governance for custom objects

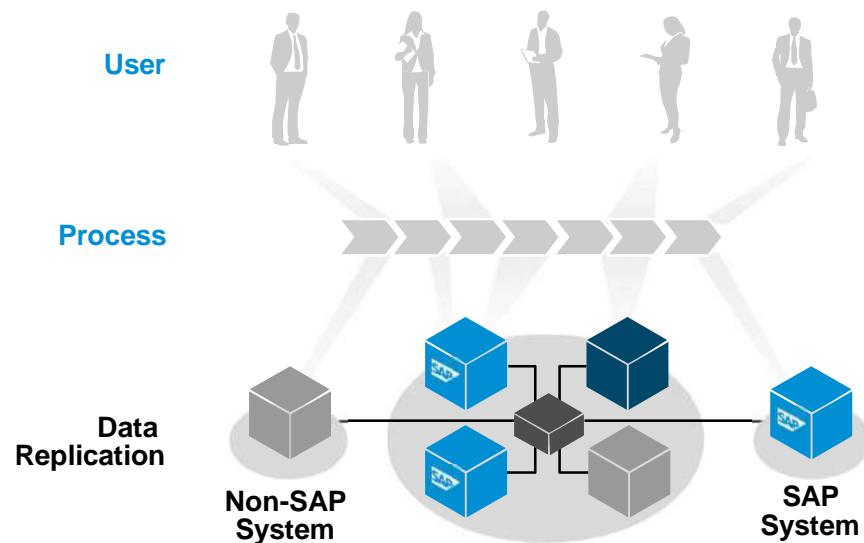
The screenshot shows the SAP Central Governance interface for a rule adapter named 'CL\_SEARCH1'. At the top, it displays the rule's name, a search term comparison ('Search Term 1 not equal Search Term 2'), its latest evaluation date ('28.04.2020, 10:42:24'), and its base table ('General (BUT000)'). The rule has a score of 99,6, with 60,719 OK and 200 Not OK cases. The status is 'Approved'. Below this, there are tabs for General Information, Usage, Implementation, Message, Dimensions, Evaluation, Additional Information, and Administrative Data. The General Information tab is selected, showing 'Business Details' and 'Contacts' sections. Under Business Details, fields include Business Description ('The value of search term 1 ..'), Business Reason ('We don't want to create redundant data-'), Scope ('All active business partner'), and Link. Under Contacts, fields include Rule Owner ('Chris'), Implementation Expert ('Chris'), Business Contact ('-'), and Data Owner ('-'). The Usage tab is also visible at the bottom, listing 'Data Quality Evaluation' and 'Check in Change Requests' with their respective statuses (Enabled) and 'Disable' buttons.

# Function in Detail

- Processes
- User Interface
- Business Partner Data
- Data Quality
- **Data Replication**
- Client Maintenance
- Cleansing
- Processing of Multiple Objects
- Hierarchies
- MDG Framework Capabilities and Process Analytics
- Data Protection
- MDG for FI Contract Account

# Function in Detail: Data Replication

## Overview



## Replication

- Y Automatic or manual replication to SAP and non-SAP systems
- Y Peer-to-peer or mediated

## Replication Techniques

- Y DRF controlling replication mechanisms like
  - Y ALE for S/4HANA OP, SAP ERP 6.0, R/3 and non-SAP systems
  - Y SOA service for SAP and non-SAP systems
  - Y RFC and File for SAP and non-SAP systems
- Y CIF for SAP SCM and MW for SAP CRM/SRM

## Replication Features

- Y Flexibility to replicate selected data only to a specific client system by defining filters (controlled by DRF)
- Y Support of different object IDs or Customizing keys between hub and client systems (via mapping in MDG or PI)
- Y Monitoring and error handling

# Function in Detail: Data Replication

## Replication Status Information

### Replication Status Information

§ Overview of replication status per customer / supplier to all relevant target systems

§ Status per target system

- Green: OK
- Yellow: OK, but answer from target system still pending
- Red: Error occurred

§ Detailed log per target system available

The screenshot shows the SAP Replication Status Information interface. At the top, there is a search bar for 'Business Object Type' (set to 'Business Partner') and 'Object ID Type' (set to 'Business Partner Number'), with a value '8912' entered. Below the search bar is a 'Search' button. The main area is titled 'Replication Status Information' and contains a table with columns: Status, Target System, Object ID Type, Object ID, Message Number, Change Request, Com Channel, Application Log, Date, and Time. The table lists various replication entries for different target systems like E9U\_470, QSC\_470, QDD\_461, QDD\_470, and QW8\_410. Most entries are green (OK), except for one in E9U\_470 which is yellow (pending). A large yellow arrow points from the top window down to a second window titled 'Replication Status Information' at the bottom. This second window is titled 'Propagated Type/Date/Time/User' and displays a hierarchical log of replication events for object 8912. The log includes items like 'Object 8912 posted successfully in system E9U\_470', 'Replication outbound implementation Outbound Impl. for BPREL via Services (896\_3)', and various filtering and process messages. At the bottom of the second window is a 'Replication Log Messages' section with a table showing a single message: 'Object 8912 posted successfully in system E9U\_470'.

# Function in Detail: Data Replication

## Explicit Selection of Target Systems

### Explicit Selection of Target Systems

- § Enter required target systems explicitly during CR processing
- § These target systems are considered in addition to the target systems automatically determined by the filter logic
- § Activate option per Change Request type in IMG under Master Data Governance, Central Governance à General Settings à Process Modeling à Change Requests à Create Change Request Type

The screenshot shows the SAP Fiori interface for creating a change request. The top navigation bar displays 'Organization: \$6203, Solutions AG / 10117 Berlin'. Below it, there are tabs for 'Change Request' (selected), 'General', 'Notes', 'Attachments', and 'Target Systems'. The 'Target Systems' tab is highlighted with a red box. Under this tab, there is a section for 'Action: Business System' with a note: 'The table does not contain any data'. The bottom part of the screen shows 'Supplier Details' and 'General Data' sections, along with an 'Address' section on the right containing fields like Street, Postal Code, Country, Region, Language, and Transportation Zone.

# Function in Detail: MDG Framework Capabilities

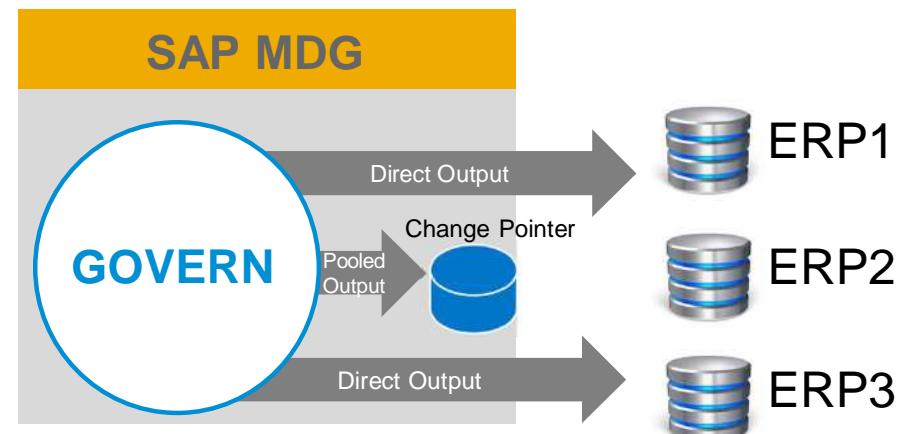
## Data Replication: Pooled or Direct Replication

You can decide if you want to enable direct replication or pooled replication for each combination of business object and target system. With direct replication, the messages are sent with the activation of the change request. With pooled replication, the messages are sent periodically using the DRF change pointer.

- **Direct Output:** Changes are directly transferred to a target system.
- **Pooled Output:** Changes are collected and transferred in a mass process at a later point in time.

You can trigger the mass process for pooled output by starting or scheduling the report *Execute Data Replication (RDRF MESSAGE OUT)* for the relevant replication models.

BO Type	Description	Sys. Filt.	Outp.Mode
147	Business Partner		Object-Dependent Default
154	Company		Object-Dependent Default
158	Cost Center		Object-Dependent Default
159	Customer		P Pooled Output
194	Product		D Direct Output
229	Profit Center		Object-Dependent Default
892	General Ledger Account Master		Object-Dependent Default

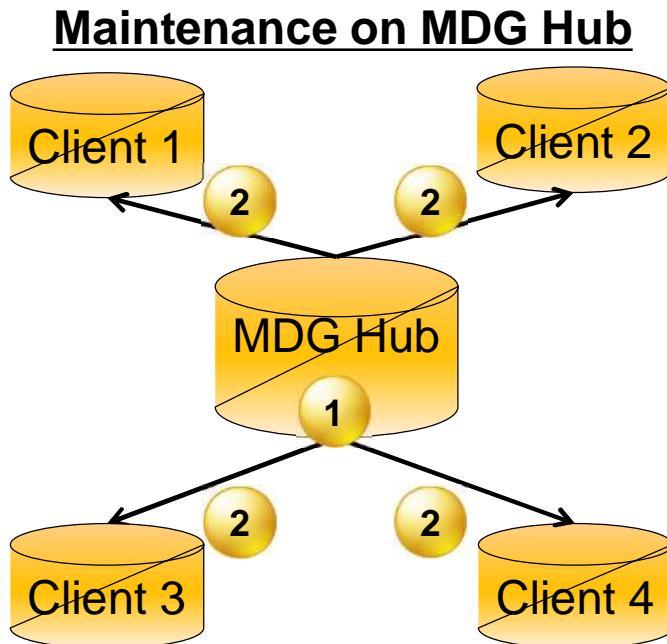


# Function in Detail

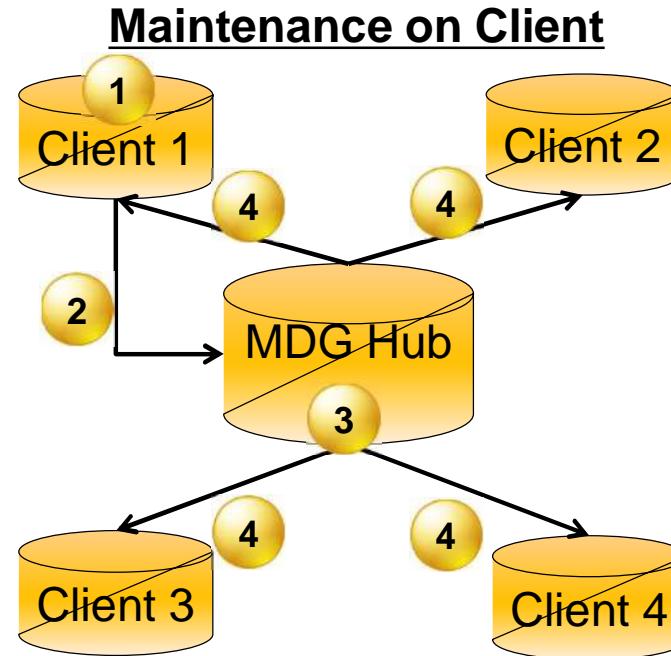
- Processes
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- Data Protection
- MDG for FI Contract Account

# Function in Detail: Client Maintenance

Maintenance on Hub & on Client can be Used in Unison



- 1 Maintain data on MDG Hub
- 2 Replicate data to client systems



- 1 Maintain data on Client 1
- 2 Replicate data to MDG Hub
- 3 Rework / approve data on MDG Hub
- 4 Replicate data to client systems

# Function in Detail: Client Maintenance

Configure MDG Hub for Client Maintenance via SOA Service

## MDG to generate Change Request / Consolidation Run for inbound SOA Services

- Call IMG for Data Replication Framework (transaction DRFIMG)
- Choose Data Replication à Define Custom Settings for Data Replication à Define Technical Settings à Define Technical Settings for Business Systems
- Select client system and choose *Define Bus. Systems, BOs*
- Select BO Type 147 (Business Partner) and choose *Define Bus. Systems, BOs, Communication Channel*
- Change field *Storage* (Staging Area for Change Request) and *Create / Change Template* (for Consolidation)

Change View "Define Bus. Systems, BOs, Communication Channel": Overview

The screenshot shows the SAP Fiori Change View for defining business systems, business objects, and communication channels. In the top navigation bar, there are icons for New Entries, Save, and others. On the left, a tree view shows 'Dialog Structure' with 'Define Business Systems' expanded, showing 'Define Bus. Systems, BOs' and 'Define Bus. Systems, BO'. The main area has three tabs: 'Business System' (selected), 'Bus. Obj. Type' (set to 147), and 'Description' (set to Business Partner). Below these tabs is a table titled 'Define Bus. Systems, BOs, Communication Channel'. The table has columns for 'C. Channel', 'Storage', 'Cr Temple', and 'Ch Temple'. The 'Storage' column is highlighted with a red border. Under 'Storage', the dropdown menu shows 'Replication via Services', 'Staging Area' (selected), and 'SAP: Consolidate Business Partner Data'. The 'Ch Temple' column also has a dropdown menu with 'Do not use consolidation' selected.

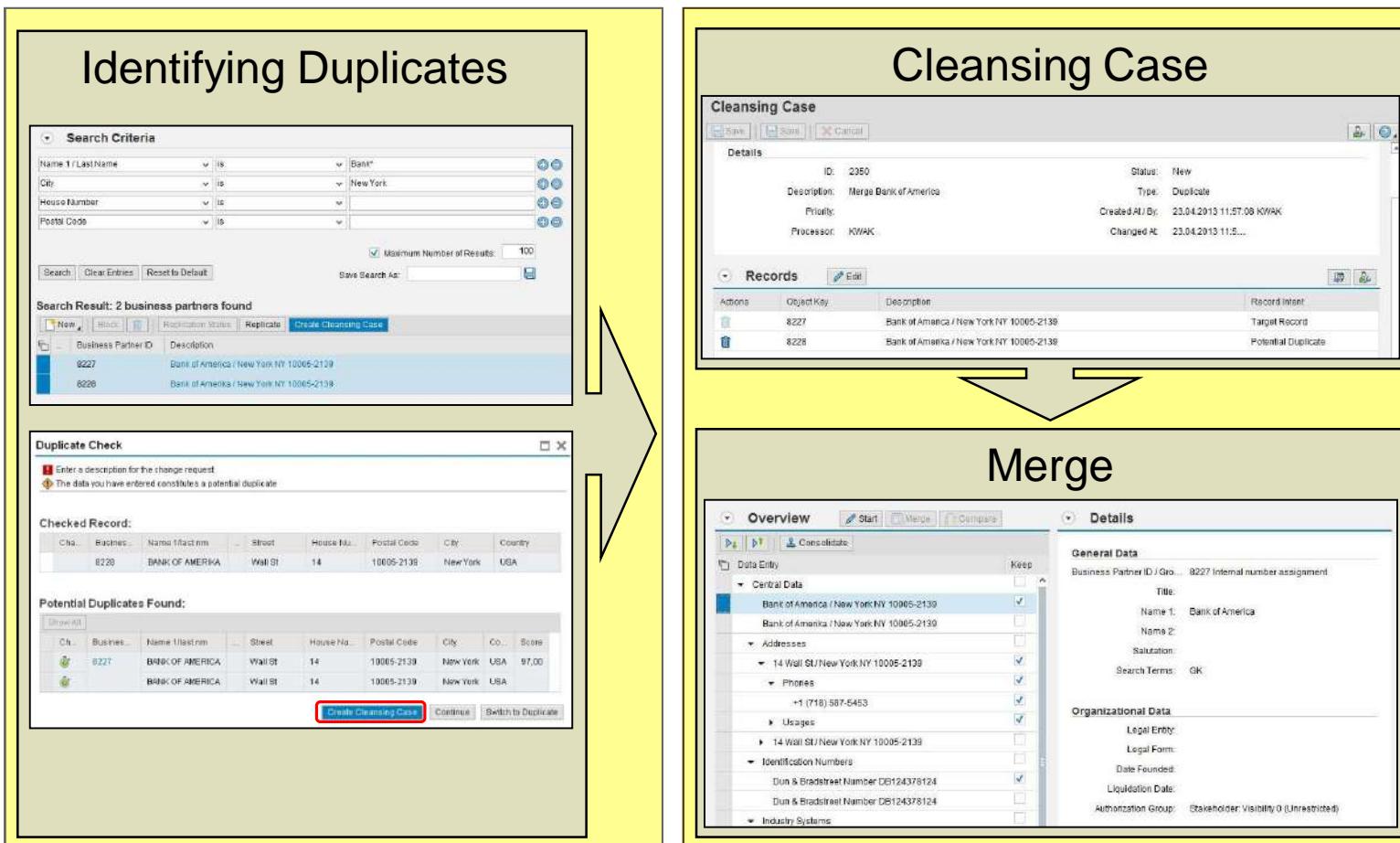
## Assign relevant Change Request Type to Business Activities BPPI / BPPU

# Function in Detail

- Processes
- User Interface
- Business Partner Data
- Data Quality
- Data Replication
- Client Maintenance
- **Cleansing**
- Processing of Multiple Objects
- Hierarchies
- MDG Framework Capabilities and Process Analytics
- Data Protection
- MDG for FI Contract Account

# Function in Detail: Cleansing

## Overview



# Function in Detail: Cleansing

## Identifying Duplicates

Before creating a cleansing case and merging the data, potential duplicates have to be identified.

Within MDG duplicates can be identified during:

- Y Search (within Search Result list)
- Y Single object maintenance (duplicate check)

Outside MDG

- Y Hand over cleansing case from client system to MDG Hub
- Y Full database scan (using external tools)
- Y Identified potential duplicates will be stored within a cleansing case for further processing

Search Criteria

Name 1 / Last Name	is	Bank*
City	is	New York
House Number	is	
Postal Code	is	

Search Result: 2 business partners found

Business Partner ID	Description
8227	Bank of America / New York NY 10005-2139
8228	Bank of America / New York NY 10005-2139

Create Cleansing Case

Duplicate Check

Enter a description for the change request  
The data you have entered constitutes a potential duplicate

Checked Record:

Ch...	Business...	Name Mastnm...	Street...	House Nu...	Postal Code...	City...	Country...
	8228	BANK OF AMERIKA	Wall St	14	10005-2139	New York	USA

Potential Duplicates Found:

Show All	Ch...	Business...	Name Mastnm...	Street...	House Nu...	Postal Code...	City...	Co...	Score
	8227	BANK OF AMERICA	Wall St	14	10005-2139	New York	USA	97,00	
	8228	BANK OF AMERICA	Wall St	14	10005-2139	New York	USA	97,00	

Create Cleansing Case Continue Switch to Duplicate

# Function in Detail: Cleansing

## Cleansing Case

Process steps:

- § Create a new cleansing case, search and assign potential duplicates
- § Search cleansing case (can also be used as worklist)
- § Check details of potential duplicate records
- § Identify one “Target Record”
- § Identify one or more “Potential Duplicates“ as well as “No Duplicates”
- § Start Cleansing and create a Change Request

The top screenshot shows the "Search Cleansing Cases" screen. It includes a "Search Criteria" section with fields for Number, Note, Processor, and Status, all set to "IS". There are buttons for "Merge" and "Merge All". A checkbox for "Maximum Number of Results" is checked with a value of 100. Below this is a "Result List" table with columns: Cleansing Case, Status, Type, Application, Notes, Source, Processor, and Created By. One row is shown: ID 2350, Status New, Type Duplicate, Application BUPA, Notes Merge Bank of America, Source KWAK, Processor KWAK, and Created By KWAK.

The bottom screenshot shows the "Cleansing Case" detail view for record ID 2350. The "Details" section shows the record is a "Duplicate" of "Merge Bank of America" created by KWAK on 23.04.2013. The "Records" section lists two objects: 8227 (Bank of America / New York NY 10005-2139) and 8228 (Bank of America / New York NY 10005-2130). The "Record Intent" column indicates 8227 is a "Target Record" and 8228 is a "Potential Duplicate".

# Function in Detail: Cleansing

## Merge

During the merge process, all relevant data from “Potential Duplicate” records can be taken over to the “Target Record”.

This can be done using the keep flag as well as using drag-and-drop.

Here it is possible to copy the data including all dependent data (e.g. address including its communication data).

In parallel, it is also possible to edit data of the “Target Record” directly.

As a result of the merge process, a workflow process will be triggered.

The screenshot shows the SAP Fiori 'Cleansing Case' application. The main title bar says 'Cleansing Case'. Below it, there's a toolbar with 'Save', 'Submit', 'Cancel', and other buttons. The main area is divided into two sections: 'Overview' on the left and 'Details' on the right. The 'Overview' section contains a tree view of data entries under 'Central Data' (Bank of America), 'Addresses' (14 Wall St / New York NY 10005-2139), 'Phones' (+1 (718) 587-5453), 'Usages' (14 Wall St / New York NY 10005-2139), 'Identification Numbers', 'Industry Systems', 'Rules' (Customer (FLCU01)), and 'Assignments' (ERP Customer (Standard)). Each item has a 'Keep' checkbox next to it. The 'Assignments' section is currently selected. The 'Details' section on the right contains various tabs like 'Multiple Assignment', 'Administrative Data', 'Account Control', 'Tax Information', 'Payment Transactions', 'Marketing Classification', 'Export Data Classification', and 'Attributes'. Most fields in the details section are populated with data from the selected assignment.

# Function in Detail

- Processes
- User Interface
- Business Partner Data
- Data Quality
- Data Replication
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- **Processing of Multiple Objects**
- Hierarchies
- MDG Framework Capabilities and Process Analytics
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# Function in Detail: Processing of Multiple Objects

## When to Use What

### Multi-Record Processing

- § Well-defined governance process with multiple workflow steps for a limited number of Business Partners
- § Typically a collaboration of multiple processors
- § Governance processes exist for single and multiple objects
- § Examples
  - Account manager wants to compare and harmonize sales data for all Customers belonging to the account
  - Strategic buyer wants to update purchasing conditions of all relevant Suppliers based on newly signed contract

### Mass Processing

- § Interactive master data change process for huge number of Business Partners
- § Typically ad hoc / on-request / project-based processing by one data specialist
- § Examples
  - Change dunning parameters for all C-Customers of a country based on the newly defined process
  - After reorganization in purchasing, Suppliers are assigned to newly responsible purchasing groups

# Function in Detail: Processing of Multiple Objects

## Multi-Record Processing: Accessing

Process to change multiple Business Partners within a spreadsheet-like UI

Start from Search Result list

- § Select multiple Business Partners
- § Choose *Multi-Processing* button

Pre-defined Change Request types

- § Multi-Processing for Customer Sales
- § Multi-Processing for Customer Financials
- § Multi-Processing for Vendor Purchasing
- § Multi-Processing for Vendor Financials

The screenshot shows the SAP Fiori search interface for business partners. At the top, there is a search bar labeled "Search Customer" with a dropdown menu set to "Address Data". Below the search bar are sections for "Saved Searches" and "Search Criteria". The "Search Criteria" section contains four fields: "Business Partner ID" (is), "Name 1 / Last Name" (is), "City" (is), and "Street" (is). To the right of these fields are several icons for filtering and searching. Below the search criteria is a checkbox for "Maximum Number of Results" set to 100, and buttons for "Search", "Clear Entries", and "Reset to Default". On the right side of the search bar, there is a "Save Search As:" field with a save icon. Underneath the search bar is a "Result List" titled "Result List: 8 business partners found". The result list displays eight entries, each with a blue square icon, a "P..." column, a "Bus..." column, a "Description" column, a "Category" column, and a "Rank" column. The first entry is 115952 CKC AG / 10117 Berlin, Category 100,00. The last entry is CKCO CKC AG / 60599 Frankfurt, Category 100,00. At the top of the result list, there is a toolbar with buttons for "New", "Block", "Replication Status", "Replicate", "Create Cleansing Case", "Copy", and "Multi-Processing". The "Multi-Processing" button is highlighted with a red box.

