SAP MDG, central governance, material data

Overview

Nov. 2015
Agenda

1. Current Reality
2. Need for the Future
3. SAP Master Data Governance Capabilities
4. Architecture
5. Current Solution
6. Benefit from the Solution
Questions From the Manufacturing and Logistics LOB
Material Governance

• How can I establish a “maintain once – use everywhere” best practice?
• How can I reduce cost by eliminating redundant effort to maintain master data, i.e. through avoiding duplicates?
• How can I increase the quality of my material master data (i.e. classifications etc.) through central management and governance?
• How can I get consistent insight into sales, manufacturing, and procurement volumes?
• How can I accelerate availability of up-to-date master data in my business network?
• How can I get transparency on who has changed what, when and why?

• And … while accomplishing all that … how can I best leverage my investment in SAP?
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Central Management of Material Master Data Drives Excellence Throughout Your Business Network

Consistent material master data across the entire business network

Documented changes along the life-cycle of a material to ensure compliance

Collaborative and traceable material master data management

Single version of material master data, for higher efficiency and quality
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What is SAP Master Data Governance for Material Data?

SAP Master Data Governance Capabilities

Master Data Governance for material data offers a central hub-based maintenance of material master data.

To address the key business issues related to such a governance solution for master data, MDG for material 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 based maintenance of master data
- Workflow-driven processes that are flexible while ensuring governance and standardization
- Harmonized user interface, based upon Enterprise Portal or the Business Client
- Data model and business logic follow the best practices of the SAP Business Suite and reuse existing data structures, business validations and various service
SAP Master Data Governance 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
## SAP Master Data Governance Capabilities

### Deliver Out-of-the-box

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low TCO</td>
<td>Full Integration to SAP Systems as a client</td>
</tr>
<tr>
<td></td>
<td>Offer integration services for non-SAP client systems</td>
</tr>
<tr>
<td>Flexibility</td>
<td>Workflow flexibility closely integrated to a framework for defining business rules</td>
</tr>
<tr>
<td>Ease of Consumption</td>
<td>Deliver a process-centric solution, with roles and a web-based user interface</td>
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<tr>
<td></td>
<td>Deliver predefined data quality services</td>
</tr>
<tr>
<td>Best Practice</td>
<td>Deliver a data model proven by several applications &amp; industries</td>
</tr>
<tr>
<td>Process Transparency</td>
<td>Reuse of existing processing logic</td>
</tr>
<tr>
<td>Integration</td>
<td>Out-of-the-box data replication mechanisms, using stable mechanisms</td>
</tr>
</tbody>
</table>
SAP Master Data Governance Capabilities

2 Integrated Object Model MM

Identifying Material Data ~ 10 fields
Both SAP internal (material number) as well as external standards (GTIN)

Descriptive Material Data ~ 100 fields
• Help to understand what a material is but do not control processes
• Are as different as the products of our customers
• Typically realized via Classification (rather than Field Extension)

Process Controlling Material Data ~ 1,000 fields
• Control the behavior of SAP business processes
• Proprietary to SAP applications

MDG 8.0 Scope includes (~ 500 fields)
• Basic Data and Long texts / notes (enhanced)
• Quantity Conversion / alternative UOMs/GTIN / EAN handling Classification (unchanged)
• Plant specific data (enhanced for Inspection Setup, MRP Area)
• Valuation data (enhanced for Material Ledger)
• Sales Organization / Distribution Channel specific data / Tax Classification (unchanged)
• Storage Location Data (unchanged)
• Warehouse Data (unchanged)
• Document Assignment (unchanged)
• Production Version (new)

Customers can enhance the data model
SAP Master Data Governance Capabilities

**Integrated Object Model MM**

### Material

- **Basic Data**
  - General Data
  - Descriptions
  - Units of Measure
  - EAN/UPC
  - Internal Comment
  - Basic/Quality/ Purchasing Text
  - Material Sales
  - Material Quality
  - Material Purchasing
  - Tax Classification for Purchasing

- **Classification**
  - Class Assignment
  - Characteristic Valuation

- **Sales Data**
  - Sales Text
  - Sales Data
  - Sales Grouping
  - Tax Classification for Sales
  - Plant Data Sales
  - Plant Data Foreign Trade

