SAP Master Data Governance

Central governance of Business Partner, Customer, and Supplier data

Based on SAP Master Data Governance on SAP S/4HANA 1709 / SAP Master Data Governance 9.1

March 2018

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Agenda

Introduction

Capabilities

Function in Detail

Integration Scenarios

Benefit from the Solution
Introduction
Introduction
What is Master Data

“Master data is the consistent and uniform set of identifiers and extended attributes that describes the core entities of the enterprise, such as customers, prospects, citizens, suppliers, sites, hierarchies, and chart of accounts.


“Every organization has master data, yet every organization's definition of what master data is, is different. And many organizations may have no or incomplete definitions of what master data is. Although there is no universal example of what constitutes master data, a common definition must be applied.

http://www.gartner.com/technology/it-initiatives/master-data-management.jsp
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

Average organization loses $8.2 million annually through poor data quality.”
- Gartner

50% to 70% of ERP implementations are reported as “challenged” in part to data integrity and/or data accuracy problems.”
- Adaptive Growth, Inc.
### Organizations & Roles

<table>
<thead>
<tr>
<th>Financials</th>
<th>IT</th>
<th>Sales</th>
<th>Supply Chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFO</td>
<td>CIO</td>
<td>(S)VP of Sales &amp; Marketing</td>
<td>VP of Supply Chain, VP of Planning</td>
</tr>
</tbody>
</table>

### Challenges

- Inconsistent financial master data across the enterprise
- Manual efforts to update financial master data in local financial systems
- Risk of non-compliance to IFRS, SOX etc.
- Slow group closes
- Lack of transparency about changes (Who, what, when, why?)
- High master data maintenance costs
- Need for multiple systems to manage master data in different domains
- Lack of flexibility in dynamic business environments
- Lack of consolidated view of customer data across all channels
- Customer transactions are compromised due to limited view of the facts
- Lack of transparency relating to suppliers and products
- High costs due to insufficient supplier selection and rationalization
- Loss of potential for benefit realization (i.e. discounts, conditions, central contracts)
- Limited availability of up-to-date master data in my business network
Introduction
Centrally govern and consolidate master data for your enterprise

SAP MDG on S/4HANA is a state-of-the-art master data mgmt 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governance</td>
<td>Enables governance, compliance and transparency of master data during creation and change through integrated staging, approval and central audit trail</td>
</tr>
<tr>
<td>Consistency</td>
<td>Delivers consistent definition, authorization and replication of key master data entities. Eliminates error prone manual maintenance processes for master data in multiple systems</td>
</tr>
<tr>
<td>Consolidation</td>
<td>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</td>
</tr>
<tr>
<td>Integration</td>
<td>Provides native integration in SAP solutions, incl. re-use of data model, business logic, and configuration for validation while offering openness to integrate 3rd party services</td>
</tr>
<tr>
<td>Flexibility</td>
<td>Open to extend the standard models and to create governance for your own master data and flexibly for non-SAP environments</td>
</tr>
<tr>
<td>Data Quality</td>
<td>Measure Process quality using SAP Smart Business and integrate with SAP Data Services &amp; SAP Information Steward for quality, enrichment, and data remediation</td>
</tr>
</tbody>
</table>
SAP Master Data Governance, Central Governance

Process flow

External Providers

SAP Master Data Governance

Maintain

Validate

Approve

Replicate

External Services

Re-use existing business logic, integrate external services for data enrichment, address cleansing, duplicate detection, …

Collaboration
Adaptable workflow
Auditable change process

Central maintenance of master data in staging area

Business Processes

Adaptation / enrichment in local systems
Introduction
Typical questions from LOB procurement/supply chain

• How can I maximize financial benefits (i.e. discounts, conditions, central contracts) through correct and complete supplier data?
• How can I improve my procurement decisions, i.e. supplier performance / evaluation, duplicates, spend analysis that falsify my view on my suppliers?
• How can I ensure high quality of my supplier data, in order to save costs and efforts in subsequent processes, i.e. shipping to the correct address, assigning the best source of supply?
• How can I reduce manual work through the need to maintain data in several systems?
• How can I get transparency on who has changed what, when and why?
• How can I establish a single source of truth for supplier master data in my multi-system environment?

• And … while accomplishing all that … how can I best leverage my investment in SAP?
Introduction

Master Data – A multitude of processes and facets

Is there one single person in your organization who knows all this?
Introduction

Typical questions from LOB Sales/Order-to-Cash

- How can I maximize financial benefits (i.e. discounts, conditions, central contracts) through correct and complete customer data?
- How can I have better visibility to make the right sales decisions, i.e. customer performance / evaluation, duplicates, sales activity that falsify my view on my customers?
- How can I ensure high quality of my customer data, in order to save costs and efforts in fulfillment and post-delivery processes, i.e. shipping to the correct address, debit from correct bank account or credit card, acquiring and creating accurate orders and contracts?
- How can I reduce manual work through the need to maintain data in several systems?
- How can I get transparency on who has changed what, when and why?
- How can I establish a single source of truth for customer master data in my multi-system environment to avoid the lack of integration?
- And … while accomplishing all that … how can I best leverage my investment in SAP?
Introduction

Master Data – A multitude of processes and facets

Contract Management and Pricing
Quotation and Inquiry Management
Sales Planning and Analysis
Order Processing
Order Fulfillment
Billing
Complaints and Returns

Central Customer Management

Is there one single person in your organization who knows all this?
Introduction
Goals for Central Governance of Business Partners

Strengthen Purchasing and Financials and Sales and Financials by enabling highest quality customer and supplier master data over the entire system landscape thereby optimizing their core business function.