P...	Bus...	Description	Category	Rank
	115952	CKC AG / 10117 Berlin	100,00	
	115973	CKC Tanzania / 11111 Dar es Salaam	100,00	
	115974	CKC Bangalore / 560071 Bangalore	100,00	
	115975	CKC Beijing / 111111 11111 BEIJING Beijing	100,00	
	116057	CKC Freiburg / 77777 Freiburg	100,00	
	125294	CKC Testhausen / 10117 Berlin	100,00	
	231684	CKC Östringen / 76684 Östringen	100,00	
	CKCO	CKC AG / 60599 Frankfurt	100,00	

# Function in Detail: Processing of Multiple Objects

## Multi-Record Processing: Functionality

### Functions for rows

§ Add new rows

§ Copy rows

§ Delete rows

### Functions for field values

§ Edit single fields

§ Find and Replace

§ Select rows with same value

§ Copy value to selected rows

### Visualize / handle changes

§ Highlight changes

§ Discard changes

The screenshot shows the SAP Fiori Multi-Processing interface for Customer Financials. It displays two tables side-by-side:

**ERP Customers**

Changes	Business Partner	Customer	Account Group	Customer Classification	Nielsen Indicator	Employees	Employees Given...	Authorization Group	T.. T..
115952	108916	Customer (general)	01	01		400	2014		
115952	108919	Customer (general)	01	01					
CKCO	CKCO	Customer (ext.number assignment)							
CKCO	100171	Customer (general)		02					

**ERP Customer Company Codes**

Changes	Business Partner	Customer	Company Code	Reconciliation Account	Accounting Clerk	Payment Block	Payment methods	Terms of Payment	Tolerance Group
115952	108916	0001	140000	HM		AEL		0002	DEB2
115952	108916	1000	140000	MM		AEL		0001	
115952	108919	0001	140000	EM		AEL			
CKCO	CKCO	0001	140000						

# Function in Detail: Processing of Multiple Objects

## Multi-Record Processing: Switch on / off Highlight Changes

The *Highlight Changes* button (delivered in some template UI configurations) allows the user to toggle the highlight changes function in Multi-Record Processing.

At startup, the highlighting of changes is always switched off.

This may enhance UI performance in certain cases.

Multi-Processing for Customer Financials									
<input type="checkbox"/> Change Request									
<input type="checkbox"/> Business Partners									
Changes	Business Partner	Category	Description	Search Term 1	Search Term 2				
1401			OKC International / 10557 Berlin						
1806			OKC Frankfurt / 60313 Frankfurt	OKC					
CKCO			OKC Germany / 10117 Berlin	CKCNEW					
ERP Customers									
Changes	Business Partner	Customer	Account Group	Customer Classifi...	Nielsen Indicator	Authorization Group	Trading Partner	Trading Partner D...	
1805	630	Customer (general)		01	TST				
CKCO	CKCO	Customer (ext.numb...		02	TEST				
CKCO	526	Customer (general)		01	TST				
ERP Customer Company Codes									
Changes	Business Par...	Customer	Company Code	Accounting...	Clerk's Tel...	Clerk's Inte...	Reconciliat...	Payment B...	Payment...
No data available									

For more information, see SAP Note [2547067 - MR Processing: Switch "Highlight Changes"](#) and How-To Guide [Create User Interface for Multiple-Record Processing](#).

# SAP Master Data Governance, Mass Processing

## Process Flow

See separate slide deck  
[Mass Processing with SAP  
Master Data Governance](#)



Describe the scope of your change by choosing the fields that you want to change.

Enter search criteria to select the master data objects that you want to change.

The system copies the data to a staging area for processing.

Edit the data using a tabular UI by changing single or multiple fields at a time.

Verify your changes based on statistical information provided by the system.

The system checks the validity of the data in the background. Verify the validation results and correct the data if necessary.

The activation releases your changes from the staging area, so that the updated data is used in business processes.

Process ID: 4KZ1  
Change Payment Terms  
Process Template: SAP-Change Business Partner Data  
Enter Go-to Mass Processing  
Step Configuration (Scope)  
Fields In Scope: Terms of payment key (N/BS1-ZTERM)

Process ID: 4KZ1  
Change Payment Terms  
Process Template: SAP-Change Business Partner Data  
Enter Go-to Mass Processing  
Step Configuration (Scope)  
Fields In Scope: Terms of payment key (N/BS1-ZTERM)

Process ID: 4KZ1  
Change Payment Terms  
Process Template: SAP-Change Business Partner Data  
Enter Go-to Mass Processing  
Step Configuration (Scope)  
Fields In Scope: Terms of payment key (N/BS1-ZTERM)

# Mass Processing

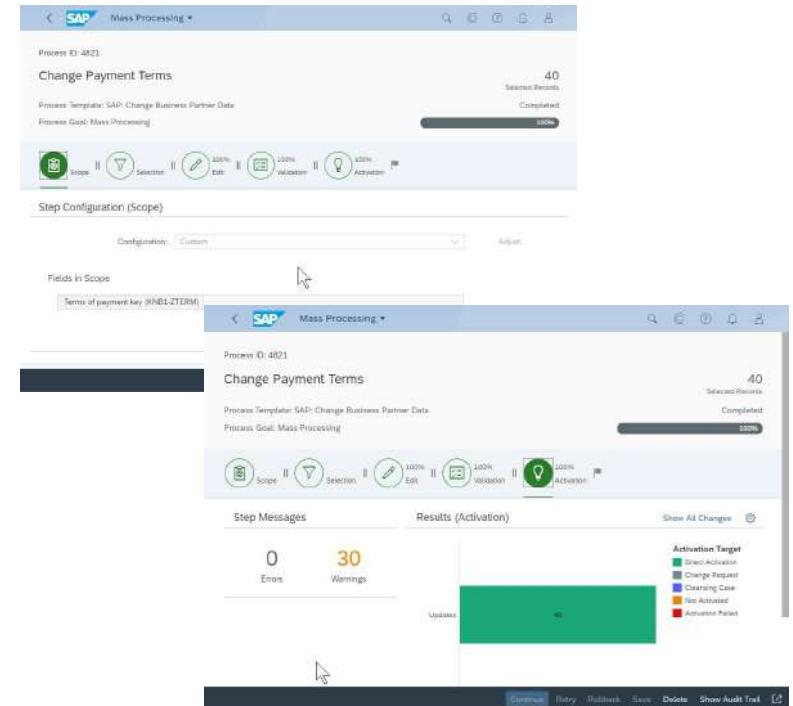
Effective process to execute mass changes for attributes

In a nutshell...

**Highly effective mass change process enabling master data stewards to perform bulk changes in business partner, customer, supplier, and product data.**

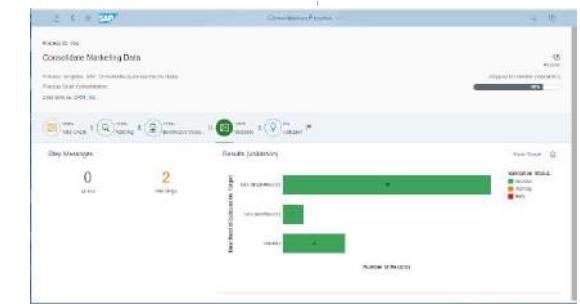
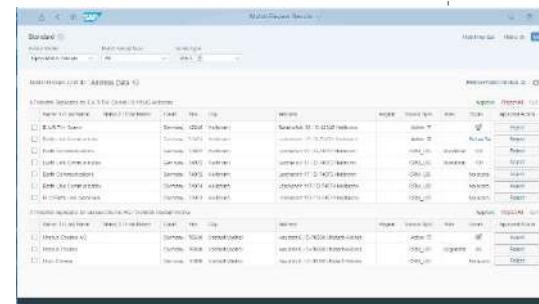
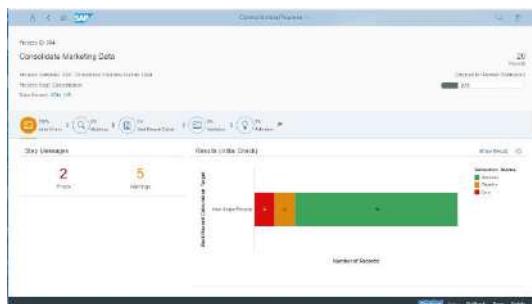
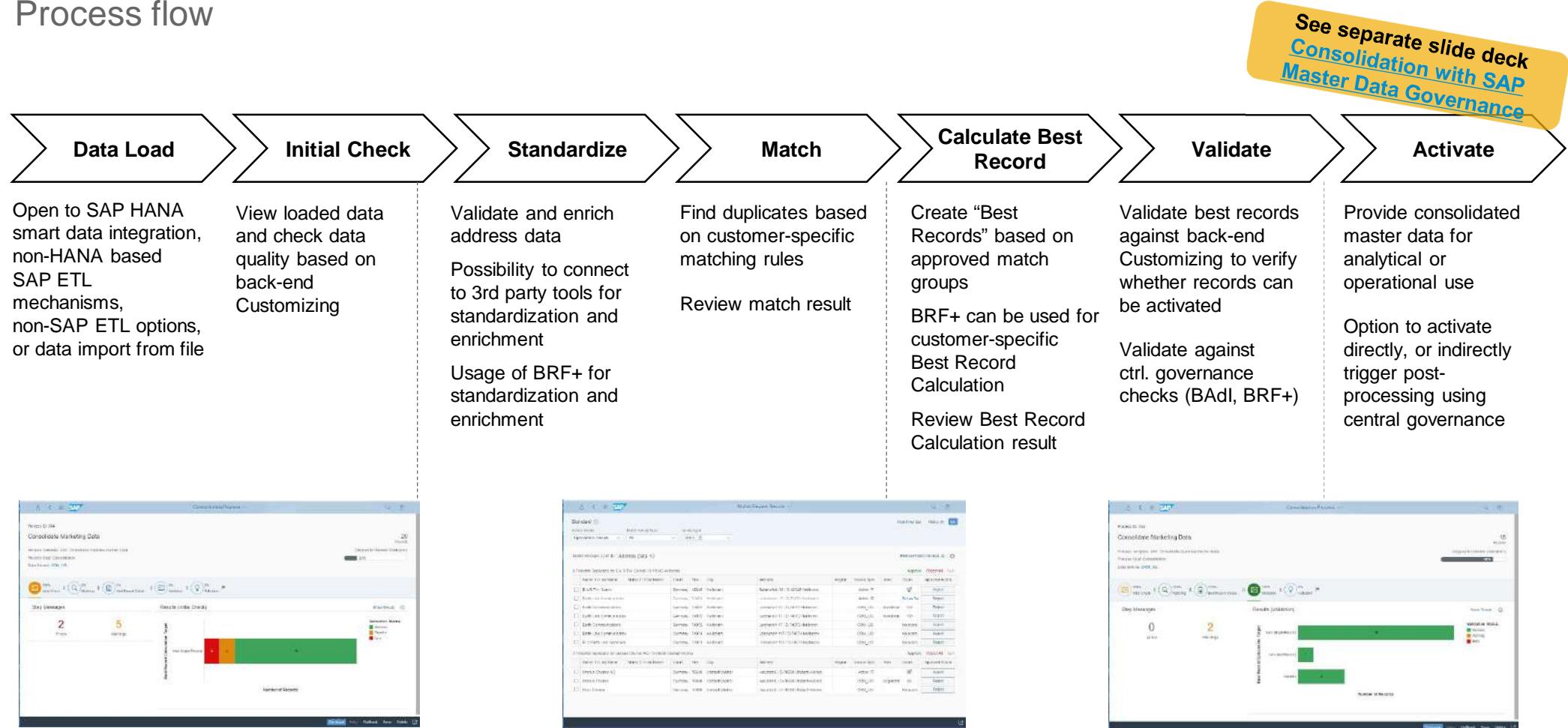
## Business value

- Highly effective data processing option for master data specialists
- Efficiently edit individual fields or make bulk changes by using a tabular UI with the ability to filter and sort data
- Confidence and transparency when changing large volumes of data through statistics, change indicators and ability to validate prior to activating changes
- Packaging, queuing, and parallelization contribute to enhanced performance even when processing large volumes of data
- Upload changed records from CSV or Microsoft Excel<sup>©</sup> file to incorporate offline processing and other information sources
- Background execution enables users to close the application while processing continues. Users can check the status or proceed with their work later.



# SAP Master Data Governance, Consolidation

## Process flow



# Master Data Consolidation

Create a single source of truth of your customer, supplier, and product data

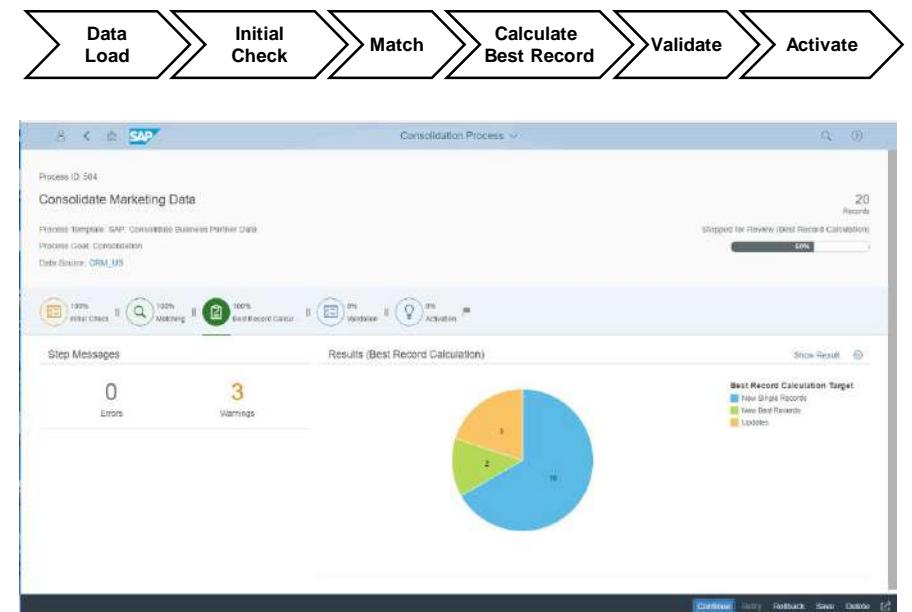
In a nutshell ...

**Highly effective data consolidation option for master data specialists seeking a single source of truth for customer, supplier, and product data.**

## Business value

Enable consolidation for customer, supplier, and product data based on intuitive and flexible process with consumer-grade user experience through SAP Fiori user interface

- Highly effective data processing option for master data specialists
- Easy-to-use UI to visualize all data during a consolidation process (drill-down, show changes, match review, best record review)
- Confidence and transparency when loading large volumes of data through statistics, change indicators and ability to validate prior to activating the data
- Configurable matching capability to identify duplicates inside loaded records and against existing records
- Wizard-like UI to upload source data into the system
- Background execution enables users to close the application while processing continues. Users can check the status or proceed with their work later. Integration with MDG, central governance possible

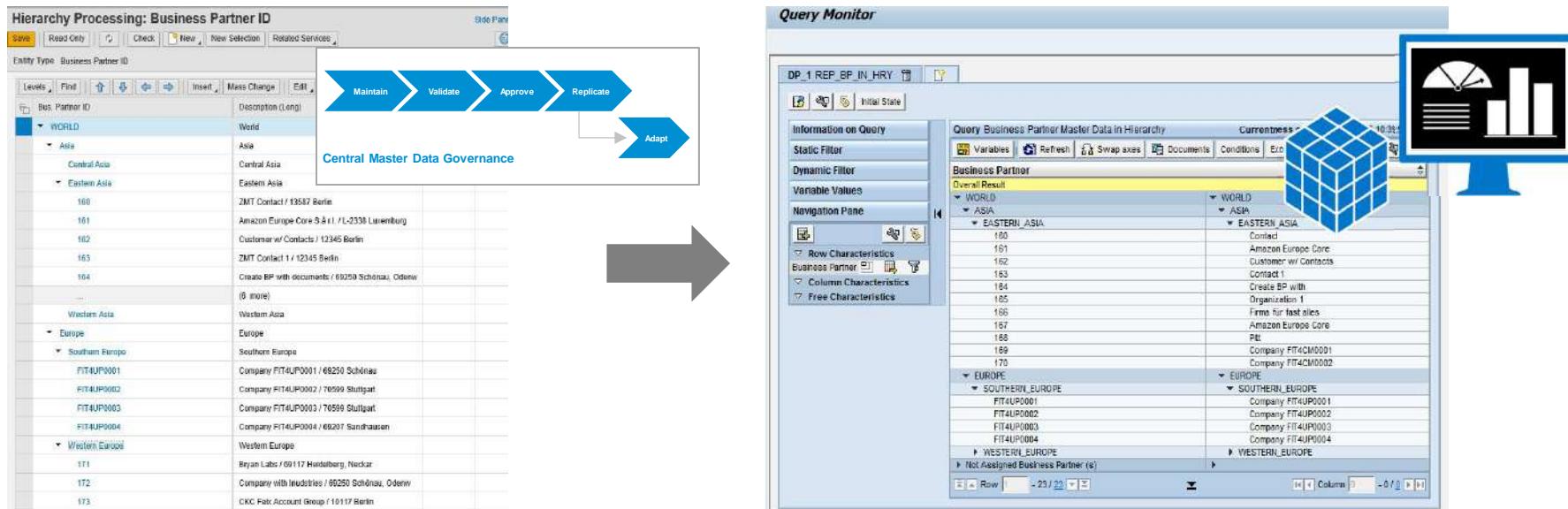


# Function in Detail

- Processes
- User Interface
- Business Partner Data
- Data Quality
- Data Replication
- Client Maintenance
- Cleansing
- Processing of Multiple Objects
- **Hierarchies**
- MDG Framework Capabilities and Process Analytics
- Data Protection
- MDG for FI Contract Account

# Function in Detail: Hierarchies

MDG provides analytical hierarchies only. Data can be extracted toward BI. There is no connection to operational hierarchies, neither the ERP-Customer Hierarchy nor the BP Hierarchy.



## Function in Detail: Hierarchies

Assign BP to hierarchy from Single-object maintenance UI

You can now assign Business Partners to hierarchies during Single-Object Processing (Creation or Change process).

The UI also offers a value help for easy identification of the relevant parent node.

The screenshot shows the SAP Fiori Hierarchy Assignments UI. On the left, there is a table with columns: Actions, Hierarchy, Description, Parent Type, Parent Node, Description, Previous Type, and Previous Node. A single row is visible with the following data:

Actions	Hierarchy	Description	Parent Type	Parent Node	Description	Previous Type	Previous Node
	CKC	CKC	Lower-Level Hierarchy	CKC Germany	CKC Germany	Business Partner	144

A yellow arrow points from the 'Hierarchy' column of the table to a 'Display Hierarchy Assignment' value help dialog on the right. The dialog lists business partners and their descriptions, with 'CKC' selected. The table has a footer with 'OK' and 'Cancel' buttons.

Display Hierarchy Assignment

Business Partner	Description
CKC	CKC
CKC EMEA	CKC Europe & Middle East
CKC Germany	CKC Germany
...	(more available)
115952	CKC AG / 10117 Berlin
144	Gartenfreunde EV / 68000 Ladenburg
CKCO	CKC Deutschland AG / 10117 Berlin

OK Cancel

# Function in Detail

- Processes
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# Function in Detail: MDG Framework Capabilities

## Common Services of MDG

Common services of change request processing:

- Mass change
- Support of parallel Change Request
- Additional Steps After Activation, Follow-Up Change Request and Recall Change Request
- Enrichment Spot
- Governance Scope
- Import Master Data
- Key Mapping and Value Mapping
- Process Reporting
- Process Overview and Change Request Analysis for Business Partner
- Archiving

# Function in Detail: MDG Framework Capabilities

## Mass Change

- Optionally, create a change request and submit it (typically w/o materials assigned yet)
- Now start the mass change and select your relevant materials by choosing *Define Selection* (Step 1) and *Refine Selection* (Step 2)
- Step 3: Replace one or more fields with one dedicated value
- Step 4: You can review the results and execute the change. If not yet done, you now need to assign an open mass change request that is assigned to you, or you can create a new change request

The screenshot shows the SAP MDG Framework Mass Change Business Partner ID process. It consists of four sequential steps:

- Step 1: Define Selection
- Step 2: Refine Selection
- Step 3: Define Values (highlighted in blue)
- Step 4: Check and Execute

In the Define Values step, various selection criteria are defined:

- Business Partner ID: 0001
- Date of Birth: Z001
- Birthplace: To
- BP Type: 0001
- Search term 1: Z001
- Search term 2: To
- Country of Origin: To

A modal dialog titled "Select or Create Change Request" is displayed at the bottom, containing a dropdown menu for selecting a change request.

# Function in Detail: MDG Framework Capabilities

Multiple Change Requests per Customer / Supplier at the Same Time

## Creation of customer / supplier with initial Change Request

- § One Change Request for create customer / supplier

## Parallel Change Requests for subsequent individual processing

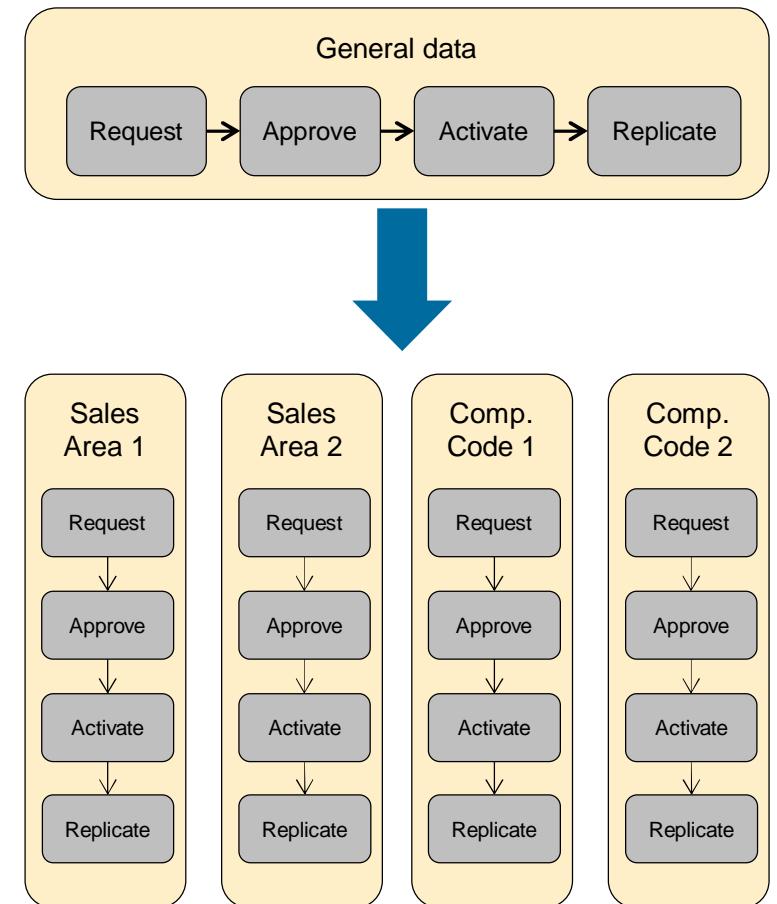
- § Parallel Change Requests for extending customer per Sales Area and / or per Company Code
- § Parallel Change Request for extending supplier per Purchasing Organization and / or per Company Code

## Activation for general data and per organizational unit directly after approval

- § Workflow creation for each selected organizational unit, activation after approval

## Lock on entity level (interlocking)

- § Instead of lock on object level only
- § Change request type determines the maintainable fields



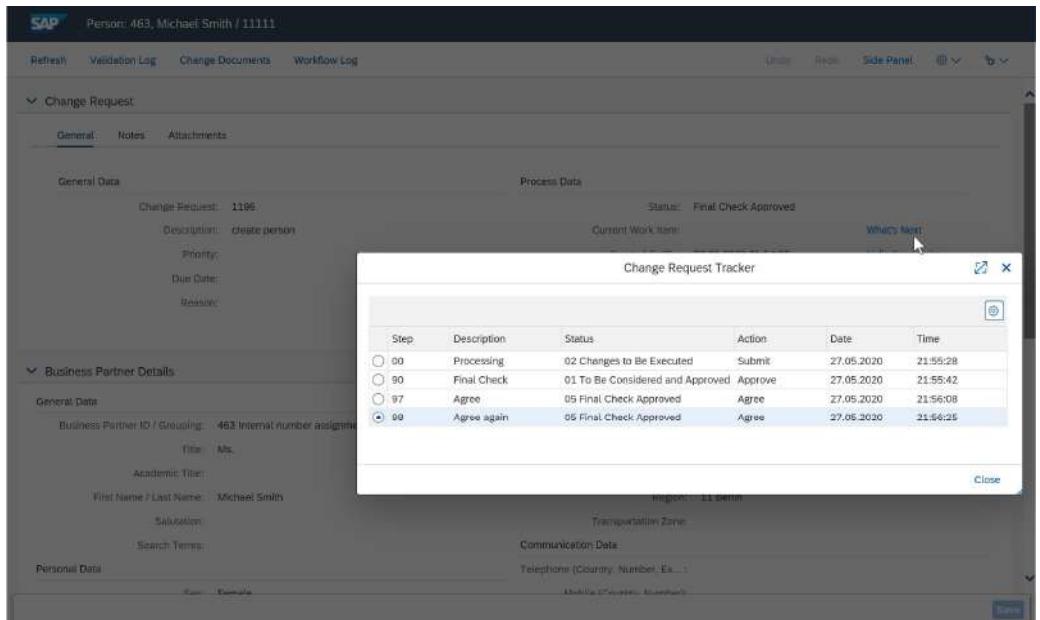
# Function in Detail: MDG Framework Capabilities

## Additional Steps After Activation

As a master data steward, I want to trigger additional workflow steps after the activation. This may include additional steps related to the object of the change request itself, and could also result in a follow-up change request as well (see IR 213267).

