SRM-MDM CATALOG

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SRM-MDM Catalog Solution Overview

What is SRM-MDM Catalog?

- Bundles together in one application functions needed for catalog content management
- Pre-configured content adapted to support procurement processes
- Based on SAP NetWeaver MDM Technology.
- Available in two Flavors as Product and Service Catalogs.

How does it work?

- It uses a repository (Catalog Items) on the MDM Server
  - Built-in repository and data model for SRM processes
- It utilizes Windows-based front end clients for content management
  - MDM Console for catalog data modeling and system administrations.
  - Import Manager for uploading catalog content
  - Data Manager for enriching and approving catalog content
- WebDynpro-based search user interface
- OCI standard to integrate with the procurement application.
- Search and procure product using web interface.
Our proposal - MDM Catalog as a Central Repository

Why?
- Supplier’s catalog data in disparate system landscapes
- Lengthy and complicated procurement processes

Approach
- MDM e-procurement solution or catalog.
- Bundles together in one application functions needed for catalog content management.
- Links supplier catalog to procurement system.
- Helps user search and order right item.

Benefits
- Catalog is seen centrally.
- Quick price comparison.
- Reduced time and effort related to creating purchase transactions.
- Cost savings due to centralized catalog referenced by end users from multiple landscapes.
1. Overview of SRM-MDM Search User-Interface
2. Catalog Content Management using MDM Applications
3. Catalog Integration Scenarios
4. Catalog supportability Matrix
5. Integration of additional Add-On Solutions
SRM 7.0 and SRM-MDM Catalog 3.0 released as a part of SAP Business Suite 7.

Catalog 3.0 built on top MDM 7.1.

Service Procurement integration in the form of Service Hierarchy catalog.

New features: Price sorting, multiple parameters passed from calling applications.

Performance and Stability is key for all our release cycle. Search performance improved

Contains search ~3 times faster
Catalog User and Views at a glance

- SRM Users
  - Dynamic Attributes (PORG, Plant Id, supplier Id, Contract Id)

- Catalog UI filtered based on views Passed
  - MDM Views (Named Searches/Masks)
  - Complete catalog without any filter

- MDM Repository

- MDM User
  - Dynamic Parameters
Configuration of User Interface

The SRM-MDM search user-interface Configuration includes:

- Catalog and User specific Customizations of the Search User Interface.
- Customization of the Shopping options available
  - Order simulation Screen (Preview)
  - One Click Transfer.
  - Display only mode
- Intuitive configurations options
- Flexibly configurations for depicting the search results.
- Highly customizable search options.
- Customizations to enable/disable certain features for e.g. Shopping list, attribute search.
- Customizations to specify the dimensions of the images and rendered hyperlinks.
- Configurations to specify the OCI field mapping.
Intuitive and comfortable search functions for the end-user

The SRM-MDM search user-interface includes:

- Clear and user-friendly design
- Intuitive search functions for less training effort
- Automatic stemming for keyword searches.
- Drill down Search options using Hierarchies and selection lists.
- Different search algorithms from Exact to Sounds Like
- Filtering of results by attributes (e.g. color, size)
- Highly customizable display and search options.
- Display of product relationships (e.g. Sales Kits, Accessories, similar items)
- Shopping lists for bundling favorite items.
- Multiple pricing with references to contracts and info records
- Support for comparing items.
- Service hierarchies in SRM 7.0 Service Procurement
- Restriction of the content displayed using masks and named searches.
- Integration of electronic forms (e.g. business cards)
Free combination of full-text search, selection list and hierarchical search

The following search functions are at the requestor's disposal:

- Full-text search across all text-search enabled characteristics (e.g. part numbers, description texts, etc.)
- Hierarchy search using a freely definable classification incl. category-specific attributes.
- Selection list for direct choice of one or several characteristic values (e.g. manufacturer, supplier, etc.)
- Advanced search with additional drop-down lists, single search fields and price range searches.
- Number of Items per category / Selection List also shown.
Flexibly configurable display for depicting the search results

The following elements are offered for the display of search results:

- Results displayed in two modes List (Tabular) and Context (thumbnail).
- Freely configurable columns in width and position incl. one or multiple image references
- Supports Multiple Pricing (List Price, Purchase info prices, Contract prices and also scaled prices)
- Jump to Item Details for detailed information on the item.
- Jump into compare view with colored differentiation.
- Adding of items to cart or favorite lists.
- Support for Images and hyperlinks (rendered/links).
**Multiple Pricing**