- **Plant Data**
  - MRP Text
  - Plant Data MRP...
  - Plant Data Production Planning
  - Plant Data Work Scheduling
  - Plant Data Quality Management
  - Plant Data Purchasing
  - Plant Data Stock Planning
  - Quality Inspection Setup
  - MRP Areas

- **Valuation Data**
  - Valuation Data
  - Costing Data
  - Plant Data Costing
  - Valuation Data with Material Ledger

- **Storage Location**
  - Storage General Data
  - Storage Loc MRP Data
  - Storage Type Data

- **Warehouse Data**
  - WM Data

- **Document Link**
  - Document Link Text

- **Production Version**

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MDG8 Data Model “MM” enhancement
SAP Master Data Governance Capabilities

3 Governance, Collaboration & Data Quality

Collaboration
- Change requests drive collaboration of requester and data specialists
- Collect information from business
- Workflow-driven (org management, substitutions, re-submission)
- Linear or distributed workflow

Governance
- Enforces configurable change request process
- Allows separation of data entry and approval
- Different roles and responsibilities
- Staging of data until activation, with complete audit trail of changes

Data Quality
- Re-uses configuration, validations and business logic
- Integrates with SAP BusinessObjects Data Quality
- Configurable and coded validation and derivation rules
Robust Data Replication

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 SAP ECC, R/3 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 SAP MDG or SAP PI)
- Monitoring and error handling
SAP Master Data Governance Capabilities

5 Re-Usability & Extensibility

Reuse standard content
- Reuse existing data structures and functionality of SAP Business Suite

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
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## Principles

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>• Central Work Center for the Maintenance of Materials</td>
<td>• Change Requests With Built-In Approval Process</td>
<td>• Standardized but Flexible Processes Incl. Rules Management and Tracking</td>
<td>• Staging Area to maintain inactive data of Material</td>
</tr>
<tr>
<td>• The work center for material master data governance bundles together all activities for material master data maintenance.</td>
<td>• Integrated process starts with a request to create or change a material, continues with processing and commenting by different expert users and stakeholders, and finishes with approval or rejection by authorized experts</td>
<td>• The standard SAP Business Workflow is enhanced with a rule-based engine; therefore changes in responsibilities and in processes can be reflected immediately and with ease.</td>
<td>• Active area – Holds the active data; Staging – Holds the data during the change request processing before approval</td>
</tr>
<tr>
<td>• Central deployment and authorization ensures governance</td>
<td>• All processing steps are supported by workflow</td>
<td>• All processing steps are supported by workflow</td>
<td>• Local adaptation and personalization possible</td>
</tr>
</tbody>
</table>
User-Centric Principle
Central Work Center for the Maintenance of Materials

All activities around the creation and maintenance of materials are bundled in one work center. Companies can establish this work center as the standard hub for creating and changing materials. For customers that do not use the SAP Enterprise Portal, a work center based on SAP Netweaver Business Client is delivered as well.

Customer business challenges
- Users maintained master data in different systems
- Different transactions were necessary to execute the maintenance tasks (change, create, delete)
- Planned changes were not transparent to other systems

Business value
- The new work center for material master data governance bundles together all activities for material master data maintenance.
- Central deployment and authorization ensures governance
- Local adaptation and personalization possible
User-Centric Principle
Homepage with PFCG Role SAP_MDGM_MENU_06
Governance Principle
Change Requests With Built-In Approval Process

This function allows you to implement an integrated process of master data governance that starts with a request to create or change a material, continues with processing and commenting by different expert users and stakeholders, and finishes with approval or rejection by authorized experts. All processing steps are supported by workflow.

Customer business challenges
Requests and reasons for new or changed master data had to be communicated by phone or e-mail to master data specialists. They had to gather any further information in a time-consuming process from other experts and stakeholders. Follow-up processing by certain specialists had to be triggered manually. An approval process with a two man rule could not be assured.

Business value
The approval process for maintenance of master data enables:
• Fulfillment of compliance requirements
• Better data quality
• Faster and transparent decisions
• Relevant information in one place
Workflow Principle
Standardized but Flexible Processes Incl. Rules Management

The data maintenance activities are bundled via a change request that is linked to a workflow. The workflow can be linear or distributed. Besides automated steps, ad hoc steps, delegation etc. can be used.

The standard SAP Business Workflow is enhanced with a rule-based engine; therefore changes in responsibilities and in processes can be reflected immediately and with ease.