Solution: A user can now define additional steps after the activation step, if necessary. In other words, the workflow no longer has to end after a change request has been activated successfully.

Instead, after a change request has been activated, further actions can be performed to trigger additional dialog workflow steps. A workflow item for these additional steps can then be found in the workflow inbox of the user who has been assigned accordingly.



Step	Description	Status	Action	Date	Time
00	Processing	02 Changes to Be Executed	Submit	27.05.2020	21:55:28
90	Final Check	01 To Be Considered and Approved	Approve	27.05.2020	21:55:42
97	Agree	05 Final Check Approved	Agree	27.05.2020	21:56:08
99	Agree again	06 Final Check Approved	Agree	27.05.2020	21:56:25

Note that this new feature is included in the single maintenance UI, however it is not available if you are using a CR for multiple objects involving the MASS, LOAD or HIERARCHY business activities, as these use a generic UI instead (USMD\_CREQUEST\_PROCESS).

# Function in Detail: MDG Framework Capabilities

## Follow-Up Change Request

As a master data steward, I want to define additional follow-up processes for object changes which are not part of the original change request (for technical or organizational reasons). Those follow-up change requests should be triggered automatically with reference to the existing change request.

As a master data steward, I want to be able to find the related change requests and to have transparency about the related master data changes.

Solution: Master data stewards can define additional follow-up processes that are not part of the original change request due to technical or organizational reasons using the existing [How-To Guide](#). New links on the Change Request UI and in the My Change Requests screen allow them to call up previous change requests and follow-up change requests directly.

# Function in Detail: MDG Framework Capabilities

## Recall Change Request

- As a requestor, I want to have the ability to recall the request after it has been routed for approval and before the request has been approved.
- The change request should be routed back to me, as I may realize that additional changes are required and might need to recall it to add the data.
- An additional action 'Recall by Requester' is delivered and can be used to setup corresponding change request step and workflow.

SAP Organization: \$12834, British Bakery GmbH / 69155 Heidelberg

Refresh Check Change Documents Workflow Log Undo Redo Side Panel

Change Request

General Notes Attachments

General Data

Change Request: 38407  
Description: New subsidiary in Heidelberg  
Priority:  
Due Date:  
Reason:

Process Data

Status: Changes to Be Executed  
Current Work Item: Process Change Request 38407 (New... What's Next)  
Created On/By: 27.05.2021 07:36:03 Denise Smith  
Changed On/By: 27.05.2021 08:03:53 Michael Moore  
Type of Change Request: ZCU1P1RE Create Customer (Simple WF) With Recall  
Step Type: Activate Change Request with Recall Option

Customer Details

General Data

Business Partner ID / Grouping: Internal Number Assignment  
Title:  
Name 1: British Bakery GmbH  
Name 2:  
Salutation:  
Search Terms: BB BAKERY

Address

Street: **Recall by Requestor** (highlighted with a blue box and a hand cursor icon)

Postal Code / City: 69155 Heidelberg  
Country/Region: DE Germany  
Region: 08 Baden-Württemberg  
Language: DE German  
Transportation Zone:

Save Recall by Requestor

# Function in Detail: MDG Framework Capabilities

## Framework for Data Enrichment Spots

### Data Enrichment Spots

- Flexible framework to define enrichment spots
- Used by SAP, for example for Address Validation
- Can be used by customers to define further enhancement spots

Enrichment Spot	Enrichment Feeder Class	Description
ENRICH_ADDRESS	CL_USMD_ADDR_ENRICH_FEEDER	Description Address Enrichment
ZTESTING	ZCL_USMD_DUNS_ENRICH_FEEDER	

# Function in Detail: MDG Framework Capabilities

## Address Enrichment and Name and Organization Cleansing

### Address Enrichment / Name and Organization Cleansing

For Postal Address Validation, SAP delivers the Enrichment Spot 'Address Enrichment'. It uses the [Postal Address Validation](#) of SAP Data Quality Management. The [required setup](#) for DQM must exist.

The Enrichment Spot 'DQM MDG Enrichment Spot' for Name and Organization Cleansing is not delivered, but can easily be [set up](#).

### Activate per CR Step

For each Change Request Type, Address Enrichment or Name and Organization Cleansing can be activated per Change Request Step.

Change View "Enrichment Spot": Overview		
Dialog Structure	Enrichment Spot	Description
Enrichment Adapters	Enrichment Spot	Enrichment Feeder Class
Enrichment Adapter Assignment		
	ENRICH_ADDRESS	CL_USMD_ADDR_ENRICH_FEEDER
		Address Enrichment
Type of Chg. Request: SUPPLIP1		
Chg.Req. Step: 00		
Enhancements and Checks per Change Request Step		
Checks and Enrichment Spots	Sequence	Message Output
#00 Basic Check	0	Standard
#01 Authorization check	0	Standard
#02 Duplicate Check	99	Standard
#03 validation Rules (BRF+)	0	Standard
#04 BAdI validations	0	Standard
#05 Existence Check	0	Standard
#06 Reuse Area Check	0	Standard
#07 Validation Rules (Data Quality)	0	W Issue Error !
ADDRESS_SCREENING Address Screening		Standard
ENRICH_ADDRESS Address Enrichment	1	Standard
ENRICH_BP BP Enrichment	5	Standard
ENRICH_DATA_CLEANSE DQM MDG Enrichment Spot	10	Standard
ENRICH_TAXJUR Tax Jurisdiction Enrichment	15	Standard

# Integration Scenarios: Business Partner Screening (SAP-BPS)

Activate screening per Change Request Step

## Enrichment

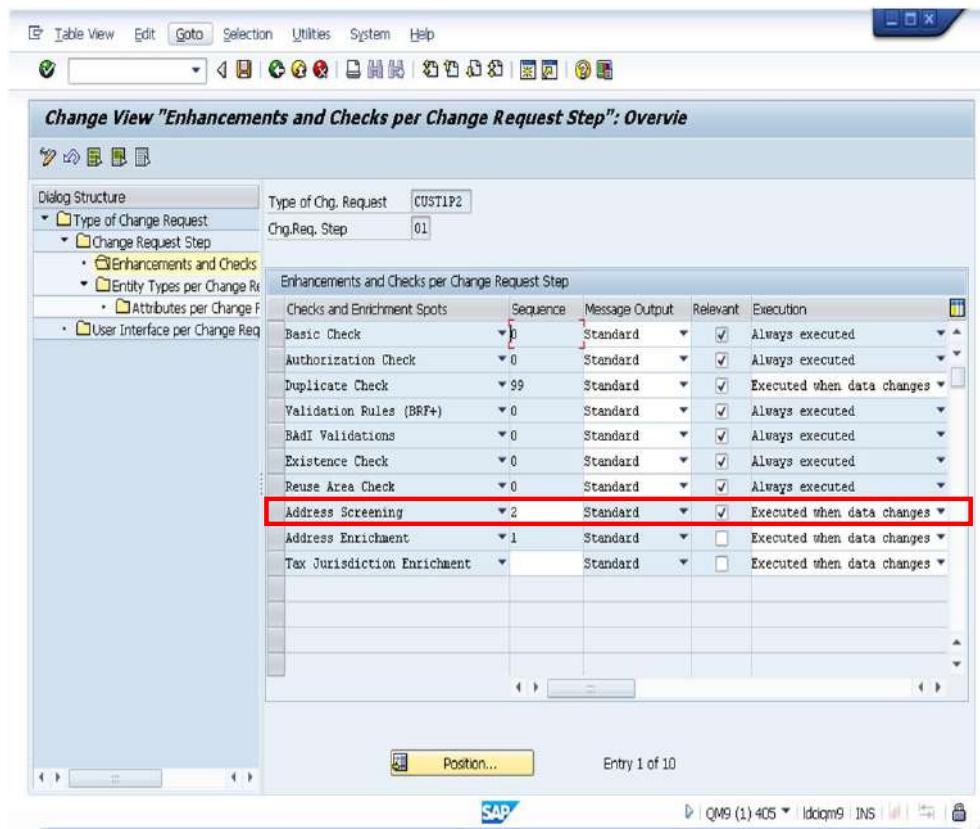
Implemented as Enrichment Spot  
'Address Screening' with  
corresponding adapter in MDG

## Activate per CR Step

For each Change Request  
Type, Screening can be activated  
per Change Request Step

## Deployment Options

BP Screening can run on MDG  
instance (same HANA DB, different  
NW AS) or on different instance

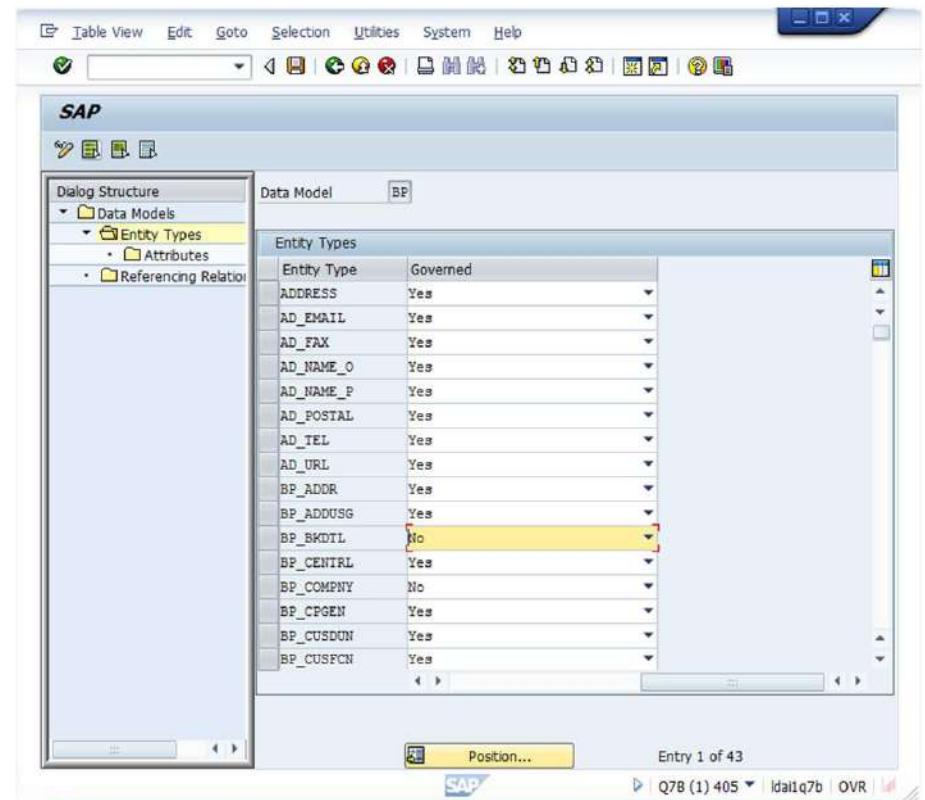


# Function in Detail: MDG Framework Capabilities

## Governance Scope - Deactivate Entity Types / Fields

### Governance Scope

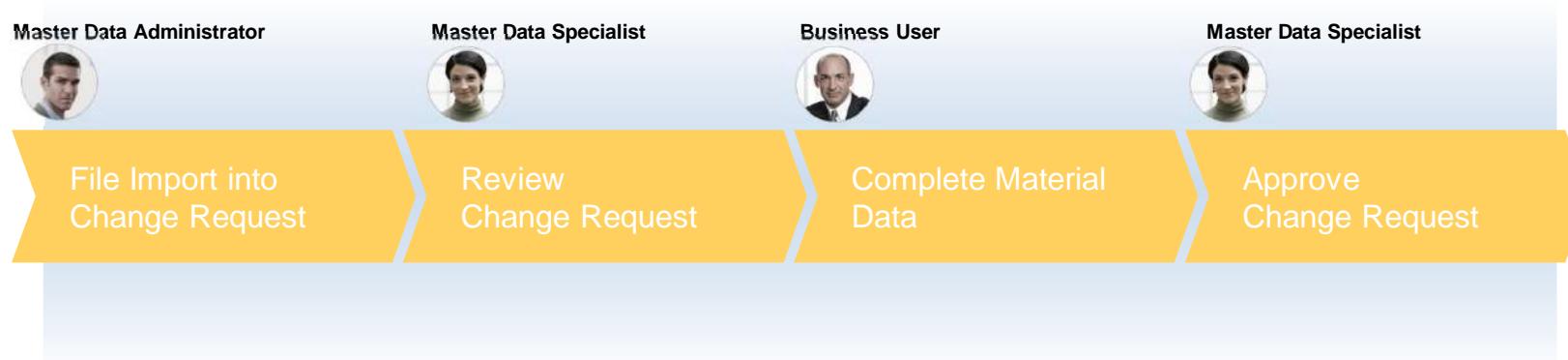
- Only parts of the data model shall be put under governance
- Entity types / attributes can be excluded from governance
- Excluded entity types / attributes:
  - Cannot be changed within a Change Request
  - Are displayed only within the UI; can be suppressed by changing the UI configuration
  - Can still be loaded to active area but not via CR / staging
  - Can easily be re-added to the governance scope afterwards



# Function in Detail: MDG Framework Capabilities

## Import Master Data

Material master data, Key Mapping and Value Mapping can be uploaded to the MDG system from an XML file using the MDG Import Master Data transaction. The imported material master data can be adjusted or modified in a change request. Only when the change request is approved is data written to the SAP S/4HANA material master data (which is the active area). If data quality is good, the data can also be written directly into the active area.



### Customer business challenges

- Yellow triangle icon: No direct upload functionality was available within SAP ERP
- Yellow triangle icon: No governance process existed for the upload of mass data

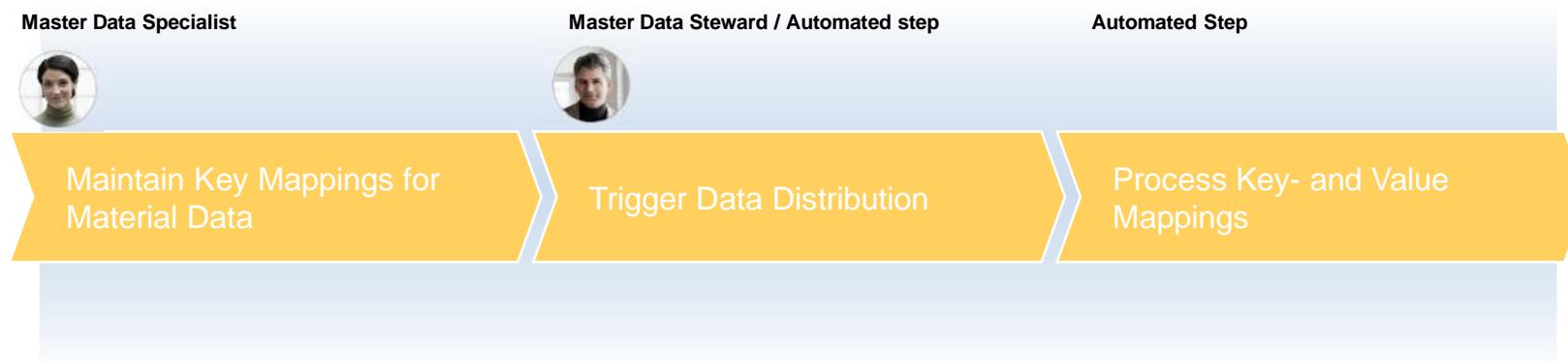
### Business value

- Upload to MDG system (Material, Key Mapping and Value Mapping)
- Built-in upload functionality for MDG increases the speed of updates and streamlines integration between systems
- Governance functionality avoids creation of duplicates and ensures completeness and accuracy of data

# Function in Detail: MDG Framework Capabilities

## Key Mapping and Value Mapping

This feature supports the replication of data into systems with non-harmonized Customizing or with heterogeneous keys. For example, in cases where the same business partner has a different number on the master data governance (MDG) hub than on a client (key mapping), or similar account groups have a different code in hub and clients (value mapping).



### Customer business challenges

Customers built their own solutions to map the values to distribute the data correctly to different systems

### Business value

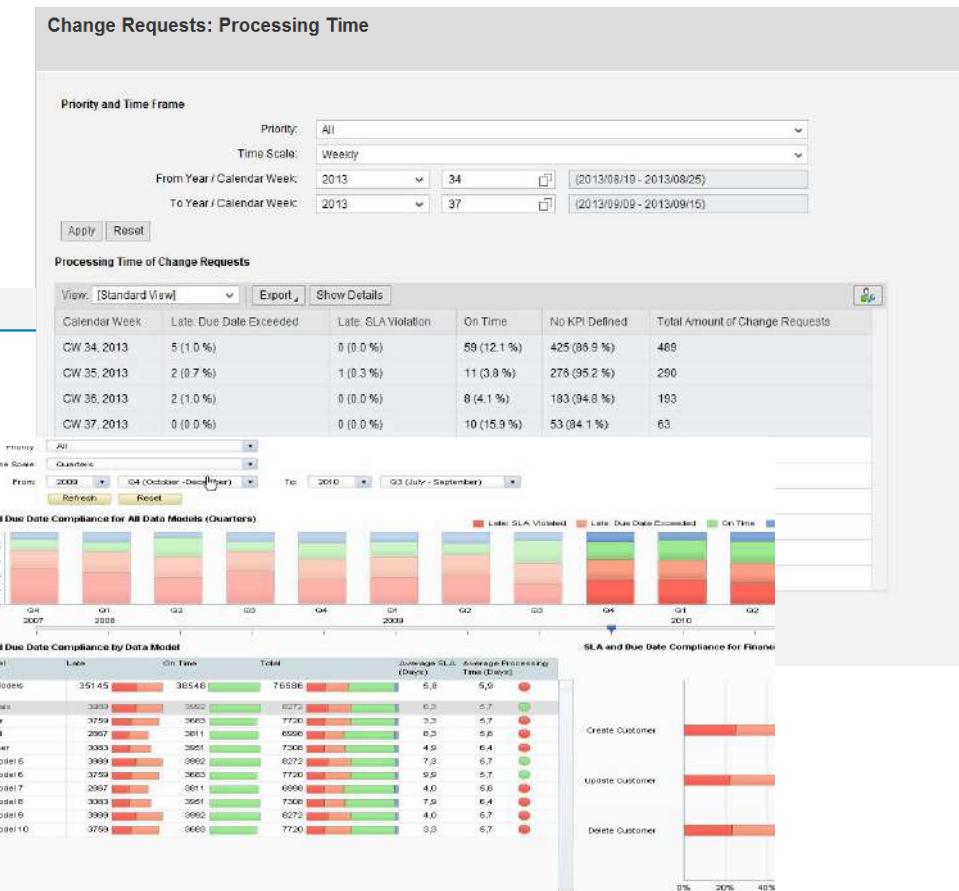
Heterogeneous system landscapes can be supplied using the key mapping and value mapping functionality offered with MDG

# Function in Detail: MDG Framework Capabilities

## Process Reporting

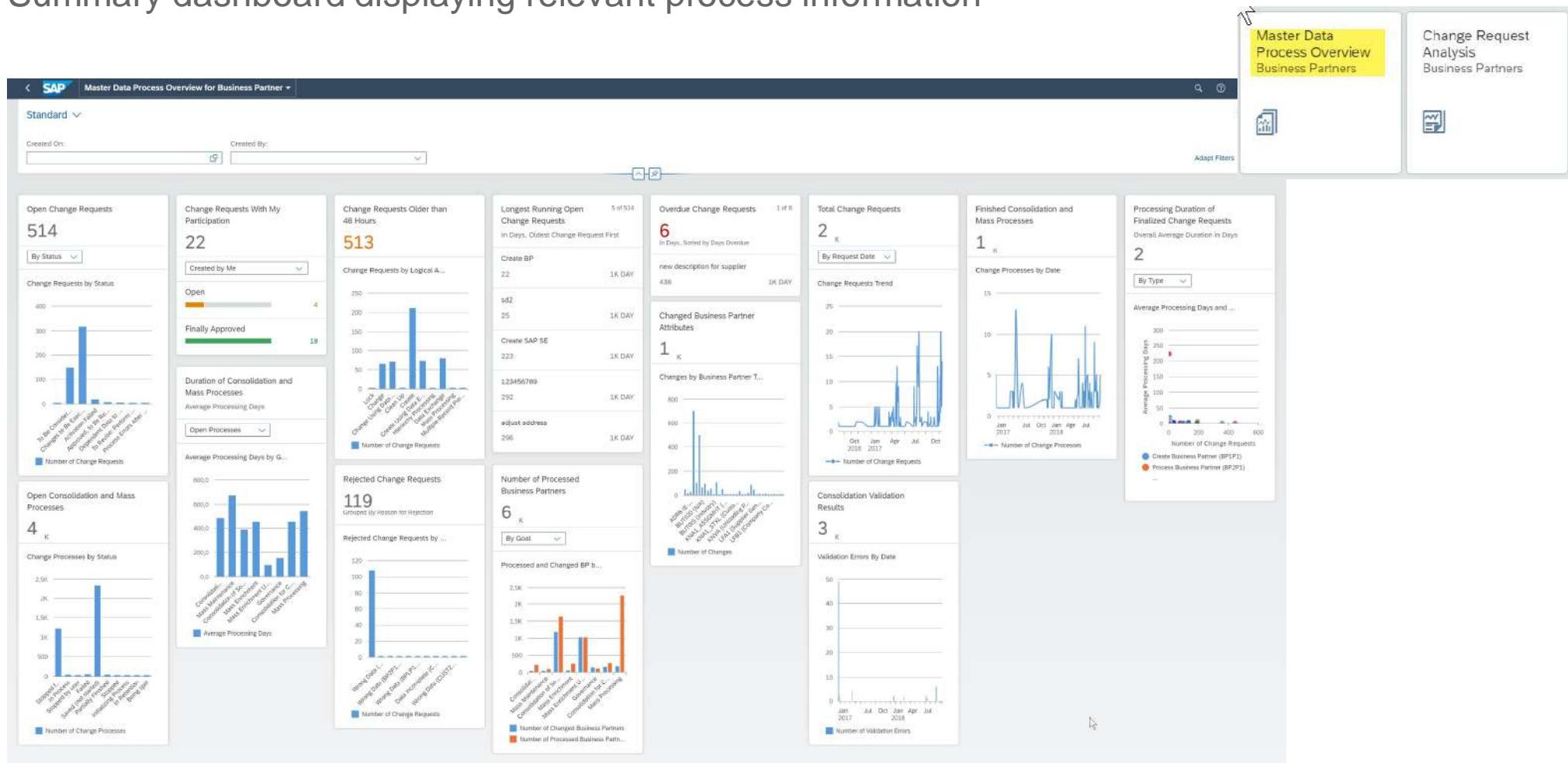
### Change Request Reporting

- § Definition of SLA: Maximum processing time per change request type and priority
- § Reporting on change request duration and SLA compliance