- Single Entry Point to maintain supplier data
- Standardized Process to control data changes
- Standardized Tools for ensuring data quality
- Transparency on the data changes done (Who, When, What, Why)
- Data Flow Transparency within system landscape
- Get a Snapshot of all the supplier related activities
Capabilities
Typical approaches to master data management

Central governance and distribution/de-central ownership and consolidation

SAP Master Data Governance, consolidation
Consolidate master data into a single view for accurate analytics and operational insight (continuously or on request e.g. for initial load or mergers & acquisitions)

Enterprise master data

SAP Master Data Governance, central governance
Maintain master data in-line with business processes

Systems under central governance

LoB customer  LoB procurement  LoB finance  LoB PLM  Other LoB

Systems not under central governance

Legacy systems  Reporting and analytics  Business networks  Cloud

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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 fulfill 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 Fiori Launchpad
- Data model and business logic follow the best practices of SAP and reuse existing data structures, business validations and various services
Capabilities

Establish Best Quality Master Data to Optimize Business Processes

1. Deliver Out-of-the-Box
2. Integrated Object Model
3. Governance, Collaboration & Data Quality
4. Robust Data Replication
5. Re-Usability & Extensibility

SAP Master Data Governance
### Capabilities

#### 1. Deliver Out-of-the-Box

| Low TCO | Full Integration to SAP Systems as a client  
<table>
<thead>
<tr>
<th></th>
<th>Offer integration services for non-SAP client systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexibility</td>
<td>Workflow flexibility closely integrated to a framework for defining business rules</td>
</tr>
</tbody>
</table>
| 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 |
Provide a directory of Business Partners (organizations, persons, groups of persons). This 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).
The Entity type Business Partner is a generic application for business partner management (maintaining organizations, persons and groups of persons).

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

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

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

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

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

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

- Business Partners being 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

MDG-C

Customer specific data

MDG-BP

BP data

Vendor specific data

MDG-S
Capabilities

Integrated Object Model: Data Model MDG-BP

- Business Partner
  - Organization
  - Person
  - Group

- Address *
  - Phone
  - Fax
  - Email
  - URL
  - Address Versions

- Central Data
- Roles
- Bank Accounts
- Payment Cards
- Identification Numbers
- Tax Numbers
- Industry Sectors
- Address Details *
- Address Usages
- Relationships
- Contact Partners
- Workplace Address *

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Capabilities

Integrated Object Model: Data Model MDG-C

- Business Partner
  - Organization
  - Person
  - Group
- Address *
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  - Bank Accounts
  - Payment Cards
  - Identification Numbers
  - Tax Numbers
  - Industry Sectors
  - Address Details *
  - Address Usages
  - Relationships
  - Contact Partners
  - Workplace Address *
- ERP Customers

- General Data
- Documents
- Classification
- Texts
- Unloading Points
- Company Code Data
  - Dunning Areas
  - Withholding Tax Types
  - Texts
- Sales Area Data
  - Partner Functions
  - Texts
- Tax Indicators

ERP Customer specific data
Capabilities

Integrated Object Model: Data Model MDG-S

Business Partner
- Organization
- Person
- Group

Address *
- Phone
- Fax
- Email
- URL
- Address Versions

Central Data
- Roles
- Bank Accounts
- Identification Numbers
- Tax Numbers
- Industry Sectors
- Address Details *
- Address Usages
- Relationships
- Contact Partners
- Workplace Address *
- ERP Vendors

General Data
- Documents
- Classification
- Texts

Company Code Data
- Dunning Areas
- Withholding Tax Types
- Texts

Purchasing Organization Data
- Purchasing Org. Data 2
- Partner Functions
- Texts

ERP Vendors

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2 Capabilities

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.
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.
Can be adapted and tailored based on customer needs

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 separated repository, will be transferred to operational database after final approval

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

3 …and Data Quality

Prevent creation of duplicates for increased effectiveness and efficiency

- Checked early and embedded in the process
- High detection quality of matching using Enterprise Search or SAP Data Services

Validations

- Re-use of existing validation logic in S/4HANA
- Custom validations can be modeled and programmed (e.g. code lists, simple checks, or modeled rules via SAP BRF+)

Address Enrichment

- Simple check and selection lists
- Integration with content provided by SAP Data Services
- Automatically adding Tax Jurisdiction Code re-using existing interfaces / providers
Replication

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

Replication Techniques

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

Replication Features

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

5 Reusability & Extensibility

**Reuse standard content**
- Reuse existing data structures and functionality of SAP S/4HANA

**Enhance functionality**
- Be able to enhance MDG functionality based on predefined content (e.g. plant or sales data) or customer-specific extensions

**Extend data structures**
- Provide easy-to-use extensibility capabilities for enhancing nodes and fields
  - data models
  - user interfaces
  - processes
  - data replication
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 / ECC

- **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 / ECC (or pick one of their SAP S/4HANA’s / ECCs 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
Function in Detail
Function in Detail

Processes
User Interface
Business Partner Data
Data Quality
Data Replication
Client Maintenance
Cleansing
Processing of Multiple Objects
Hierarchies
Process Analytics
Data Protection
MDG for FI Contract Account
Function in Detail: Processes

When to Use Which Process?

- **Create**
  - Business Partner, Customer or Supplier does not exist for processing

- **Change**
  - Search successful and data is incorrect

- **Block / Unblock**
  - Business Partner, Customer or Supplier is no longer relevant for processes

- **Set Flag for Deletion**
  - Business Partner, Customer or Supplier needs to be deleted in the next archiving run
Function in Detail: Processes
Navigation to Create / Change Process

1. **Search**
   - Requestor
   - **Found**
     - ?
     - Yes: **Change Workflow**
     - No: **Create Workflow**
   - **Not Found**
     - **Requestor**
     - ?
     - Yes: **Change Workflow**
     - No: **Create Workflow**
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)

Central Data

Requestor
Create, change, Block, Set flag for deletion Central Data
Submit for Approval
Reject / Rework
Cancel Change Request

Master Data Specialist
Review central data
Approve
Activate data & Replicate
## Function in Detail: Processes

### Workflow Templates out-of-the-box

<table>
<thead>
<tr>
<th>Title</th>
<th>Process</th>
<th>WF Technique</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple workflow</td>
<td>Two step workflow</td>
<td>SAP Business Workflow (Supplier + Customer)</td>
</tr>
<tr>
<td></td>
<td>• starting with a requester and</td>
<td>Rule-based Workflow (Business Partner)</td>
</tr>
<tr>
<td></td>
<td>• completed by an approver also being allowed to change / enrich the data.</td>
<td></td>
</tr>
<tr>
<td>Distributed workflow</td>
<td>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.</td>
<td>SAP Business Workflow</td>
</tr>
<tr>
<td>Fiori workflow</td>
<td>Three step workflow with</td>
<td>Rule-based Workflow</td>
</tr>
<tr>
<td></td>
<td>• a requester maintaining a limited number of fields</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• a data steward changing / completing the data and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• another data steward to finally approve the data.</td>
<td></td>
</tr>
</tbody>
</table>
Support of Parallel Change Request
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: 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
Process Analytics
Data Protection
MDG for FI Contract Account
Function in Detail: User Interface
Landing Page 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
Function in Detail: User Interface
Landing Page for MDG on S/4HANA