Customer business challenges
- Processes were unstructured and neither guided nor controlled
- High effort in data collection, change processing and issue resolution
- High TCO and low flexibility if hard-coded semi-automated processes are used

Business value
- Build-in guidance, monitoring and reporting using a standard workflow tool provides process and data governance
- Integrated tool for keeping data, process and issue resolution in one place
- Enhanced flexibility by integrated rules management
Architecture Principle
Staging Area to Maintain Inactive Versions of Material Data

As long as the change request for the creation or change of a material is in progress, the attributes of the material are stored in an inactive version that exists (in the case of a change) in parallel to the active version. When the change request is approved then the data is written as the active version to the master data tables and this new or updated record is then available for business processes.

Customer business challenges
• Several users from different departments are involved in the creation of a material item
• Material items were immediately available in the system as soon as the first user saved the entries
• Many incomplete material items and partial changes could exist
• Planned changes were usually not visible to the business

Business value
• Incomplete material (changes) are stored in an inactive version so the material can only be used in business processes when it is approved (better process quality)
• Rejected change requests don't create a material number in SAP ERP (better data quality)
• Planned changes are visible to the concerned user groups (better transparency)
Architecture Principle
Handling of Active and Inactive Data

To enable the master data governance process MDG separates
- Active data – Ready to be used by applications, can be distributed to client systems
- Inactive data – Not yet approved, currently part of a change request

Accordingly there are two separate storage locations
- Active area – Holds the active data
- Staging – Holds the data during the change request processing before approval

For optimal integration into SAP Business Suite MDG allows two modes
- Re-Use active area (re-use mode) : Existing structures of applications are used. For example, MDG for material makes use of the MARA table in ECC
- Generated active area (flex mode) : Tables as defined in the MDG data model are used to store active data.

Flex Mode

Re-Use Mode

MDG Application Foundation

Suite Application
SAP Master Data Governance
High-level Architecture Overview

Optional Parts
- SAP Fiori
- Information Steward
- Data Services
- Enterprise Search
- SAP Information Management Suite
- SAP HANA

Central System for Master Data Processes
- Portal / NetWeaver Business Client

SAP Master Data Governance
- User Interfaces, Roles, Work Centers
  - Workflows
  - Staging
  - Validation
- Change Request, Governance Model, Search & DQ Adapters, UI Framework, Analytics, Replication, Key / Value Mapping

SAP ERP 6.0
- AS ABAP

Integrate services for data standardization and enrichment, data load, search and matching

Client Systems
- ERP
- CRM
- SRM
- hybris
- PCM
- On Premise Apps
- Cloud Systems
- 3rd Party

Tight integration into SAP Business Logic and leveraging standard AS ABAP

Client systems are integrated via various channels (such as SOA, ALE, RFC, File)
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SAP Master Data Governance – Process Flow

- **Maintain**: Central maintenance of master data in staging area
  - Re-Use existing business logic
  - Data Enrichment
  - Duplicate Check
  - Integrate external services

- **Validate**: Collaboration
  - Adaptable Workflow
  - Auditable Change Process

- **Approve**: Replication to non-SAP and SAP systems

- **Replicate**: Adaptation and Enrichment in local systems
Material Processes
Search Functionality

- In their work centers, users can search for materials that are stored in the active or in the staging area.
- Search criteria combine material attributes and classification.
- Search uses Enterprise Search (TREX) and/or SAP HANA-Based Search or other alternative search provider.
- The user can start a change request for single or multi records processing directly from the results list.

Business User

Search Functionality

- Search in Active Area
- Search in Staging Area
- Fuzzy Search
- Save and Load Search Criteria
- Trigger Change Request
- Multi Records Processing

Customer business challenges
- Search results only took operational or active data into account, not the inactive data in the staging area related to planned or future changes.
- Business activities could not be directly triggered from a search result list.