# Function in Detail: Master Data Process Overview for Business Partner

## Summary dashboard displaying relevant process information



# Function in Detail: Master Data Process Overview for Business Partner

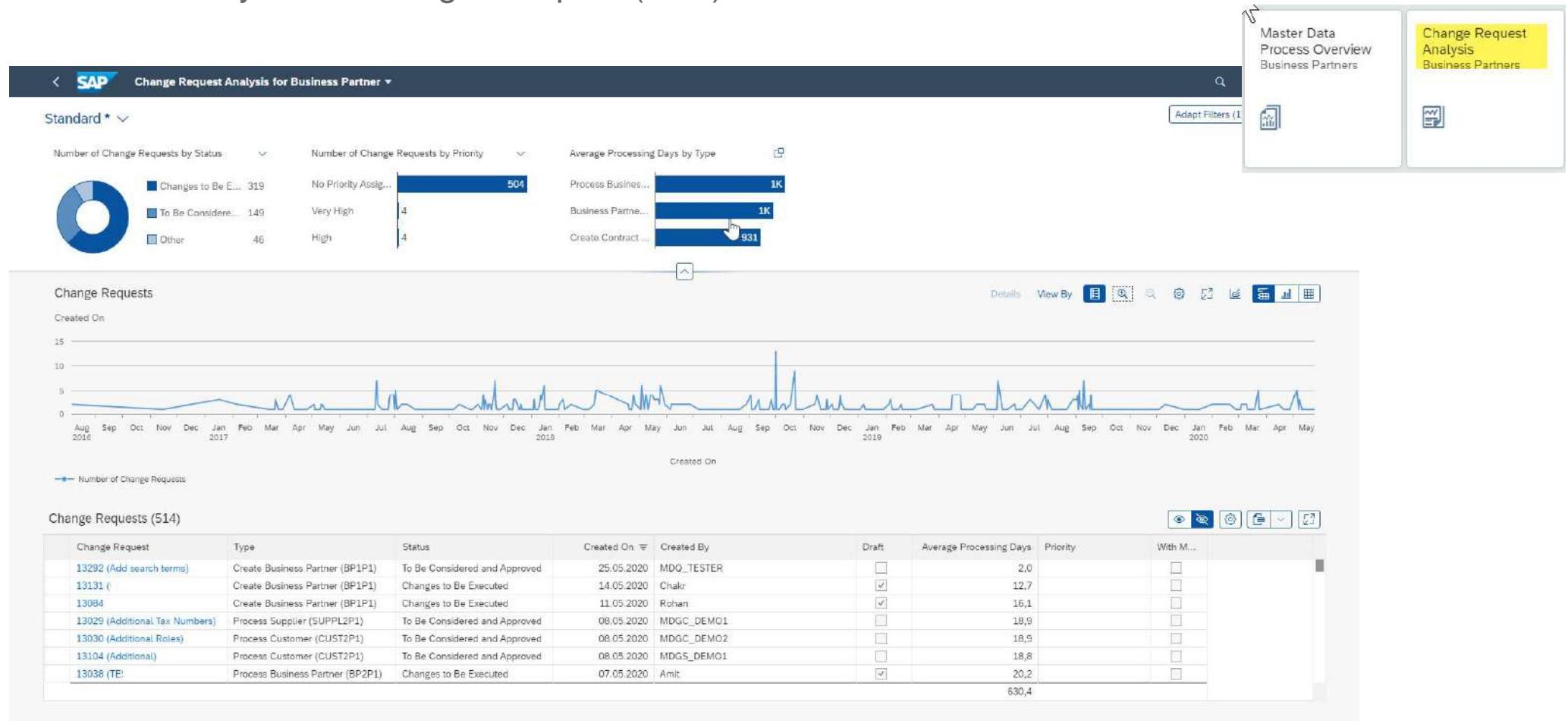
**The cards on an Overview Page provide you with one-stop information on work due and work done for the individual user, as well as a set of processes:**

- Users will be able to hide and unhide cards in the OVP depending on their needs
- Change-Request-related information as a trigger to work on change requests requiring my attention (open CRs, long-running CRs, rejected CRs)
- Average processing times of change requests to improve processing times
- Completed CRs and upcoming workload (i.e. open CRs)
- Consolidation processes and the status of these processes / which require my attention
- Quality of Mass Processing (number of objects per process, no. of changed objects, runtime per process and no. of objects, validation status and threshold)



# Function in Detail: Change Request Analysis for Business Partner

## SAP Fiori Analytical List Page floorplan (ALP)



## Function in Detail: Change Request Analysis for Business Partner

**Change Request Analysis apps offer one-stop information and a highly flexible analysis tool for change request root cause analysis, monitoring process quality issues related to change requests using various drill-down dimensions.**

Change Request Analysis allows you to:

- § Analyse change request processes using different drill-downs on dimensions, such as status, priority, and business object type
- § Use graphical or compact filters for selecting your change requests, time-frame, status ... to analyse the process data
- § Keep track of the average change request processing time
- § Navigate to the selected change request



# Process insight with SAP HANA-based analytics

Check SLA compliance

Available only in ERP 6.0 as of MDG 7.0FP  
See guides here: [Link](#) and [Link](#)

## Feature description

HANA-based analytics allows systematic analysis of SLA compliance/failures in master data governance processing in ERP 6.0

## Business value

- § Visualize and identify process issues in large amounts of information in real time
- § Appropriate remediation activities through systematic analysis of SLA failures
- § Collaboration with the persons in charge for fast correction

Analytics can retrieve the following information associated with change requests

- § Object-based Change Request Analytics
- § Change-document-based Change Request Analytics
- § Workflow-based Change Request Analytics
- § Critical Attribute-Based Change Request Analytics



# Function in Detail: MDG Framework Capabilities

## Archiving

- The general recommendation is to archive change requests. Archiving removes the change requests from the database and moves them to an external storage. This will reduce the size of the database and improve performance.
- Only change requests in a final state can be archived, namely in the statuses *Final Check Approved* or *Final Check Rejected*. You can still access archived change request from the application Display Change Requests including their (archived) change documents.
- Further information:
  - SAP Note [2574330](#) (Archiving and deletion of change requests)
  - [Online Documentation](#) on Data Archiving in MDG

The screenshot shows the SAP Display Change Requests interface. At the top, there are search fields for Change Request, Type of Change Request, Status of Change Request, Edition, Due Date, Priority, Reason, and Reason for Rejection. Below these are filters for Created By, Created On, Changed By, Changed On, Finalized By, and Finalized On. A red box highlights the "Archived" checkbox in the "Created By" filter, which is checked for several entries. A yellow arrow points from this box to a red box around the "Include Archived Change Requests" checkbox at the bottom left of the screen. The main area displays a table of change requests with columns for Object Type, Object ID, and BP Search T... . The table includes rows for various Business Partner IDs and their corresponding object types and IDs. At the bottom, a specific change request is selected, and a detailed view is shown in a separate window titled "Display Change Documents: Change Request 37772". This view shows the change request number, a refresh button, and a table of attribute changes. The table has columns for Date, Time, Entity Type, Value, Address Number, Change, Attribute, Old Value, New Value, and Table. One row is visible, showing a change for a Business Partner ID from 91218 to 234788, with the attribute being Transportation Zone.

# Function in Detail

- Processes
- User Interface
- Business Partner Data
- Data Quality
- Data Replication
- Client Maintenance
- Cleansing
- Processing of Multiple Objects
- Hierarchies
- MDG Framework Capabilities and Process Analytics
- **Data Protection**
- MDG for FI Contract Account

# Function in Detail: Data Protection

## Hiding / Deleting Business Partner Data

The concept of simplified blocking and deletion based on SAP Information Lifecycle Management (ILM) is now supported in SAP MDG. It therefore reacts to the End-of-Purpose (EOP) flag

- § EOP state 1: Hide blocked BP, data still in system
- § EOP state 2: Delete BP data from system (at end of retention time)

### EOP state 1: Hide blocked BP, data still in system

- § Exclude BP from search
- § Delete BP from existing Change Requests
- § Delete BP from Consolidation and Mass Processing runs
- § Mask BP within Hierarchy Processing, no navigation
- § Hide all changes from change document list

### EOP state 2: Delete BP data from the system

- § BP deleted
- § Delete BP from Change Requests
- § Delete BP from Consolidation and Mass Processing runs
- § Mask BP within Hierarchy Processing, no navigation
- § Delete all changes from change document list

# Function in Detail: Data Protection

## Read Access Logging

Read Access Logging is used to monitor and log read access to sensitive data. This data may be categorized as sensitive by law, by external company policy, or by internal company policy. Configuration examples are available for SAP MDG in transaction SRALMANAGER.

### § Web Dynpro UI: Log access of

- Bank Accounts
- Payment Cards
- Change Documents
- Creditstanding
- Rating

### § SOA replication: Log access of

- Bank Accounts
- Payment Cards

### § Gateway Services: Log access of

- Bank Accounts

# Function in Detail

- Processes
- User Interface
- Business Partner Data
- Data Quality
- Data Replication
- Client Maintenance
- Cleansing
- Processing of Multiple Objects
- Hierarchies
- MDG Framework Capabilities and Process Analytics
- Data Protection
- **MDG for FI Contract Account**

# Function in Detail: MDG for FI Contract Accounts

## Introduction

### CONTRACT ACCOUNTS RECEIVABLE AND PAYABLE (FI-CA)

- § Sub ledger accounting for processing large document volumes
- § Realizes the typical accounts receivable functions
- § Originally used in Service Industries like Insurance, Utilities, Telecom, Public Sector, Media etc.; now increasingly used for all kind of mass business
- § Based on SAP Business Partner (ERP Customer / ERP Vendor Master are not used)
- § Each Business Partner posting is assigned to one Business Partner and to one Contract Account

### Contract Accounts

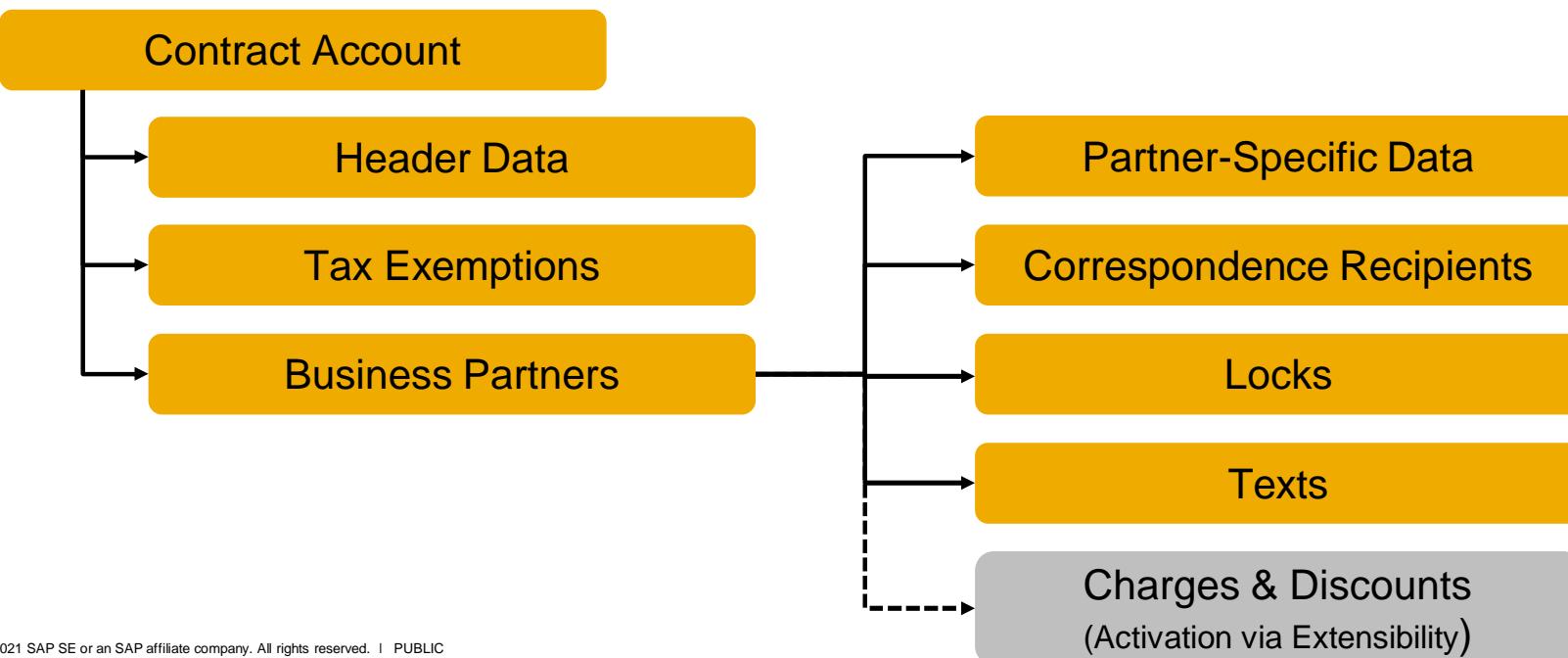
- § For each Business Partner, define the procedures that apply when posting and processing line items
- § Control parameters for billing, payment, dunning, correspondence, etc.
- § Independent entity
  - § One Contract Account can include assignments to multiple Business Partners
  - § One Business Partner can be assigned to multiple Contract Accounts

# Function in Detail: MDG for FI Contract Account

## Data Model

### MDG for FI Contract Accounts available in MDG on S/4HANA 1709 SPS1 and MDG 9.1

- § Contract Account data model consists of generic core data as well as industry-specific data
- § MDG supports generic core data out-of-the-box as well as extensibility options
- § In MDG, Contract Account data is part of Data Model BP for Business Partners



# Function in Detail: MDG for FI Contract Account

User Interface, Launchpad & Search

## Launchpad

The SAP Business Client Launchpad displays the 'Contract Account Governance' application. The main area shows a pie chart titled 'My Change Requests' with the following data:

Status	Count
In Process (0)	0
Approved (0)	0
Rejected (0)	0
Error (0)	0
Draft (0)	0
In Process (0)	0

Below the chart, a status bar indicates 'Q1X/406 | KOEHLERC [EN]'. The left sidebar contains links for 'Contract Account Processing', 'Change Requests and Documents', and 'Analysis of Change Request Process'.

## Search Screen

Search via Contract Account or BusPartner data

The SAP Business Client search screen is titled 'Search Contract Account'. It includes a search bar and a 'Search Criteria' section with dropdowns for:

Field	Value
Contract Account	IS
Business Partner	IS
Name / Last Name	OKC AG
City	BERLIN

Below the search criteria, a 'Result List' displays 4 records found:

Pending Cha.	Contract Account	Contract Account Name	Account Holder	Account Holder Description	Number of Additional Busin...
104	Gas Account OKC Walldorf	129	OKC AG / Unter den Linden 117 / 19117 Berlin	2	
305	Oil Account OKC Walldorf...	OKCO	OKC Walldorf AG / Daimler-Hopf-Allee 12 / 89190...	1	

# Function in Detail: MDG for FI Contract Account

## User Interface, Data Maintenance

### Header Data

The screenshot shows the SAP Business Client interface for a 'Change Request' in the 'Contract Account' module. The top navigation bar includes 'Index', 'Search Contract Account', 'Contract Account: 104, Ga...', and a search bar. The main area displays 'Contract Account: 104, Gas Account CKC Walldorf, 29.10.2017'. The 'General' tab is selected under 'Change Request'. It contains fields for Change Request ID (2591), Description, Priority, Due Date, Reason, Status (Changes to Be Executed), Current Workitem (New Change Request), and Created On/By (29.10.2017 19:29:49). Below this, the 'Contract Account' tab is selected, showing the 'Account Header' with Contract Account Number / Category (104) and Contract Account Name (Gas Account CKC Walldorf). The 'Business Partners' tab lists partners: Wayne Coperton (Partner ID 115), CKC AG (Partner ID 139), and CKCO (Partner ID 123). The 'Tax Exemptions' tab is also visible at the bottom.

### Partner-Specific Data

The screenshot shows the SAP Business Client interface for 'Account Management' of the contract account. The top navigation bar is identical to the previous screenshot. The main area displays 'Contract Account: 104, Gas Account CKC Walldorf - Business Partner: 139, CKC AG / Unter den Linden 117...'. The 'Accounting Information' section includes fields for Business Partner ID (139, CKC AG / Unter den Linden 117), Planning Group (Domestic customers), Business Partner Address (Unter den Linden 117 / 10117), Cash Management Additional..., Interest Key, Account Relationship (Account Holder), Internal Clerk Responsible, Authorization Group (AAA), Reference Partner ID, Invoicing (Delete Flag, Business Area, Field Extension), Alternative Billing Recipient (CKCO, CKC Walldorf AG / Dietmar-Hopp-Allee 12 / 69190 Wiesloch), Alternative Billing Recipient Address (Hauptstr. 11 / 69192 Wiesloch), Collective Billing Account, Tax Jurisdiction Code Address (Unter den Linden 117 / 10117), and Tax Jurisdiction Code. The 'Payments' section includes General Payment Data (Company Code Group: Germany, Standard Company Code: Country Template DE01, Tolerance Group: Tolerance Group 0001, 2 EUR Absolute), Incoming Payments (Incoming Payment Method, Alternative Payer: 196, BTS Deutschland GmbH / Unter den Linden 14 / 10117 Berlin, Alternative Payer Address: Unter den Linden 14 / 10117 Berlin, Bank Account), and Outgoing Payments (Outgoing Payment Method, Alternative Payer: CKCO, CKC Walldorf AG / Dietmar-Hopp-Allee 12 / 69190 Wiesloch, Alternative Payer Address: Dietmar-Hopp-Allee 12 / 69190 Wiesloch, Bank Account).

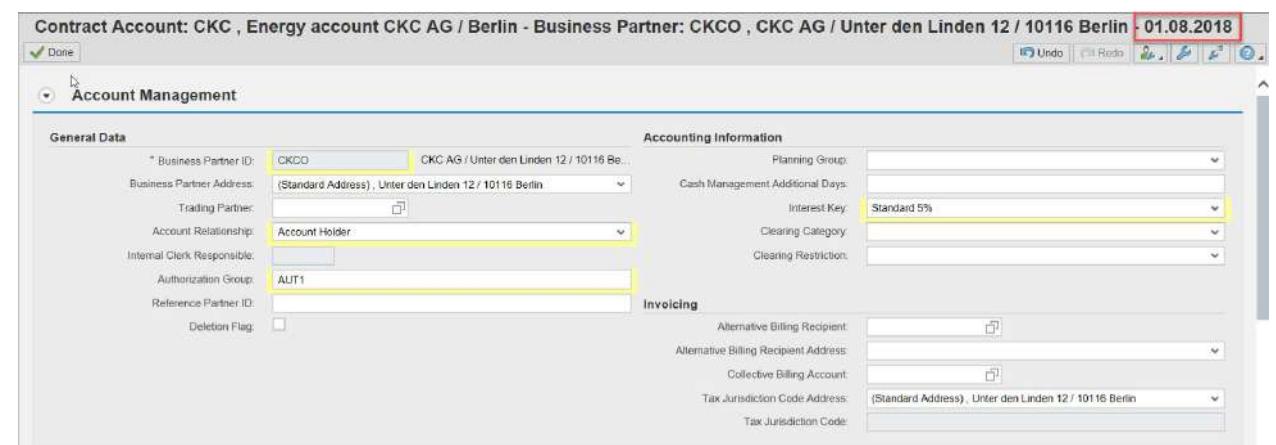
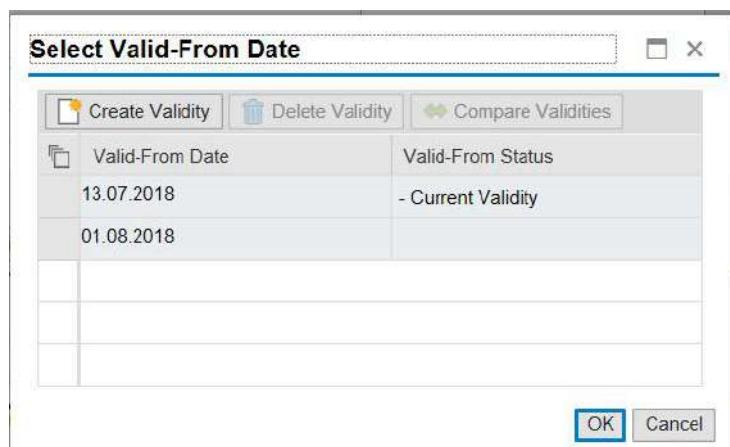
# Function in Detail: MDG for FI Contract Account

User Interface, Maintain future changes

Changes to a Contract Account can be planned for a future date

Future changes are stored separately (planned change documents) and will be activated via a report that is scheduled to run daily.

Planned changes for multiple dates can be maintained, data of two validities can be compared by displaying list of deviating values.



# Function in Detail: MDG for FI Contract Account

Services

## Activation

§ Business Function for FI-CA to be activated before starting with MDG for FI Contract Account

## Configuration

§ Using configuration steps in IMG under Financial Accounting (New) à Contract Accounts Receivable and Payable à Basic Functions à Contract Accounts (Transaction FICAIMG)

## Validations

§ Standard checks implemented in SAP-GUI UI

- § Number Ranges and Contract Account Categories
- § Contract Account / Business Partner Relationships etc.

§ Custom Validations via BRF+

§ Field Modification per Contract Account Category and per Activity

§ Authority Checks for Contract Account Type, Company Code, Authorization Group etc.