Example: Customer

All relevant tasks reachable with one click
Easy to configure and personalize
Function in Detail: User Interface

Workflow Inbox
# Function in Detail: User Interface

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

<table>
<thead>
<tr>
<th>Title</th>
<th>Process</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BP-UI</strong></td>
<td>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.</td>
<td>WD-App: BS_OVP_BP BS_OVP_BP BS_OVP_BU BS_OVP_SP BS_OVP_BP_ALL</td>
</tr>
<tr>
<td><strong>ERP Customer / ERP Vendor like UI</strong></td>
<td>UI consisting of all data (central data as well as organizational data) of a customer or a supplier. Look &amp; feel very similar to ERP Customer / ERP Vendor UI in ERP standard.</td>
<td>WD-App: BS_OVP_BP BS_OVP_BU CL BS_OVP_SP_VL</td>
</tr>
<tr>
<td><strong>Specialized UIs for org. data</strong></td>
<td>UI for Sales, Purchasing, Financial specialists consisting of organizational data for one organizational unit.</td>
<td>WD-App: BS_OVP_BP BS_OVP_BU ORG BS_OVP_SP_ORG</td>
</tr>
<tr>
<td><strong>Fiori UIs</strong></td>
<td>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 application running on all devices.</td>
<td></td>
</tr>
</tbody>
</table>
Function in Detail: User Interface
UI Configurations: BP Maintenance UI
Goal: Support data maintenance in a way being very near to 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
Function in Detail: User Interface
UI Configurations: ERP Vendor-like UI

Goal: Support data maintenance in a way being very similar to 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
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
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
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
Function in Detail: User Interface

UI Configurations: Fiori UI, Lean Request for new Customer

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 still would like to request a new MDG Customer.
- Such a business user even being on the move may require a new Customer for his product. Rather than sending an email or phone call to 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

- Easy, simple and user friendly UI for a user having 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 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.

Facts & Figures

- Help Portal: Click here for help documentation.
- Role: A general business user.
- Target Segment: All employees even having no MDG or SAP knowledge.
- Functional and Technical Prerequisites: MDG 7.0 SP02.
- Device and Browser Support: Desktop, iPad, Smartphone, IE9, Chrome (check configuration guide for more details of support matrix).
Function in Detail: User Interface
UI Configurations: Fiori UI, Lean Request for new Supplier

Help Portal: Click here for help documentation
Role: A general business user
Target Segment: All employees even having no MDG or SAP knowledge
Functional and Technical Prerequisites: MDG 7.0 SP02
Device and Browser Support: Desktop, iPad, Smartphone, IE9, Chrome (check configuration guide for more details of support matrix)

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 still would like to request a new MDG Supplier
• Such a business user even being on the move may require a new supplier for his running project. Rather than sending an email or phone call to Master Data Expert, he/she can raise a request to create 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 a user having no master data expertise
• Provides a simple, easy to use and coherent experience across devices – desktop, tablet, or smartphone
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Function in Detail: User Interface
UI Configurations: Fiori UI, Lean Request for new Business Partner

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 still would like to request a new MDG business partner
- Such a business user even being on the move may require a new business partner for his project. Rather than sending an email or phone call to Master Data Expert, he/she can raise a request to create 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 a user having 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 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

Facts & Figures
- Help Portal: Click [here](#) for help documentation
- Role: A general business user
- Target Segment: All employees even having no MDG or SAP knowledge
- Functional and Technical Prerequisites: MDG 7.0 SP02
- Device and Browser Support: Desktop, iPad, Smartphone, IE9, Chrome (check [configuration guide](#) for more details of support matrix)
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
Function in Detail: User Interface
UI Configurations: Fiori UI, Lean Request for change of Customer (Change Data)

Same data available like in FIORI Lean Request for new Customer

Guided step-by-step UI to support unexperienced user

- **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
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
• Such a business user after raising the request for a new MDG master data would like to see the status of his/her request 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 a user having 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 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 here for help documentation
- Role: A general business user
- Target Segment: All employees even having no MDG or SAP knowledge
- Functional and Technical Prerequisites: MDG 7.0 SP02
- Device and Browser Support: Desktop, iPad, Smartphone, IE9, Chrome
  (check configuration guide for more details of support matrix)
Function in Detail: User Interface
UI Configurations: Fiori UI, Approve Customer

Approve New Customer

Approve Changed Customer
Function in Detail: User Interface

UI Configurations: Fiori UI, Approve Supplier

**Approve New Supplier**

- **Organization**: test / 69190 walldorf ($1688)
- **New Supplier**
- **To Be Considered and Approved**
- **Request**
- **Roles**
  - Business Partner Role
  - User (FLHNR)

**Approve Changed Supplier**

- **Organization**: test1 / 69190 walldorf (125291)
- **Changed Supplier**
- **To Be Considered and Approved**
- **Request**
- **Roles**
  - Name 1
  - Name 2
  - Title
- **Context Description**
  - New Value
  - Old Value
  - test
  - (Deleted) TEST
  - (Not Maintained)
Function in Detail: User Interface
Highlight Changes: Field changes

Highlight Saved Changes: Supports processor to decide about next action
Highlight Unsaved Changes: Provides information what can be “un-done”.
Saved changes and unsaved changes in two different colors.

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.
Function in Detail: User Interface
Highlight Changes: Table changes, Create / Update

Unsaved changes
1st account changed
2nd account created

Saved changes
1st account changed
2nd account created

Changes after save
1st account changed and saved
2nd account created, saved, and changed again
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.
Function in Detail: User Interface
Highlight Changes: Changes on Detail Pages

Change in vendor’s company code data...