**Use case**
An Item exists with following prices needs to be stored in a catalog

<table>
<thead>
<tr>
<th>Price Type</th>
<th>Reference</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat</td>
<td></td>
<td>550</td>
</tr>
<tr>
<td>Flat Scaled (qty&gt;=10)</td>
<td>XYZ/1234</td>
<td>450</td>
</tr>
<tr>
<td>Info record</td>
<td>10000</td>
<td>500</td>
</tr>
<tr>
<td>Contract1</td>
<td>4401109701</td>
<td>350</td>
</tr>
<tr>
<td>Contract 2</td>
<td></td>
<td>400</td>
</tr>
</tbody>
</table>

**Our solution**
- Number of Items in repository = 1.
- Flat prices and info record prices stored in Price information field of the Item stored in the repository
- Contract price to be stored in the Contract price field for the same item.
- On the UI all the prices will be shown linked with the same item.
Service Catalog (Main display)

### Features
- Tightly Integrated with ERP and SRM
- Display of Complex Hierarchical structures.
- Headers of all the hierarchies available for filtering.
- All the other search functions same as product catalog.
- One click total expansion of selected hierarchies.

### Customer business challenges
- Building complex structures in the documents requires high efforts and there are chances of errors.
SRM MDM 3.0
Scope and priorities

Service Hierarchy
- Upload service hierarchy from SRM & ERP
- Enhance service procurement process from SRM with access to service hierarchies from SRM-MDM Catalog
- Corresponding changes to OCI interface (extension of fields)
- Corresponding UI changes to reflect service view
- Service Procurement is a central theme for SRM 2008/ Business Suite 2008

Performance and Technology
- Adoption of MDM 7.1
  - Key update for MDM Core and Business Suite
  - Strong feedback from customers on security and performance
- Adoption of new MDM Java API
  - Key aspect of our commitment to performance optimization
- Less memory consumption through user session management. Any number of clients with same MDM user will hold/create single MDM session.
- Additional performance optimizations in SRM-MDM search user-interface

Misc. topics
- Less maintenance with ability to pass Multiple parameters from calling applications.
- Continuous focus on delivering tweaks to functionality based on customer feedback.
- Named Searches to filter the qualifiers on the UI.
- Number of results relevant to each item displayed in Hierarchy /selection list.
- Price Sorting now available on UI –Phase 1 implementation: Single price sorting. Separate application for maintaining the field.
1. Overview of SRM-MDM Search User-Interface

2. **Catalog Content Management using MDM Applications**

3. Catalog Integration Scenarios

4. Catalog supportability Matrix

5. Integration of additional Add-On Solutions
SRM-MDM Process Flow

[Diagram showing the process flow from SRM Business Content to SRM MDM Catalog to Procurement System through MDM Repository, Console, Import Manager, and Data Manager]
The following functions are available via MDM Console:

- The Console is used for modeling the catalog data model and system administrations.
  - Predefined repository modeled for SRM processes. Flexible extension and modification of repository
    - Additional tables, fields and attributes
  - Selection of catalog languages (Unicode 4.0) to be used and also defining Inheritance Levels for Supported Languages.
- Activation of fields for full-text search and sorting of their columns in search user-interface
- Administration of authorization roles, users and their individual password handling, defining Constraints.
Basic Tools/Services
- MDM Import Manager
  Provides data transformation capabilities to preprocess the source data one field at a time prior to the import.
- MDM Import Server
  Executes automatic upload of data via File Adapters.

Sources of Information
- The supplier catalogs and product hierarchies can have any format supported by the standard SAP NetWeaver MDM application.
- Simultaneous import of multi-lingual texts and scale pricing (e.g. also via MS Excel)
- Upload contract data from SRM, including price conditions based on:
  - Product Group/ Product Id/ Supplier Part Number
- Upload purchasing info records and contracts with related material masters from ERP
- Upload of Service hierarchies from SRM and ERP
The following functions are offered by MDM Import Manager:

- Definition of individual import maps for diverse MS Excel, text or XML formats
- Save and re-use maps
- Auto-map and key-mapping functionality
- Simultaneous import of multi-lingual texts and scale pricing
- Automatic filtering of obsolete items during full-refresh of catalogs.
- Dialog-based upload process with numerous plausibility checks during content import
SRM-MDM Catalog: Enrich Product Content

Enrich Product Content using MDM Data Manger

- Add images and attachments to product record.
- Add new items manually
- **Defining views using Masks (static) and Named searches (Dynamic).**
- Quick maintenance of individual items and comfortable mass changes to numerous items at once (Validations & Assignments)
- Re-assignment of existing records to another category
- Easy-to-use multi-dimensional search within the complete catalog.
The following features are at the purchaser’s disposal:

- **Flexible and powerful Workflow Engine**
  - Freely definable approval procedures through integration of MS Visio flowchart diagrams

- **Easy creation and modification of Workflows**
  - Validation & Item approval based on self-created quality rules (comparable to MS Excel formulas)
  - E-mail notification
  - Assignment of tasks to user or group of users
SRM-MDM Catalog: Enable Web Catalog

Publish Web Catalog

- Configuring the User Interface (UI)
  - Search options
  - Item Display
  - OCI mappings

- Integrating Catalog with SRM System.
  - Defining External Web Services definition (IMG).
  - PI configuration (for defining communication Channels to Import Server)
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The catalog is integrated with the following SAP SRM and SAP ERP business scenarios:

- SAP SRM: Self-Service Procurement
- SAP SRM: Service Procurement
- SAP SRM: Contract Management
- SAP ERP: PR, PM and PO (as of SAP ERP 2005)
Open Catalog Interface (OCI)

- Standard that enables transfer of data between catalog and procurement system application via HTTP.

- Calling Up the Parameters from SRM (External System)
  - URL and parameters to Launch Catalog (IMG)
  - Addition functions for Product Catalog
    - Validation,
    - Background search
    - Item details

- Return From the Catalog
  - Standard fields and Field codes defined for transfer of Items from catalog to procurement system
  - Naming Convention (NEW_ITEM-<Field name>[<index>])
  - Required and Optional Fields
MDM Catalog Integration Scenario

- **SUS**
  - RFX
  - Quotation
  - Contracts
  - SUS Confirmation
  - SUS Invoice

- **SRM**
  - RFX
  - Quotation
  - Contracts

- **MDM Catalog**
  - Service Catalog UI
  - Services Catalog Repository
  - Product Catalog Repository

- **ERP**
  - PR/PO/PM
  - Import of Flat Items
  - Upload Service Hierarchies

- **OCI 1**
  - Call up Parameters from External System
  - XML via PI

- **OCI 2**
  - Data transfer from Catalog to the invoking application through OCI
  - Upload Service Hierarchies
  - Upload Purchase info records and contracts
  - Upload Flat Items & Service Hierarchies
  - Upload of Contracts Flat Item
  - Import of Flat Items

- **MECCM**
  - XML via PI

- **XML via PI**
  - Upload of Contracts
  - Flat Item

- **OCI 2**
  - Upload of Contracts
  - Flat Item

- **OCI 1**
  - Import Flat Items
  - Import Flat Items

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3. Catalog Integration Scenarios
4. **Catalog supportability Matrix**
5. Integration of additional Add-On Solutions
# Catalog Supportability Matrix

<table>
<thead>
<tr>
<th>Version</th>
<th>SRM-MDM Catalog 2.0 MDM 5.6</th>
<th>SRM-MDM Catalog 3.0 MDM 7.1</th>
<th>SRM-MDM Service catalog 3.0 MDM 7.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below SRM 5.0</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>SRM 5.0</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>SRM 6.0</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>SRM 7.0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ERP 2005</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>ERP 2005 ENH PACK 4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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The Dynamic Web Forms support the flexible customizing of eForms within mere hours

The following functions are available via Dynamic Web Forms:

- Comfortable configuration environment for electronic forms via easy R/3 table maintenance
- Selection of product variants, complex price calculations, integration of F4-helps into ERP system
- Dynamic compilation of questionnaires (e.g. for catering, user accounts, transport costs, etc.)
- Enrichment of SRM-MDM catalog items or direct OCI-call from SRM or ERP
The Catalog Validation Engine offers suppliers an autonomous catalog import.

The following functions are offered by the Catalog Validation Engine:

- Flexible definition of validation rules, such as mandatory fields, value lists, regular expressions, etc.
- Web-based supplier portal for the autonomous validation and import of catalog updates
- Email notification incl. transparent MS Excel validation protocol to supplier in case of errors
- Automatic import of correct catalogs with follow-up commercial approval by procurement team
Thank you!

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The following roles are available for the SRM-MDM Catalog:

- **User Interface (UI) Configuration Manager**
  
  Can set up user-specific configuration for users who are assigned the Catalog User role. The owner of this role is authorized to configure the Java-based Web Dynpro search UI and the open catalog interface (OCI) mapping.

- **Catalog Manager**
  
  Responsible for importing, managing, and classifying product and contract data in the MDM Import Manager and MDM Data Manager. The Catalog Manager configures masks and named searches.