## Derivations via BRF+

# Function in Detail: MDG for FI Contract Account

## Process Modelling

### Business Activities

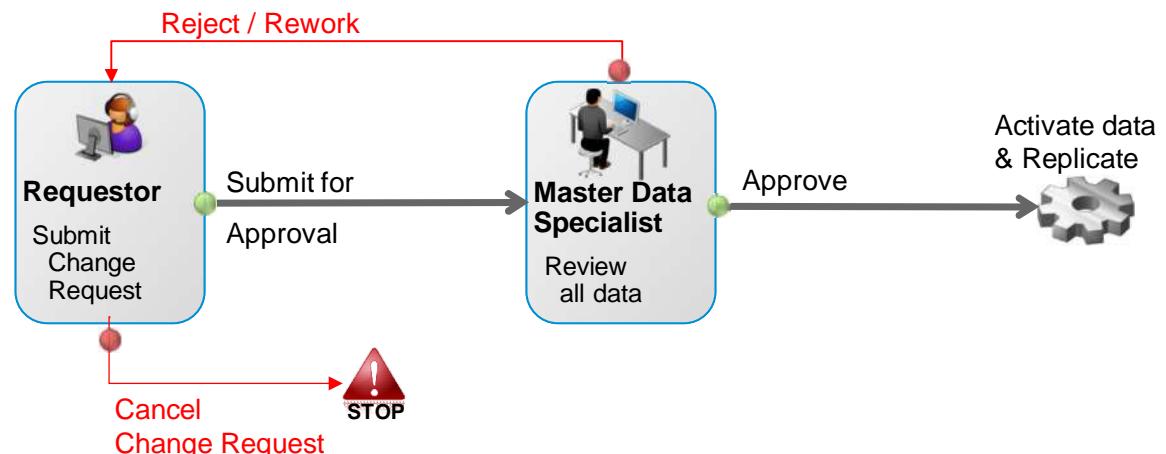
- § FKK1 Create Contract Account
- § FKK2 Process Contract Account
- § FKK3 Display Contract Account

### Change Request Types (pre-delivered, can be adjusted within project)

- § FKK1P1 Create Contract Account
- § FKK2P1 Change Contract Account

### Workflow

- § Two-step workflow for four-eyes-principle
- § Implemented via Rules-based Workflow



# Function in Detail: MDG for FI Contract Account

## Extensibility

### Field Extensibility

- § Pre-delivered MDG data model contains generic fields
- § Industry-specific fields can be added to pre-delivered entity types via field extensibility
- § Custom-specific fields can be added to pre-delivered entity types via field extensibility
- § Field Extensibility Guide with step-by-step explanation available

### Node Extensibility

- § Only industry-specific entity type is Charges & Discounts
- § UI / logic for Charges & Discounts is pre-delivered, but inactive
- § Charges & Discounts can easily be activated following the Node Extensibility Guide for Charges & Discounts
- § Extensibility Guides can be found on the [SAP Community for Master Data Governance](#)

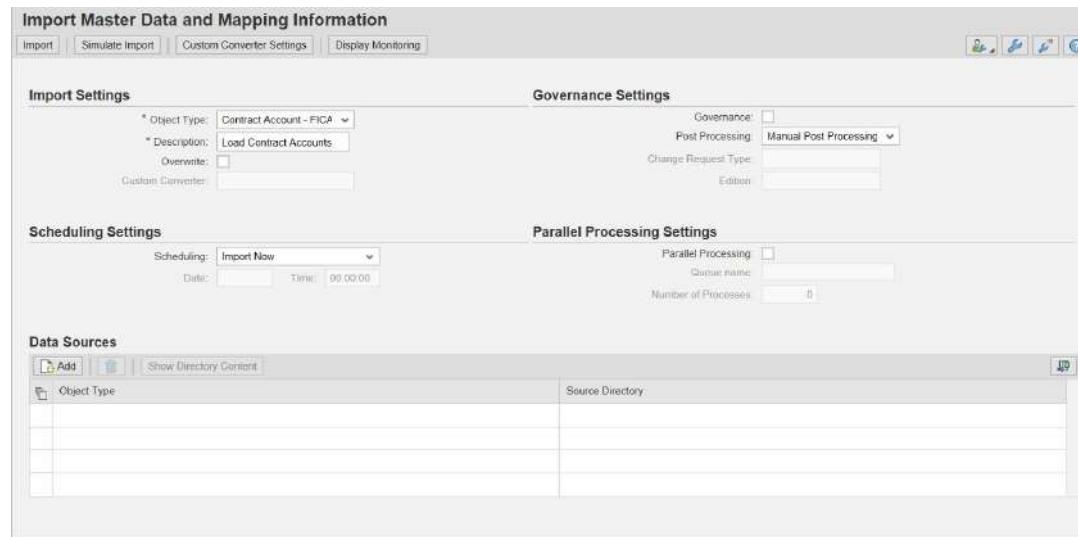
# Function in Detail: MDG for FI Contract Account

## Data Replication / Data Load

New SOA Services for replicating Contract Accounts from MDG to operational ERP systems.

Loading Contract Accounts to MDG via Data Import.

Contract Accounts can be sent from other systems to MDG via SOA Service for further processing within Change Request (Client Maintenance).



# **Agenda**

Introduction

SAP Master Data Governance Capabilities

Function in Detail

**Integration Scenarios**

Solution Benefits

# Integration Scenarios

- **Integration with Supplier Lifecycle Management (SAP-SLC)**
- Integration with Customer Relationship Management (SAP-CRM)
- Integration with SAP Sales Cloud
- Integration with Business Partner Screening (SAP-BPS)
- Global & local MD Hubs
- Technique

# Integration Scenarios: Supplier Lifecycle Management (SAP-SLC)

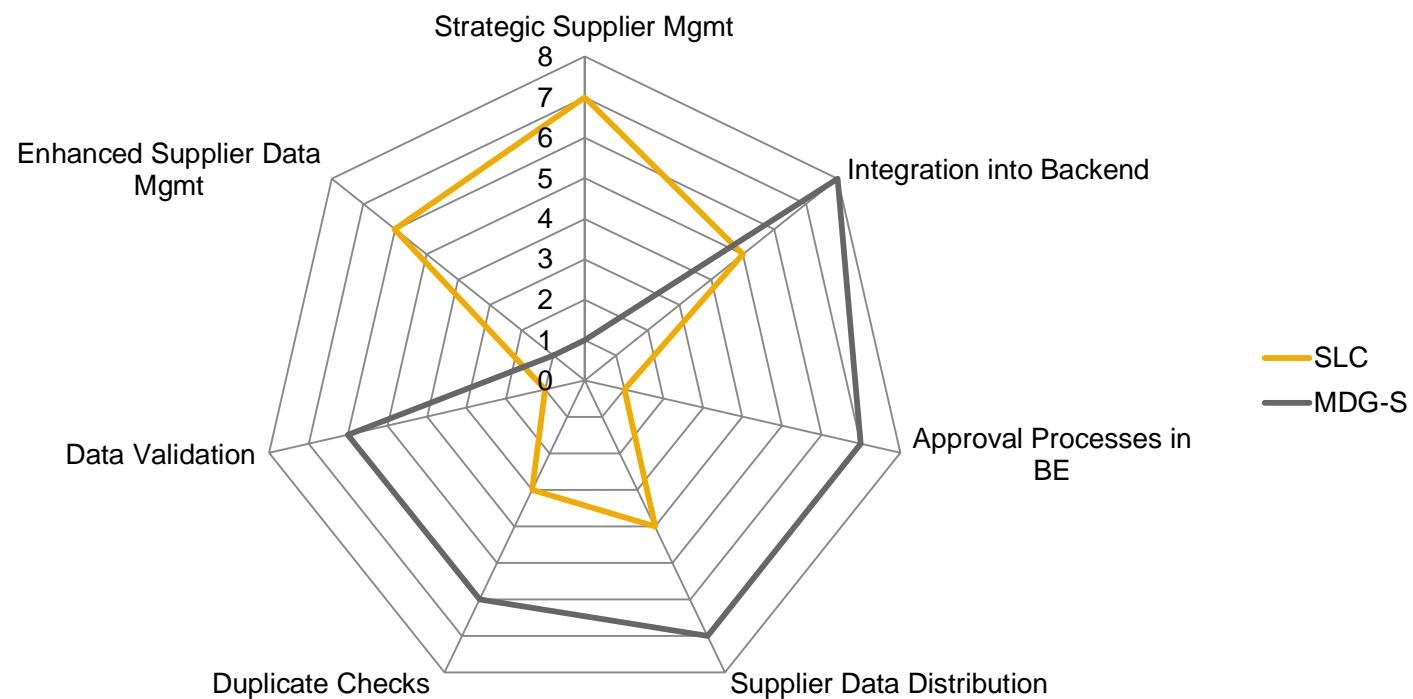
## Overview SAP-SLC



- ◊ First Version Strategic Buyer Workplace
- ◊ Integration with MDG-S
- ◊ Procurement Analytics (Portfolio) and Content Tagging
- Multi-dimensional Supplier Classifications
- ◊ Interface with BW
- ◊ Tighter Integration with SAP Streamwork for Supplier Development

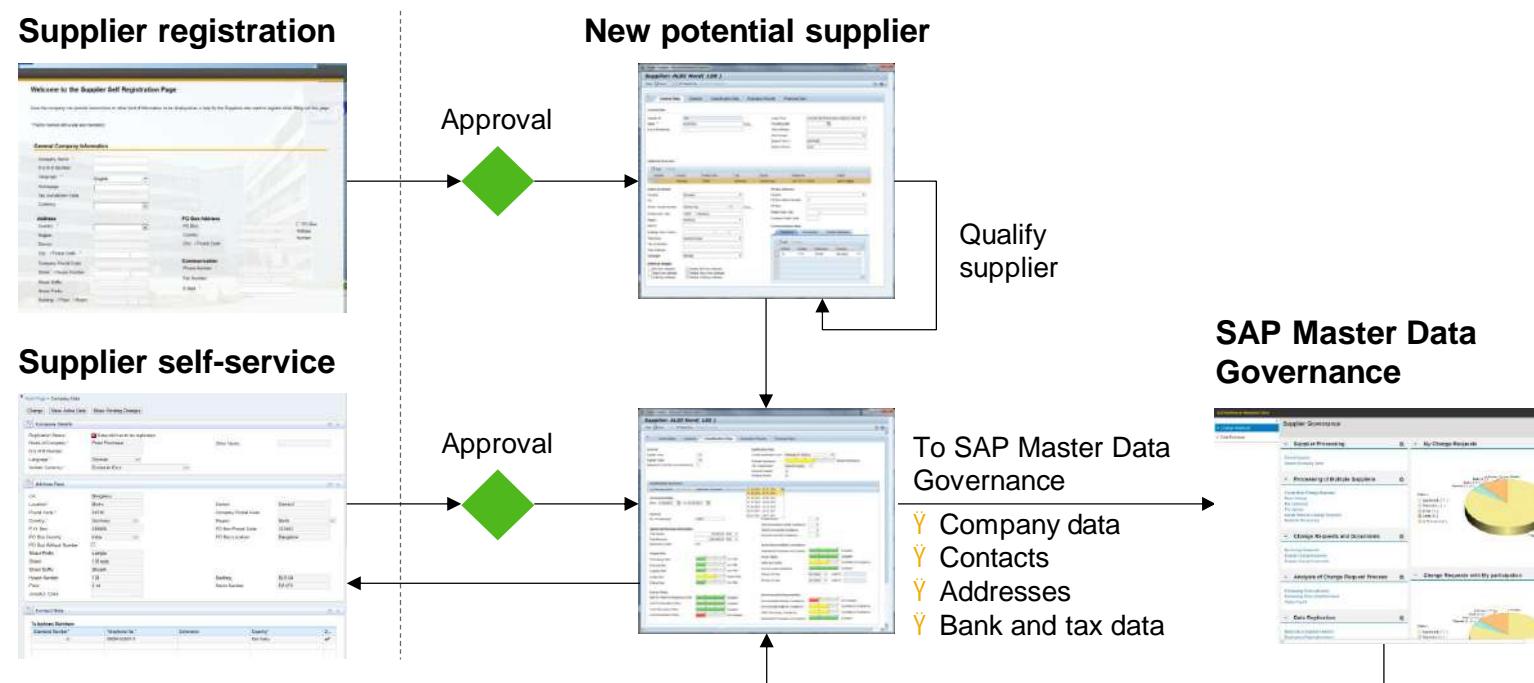
# Integration Scenarios: Supplier Lifecycle Management (SAP-SLC)

Core Processes SLC / MDG-S



# Integration Scenarios: Supplier Lifecycle Management (SAP-SLC)

## Supplier Data Flow – High level



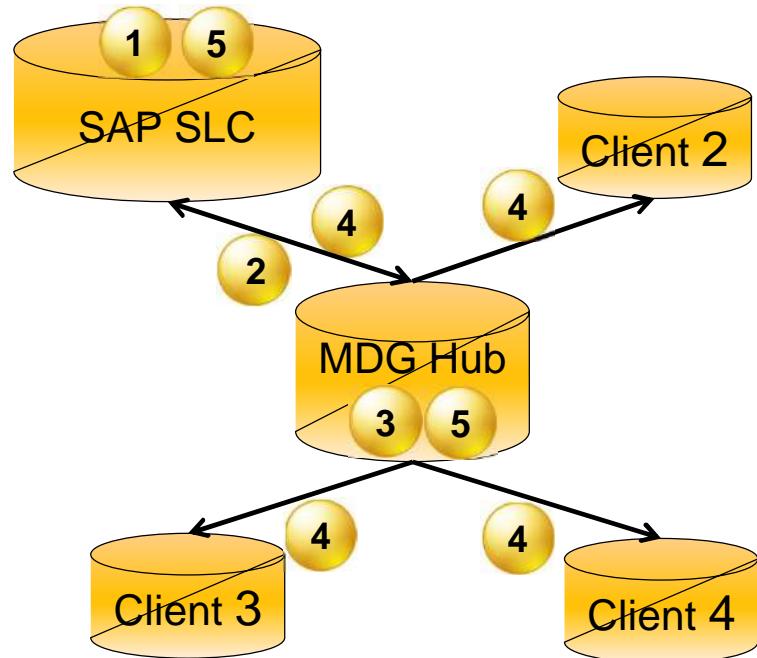
Potential suppliers are only managed by SAP Supplier Lifecycle Management.

Global supplier master data can be enriched and changed within SAP Supplier Lifecycle Management and transferred to the master data system or vice versa.

Data for other segments is managed and distributed by the master data system.

# Integration Scenarios: Supplier Lifecycle Management (SAP-SLC)

Maintain Potential Suppliers in SLC, Governance of Bidders / Suppliers in MDG



- 1 Maintain potential suppliers in SAP-SLC only
- 2 Potential supplier becomes bidder / supplier in SAP-SLC è send supplier to MDG Hub & create a CR
- 3 Rework / approve data on MDG Hub
- 4 Replicate data to client systems
- 5 Changes to bidders / suppliers in SLC or MDG

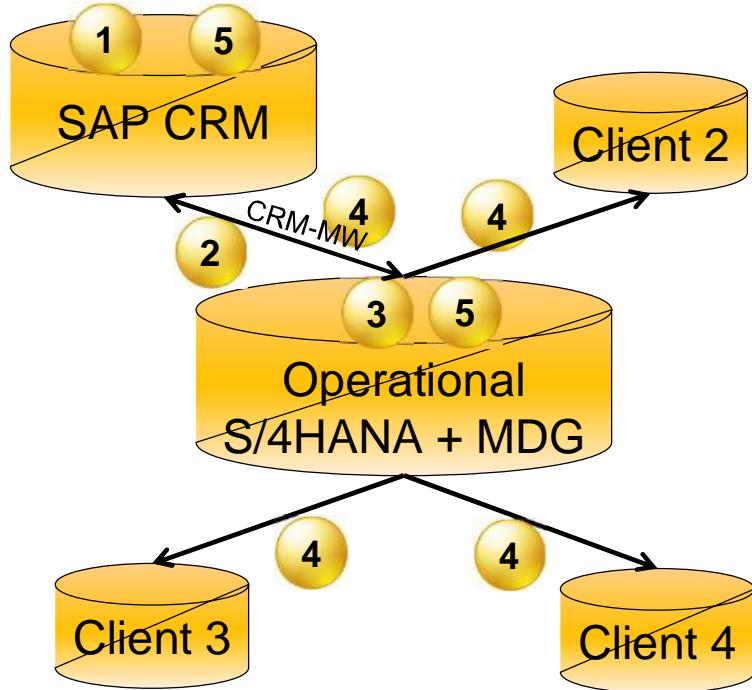
MDG Hub is ready for the scenario as of MDG 6.1, SLC is ready for the scenario as of SLC 1.0 SP03

# Integration Scenarios

- Integration with Supplier Lifecycle Management (SAP-SLC)
- **Integration with Customer Relationship Management (SAP-CRM)**
- Integration with SAP Sales Cloud
- Integration with SAP Ariba Supplier Lifecycle and Performance
- Integration with Business Partner Screening (SAP-BPS)
- Global & local MD Hubs
- Technique

# Integration Scenarios: Customer Relationship Management (SAP-CRM)

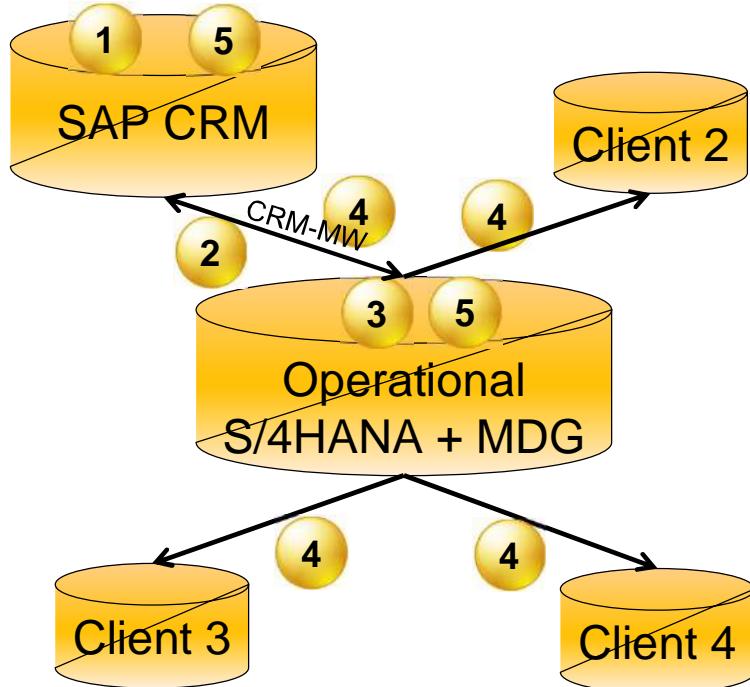
Prospects / leads in CRM, governance of customers in connected S/4HANA or ERP 6.0



- 1 Maintain prospects & leads in CRM only
- 2 Prospect becomes customer in CRM → replicate to Operational S/4HANA via CRM-MW & create Change Request in MDG
- 3 Rework / approve data in MDG
- 4 Replicate data to client systems
- 5 Changes to customers possible in CRM and S/4HANA via MDG

# Integration Scenarios: Customer Relationship Management (SAP-CRM)

Prospects / leads in CRM, governance of customers in connected S/4HANA or ERP 6.0

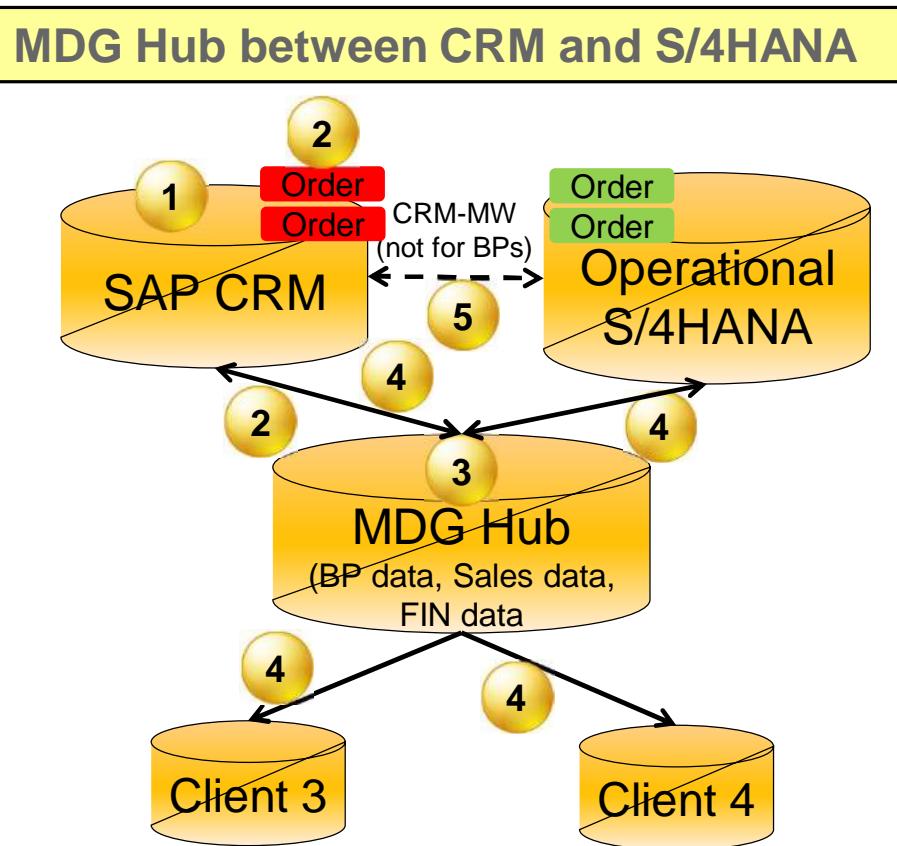


## Good to know

- Ŷ MDG has to run in operational S/4HANA connected with CRM
- Ŷ CRM-MW has to be configured in a way that BP with role 'Customer' only are replicated to S/4HANA
- Ŷ BP with customer role is created / changed in Operational S/4HANA before MDG change request is created (with activity Change)
- Ŷ Searching from CRM on MDG requires project-specific implementation

# Integration Scenarios: Customer Relationship Management (SAP-CRM)

Prospects / leads in CRM, governance of customers in separate MDG Hub

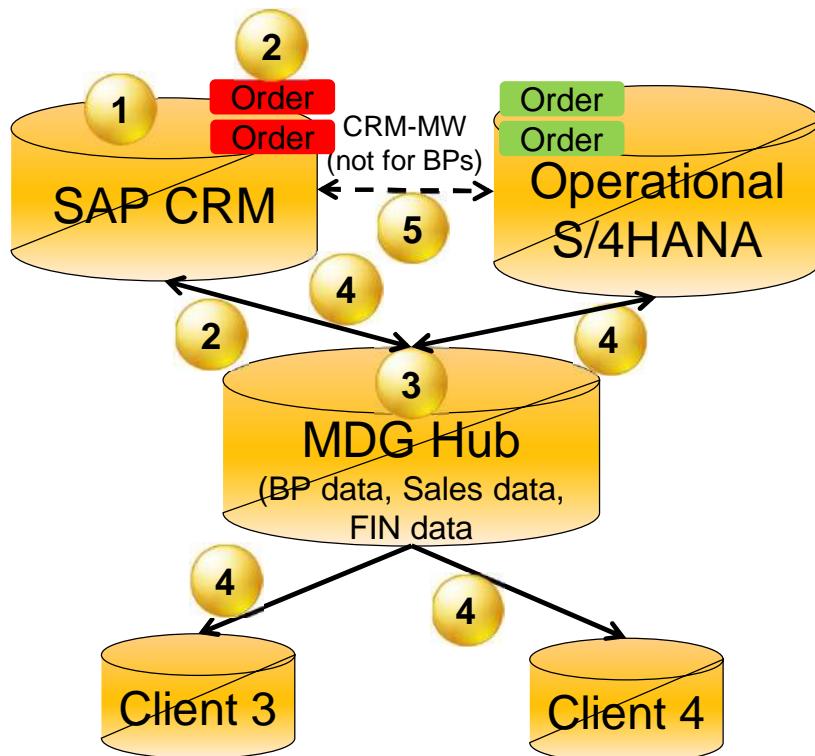


- 1 Maintain prospect / lead in CRM only
- 2 Prospect becomes customer in CRM è replicate to MDG Hub via SOA Service, create a CR in MDG Hub. CRM-MW is deactivated for replication of BPs.  
Distribution lock is marked automatically for related Sales Orders to be replicated to S/4HANA.
- 3 Rework / approve data on MDG Hub
- 4 Replicate data from MDG to all connected client systems including CRM and Operational S/4HANA
- 5 Unmark distribution lock of related sales orders and restart replication.