Highlighted on first page
Propagated up to BP-level)
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.
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’

More information see note 2020896.
Function in Detail: User Interface

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

1. Press ‘Personalize’ button
2. Personalization popup appears

UI easy to configure and personalize
Function in Detail: User Interface
Flexible UI via Configuration / Personalization: Change layout

1. Multi column (up to 3) design
2. Change sequence
3. Stacked UIBBs (Tabs)
4. Expand / compress / suppress blocks
Function in Detail: User Interface
Flexible UI via Context Based Adaptations (CBA)

Integration of Context Based Adaptations:

- Pre-delivered CBA dimensions:

  - Examples of pre-delivered dimension usages:
    - ‘Category’ used for BP category specific attributes like name and e.g. birth date / marital status for persons
    - ‘Country’ is used for country specific address layout

  - CBA schema can be reused and enhanced with custom-defined dimensions
  - Delivered CBA schema can be substituted by custom-defined schema
  - Customizing: Configure Properties of Change Request Step, if the CBA is not used in the UI Configuration
Function in Detail: User Interface
Governance Scope - Deactivate Entity Types / Fields

Governance Scope
- Only parts of the data model shall be put under governance
- Entity types / fields can be excluded from governance
- Excluded entity types / fields
  • can not 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: User Interface
Integrate Additional Information via BCV Side Panel: Open Side Panel
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

- **Sales Overview**: Sales orders created for the current customer number.
- **Changes Overview**: Changes raised by the current MDG change request.
Function in Detail: User Interface
Integrate Additional Information via BCV Side Panel: Content for MDG Supplier

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

- **Purchasing Overview**: Purchase orders created for the current vendor number.
- **Changes Overview**: Changes raised by the current MDG change request.
Function in Detail

Processes
User Interface

**Business Partner Data**

Data Quality
Data Replication
Client Maintenance
Cleansing
Processing of Multiple Objects
Hierarchies
Process Analytics
Data Protection
MDG for FI Contract Account
Function in Detail: Business Partner Data

Data Model Business Partner

- Business Partner
  - Organization
  - Person
  - Group
- Address *
  - Phone
  - Fax
  - Email
  - URL
  - Address Versions
- Central Data
- Roles
- Bank Accounts
- Payment Cards
- Identification Numbers
- Tax Numbers
- Industry Sectors
- Address Details *
  - Address Usages
- Relationships
- Contact Partners
  - Workplace Address *
Function in Detail: Business Partner Data

Central Data

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 → Application Server → Basis Services → Address Management → International Settings → Choose Address Screen Layout
- Layout per user via user parameter ADDRESS_SCREEN
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 → SAP Business Partner → Business Partner → Basic Settings → Address Determination

Synchronization via CVI to ERP Customer / ERP Vendor

- Synchronize assigned address per ERP Customer / ERP Vendor
  → See slides about ‘Usage of Multiple Addresses’

<table>
<thead>
<tr>
<th>Actions</th>
<th>Changes</th>
<th>Address Type</th>
<th>Description</th>
<th>Address</th>
<th>Standard Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0002</td>
<td>Home Address</td>
<td>Hauptstr 11 / 69190 Walldorf, Baden</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0004</td>
<td>Holiday Home</td>
<td>Hohenbühlstr 10 / CH-8152 Opfikon</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>XXDEFAULT</td>
<td>Standard Address</td>
<td>Unter den Linden 11 / 10117 Berlin</td>
<td></td>
</tr>
</tbody>
</table>
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 note 316331, attached document

Maintain multiple versions per address

Configuration of Address Versions
IMG: SAP NetWeaver → Application Server
→ Basis Services → Address Management
→ International Settings → Activate International Address Versions

Synchronization with ERP Customer / ERP Vendor
- Synchronize all address versions per address
Function in Detail: Business Partner Data

BP Roles

Assign multiple roles per Business Partner

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 \(\rightarrow\) Master Data Synchronization \(\rightarrow\) Customer/Vendor Integration \(\rightarrow\) Business Partner Settings
    - Settings for Customer Integration \(\rightarrow\) Set BP Role Category for Direction BP to Customer
    - Settings for Vendor Integration \(\rightarrow\) Set BP Role Category for Direction BP to Vendor

<table>
<thead>
<tr>
<th>Roles</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actions</td>
<td>Changes</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Function in Detail: Business Partner Data

Bank Accounts

Multiple bank accounts per BP

Country-specific checks
- Bank ID and Bank Account Number
  SAP NetWeaver → General settings
  → Set Countries → Set Country-Specific Checks

Time-validity of Bank Accounts
- Fields can be added via Screen Configuration

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
Payment Cards

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 on 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
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
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 with tax numbers with more than 20 characters.

Data base for long tax numbers
- SAP Business Partner: Tax Number Category ending with ‘5’, data stored in DFKKBPTAXNUM-TAXNUMXL
- ERP Customer / ERP Vendor: data stored in new fields KNA1-STCD5 / LFA1-STCD5

<table>
<thead>
<tr>
<th>Actions</th>
<th>C.</th>
<th>*Tax Number Category</th>
<th>Description</th>
<th>Tax Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BR5</td>
<td>Brazil: Municipal Tax Number</td>
<td>BR1234567890123456789012345678</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DE0</td>
<td>Germany: VAT Registration Number</td>
<td>DE123456788</td>
</tr>
</tbody>
</table>
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 → SAP Business Partner → Business Partner → Organizations → 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 → Master Data Synchronization → Customer/Vendor Integration → Business Partner Settings
    → Settings for Customer Integration → Field Assignment for Customer Integration → Assign Attributes → Assign Industries
    → Settings for Vendor Integration → Field Assignment for Vendor Integration → Assign Attributes → Assign Industries
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
Function in Detail: Business Partner Data
BP Relationships, Add Relationship in UI

Add Relationship with **existing** BP
1. Press '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

Add Relationship with **new** BP
1. Press 'New' to add a new relationship
2. Select the relationship category
3. Press 'Create' and select category of related Business Partner
4. Enter data of related Business Partner and press 'Done'
5. Select relationship and maintain relationship data
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

<table>
<thead>
<tr>
<th>Actions</th>
<th>Relationship Category</th>
<th>Partner ID</th>
<th>Partner Description</th>
<th>Valid From</th>
<th>Valid To</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deta</td>
<td>Has Contact Person</td>
<td>115796</td>
<td>Matthias Schmitt / 69190 Walldorf</td>
<td>01.01.2015</td>
<td>31.12.2015</td>
<td></td>
</tr>
<tr>
<td>Deta</td>
<td>Has Contact Person</td>
<td>115911</td>
<td>Alfons Huber / 69254 Malsch</td>
<td>27.07.2015</td>
<td>31.12.9999</td>
<td></td>
</tr>
</tbody>
</table>
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 therewith optimize the usability.