Business value
- Comprehensive search functionality simplifies daily work.
- Integration into change request processing enhances productivity.
- Including inactive data from staging area reduces parallel change processes.
### Material Processes

**Create Material With Template, Initial Screen**

<table>
<thead>
<tr>
<th>Material: New</th>
<th>Material (Template)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material</strong></td>
<td><strong>Material</strong></td>
</tr>
<tr>
<td>Material: P-3000</td>
<td>Material: P-100</td>
</tr>
<tr>
<td><strong>Organizational Levels</strong></td>
<td><strong>Organizational Levels (Template)</strong></td>
</tr>
<tr>
<td>Plant: 0001</td>
<td>Plant: 0003</td>
</tr>
<tr>
<td>Storage Location: 0001</td>
<td>Storage Location: 0002</td>
</tr>
<tr>
<td>Sales Organization: 0001</td>
<td>Sales Organization:</td>
</tr>
<tr>
<td>Distribution Channel: 01</td>
<td>Distribution Channel:</td>
</tr>
<tr>
<td>Warehouse Number: 001</td>
<td>Warehouse Number:</td>
</tr>
<tr>
<td>Storage Type: 001</td>
<td>Storage Type:</td>
</tr>
<tr>
<td><strong>View</strong></td>
<td><strong>Version</strong></td>
</tr>
<tr>
<td>* Change Request Type: MAT01</td>
<td>Change Request: 0</td>
</tr>
</tbody>
</table>

- Copy from a Template: Enter Material, and if necessary a Plant, Storage Location, Sales Organization and Distribution Channel, Warehouse Number and Storage Type
- If you specify a Change Request as template than inactive data of the material is copied
- Only specified organizational levels of template are copied. Otherwise no organizational level is copied.
Material Processes
Create Material Overview Page

- Several actions are possible for processing a change request (Customizing)
- Workflow is controlled by the BRFplus decision tables when using the Rules based Workflow template or controlled by the Classic Workflow template
- Dedicated users or organizational units are derived for further processing
- Delivered template configuration: BS_MAT_OVP_06
A basic duplicate check is offered to avoid the creation of already existing materials. The information on potential duplicates is provided during when checking or submitting the change requests. It can be switched on or off per workflow steps.

**Customer business challenges**

Users often created a new material item even if the material master already existed in the system. This resulted not only in bad data quality, but also generated unnecessary cost since every master data record has its price tagged during its lifecycle.

**Business value**

- The duplicate check improves the data quality as well as the decision and business process quality in the connected systems
- Avoiding duplicates as early as possible saves time and money in the master data process
Material Processes
Display Material

- Display material via WebDynpro Application Change Material
- Or display material via WebDynpro Application Search Material and click on the Material Number link
- Switch with the edit mode to create a new change request or to existing change request
Material Processes
Change Material With Template, Initial Screen

<table>
<thead>
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<th>Material (Template)</th>
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<tr>
<td><em>Material:</em></td>
<td>Material: P-100</td>
</tr>
<tr>
<td>Organizational Levels</td>
<td>Organizational Levels (Template)</td>
</tr>
<tr>
<td>Plant:</td>
<td>Plant: 0002</td>
</tr>
<tr>
<td>Storage Location:</td>
<td>Storage Location: 0002</td>
</tr>
<tr>
<td>Sales Organization:</td>
<td>Sales Organization:</td>
</tr>
<tr>
<td>Distribution Channel:</td>
<td>Distribution Channel:</td>
</tr>
<tr>
<td>Warehouse Number:</td>
<td>Warehouse Number:</td>
</tr>
<tr>
<td>Storage Type:</td>
<td>Storage Type:</td>
</tr>
<tr>
<td>View</td>
<td>View</td>
</tr>
<tr>
<td>Change Request:</td>
<td>Change Request:</td>
</tr>
<tr>
<td>MAT02</td>
<td>0</td>
</tr>
</tbody>
</table>

- Copy from a Template: Enter Material, and if necessary a Plant, Storage Location, Sales Organization and Distribution Channel, Warehouse Number and Storage Type
- If you specify a Change Request as template than inactive data of the material is copied
- Only specified organizational levels of template are copied. Otherwise no organizational level is copied.
Material Processes
Change Material

- Review Changes by showing the Change Documents
- Several actions are possible for processing a CR (Customizing)
- Workflow is controlled by the BRFplus decision tables when using the Rules based Workflow template or controlled by the Classic Workflow template
- Dedicated users or organizational units are derived for further processing
- Delivered hierarchical template configuration: BS_MAT_OVP_06H
Material Processes
Change Material Type

With the Material Change UI it is possible to change the Material Type.