# Integration Scenarios: Customer Relationship Management (SAP-CRM)

Prospects / leads in CRM, governance of customers in separate MDG Hub

## MDG Hub between CRM and S/4HANA



## Good to know

- Y All BP data (Central, Sales and Financials) can be governed within MDG Hub.
- Y Scenario requires several project-specific coding efforts / configuration, recommendations are described in a How-to Guide (<https://www.sap.com/documents/2015/07/d8457b52-5b7c-0010-82c7-eda71af511fa.html>).
- Y Scenario was tested by MDG Development. However
  - like always – project-specific coding / configuration is the responsibility of the project.
- Y Searching from CRM on MDG Hub requires project-specific implementation

# Integration Scenarios

- Integration with Supplier Lifecycle Management (SAP-SLC)
- Integration with Customer Relationship Management (SAP-CRM)
- **Integration with SAP Sales Cloud**
- Integration with SAP Ariba Supplier Lifecycle and Performance
- Integration with Business Partner Screening (SAP-BPS)
- Global & local MD Hubs
- Technique

# Integration Scenarios: SAP Sales Cloud

## Summary

Customer data can be maintained in SAP Sales Cloud as well as in MDG-C; bi-directional replication between SAP Sales Cloud and MDG-C is supported by using SOA Services.

SAP recommends using best-practice integration scenarios with the goal to:

- § Optimize master data quality by using MDG processes like Consolidation and Central Governance
- § Make sure customer master data is in sync across Sales Cloud, MDG, and operational ERP system
- § Enable flow of transactional data (such as sales orders) between SAP Sales Cloud and ERP system

Best-practice integration scenarios are delivered as of:

- § MDG 9.1 & MDG 9.2 (prerequisite is EHP8SP10)
- § MDG on S/4HANA 1709 FPS2 & MDG on S/4HANA 1809

For more information about [scenarios](#) and system configuration, see [SAP Help Portal for MDG](#)

# Integration Scenarios: SAP Sales Cloud

## Scenarios, Overview

New customer from SAP Sales Cloud

- § No duplicate found in MDG
- § Duplicate found in MDG: BP not yet in SAP Sales Cloud
- § Duplicate found in MDG: BP already in SAP Sales Cloud

Change customer in SAP Sales Cloud

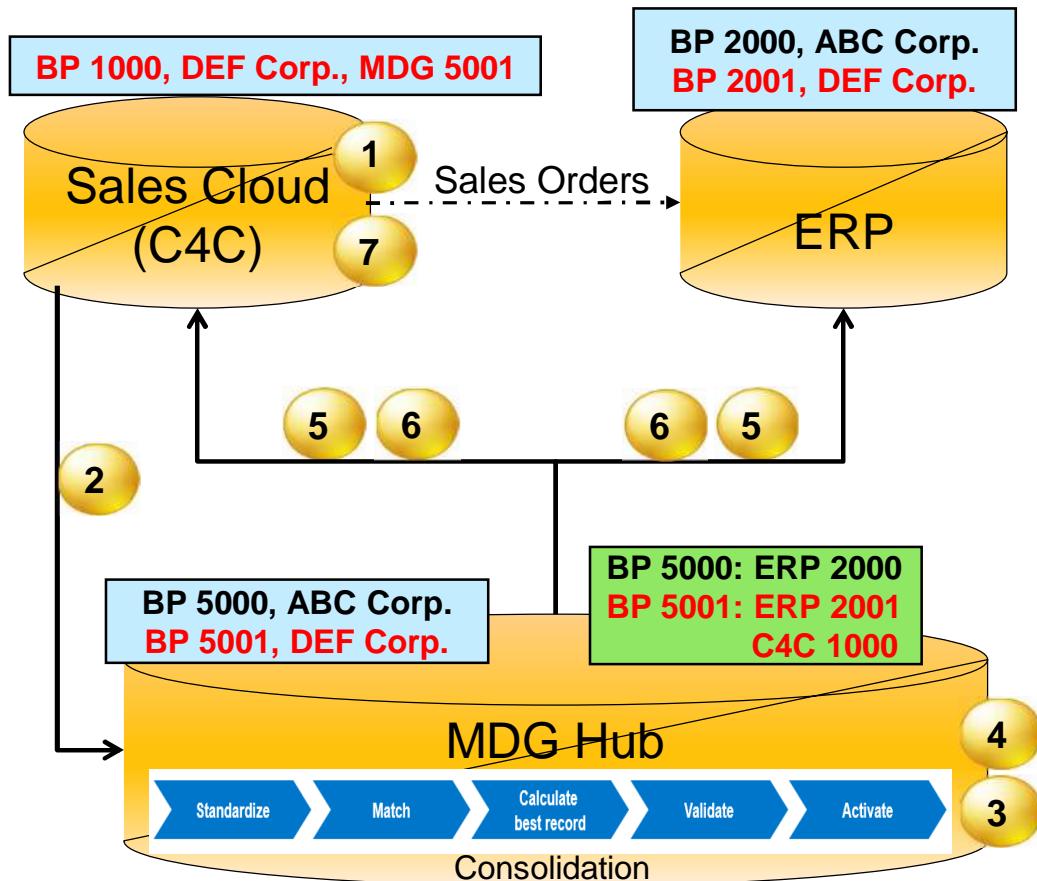
Create customer in MDG

Change customer in MDG

Merge two active customers in MDG

# Integration Scenarios: SAP Sales Cloud

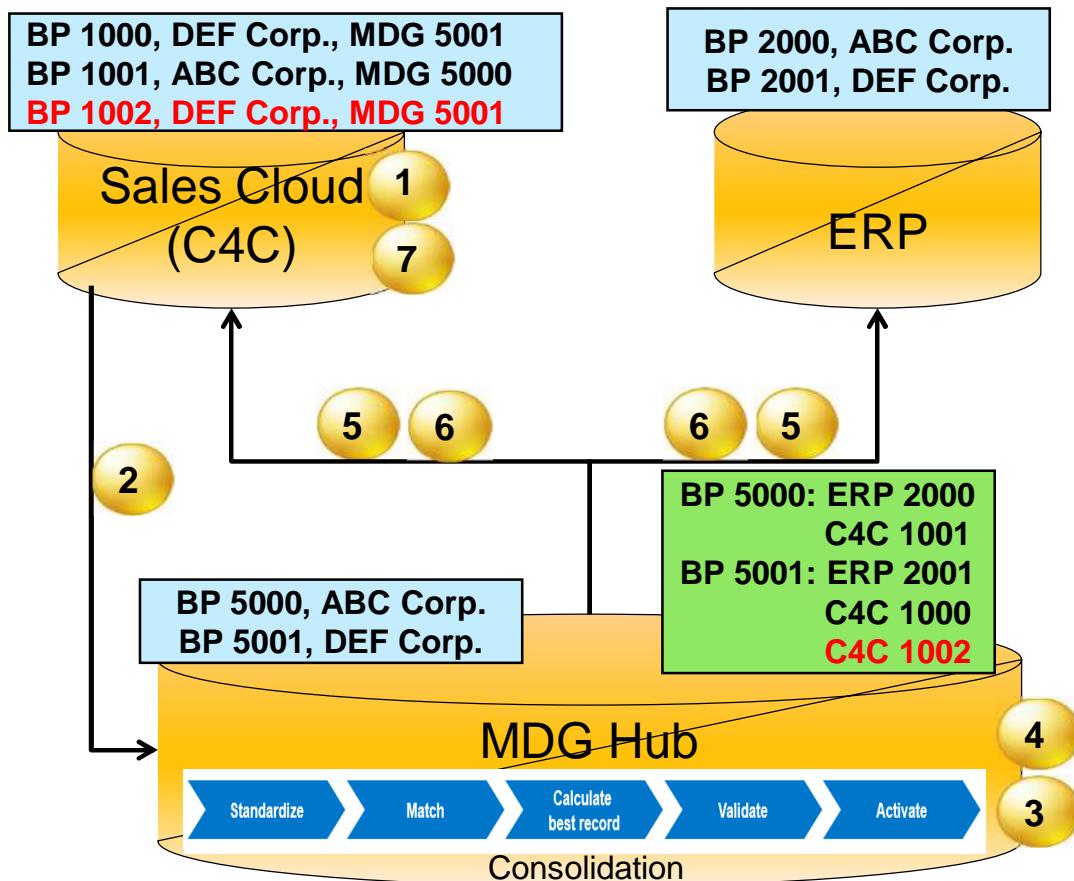
Scenario: New customer from SAP Sales Cloud and no duplicate found in MDG



- 1 Create new customer DEF Corp. in SAP Sales Cloud; business with new customer can start
- 2 Send customer to MDG via SOA Service
- 3 Start Consolidation. No match found, so prepare for adding customer
- 4 Activate data on MDG Hub, add new customer as well as Key Mapping for MDG à Sales Cloud
- 5 Replicate customer data from MDG Hub to all connected client systems
- 6 Replicate key mapping to all client systems
- 7 Store ERP number of customer in Sales Cloud for proper replication of transactional data

# Integration Scenarios: SAP Sales Cloud

Scenario: New customer from Sales Cloud and Duplicate found in MDG (BP already in Sales Cloud)



- 1 Create new customer DEF Corp. in SAP Sales Cloud; business with new customer can start.
- 2 Send customer to MDG via SOA Service.
- 3 Start Consolidation. Match found against BP in MDG / Sales Cloud, merge data.
- 4 Activate data on MDG Hub, enhance Key Mapping for existing customer resulting in two mappings towards Sales Cloud.
- 5 Replicate customer data from MDG Hub to all connected client systems.
- 6 Replicate key mapping to all client systems.
- 7 Sales Cloud detects duplicate customers, starts local merge, and marks superfluous customer as inactive (only if not yet replicated to ERP).

# Integration Scenarios

- Integration with Supplier Lifecycle Management (SAP-SLC)
- Integration with Customer Relationship Management (SAP-CRM)
- Integration with SAP Sales Cloud
- **Integration with SAP Ariba Supplier Lifecycle and Performance**
- Integration with Business Partner Screening (SAP-BPS)
- Global & local MD Hubs
- Technique

# Integration Scenarios: SAP Ariba Supplier Lifecycle and Performance (SLP)

## Summary

Supplier data can be maintained in SAP Ariba as well as in MDG-S; bi-directional replication between SAP Ariba Supplier Lifecycle and Performance (SLP) and MDG-S is supported by using SOA Services.

SAP recommends using best-practice integration scenarios with the goal to:

- § Optimize master data quality by using MDG processes like Consolidation and Central Governance
- § Make sure supplier master data is in sync across SLP, MDG, and operational ERP system

Best-practice integration scenarios are delivered as of:

- § MDG 9.2
- § MDG on S/4HANA 1809 and above

For more information about [scenarios](#) and system configuration, see [SAP Help Portal for MDG](#)

# **Integration Scenarios: SAP Ariba Supplier Lifecycle and Performance (SLP)**

## Scenarios, Overview

### A) New supplier from SLP replicated during Request

- Scenario 1a: New supplier from SLP, No duplicate found in MDG
- Scenario 2a: New supplier from SLP, Duplicate found in MDG: BP not yet in SLP
- Scenario 3a: New supplier from SLP, Duplicate found in MDG: BP already in SLP

### B) New supplier from SLP replicated after Registration or Qualification

- Scenario 1b: New supplier from SLP, No duplicate found in MDG
- Scenario 2b: New supplier from SLP, Duplicate found in MDG: BP not yet in SLP
- Scenario 3b: New supplier from SLP, Duplicate found in MDG: BP already in SLP

Scenario 4: Change supplier in MDG

Scenario 5: Change supplier in SLP

Scenario 6: Create supplier in MDG

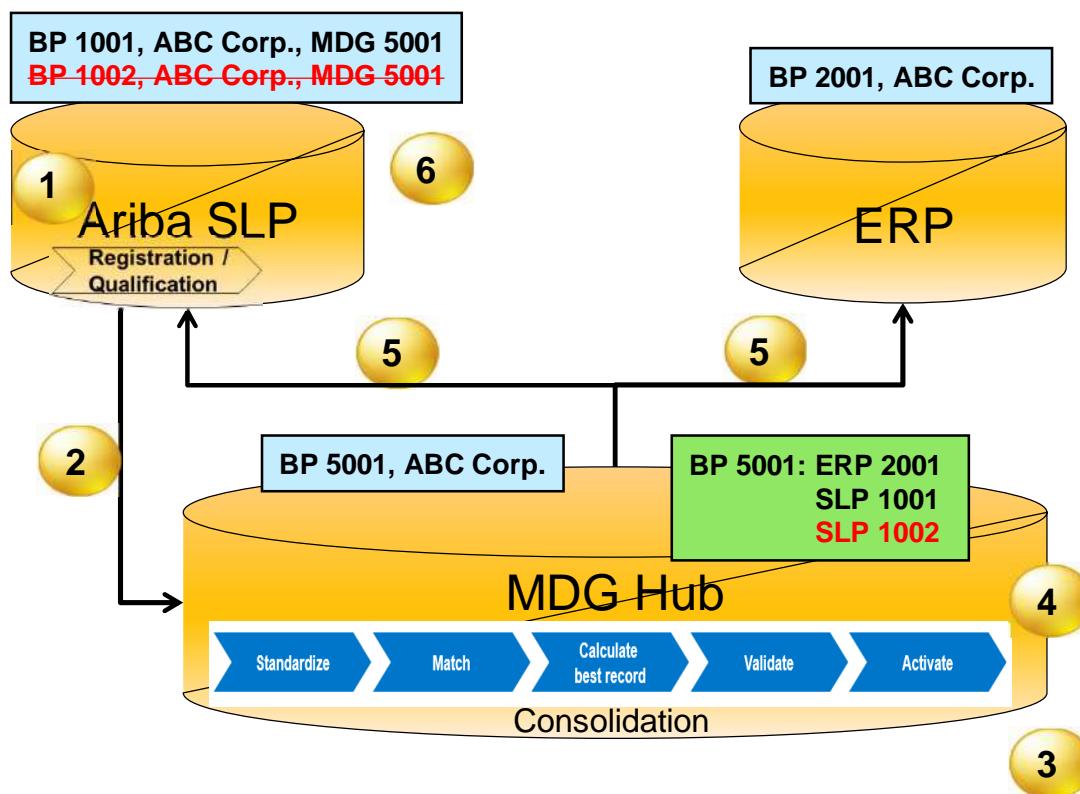
Scenario 7: Merge two active suppliers in MDG

## Scenario 3b:

Registration/  
Qualification

## New supplier from SLP, Duplicate found in MDG

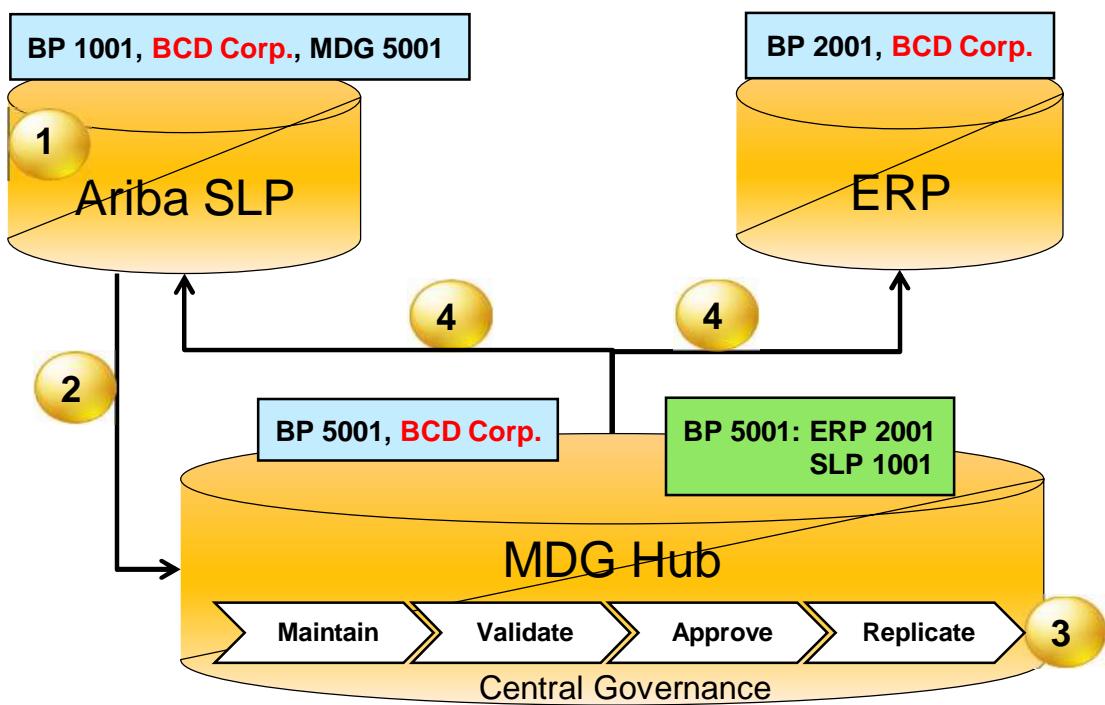
BP already in SLP



**Initial situation:** Supplier ABC Corp. already known in MDG, ERP, and SLP (BP 1001)

- 1 Registration / Qualification of new supplier ABC Corp. (1002) in SLP ignoring already existing supplier ABC Corp. (1001);
- 2 Send the supplier to MDG via SOA Service
- 3 Start Consolidation. Match found against BP ABC Corp. (5001) existing in MDG / ERP / SLP, merge data.
- 4 Activate data on MDG Hub, enhance Key Mapping for existing BP resulting in two mappings towards SLP
- 5 Replicate supplier data from MDG Hub to all connected client systems (including SLP)
- 6 SLP notices that another supplier (1001) refers to same MDG ID and therefore inactivates duplicate supplier (1002).

## Scenario 5: Change supplier in SLP



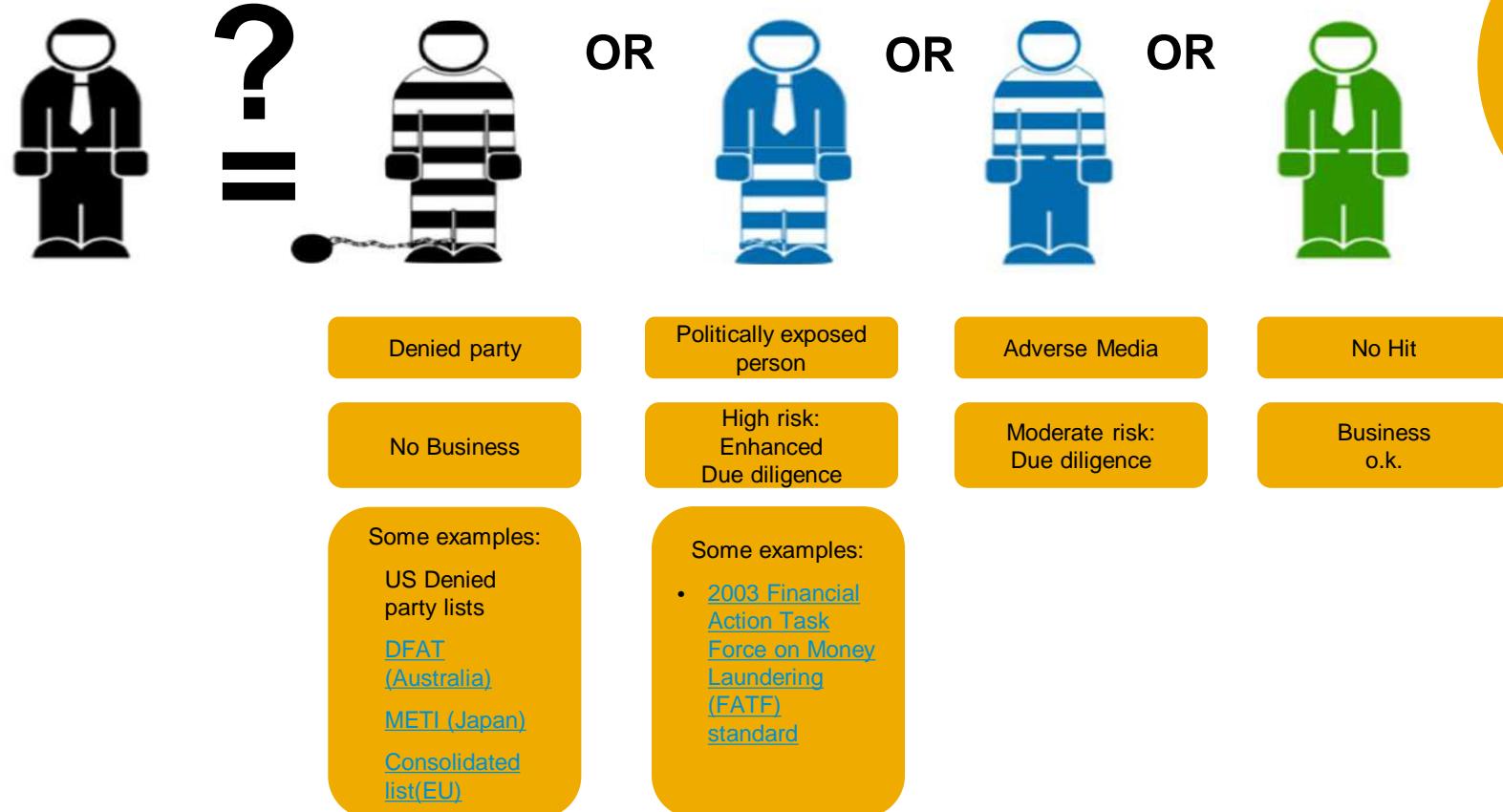
- 1 Change supplier name from ABC to BCD in SLP
- 2 Send the supplier to MDG via SOA Service
- 3 Start Change Request, MD Specialist will verify / correct the data and approve.
- 4 After activation of data in MDG replication to all client systems including SLP will be triggered.

# Integration Scenarios

- Integration with Supplier Lifecycle Management (SAP-SLC)
- Integration with Customer Relationship Management (SAP-CRM)
- Integration with SAP Sales Cloud
- Integration with SAP Ariba Supplier Lifecycle and Performance
- **Integration with Business Partner Screening (SAP-BPS)**
- Global & local MD Hubs
- Technique

# Integration Scenarios: Business Partner Screening (SAP-BPS)

Manage different type of content; is my business partner on a published list?



# Integration Scenarios: Business Partner Screening (SAP-BPS)

Why care about these parties?

## \$1.45 Billion in Penalties for Bank that Concealed Transactions with Sanctioned Parties (March 2015)

The Justice Department announced March 12 that a global financial institution headquartered in Germany and its New York branch have agreed a total of \$1.45 billion in penalties for concealing hundreds of millions of dollars in transactions prohibited by U.S. sanctions laws on behalf of Iranian and Sudanese businesses.

Source: <http://www.strtrade.com/news-publications-economic-sanctions-penalties-German-bank-031715.html>

## Diebold agrees to Pay \$25.2 Million Penalty (October 2013)

The SEC alleges that Diebold spent approximately \$1.6 million on leisure trips, entertainment, and other improper gifts for government bank officials in China. During this same time period, the SEC alleges, Diebold spent over \$147,000 on leisure trips and entertainment for officials of government banks in Indonesia. As alleged in the complaint, Diebold executives in charge of the company's operations in Asia knew of these improper payments, which were falsely recorded in Diebold's books and records as training or other legitimate business expenses

Source: <http://www.justice.gov/opa/pr/diebold-incorporated-resolves-foreign-corrupt-practices-act-investigation-and-agrees-pay-252>

## MoneyGram, one of the world's largest remitters, fined \$122,400 by AUSTRAC (Jan 2015)

MoneyGram Payment Systems, has been fined A\$122,400 for contraventions of Australia's anti-money laundering and counter-terrorism financing laws.