User Interface
- New List UIBB for contact persons containing specific relationship information.
  Note: Generic Relationship List UIBB is still available.

Navigation to details UI, see next slide
Function in Detail: Business Partner Data
BP Relationships, Specialized UI for Contact Person Relationships

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

Data Model ERP Customer / ERP Vendor

- General Data
- Documents
- Classification
- Texts
- Unloading Points
- Company Code Data
- Dunning Areas
- Withholding Tax Types
- Sales Area Data
- Partner Functions
- Tax Indicators

ERP Customers

ERP Vendors

- General Data
- Documents
- Classification
- Texts
- Company Code Data
- Dunning Areas
- Withholding Tax Types
- Purchasing Organization Data
  - Different PurchOrg. Data
  - Partner Functions
  - Texts

ERP Customer specific data

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

<table>
<thead>
<tr>
<th>Standard address</th>
<th>Bill-to address</th>
<th>Payer address</th>
<th>Ship-to address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unter den Linden 11 10117 Berlin</td>
<td>Kirchenallee 34 20099 Hamburg</td>
<td>Europa-Allee 46 60327 Frankfurt</td>
<td></td>
</tr>
</tbody>
</table>
Function in Detail: Business Partner Data
Assign ERP Customers / ERP Vendors, One BP per Address

Business Partner
Three Business Partners required, one per address

ERP Customers
Relevant location for each process

Partner Functions (per Sales Area)
SP, BP, and PY by the same ERP Customer
For SH: link to other ERP Customer under deviating Business Partner
# Function in Detail: Business Partner Data

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

<table>
<thead>
<tr>
<th>Standard address</th>
<th>Bill-to address</th>
<th>Payer address</th>
<th>Ship-to address</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKC Germany</td>
<td>CKC Germany</td>
<td>CKC Germany</td>
<td>CKC Germany</td>
</tr>
<tr>
<td>Unter den Linden 10117 Berlin</td>
<td>Kirchenallee 34 20099 Hamburg</td>
<td>Europa-Allee 46 60327 Frankfurt</td>
<td>Unter den Linden 10117 Berlin</td>
</tr>
</tbody>
</table>

## 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

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 being assigned explicitly

3. Partner Functions (per Sales Area)
Maintain partner functions on 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 only can be referred within Partner Functions. Eventually process will have to be split into two consecutive Change Requests.
Function in Detail: Business Partner Data

General Data (Customer and Vendor)

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
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 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)

User Interface

1. Multiple documents can be assigned per ERP Customer / ERP Vendor.
2. Documents as well as links are stored in 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 the same page
  - Users should not see a difference between normal attributes and classification
  - More usable UI, possibility to adapt the UI

- **Function-related feedback**
  - Integration of derivations is 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 MDG on 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 backend 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

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

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. **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 → Classification System)
- based on master data of classification system to e.g. maintain characteristics and classes (see SAP Menu under Cross-Application Components → 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 customer and ERP vendors for different text types and for different languages.

Texts are available for

– ERP Customers on general level as well as on company code and sales area level
– ERP Vendors on general level as well as on company code and purchasing organization level

Configuration of Text IDs within IMG activities known from ERP Customer / ERP Vendor
Multiple unloading points can be maintained per ERP Customer. One can be marked as standard.

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.

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
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
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
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

Data will be stored in tables KNBW / LFBW during activation

Replication via ALE and SOA Service


ERP Customer Company Code: Extended Withholding Tax Types

<table>
<thead>
<tr>
<th>Actions</th>
<th>Changes</th>
<th>Withholding Tax Type</th>
<th>Withholding Tax Type Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details</td>
<td>IF</td>
<td>Fumrural</td>
<td></td>
</tr>
<tr>
<td>Details</td>
<td>IP</td>
<td>FCPS</td>
<td></td>
</tr>
</tbody>
</table>

Extended Withholding Tax Type

<table>
<thead>
<tr>
<th>* Withholding Tax Type</th>
<th>Withholding Tax Identification Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IF</td>
<td>12458780</td>
</tr>
</tbody>
</table>

Withholding Tax Code

<table>
<thead>
<tr>
<th>Withholding Tax Code</th>
<th>Withholding Tax Identification Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD</td>
<td>2.3% - Farmer with CPF</td>
</tr>
</tbody>
</table>

Indicator Withholding Tax Agent

<table>
<thead>
<tr>
<th>Indicator Withholding Tax Agent</th>
<th>Withholding Tax Identification Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.3% - Farmer with CPF</td>
</tr>
</tbody>
</table>

Withholding Tax Obligated Until

<table>
<thead>
<tr>
<th>Withholding Tax Obligated Until</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-12-2019</td>
</tr>
</tbody>
</table>

Exemption Details

<table>
<thead>
<tr>
<th>Exemption certificate no.</th>
<th>Exemption start date</th>
<th>Exemption end date</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/23/2014</td>
<td>01-08-2017</td>
<td>31-12-2017</td>
</tr>
</tbody>
</table>

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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
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 → Basic Functions → Partner Determination → Set Up Partner Determination

Data will be stored in tables KNVP during activation

Replication via ALE and SOA Service
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

<table>
<thead>
<tr>
<th>Actions</th>
<th>Changes</th>
<th>Country</th>
<th>Country Description</th>
<th>Tax Category</th>
<th>Tax Category Description</th>
<th>Tax Classification</th>
<th>Tax Classification Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DE</td>
<td>Germany</td>
<td>MWST</td>
<td>Output Tax</td>
<td>1</td>
<td>Liable for Taxes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GB</td>
<td>United Kingdom</td>
<td>MWST</td>
<td>Output Tax</td>
<td>0</td>
<td>Tax Exempt</td>
</tr>
</tbody>
</table>
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 (V_KNA1_VKO) supported

Data will be stored in tables LFM1 during activation

Replication via ALE and SOA Service
Function in Detail: Business Partner Data
Different Purchasing Organization Data (Vendor)

Multiple records per assigned ERP Vendor / Purchasing Organizations

Record can be dependent of 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 on general data level (table WYT1)
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 of ‘Different Data’
- Plant
- Vendor Subrange
- Combination of Plant / Vendor Subrange

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

Data will be stored in table WYT3 during activation

Replication via ALE and SOA Service

![ERP Vendor Purchasing Organization: Partner Functions](image)
Function in Detail