Prerequisite: Authorization M_MATE_MTA
Material Processes
Document Management System (DMS) Integration

- Display, edit and delete links to document info records
- Maintain long text information for material link
- Easy creation of new documents (and material link)
- Display document info record dependent on user/system environment
  - Using PLM Web UI
  - Using SAP GUI HTML
  - Using SAP GUI (NWBC for desktop only)
Material Processes
BCV Side Panel Content for MDG Material

- **Sales Overview**: Sales orders created for the current material master.
- **Production Overview**: Production orders created for the current material master.
- **Purchasing Overview**: Purchase orders created for the current material master.
- **Changes Overview**: Changes raised by the current MDG change request.
Material Processes
Multiple Record Processing

- Change selected materials when navigating from the search UI to the multiple record processing application
- Copy multiple materials with sub-objects when navigating from the search UI to the multiple record processing application
- Combined maintenance of different entity types
- List and Form UIBB’s are supported
- Example UI configurations and customizing delivered by business configuration sets
Material Processes
Multiple Record Processing

- Add, copy and change materials, language-dependent texts and organizational data in a change request
- Remove and discard changes possible
- Several operators available in context menu (e.g. Select Rows with Identical Value)
- Highlighting changes with different colors
  - Saved changes
  - Current changes
Material Processes
Mass Change

• Optionally, create a change request and submit it (typically w/o materials assigned, yet)

• Second, start the mass change and select your relevant materials by Define Selection (Step 1) and Refine Selection (Step 2)

• Step 3: Replace one or more fields with one dedicated value

• Step 4: You can review the results and then execute the change. If not yet done, you now need to assign an open mass change request that is assigned to you, or you can create a new change request
Material Processes
Mark Material for Deletion

- Mark a single material for deletion
- Or set the flag on an organization level
- A change request is triggered and data is copied into the staging area
- Workflow is triggered and processed the same way as for the other processes
- The deletion is limited to the material entity. Currently no remote checks about reuse of the material is done.
Support of Parallel Change Request  
Multiple Change Requests per Material at the Same Time

Creation of material with initial Change Request
One Change Request for create material

Parallel Change Requests for subsequent individual processing
- Parallel Change Requests for extending material
- Extend material to different organizations or change existing data in parallel to extend the material

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
MDG Framework Capabilities
Common Services of MDG for Material

Solution Strategy
- Integrated Object Model
- Deliver Out-of-the-Box
- Re-Usability & Extensibility of Data Model & User Interface
- Data Replication
- Governance, Collaboration & Data Quality

Change Requests for Material with built-in approval process
- Central Work Center for the Maintenance of Materials
- Search, Create, Display, Change, Mark for Deletion and Mass Change Material
- Staging Area: Material Data is only created when Change Request is approved

→ For all above see previous slides

Common services of change request processing:
- Import Master Data
- Key- and Value-Mapping
- Worklists (My Change Request, Display Change Requests, Change Documents)

→ These business services are explained on the next slides
Import Master Data
Common Services of MDG for Material

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

Customer business challenges
No direct upload functionality was available within SAP ERP
No governance process existed for the upload of mass data

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

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

Maintain Key Mappings for Material Data

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

Business value
Heterogeneous system landscapes can be supplied using the key- and value-mapping functionality offered with MDG
Worklists
Common Services of MDG for Material

- My Change Requests

- Display Change Requests

- Change Documents
SAP Master Data Governance for Material Data
Integrated, Centralized Product/Material Data for Process Excellence

Material Processing
- Workflow-driven creation and change process for Materials
- Change requests steer the maintenance & approval process of new or changed data
- Document changes for audits
- Work lists organize due changes
- Adaptable user interfaces and validations can be different per workflow step if needed

Distribution
- Changes are kept inactive until approval
- They can then be distributed to operational group or local systems via DRF using ALE

Scope of Master Data
- Search, Display, Change, Creation of single Material Master Data
- Mass and multi processing of changes
- File upload for initial load, system consolidation
- Broad out-of-the-box coverage of material attributes – incl. central and classification data as well as organizational unit data
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6. Benefit from the Solution
SAP’s Understanding of a State-of-the-Art Master Data Governance Solution

**Ensure Master Data Governance**

**Solution Strategy**
- 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

**Basic Principles**
- 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

**Common Services**
- Search & Display
- Create, Change, Multi-Record Processing, Mass Change, Parallel Change Requests, 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
Benefits From 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.