Source: <http://www.austrac.gov.au/media/media-releases/moneygram-one-world%20%99s-largest-remitters-fined-122400-austrac>

## Coutts Bank has been fined £8.75m (March 2012)

Coutts Bank has been fined £8.75m and severely censured by the UK's Financial Services Authority (FSA) for failing to undertake sufficient anti-money laundering checks on their customers.

Source: <http://www.bbc.com/news/business-17512140>

# Integration Scenarios: Business Partner Screening (SAP-BPS)

Multiple country-specific sanctioned party lists

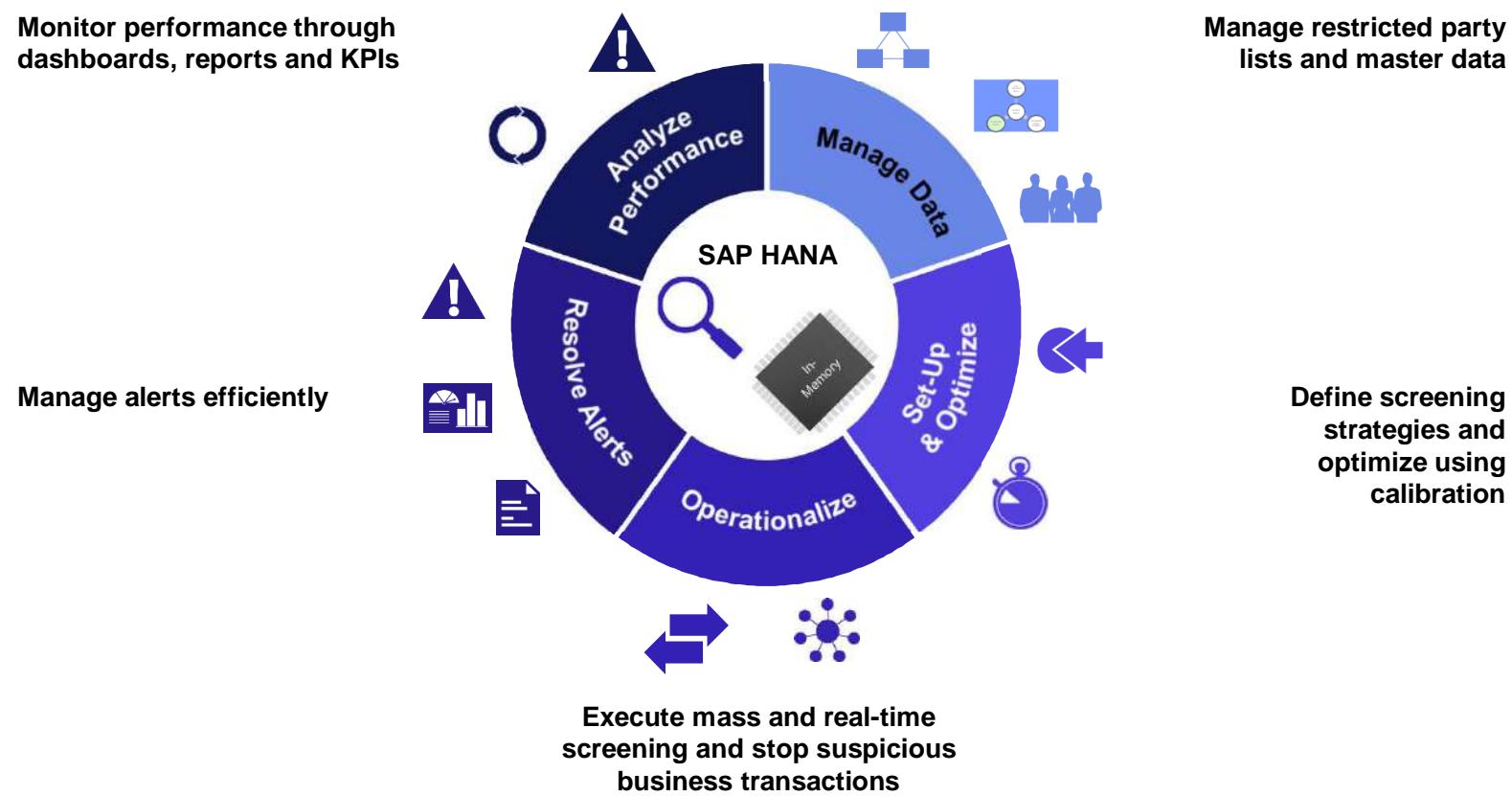


- Y Department of Commerce Entity List - End-User Requiring License (ERL)
- Y 15 CFR Part 744 Supplement No. 4
- Y Department of Commerce Unverified List (RFC); 15 CFR Part 744.15
- Y Department of Commerce Denials List (TDO);
- Y Specially Designated Nationals and Vessels of: (31 CFR ex Parts 500-590)
- Y Belarus, Congo, Cote d'Ivoire, Cuba, Iraq, Iran, Lebanon, Liberia, Libya,
- Y Myanmar - Burma, North Korea, Somalia, Sudan, Syria, Western Balkans, Zimbabwe
- Y Foreign Sanctions Evaders List
- Y Weapons of Mass Destruction Proliferators
- Y Non-SDN Palestinian Legislative Council
- Y Specially Designated Terrorists
- Y Specially Designated Global Terrorists
- Y Specially Designated Narcotic Traffickers
- Y Specially Designated Nationals Sergei Magnitsky
- Y Transnational Criminal Organizations
- Y Debarred List (DOS); 22 CFR Part 127.7 ITAR; Arms Export Control Act, Sec. 38
- Y Missile Proliferators (MT); 22 CFR Part 126
- Y Chemical and Biological Weapons Proliferators (CBW); 22 CFR Part 126
- Y Designated Terrorist Organization (DTO); 22 CFR Part 126
- Y Iran Nonproliferation Act of 2000 (inpa); 22 CFR Part 126
- Y Iran, North Korea and Syria Nonproliferation Act
- Y Sanctions for the Transfer of Lethal Military Equipment (Ime); 22 CFR Part 126
- Y Department of Commerce Unverified List - Red Flag Concerns (RFC)
- Y 15 CFR Part 732 Supplement No. 3.
- Y European Union Sanctions List
- Y Unverified List - "Red Flag"
- Y Japanese End User List (Ministry of Economy, Trade and Industry - METI)
- Y UK List - WMD End-Use Control: Licence Applications for Iran
- Y Financial Crimes Enforcement Network list (FINCEN).
- Y United Nations Security Council Sanctions (UNS)
- Y Additional Non-Standard Offerings
- Y GSA Debarred Bidders List - Reciprocal
- Y GSA Debarred Bidders List - Non-Procurement
- Y GSA Debarred Bidders List - Procurement
- Y Australian Consolidated List
- Y Bank of England - Financial Sanctions
- Y Canadian Restricted Entities
- Y World Bank - List of Debarred/Ineligible Firms
- Y FBI Most Wanted List
- Y Swiss Restricted List (SECO)
- Y Politically Exposed Persons

Extract

# Integration Scenarios: Business Partner Screening (SAP-BPS)

Achieve effective and efficient partner screening!



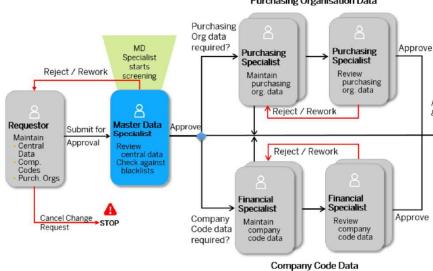
(\*) Can be performed with SAP HANA studio, SAP InfinitiInsight (optional) or 3<sup>rd</sup>-party tools

## **Integration Scenarios: Business Partner Screening (SAP-BPS)**

# Three Scenarios

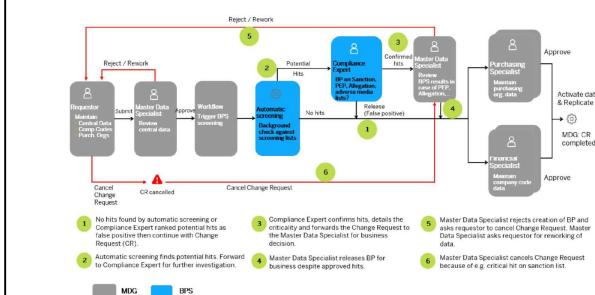
## 1) Decision in MDG

- § Screening results shown as popup in MDG
  - § No involvement from BPS organization



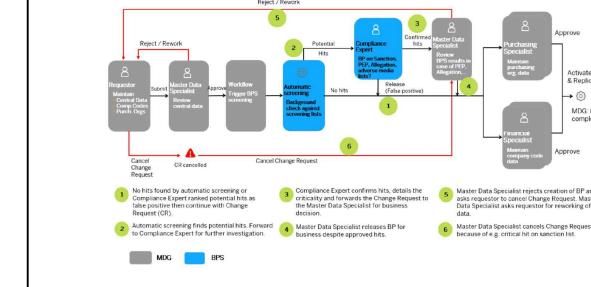
## 2) Consulting by Compliance Expert, Decision in MDG

- § Results from screening made available in MDG in the notes
  - § Final decision in MDG



### 3) Decision in BPS

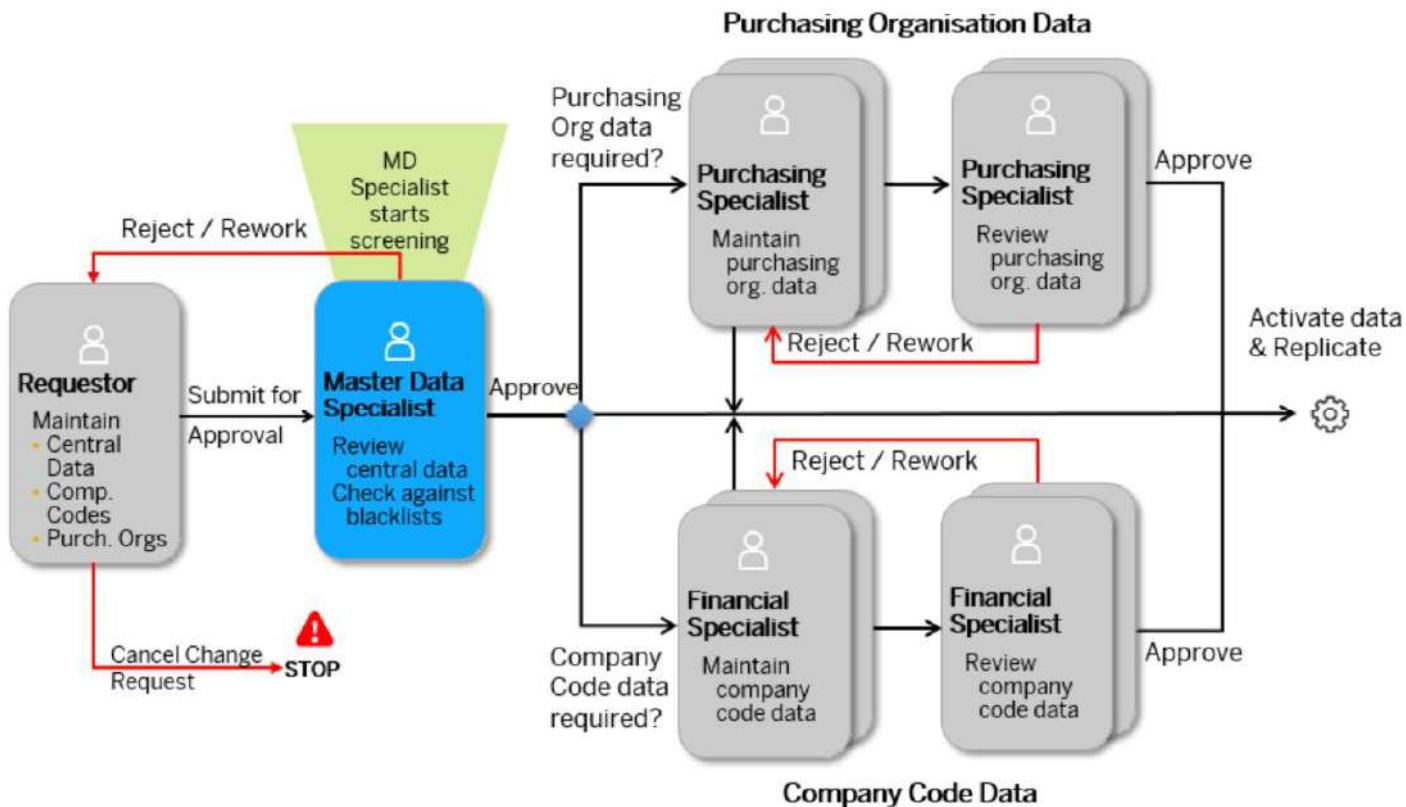
- § Results from screening interpreted in MDG via Customizing
  - § No further actions by an MDG specialist



Details about integration can be found in SAP Note [2326544](#)

# Integration Scenarios: Business Partner Screening

## 1) Decision in MDG (Screening by Master Data Specialist)



# Integration Scenarios: Business Partner Screening

## 1) Decision in MDG (Screening by Master Data Specialist)

### Compliance Check

- Y Screening automatically executed in process steps being activated.
- Y Popup appears in case of suspicion; user can decide about hit / no hit
- Y Hits are protocolled within BP Screening.
- Y User is free how to continue CR process independent of decision about hit / no hit.

Change Request [Edit](#)

General Notes Attachments

General Data		Process Data	
Change Request ID:	67806	Status:	To Be Considered and Approved
Description:	Partner screening	Current WorkItem:	Approve Change Request 67806 (Partner s
Priority:		Created On/By:	24.03.2015 17:11:54
Due Date:		Changed On/By:	24.03.2015 17:13:33
Reason:		Type of Change Request:	CUST1PI Create Customer (simple WF)

Customer Details

Address Screening Compliance Check				
Name	Address	Country	List Classifications	Hit
sanchez	calle, Caithago	Mexico		<input type="checkbox"/>
Jorge Eduardo Costilla Sánchez			Sanction	<input type="checkbox"/>
Eduardo Sanchez	Reynosa, Tamaulipas Calle Sierra Nevada No. 633, Fraccionamiento Fuentes, Sección Lomas	Mexico	Sanction	<input type="checkbox"/>

Please review address screening results (first row shows original entry).

No hits [Confirm selected hits](#) [Cancel](#)

Personal Data

Sex:	Fax (Country, Number, Extension):

Marital Status

Birth Date / Birthplace

Correspondence Language

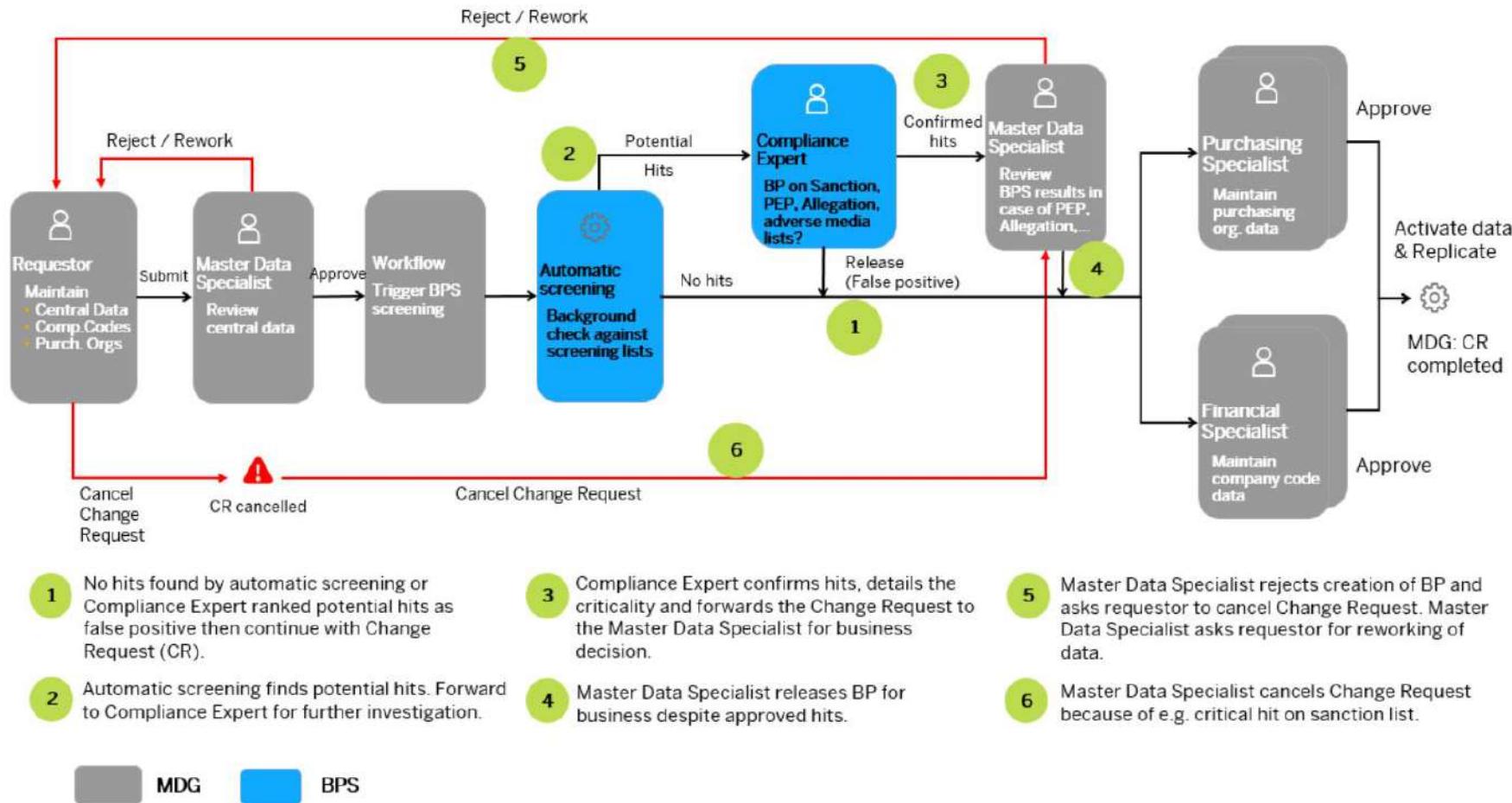
Authorization Group: Stakeholder: Visibility 0 (Unrestricted)

E-Mail Address:

Web Site:

# Integration Scenarios: Business Partner Screening

## 2) Automatic screening: Consulting by Compliance Expert, Decision in MDG



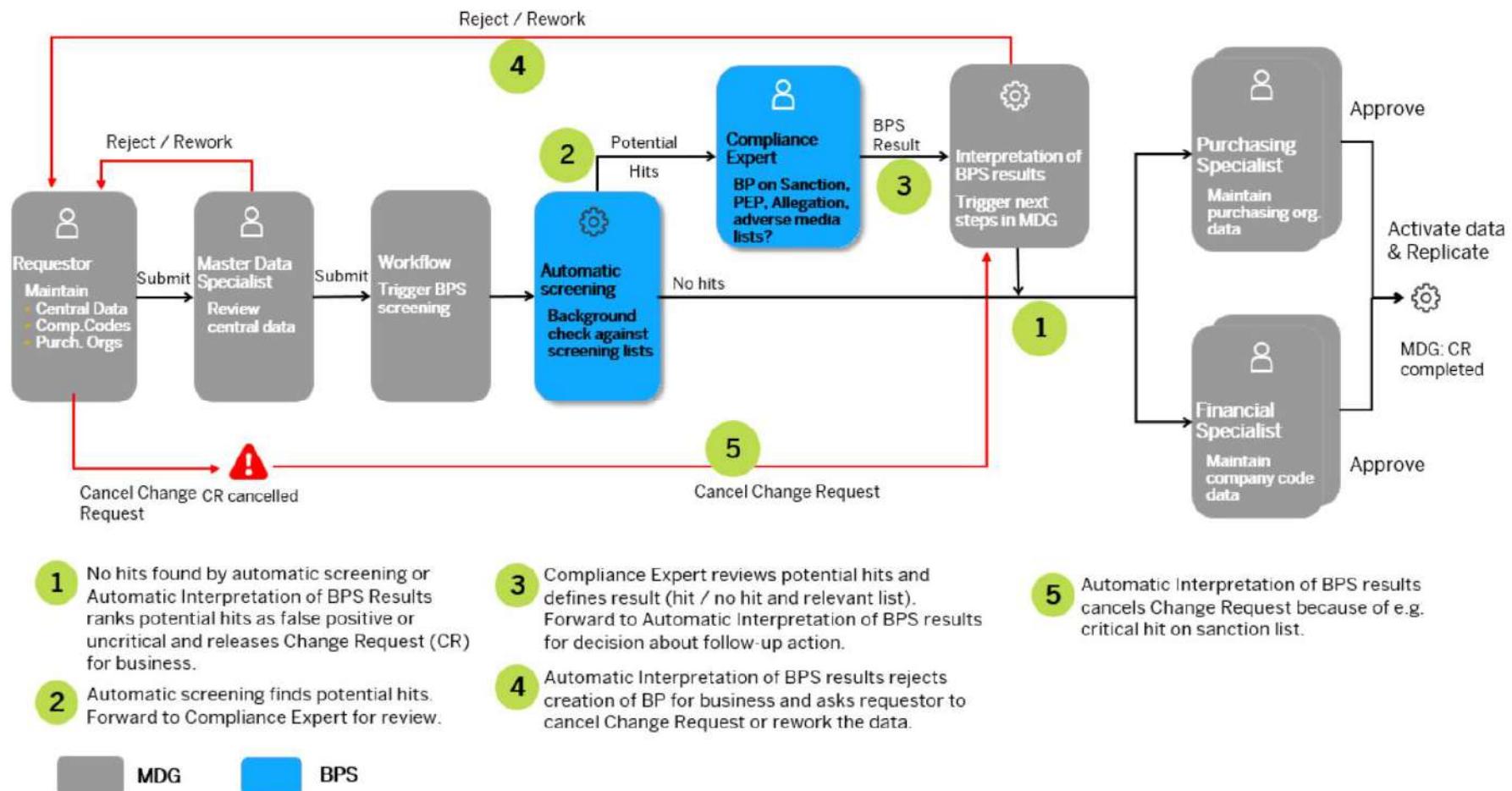
- 1 No hits found by automatic screening or Compliance Expert ranked potential hits as false positive then continue with Change Request (CR).
- 2 Automatic screening finds potential hits. Forward to Compliance Expert for further investigation.

- 3 Compliance Expert confirms hits, details the criticality and forwards the Change Request to the Master Data Specialist for business decision.
- 4 Master Data Specialist releases BP for business despite approved hits.

- 5 Master Data Specialist rejects creation of BP and asks requestor to cancel Change Request. Master Data Specialist asks requestor for reworking of data.
- 6 Master Data Specialist cancels Change Request because of e.g. critical hit on sanction list.