Processes
User Interface
Business Partner Data

**Data Quality**
Data Replication
Client Maintenance
Cleansing
Processing of Multiple Objects
Hierarchies
Process Analytics
Data Protection
MDG for FI Contract Account
Search – First Step to Data Quality

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

Several Flavors Supported via Search Provider Concept

Standard providers:
- DB-based search
- Enterprise Search
- Fuzzy search via BAS-DES (e.g. SAP Data Quality Management)
- Hana Search
Function in Detail: Data Quality
Search Capabilities

Consistent search UI containing all search capabilities

- Search methods easy to configure, more search methods can be added
- Search for hits within active and inactive data
- Result can be downloaded to Excel
- Result list can be personalized
Function in Detail: Data Quality

Search Options

- Drop-down lists of available fields and operators for search
- Fuzzy (error-tolerant) search, if supported by search provider
- Add and remove search parameter (AND combination of multiple parameters)
- Search criteria can be saved using a descriptive name for quick and easy re-use
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
HANA Fuzzy Search

All Business Partner data is stored within HANA

Error Tolerant search

Hit List contains ranking and is sorted by ranking

Search types
- Additional search provider within MDG with search fields / hit list
- Search via drill down search
Function in Detail: Data Quality
HANA Fuzzy Search capabilities

Search terms and attribute-based search
- Using a single term “free-style search” against all attributes
- Search per attribute with dedicated thresholds

Calculated similarity rank
- For each positive hit, HANA Fuzzy Search calculates a similarity score weighted across all attributes
Function in Detail: Data Quality
Duplicate Check, Validations, Address Enrichment

Prevent creation of duplicates for increased effectiveness and efficiency
- Checked early and embedded in the process
- High detection quality of matching using Enterprise Search or HANA based search

Validations
- Re-use of existing validation logic in S/4HANA
- Custom validations can be modeled and programmed (e.g. code lists, simple checks, or modeled rules via BRF+)

Address Enrichment
- Simple check and selection lists
- Integration with content provided by SAP Data Services
- Automatically adding Tax Jurisdiction Code re-using existing interfaces / providers
Prevent users from creating redundant master data

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

Help users to decide if duplicates exist

- Similarity score used to identify and sort potential duplicates
Function in Detail: Data Quality
Validations via BRFplus

For general information on how to work with BRFplus, see

- SAP Help Portal ➔ Search for “Business Rule Framework plus”
- SAP Documentation
Function in Detail: Data Quality
Framework for Data Enrichment Spots

Data Enrichment Spots
- Flexible framework to define enrichment spots
- Is used by SAP for e.g. Address Validation / Enrichment and will be used for further spots in future
- Can be used by customers to define further enhancement spots (e.g. D&B services)
Function in Detail

Processes
User Interface
Business Partner Data
Data Quality

**Data Replication**
Client Maintenance
Cleansing
Processing of Multiple Objects
Hierarchies
Process Analytics
Data Protection
MDG for FI Contract Account
Function in Detail: Data Replication

Overview

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

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

Replication Features
- Flexibility to replicate selected data only to a specific client system by defining filters (controlled by DRF)
- Support of different object IDs or customizing keys between hub and client systems (via mapping in MDG or PI)
- Monitoring and error handling
Function in Detail: Data Replication
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 systems available
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 → General Settings → Process Modeling → Change Requests → Create Change Request Type
Function in Detail: Data Replication
Replication with SAP-CRM via SOA- Service, Scope

Business Partner data
- General data
- Addresses
- Bank Accounts
- etc.

Business Partner Relationships

General customer data
- Sales data
- Shipping data
- Pricing data
- Tax Indicators
- Partner Functions
Function in Detail

Processes
User Interface
Business Partner Data
Data Quality
Data Replication

**Client Maintenance**
Cleansing
Processing of Multiple Objects
Hierarchies
Process Analytics
Data Protection
MDG for FI Contract Account
Function in Detail: Client Maintenance
Process Steps

1. Search from client system
   1. Requestor searches customers / suppliers from the client
   2. Hit list contains entries of the hub and the client

2. Copy from hub to client system
   1. Hit list contains entry currently only available on hub system
   2. Requestor needs this customer / supplier also on the client
   3. Requestor requests copying the same from the hub to the client

3. Change on the client system
   After copying, requester can process changes on the customer / supplier copied from the hub

4. Transfer changes to hub
   1. The changes done on client are then transferred to the hub
   2. Governance workflow is executed
   3. After final approval the changes are replicated to all client systems
Function in Detail: Client Maintenance
Client Maintenance ERP Customer: Search on Hub & Copy From Hub

1. **Search from client system**
   1. Requestor searches customers from the client
   2. Hit list contains entries of the hub and the client

2. **Copy from hub to client system**
   1. Requestor requests copying the same from the hub to the client
Function in Detail: Client Maintenance
Maintenance on Hub & on Client can be Used in Unison

Maintenance on MDG Hub

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

Maintenance on Client

- 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

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Data Protection
MDG for FI Contract Account
Function in Detail: Cleansing

Overview

Identifying Duplicates

Cleansing Case

Merge
Function in Detail: Cleansing
Identifying Duplicates

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

Within MDG duplicates can be identified during
- Search (within search result list)
- Single object maintenance (duplicate check)

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

Hereby 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 „Target Record“ directly.

As result of the merge process a workflow process will be triggered.
Function in Detail

Processes
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Data Replication
Client Maintenance
Cleansing

Processing of Multiple Objects
Hierarchies
Process Analytics
Data Protection
MDG for FI Contract Account
Function in Detail: Processing of Multiple Objects
Multi-Record Processing and Mass Processing

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
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
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
Enables mass changes for all attributes

Process Steps
- Define fields to be changed
- Define records to be changed
- Manually edit data to be changed
- Validate data against business rules
- Activate data changes

For more information, see separate presentation on Mass Processing
Function in Detail: Processing of Multiple Objects

Consolidation

Process steps

- Enables to enrich and standardize data.
- Identify and merge duplicate records.
- Validate records and activate on Database.
- Replicate records to client systems.
- Process erroneous records with Central Governance.

For More information, see separate presentation on Consolidation.
Function in Detail

Processes
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Cleansing
Processing of Multiple Objects

Hierarchies
Process Analytics
Data Protection
MDG for FI Contract Account
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 an easy identification of the relevant parent node.
Function in Detail

Processes
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Client Maintenance
Cleansing
Processing of Multiple Objects
Hierarchies

Process Analytics
Data Protection
MDG for FI Contract Account
Function in Detail: 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
Process insight with SAP HANA-based analytics

Check SLA compliance

Feature description

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

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

Processes
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Hierarchies
Process Analytics

**Data Protection**
MDG for FI Contract Account
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
  - 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

Logging read access to certain personal data is a data protection related requirement which is solved in SAP Business Suite with SAP NW Read Access Logging. A configuration example is now available for SAP MDG.

- Web Dynpro UI: Log access on
  - Bank Accounts
  - Payment Cards
  - Change Documents

- SOA replication: Log access on
  - Bank Accounts
  - Payment Cards

- Gateway Services (FIORI UI): Log access on
  - Bank Accounts
Function in Detail

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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.; more and more 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

- Define, for each business partner, 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

Contract Account

- Header Data
- Tax Exemptions
- Business Partners

Partner Specific Data

- Correspondence Recipients
- Locks
- Texts

Charges & Discounts
(Activation via Extensibility)
Function in Detail: MDG for FI Contract Account
User Interface, Launchpad & Search

Launchpad

Search Screen
Search via Contract Account or BusPartner data
Function in Detail: MDG for FI Contract Account
User Interface, Data Maintenance

Header Data

Partner Specific Data
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


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 consists 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
Planned functionality: Not part of this delivery but planned for future deliveries!

Data Replication via SOA-Services
- Currently replication via CRM-MW available only, cannot be used for replication from MDG Hub to SAP-ERP systems and Non-SAP systems
- Development of SOA replication services planned
  - Replication message
  - Confirmation message
- Data Load from ERP system to MD Hub via SOA-Services

Client Maintenance
- Enable Client Maintenance for Contract Accounts in MDG; incoming data can be
  - Activated directly or
  - Governed via a Change Request
- Client Maintenance of incoming Business Agreements from SAP-CRM (Hybris Billing)

Planned changes
- Maintain planned changes for Contract Accounts in MDG-UI
Integration Scenarios
Integration Scenarios

Integration with Supplier Lifecycle Management (SAP-SLC)
Integration with Customer Relationship Management (SAP-CRM)
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

- Strategic Supplier Mgmt
- Enhanced Supplier Data Mgmt
- Data Validation
- Duplicate Checks
- Supplier Data Distribution
- Approval Processes in BE
- Integration into Backend

SLC
MDG-S
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 are 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
   ➔ send supplier to MDG Hub & create a Change Request
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 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 ECC

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 ECC

Good to know
- MDG has to run in operational S/4HANA connected with CRM
- CRM-MW has to be configured in a way that BP with role ‘Customer’ only are replicated to S/4HANA
- BP with customer role is created / changed in Operational S/4HANA before MDG change request is created (with activity Change)
- 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 ➔ replicate to MDG Hub via SOA Service, create a Change Request 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

Good to know

- All BP data (Central, Sales and Financials) can be governed within MDG Hub.
- Scenario requires several project specific coding / configuration, recommendations are described within a How-to-Guide (to be published in SCN soon).
  Scenario was tested by MDG Development. However -like always- project specific coding / configuration is in responsibility of the project.
- 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 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?

- Denied party
- Politically exposed person
- Adverse Media
- No Hit
- No Business
- High risk: Enhanced Due diligence
- Moderate risk: Due diligence
- Business o.k.

Some examples:
- US Denied party lists
- DFAT (Australia)
- METI (Japan)
- Consolidated list (EU)

Some examples:
Integration Scenarios: Business Partner Screening (SAP-BPS)

Why to 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.


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.


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.


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.

Integration Scenarios: Business Partner Screening (SAP-BPS)

Multiple country specific sanctioned party lists

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

Digitized world increasing the risk of partner compliance

- Web shops leading to massive increase in number of Business partners
- Web shops ships globally and they need to know whom they are dealing with
- Businesses need unprecedented agility and flexibility from systems
- Technology should enable integrating new systems much quicker
Integration Scenarios: Business Partner Screening (SAP-BPS)
Address Screening Solutions today

Too many false positives
Costly interfaces
Mass Screening Requirements
Growing legal requirements
Integration Scenarios: Business Partner Screening (SAP-BPS)

SAP Business Partner Screening - Vision

- Handle Alerts Efficiently
- Empower the business
- Integrate quickly
Integration Scenarios: Business Partner Screening (SAP-BPS)
Achieve effective and efficient partner screening!

Monitor performance through dashboards, reports and KPI’s

Manage alerts efficiently

SAP HANA

Operationalize

Analyze Performance

Set-Up & Optimize

Manage Data

Resolve Alerts

Execute mass and real-time screening and stop suspicious business transactions

Manage restricted party lists and master data

Define screening strategies and optimize using calibration

(*) Can be performed with SAP HANA studio, SAP InfiniteInsight (optional) or 3rd-party tools
Integration Scenarios: Business Partner Screening (SAP-BPS)

Key points to take home

- Comprehensive screening capabilities to identify denied parties and politically exposed parties
  - Manage 100s of restricted party lists from authorities worldwide including Fuzziness, Aliases, Exclusion Terms, Initials, Addresses, ....

- Real-time screening powered by SAP
  - Screen high volume businesses in time-sensitive environments with direct business process integration

- Leverage the power of HANA to achieve the highly accurate results minimizing false positive hits
  - What-if analysis to adjust balance of both operational and compliance risks
Integration Scenarios: Business Partner Screening (SAP-BPS)

Three Scenarios

1) Decision in MDG
- Screening results showed as pop-up 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

Details about integration can be found in note 2326544

3) Decision in BPS
- Results from screening interpreted in MDG via customizing
- No further actions by a MDG specialist
Integration Scenarios: Business Partner Screening (SAP-BPS)
MDG-C process to Create Customer as is w/o SAP-BP Screening

Central Data
- Requestor
  - Maintain
    - Central Data
    - Comp.Codes
    - Sales Areas
  - Submit for Approval
  - Reject / Rework
  - Cancel Change Request
- Master Data Specialist
  - Review central data
  - Approve
- Sales Specialist
  - Maintain sales area data
  - Review sales area data
  - Approve
  - Reject / Rework
- Financial Specialist
  - Maintain company code data
  - Review company code data
  - Approve
  - Reject / Rework

Sales Area Data
- Approve
- Activate data & Replicate

Company Code Data
Integration Scenarios: Business Partner Screening (SAP-BPS)