# Integration Scenarios: Business Partner Screening

## 3) Automatic screening: Business Decision by Compliance Expert



# Integration Scenarios: Business Partner Screening (SAP-BPS)

Activate screening per Change Request Step

## Enrichment

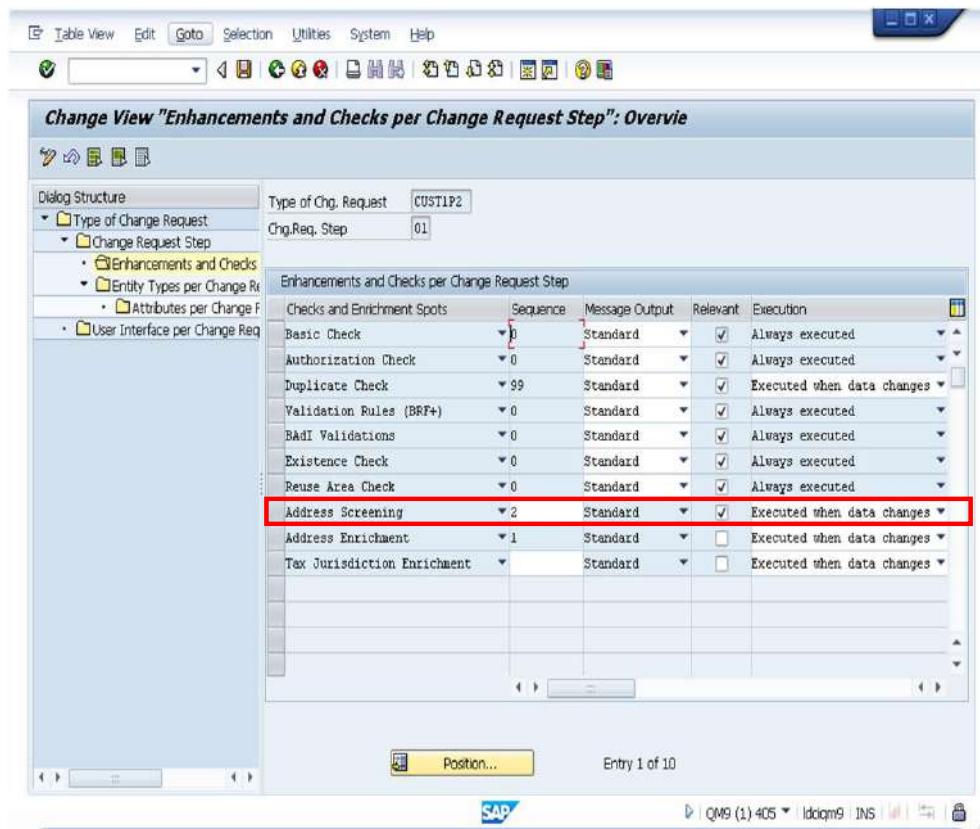
Implemented as Enrichment Spot  
'Address Screening' with  
corresponding adapter in MDG

## Activate per CR Step

For each Change Request  
Type, Screening can be activated  
per Change Request Step

## Deployment Options

BP Screening can run on MDG  
instance (same HANA DB, different  
NW AS) or on different instance

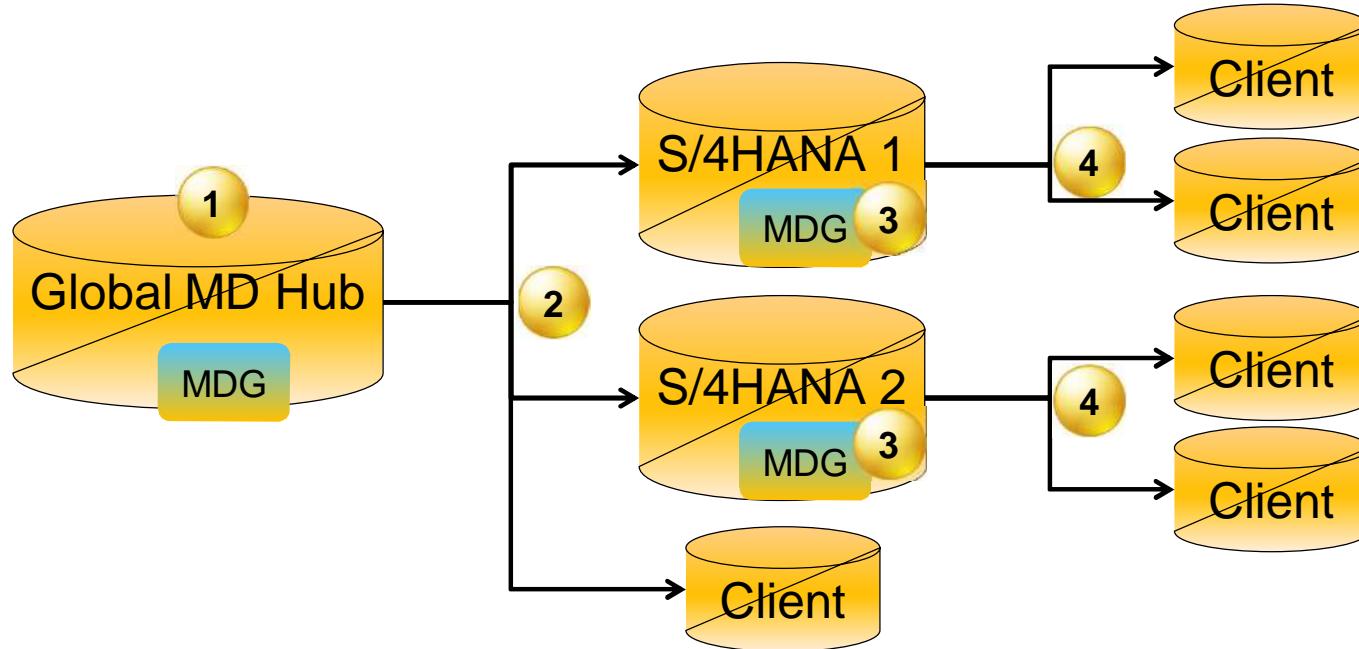


# Integration Scenarios

- Integration with Supplier Lifecycle Management (SAP-SLC)
- Integration with Customer Relationship Management (SAP-CRM)
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- Integration with Business Partner Screening (SAP-BPS)
- **Global & Local MD Hubs**
- Technique

# Integration Scenarios: Global & Local MD Hubs

Govern global data on global MD Hub and application data on local systems



- 1 Maintain global data via MDG on Global MD Hub
- 2 Replicate global data to local systems and other client systems
- 3 Maintain application data via MDG on local systems
- 4 Replicate global and application data to connected client systems

# Integration Scenarios

- Integration with Supplier Lifecycle Management (SAP-SLC)
- Integration with Customer Relationship Management (SAP-CRM)
- Integration with SAP Sales Cloud
- Integration with SAP Ariba Supplier Lifecycle and Performance
- Integration with Business Partner Screening (SAP-BPS)
- Global & local MD Hubs
- **Technique**

# Integration Scenarios: Technique

Interfaces for Data Replication and Data Load

## Data Replication of BP / Customer / Supplier data via SOA Service

- Replicate BP data BusinessPartnerSUITEBulkReplicateRequest
- Return (lack of) success BusinessPartnerSUITEBulkReplicateConfirmation
- Replicate BP Relationships BusinessPartnerRelationshipSUITEBulkReplicateRequest
- Return (lack of) success BusinessPartnerRelationshipSUITEBulkReplicateConfirmation

## Data Replication / Data Load via ALE

- Replicate ERP Vendors CREMAS / ADRMAS
- Replicate ERP Customers DEBMAS / ADRMAS /ADR2MAS / ADR3MAS
- Replicate Business Partner BUPA\_INBOUND\_MAIN\_SAVE
- Replicate BP Relationships BUPA\_INBOUND\_REL\_SAVE
- Load ERP Vendors CREMDM
- Load ERP Customers DEBMDM

# Integration Scenarios: Technique

## Interfaces for Client Maintenance

### Client Maintenance

- Search BP on MDG Hub      BusinessPartnerBasicDataByElementsQueryResponse\_In (synchronous)  
MDG\_BS\_BP\_SEARCH (RFC)
- Copy BP from MDG Hub      BusinessPartnerSUITEReconciliationRequestConfirmation\_In (synchronous)  
MDG\_BS\_BP\_DRF\_EXTRACT\_READ (RFC)
- Replicate changes to MDG      Use SOA Services for Data Replication (see previous slide)  
Configure MDG Hub to create Change Request with incoming data  
(see Configuration Guide for MDG-S / MDG-C)

### Key Mapping

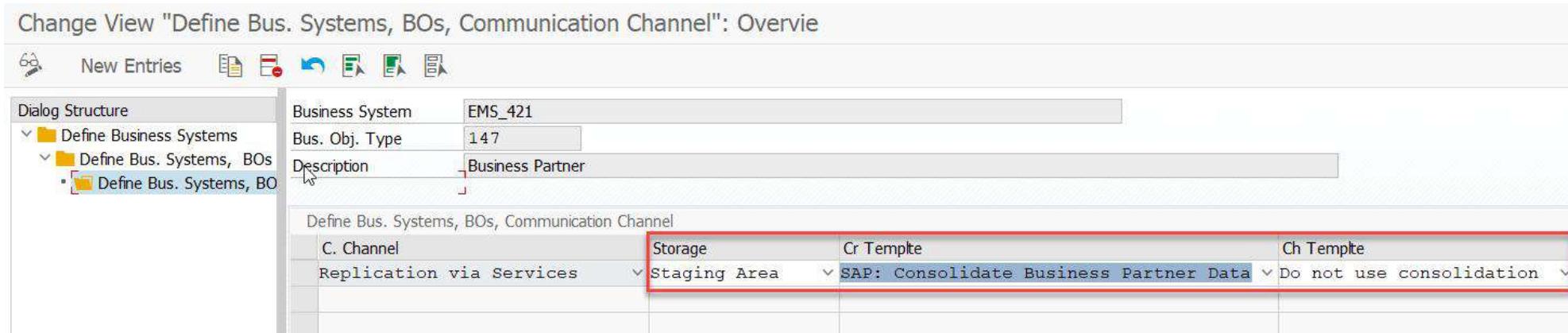
- Read MDG key mapping      KeyMappingBulkReplicateRequest\_Out  
KeyMappingBulkReplicateConfirmation\_In  
MDG\_ID\_QUERY\_MATCHING (RFC)

# Integration Scenarios: Technique

Configure MDG Hub for Client Maintenance via SOA Service

## MDG to generate Change Request / Consolidation Run for inbound SOA Services

- Call IMG for Data Replication Framework (transaction DRFIMG)
- Choose Data Replication à Define Custom Settings for Data Replication à Define Technical Settings à Define Technical Settings for Business Systems
- Select client system and choose *Define Bus. Systems, BOs*
- Select BO Type 147 (Business Partner) and choose *Define Bus. Systems, BOs, Communication Channel*
- Change field *Storage* (Staging Area for Change Request) and *Create / Change Template* (for Consolidation)



## Assign relevant Change Request Type to Business Activities BPPI / BPPU

# **Agenda**

Introduction

SAP Master Data Governance Capabilities

Function in Detail

Integration Scenarios

**Solution Benefits**

# SAP Master Data Governance

Consistent high-quality master data for your entire organization

SAP Master Data Governance is a **state-of-the-art master data management application**, providing **preconfigured**, domain-specific master data governance to **monitor and remediate** eventual data quality issues, to **centrally create, change, and distribute**, or to **consolidate** master data across your **complete enterprise system landscape**.

There are **two versions: SAP Master Data Governance on SAP S/4HANA and SAP Master Data Governance** (technically on SAP ERP 6.0).

## Central governance or consolidation for consistent master data

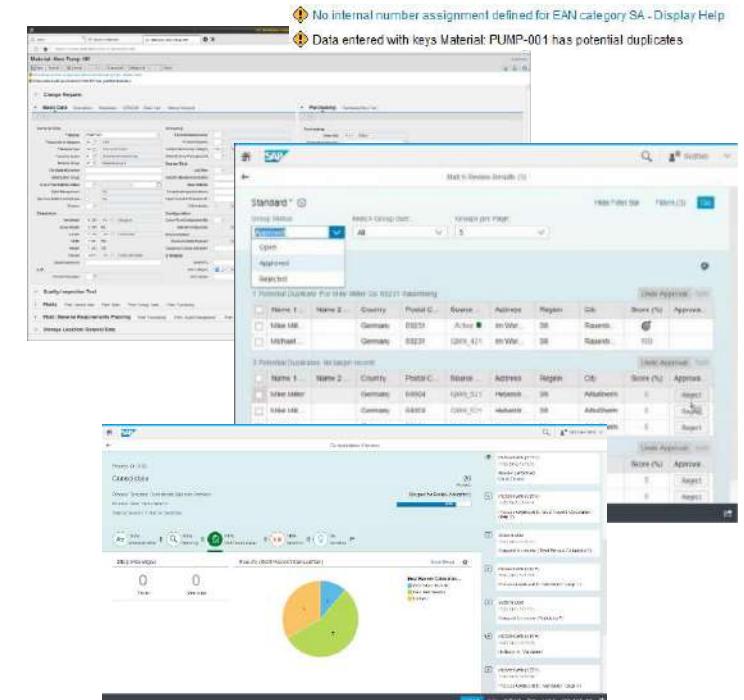
- § Enables centralized governance, compliance, and transparency of master data during creation and change through integrated staging, approval, and central audit trail
- § Delivers consistent definition, authorization, and replication of key master data entities
- § Eliminates error-prone manual maintenance processes for master data in multiple systems
- § Supports consolidation of decentralized master data in any enterprise system landscape to create best records and key mapping between duplicates
- § Optionally combines consolidation with central governance for sustained master data quality

## Data quality

- § Analyze process quality, manage and monitor data quality, and optionally integrate with SAP HANA smart data quality, or SAP Data Services for quality, enrichment, and remediation

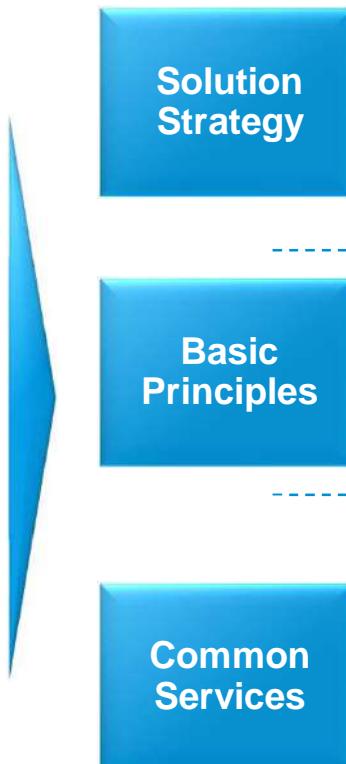
## Integration and reuse

- § Native integration and openness to integrate 3rd-party services
- § Reuse of SAP data model, existing business logic, and configuration for data validation
- § Open application to manage your own master data flexibly also for non-SAP environments



# SAP's Understanding of a State-of-the-Art Master Data Governance Solution

Ensure  
Master Data  
Governance



- Deliver process-centric solution
  - Workflow closely integrated into a framework for defining business rules
  - Full integration to SAP systems and integration services for non-SAP systems
  - Deliver roles on a Web-based UI
  - Deliver a Data Model proven by several applications & industries
  - Reuse of existing processing logic and out-of-the box data replication mechanisms
- 
- User-centricity: Central work center for the maintenance of materials
  - Governance: Change requests with built-in approval process
  - Workflow: standardized but flexible processes incl. rules management and tracking
  - Architecture: Staging area to maintain inactive versions of material data
- 
- Search & Display
  - Create, Change, Multi-Record Processing, Mass Change, Parallel Change Requests, Mark for Deletion
  - Worklists (My Change Request, Display Change Requests, Change Documents)
  - Duplicate Check
  - Data Replication with Key Mapping and Value Mapping
  - File Upload / Initial Load
  - Extensibility of Data Model & User Interface
  - Deployment on top of operational SAP system or as standalone hub

# **Appendix: Customer Connection and Downport**

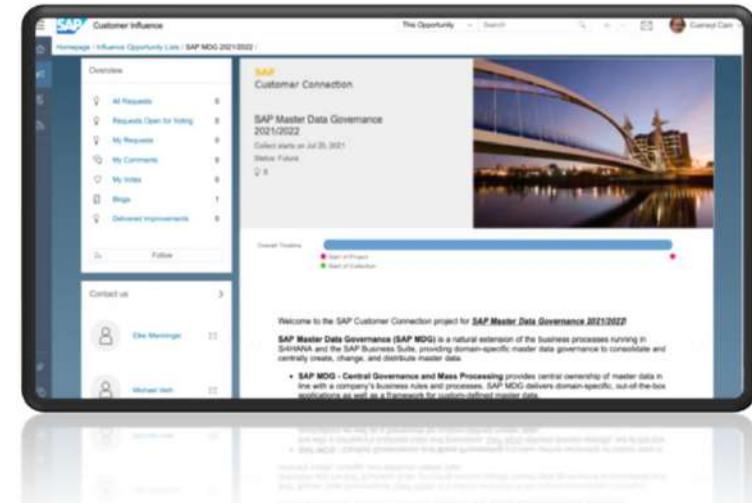
# Contribute – Visit the SAP Customer Influence site:

The **SAP Customer Influence site** gathers all existing influencing opportunities in one single entry channel:

- § To participate, first **create your user account** to logon and activate Single-Sign-On for easy access (Get started with instructions [here](#)).
- § Define your “**area(s) of interest**” [here](#) by clicking the **follow** button. You will receive regular email **updates** and **notifications** on topics within the chosen area(s). You can edit your choices anytime.
- § Get active by **searching & voting** for or commenting on the already existing improvement request(s) from which your company would benefit, or start **submitting your own improvement requests**.
- § Navigate using the filter bar on the left to select SAP Customer Connection project(s) ([here](#)) or other influencing type, by product, LOB...or use free text search bar on top of screen.

Visit now the  
landing page for SAP MDG  
2021/2022

<https://influence.sap.com/go/mdg2021>



<http://influence.sap.com-mdg>  
<http://influence.sap.com-mdg2019>  
<https://influence.sap.com/go/mdg2020>

# Retrospective: All SAP MDG cycles so far in SAP Customer Connection

## Compared to earlier cycles

CC Projects (incl. links to landing page)	Scope	Start Collection	Start Selection	Start Development	Delivery Call	Deliveries
<a href="#"><b>SAP MDG</b></a> (for S/4HANA 1909)	SAP MDG, Central Governance, Mass Processing and Consolidation, all domains	May 8, 2018	June 30, 2018	Sep 18, 2018	June 12, 2019	<a href="#">25</a> Improvements
<a href="#"><b>SAP MDG 2019</b></a> (for S/4HANA 2020)	SAP MDG, Central Governance, Mass Processing, Consolidation and <i>Data Quality Management</i> , all domains	Apr 12, 2019	June 30, 2019	Sep 18, 2019	July 15, 2020	<a href="#">28</a> Improvements
<a href="#"><b>SAP MDG 2020</b></a> (for S/4HANA 2021)	SAP MDG, Central Governance, Mass Processing, Consolidation and Data Quality Management, all domains ( <i>same as 2019</i> )	July 29, 2020	Oct. 7, 2020	Dec 2, 2020	July 13, 2021	<a href="#">25</a> Improvements
<a href="#"><b>SAP MDG 2021/2022</b></a> (for S/4HANA 2022)	SAP MDG, Central Governance, Mass Processing, Consolidation and Data Quality Management, domains: Material, BP, FIN, Custom Objects	July 20, 2021	Oct. 08, 2021	Dec 08, 2021	Planned for July 2022	Not started yet



**Thank you** for the nice and successful collaboration throughout the time as well as your trust in us!



# Details and Demos about Improvements in S/4HANA 1909

ID	Title	Note/SP/Release	Lowest Releases
212430	<a href="#">MDG-BP: Improve error handling in the UI</a>	<a href="#">SAP Note 2765664</a>	From S/4HANA 1511 and from MDG 8.0
213216	<a href="#">Auto-resizing of columns in the MDG Duplicate pop-up screen</a>	<a href="#">SAP Note 2667744</a>	From S/4HANA 1511 and from MDG 6.1
212427	<a href="#">Workflow Tracker</a>	<a href="#">SAP Note 2765664</a>	From S/4HANA 1511 and from MDG 8.0
213090	<a href="#">End of Workflow</a>	<a href="#">SAP Note 2765664</a>	From S/4HANA 1511 and from MDG 8.0
212952	<a href="#">MDG: Out of the box application to search CRs by business data</a>	<a href="#">SAP Note 2765664</a>	From S/4HANA 1511 and from MDG 8.0



Demo for  
Google-Like Search in MDG  
Autoresize Duplicate Popup  
Additional Steps After Activation  
Change Request Tracker  
Follow-Up Change Request



Demo for  
Out-of-the-Box CR Search  
Improved Error Message Handling for MDG-BP/C/S  
Change Request Tracker

## Details about Improvements in S/4HANA 2020

ID	Title	Note/SP/Release	Lowest Releases
*	MDG-BP/C/S: Enhanced Data Model and UIs - General	Release	S/4HANA 2020
*	MDG-BP/C/S: Enhanced Data Model and UIs - Ratings & Creditworthiness	Release	S/4HANA 2020
*	MDG-C/S: Enhanced Data Model and UIs - Long Incoterms	Release	S/4HANA 2020
*	MDG-C: Enhanced Data Model and UI - Credit Scoring	Release	S/4HANA 2020
231082	<a href="#">MDG-BP: Central Delete / Block Message - Business Partner</a>	<a href="#">SAP Note 2888104</a> and <a href="#">SAP Note 2843946</a>	From S/4HANA 1610 and from MDG 9.0
231767	<a href="#">MDG-All: Change Request search improvement</a>	<a href="#">SAP Note 2888104</a> and <a href="#">SAP Note 2829640</a>	From S/4HANA 1511 and from MDG 8.0

(\*) improvement independent from Customer Connection

# Details about Improvements in S/4HANA 2021

ID	Title	Note/SP/Release	Lowest Releases
255133	<a href="#">Validation of VAT registration number of EU business partners in MDG</a>	SAP Note <a href="#">3085468</a>	As of S/4HANA 1909
*	MDG-C: Multiple Address Handling for Customer Master Data	Release	As of S/4HANA 2021
*	MDG-BP/C/S: Address-Independent Communication Data	Release	As of S/4HANA 2021
*	MDG-BP/C/S: Enhancements for Financial Services Business Partner	Release	As of S/4HANA 2021
252141	<a href="#">MDG-ALL: Reset /Recall Change request (again)</a>	SAP Notes <a href="#">3043582</a> , <a href="#">3018966</a>	As of S/4HANA 1809 and MDG 9.2
252206	<a href="#">Possibility to customize default Display option in "Display Change Documents"</a>	SAP Notes <a href="#">3043582</a> , <a href="#">3000012</a>	As of S/4HANA 1809 and MDG 9.2
252631	<a href="#">Have the operator 'is' operating as "is", not as "contains"</a>	SAP Notes <a href="#">3043582</a> , <a href="#">3036524</a>	As of S/4HANA 1809 and MDG 9.2
253984	<a href="#">Display of archived change documents (again)</a>	SAP Note <a href="#">2995802</a>	As of S/4HANA 1809 and MDG 9.2

(\*) improvement independent from Customer Connection

## **MDG Customer Connection SAP Notes**

Some of the new functions developed as a result of requests submitted during the Customer Connection for MDG require activating via custom business functions which are listed in the corresponding SAP notes.

2765664 - MDG Customer Connection 2018

<https://launchpad.support.sap.com/#/notes/2765664>

2888104 - MDG Customer Connection 2019

<https://launchpad.support.sap.com/#/notes/2888104>

3043582 - MDG Customer Connection 2020

<https://launchpad.support.sap.com/#/notes/3043582>

## Learn more

about SAP Master Data Governance

- ▶ [SAP Road Maps](#)  
(direct link: [SAP MDG in Roadmap Explorer](#))
- ▶ [SAP Community](#)
- ▶ [SAP User Groups](#)
- ▶ [SAP Customer Connection](#)  
(Projects: [MDG 2018](#), [MDG 2019](#), [MDG 2020](#), [MDG 2021/22](#))
- ▶ [SAP Master Data Governance on SAP.com](#)
- ▶ [SAP Master Data Governance Community](#)  
(recent strategy updates: [#mdgupdates2021](#))
- ▶ [SAP Master Data Governance Application Help](#)
- ▶ [Education for SAP Master Data Governance / SAP MDG Consultant Certification](#)



# Thank you.

Contact information:

**SAP Product Management**

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