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

- **Central Data**
  - Requestor: Submit for Approval
  - Master Data Specialist: Review central data, check against sanctioned party lists
  - MD Specialist executes screening within UI

- **Company Code Data**
  - Requestor: Cancel Change Request
  - Master Data Specialist: Review company code data, maintain company code data
  - MD Specialist executes screening within UI

- **Sales Area Data**
  - Requestor: Reject / Rework
  - Sales Specialist: Review sales area data, maintain sales area data
  - Sales Specialist: Approve
  - Financial Specialist: Review company code data, maintain company code data

- **Integration Scenarios: Business Partner Screening (SAP-BPS)**
  - 1) Decision in MDG (Screening by Master Data Specialist)
Integration Scenarios: Business Partner Screening (SAP-BPS)

1) Decision in MDG (Screening by Master Data Specialist, guidance by Screening Expert)

**Central Data**
- Reject / Rework
- Submit for Approval
- Cancel Change Request

**Requestor**
- Maintain
  - Central Data
  - Comp.Codes
  - Sales Areas

**Master Data Specialist**
- Review central data
  - Validate address hit
    - No hit ➔ Approve CR
    - Hit in sanctions list: Reject CR
    - Hit in other list: Ask Screening Specialist for Guidance

**Screening Expert**
- Guide Master Data Specialist in case of hit in a non-sanctions list

**Sales Specialist**
- Maintain sales area data

**Financial Specialist**
- Maintain company code data

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

1) Decision in MDG (Screening by Master Data Specialist, guidance by Screening 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: Business Partner Screening (SAP-BPS)

User Interaction

Compliance Check

- Screening automatically executed in process steps being activated.
- Popup appears in case of suspicions; user can decide about hit / no hit.
- Hits are protocolled within BP Screening.
- User is free how to continue CR process independent of decision about hit / no hit.
Integration Scenarios: Business Partner Screening (SAP-BPS)

Alerts in BPS

Alerts

- Most important information available in list format
- For alert details user can drill down. Detail page contains information about detection method, risk score, evaluation result, and parameters of the evaluation.
Integration Scenarios: Business Partner Screening (SAP-BPS)

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

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.

No hits found by automatic screening or Compliance Expert ranked potential hits as false positive then continue with Change Request

Automatic screening finds potential hits. Forward to Compliance Expert for further investigation.

Compliance Expert confirms hits, details the criticality and forwards the Change Request to the Master Data Specialist for business decision

Master Data Specialist releases BP for business despite approved hits

Master Data Specialist rejects creation of BP and asks requestor to cancel Change Request. Master Data Specialist asks requestor for reworking of data.

Master Data Specialist cancels Change Request because of e.g. critical hit on sanction list.
Integration Scenarios: Business Partner Screening (SAP-BPS)

3) Automatic screening: Business Decision by Compliance Expert

1. No hits found by automatic screening or Automatic Interpretation of BPS Results ranks potential hits as false positive or uncritical and releases Change Request for business.


3. Compliance Expert reviews potential hits and defines result (hit / no hit and relevant list). Forward to Automatic Interpretation of BPS results for decision about follow-up action.

4. Automatic Interpretation of BPS results rejects creation of BP for business and asks requestor to cancel Change Request or rework the data:

5. Automatic Interpretation of BPS results cancels Change Request because of e.g. critical hit on sanction list.
Integration Scenarios

Integration with Supplier Lifecycle Management (SAP-SLC)
Integration with Customer Relationship Management (SAP-CRM)
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 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 RelShips 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 CREMMDM
- Load ERP Customers DEBMDM
Integration Scenarios: Technique
Interfaces for Client Maintenance

Client Maintenance

– Search BP on MDG Hub
  BusinessPartnerBasicDataByElementsQueryResponse
  BusinessPartnerBasicDataByElementsQuery
  MDG_BS_BP_SEARCH (RFC)

– Copy BP from MDG Hub
  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 w/ incoming data
  (see Configuration Guide for MDG-S / MDG-C)

Key Mapping

– Read MDG key mapping
  MDG_ID_QUERY_MATCHING (RFC)
Integration Scenarios: Technique
Configure MDG Hub for Client Maintenance via SOA-Service

MDG to generate Change Request for incoming SOA-Services
- Call IMG for Data Replication Framework (transaction DRFIMG)
- Choose Data Replication → Define Custom Settings for Data Replication → Define Technical Settings → 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 Replication Data’ to ‘Staging Area’

Assign relevant Change Request Type to Business Activities BPPI / BPPU
Benefit from the Solution
Benefit from the solution
Need for MDG-S and MDG-C: Solutions Provided

- Single Point of Access (Role Based) via Portal or NWBC
- Single Entry Point to maintain data
- Transparency on the data changes done (Who, When, What, Why)
- Change Documents, Change Request Process integrated into UWL & Workflow
- Standardized Process to control data changes
- Workflow based process – Flexible & Adaptable
- Get a Snapshot of all the supplier related activities
- Process Analytics (planned)
- Data Flow Transparency within system landscape
- Monitor for Data Replication, ID mapping, key mapping & client side ID mapping
- Standardized Tools for ensuring data quality
- Duplicate Check, Data Validation & Enrichment, Merging & Cleansing (planned)
Benefit from the solution
SAP’s understanding of state-of-the-art master data governance

- Deliver process-centric solution
- Workflow closely integrated to a framework for defining business rules
- Full Integration to SAP Systems and integration services for non-SAP
- Deliver roles on a web based UI
- Deliver a Data Model proven by several applications & industries
- Reuse of existing processing logic
- 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, Mass Change, Mark for Deletion
- Work lists (My Change Request, Display Change Requests, Change Documents)
- Duplicate Check
- Key- and Value-Mapping
- Data Replication
- File Upload / Initial Load
- Extensibility of Data Model & User Interface
- Deployment on top of operational ERP or as standalone hub
Benefit from the solution
Benefits Through SAP Master Data Governance

Up-front, central creation of master data enables high data quality and leads to significant business improvements.

Out-of-the-box, process-centric applications provide centralized governance for master data domains such as financial data, supplier data, customer data, material data.

Native integration with SAP Business Suite using existing business logic and infrastructure leads to low TCO.

SAP Master Data Governance provides flexibility, from configurable workflows and extensible data models, up to custom built applications.