- **Catalog Content Approver**
  
  Responsible for approving or rejecting catalog items in the SRM-MDM Catalog workflow.

- **Catalog User**
  
  Searches for products in the catalog and adds them to a procurement application such as the cart.

- **Administrator**
  
  Has full administrative rights to manage the available functions, maintain roles in the MDM Console, and link them to masks (views). For more information, see Masks.

- **External Integration**
  
  A technical role that is used for the automatic upload of data via the MDM Import Server. The system user is assigned to this role.
Service Procurement
Process Overview Upload Scenario

Shopping Services/Hierarchies

Communication through MDM-API(7.1)

Validations:
1. At XI end only XSD validation.
2. At Import Manager End Both XSD and data validation.

Hierarchy Structure (Headers & Outlines)

Service-Items (Functional Location & Free Text)

Non-Hierarchical Items

Hierarchy Structure

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Transfer of MSS from ERP – Using MECCM report

Model Service Specifications created in MM-SRV can be selected and transferred to the SRM-MDM catalog.

<table>
<thead>
<tr>
<th>Line</th>
<th>D. Service No.</th>
<th>Short Text</th>
<th>Quantity</th>
<th>Un</th>
<th>Gross</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>SPRJ_J1</td>
<td>Concrete wall construction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>SPRJ_J2</td>
<td>Basic stonewall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
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<td>30</td>
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<tr>
<td>65</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SRM-MDM 3.0
Transfer of Quotations from SRM Rfx

Accepted quotations (supplier responses) can be directly published to the SRM-MDM catalog

Display Response: 1105449

<table>
<thead>
<tr>
<th>RFx Response Number</th>
<th>RFx Number</th>
<th>RFx Name</th>
<th>Status</th>
<th>Supplier Name</th>
<th>Total Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1105449</td>
<td>121806</td>
<td>CS1067I4_P2</td>
<td>Accepted</td>
<td>Vendor 1000</td>
<td>12,673,12 EUR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Item Type</th>
<th>Product ID</th>
<th>Product Category</th>
<th>Product Category Description</th>
<th>Required Quantity</th>
<th>Submitted Quantity</th>
<th>Unit</th>
<th>Price</th>
<th>Currency</th>
<th>Price Unit</th>
<th>Delivery Date</th>
<th>Total Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001 Hinasys Traders</td>
<td>Outline</td>
<td>04354005</td>
<td>classic SOC</td>
<td>1</td>
<td>1</td>
<td>EA</td>
<td>EUR</td>
<td>From 29.10.2008</td>
<td>1,730,00</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>0002 Vehicle Maintenance</td>
<td>Outline</td>
<td>04334009</td>
<td>classic SOC</td>
<td>1,000</td>
<td>1,000</td>
<td>EUR</td>
<td>On 29.10.2008</td>
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<td></td>
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<td></td>
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<td>1,000</td>
<td>1,000</td>
<td>EUR</td>
<td>On 29.10.2008</td>
<td>110,78</td>
<td></td>
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<td>0004 RESpose</td>
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<td>EA</td>
<td>10,00 EUR</td>
<td>On 29.10.2008</td>
<td>10,00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0005 Vehicle Maintenance</td>
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<td>classic SOC</td>
<td>6,000</td>
<td>1,000</td>
<td>EUR</td>
<td>250,78</td>
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<td>0006 Niglins Traders</td>
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<td>classic SOC</td>
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<td>EUR</td>
<td>From 29.10.2008</td>
<td>7,960,00</td>
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<tr>
<td>0007 Slug for spiral easings</td>
<td>Material</td>
<td>106.110</td>
<td>-</td>
<td>12</td>
<td>12</td>
<td>ST</td>
<td>10,00 EUR</td>
<td>1</td>
<td>On 29.10.2008</td>
<td>130,00</td>
<td></td>
<td></td>
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<td>EUR</td>
<td>On 29.10.2008</td>
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<td>EA</td>
<td>30,00 EUR</td>
<td>1</td>
<td>On 29.10.2008</td>
<td>330,00</td>
<td></td>
<td></td>
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<tr>
<td>0010 Slippement</td>
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<td>classic SOC</td>
<td>0</td>
<td>10</td>
<td>EA</td>
<td>10,00 EUR</td>
<td>1</td>
<td>On 29.10.2008</td>
<td>100,00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Configuration UI

- Catalog and User specific Configuration
- Services / product.
- General configurations
- Customize Screen Display
- Customize Search options
- OCI Mapping
The following features are offered in detailed display of Items:

- Very detailed information regarding the item.
- Price information in tabular display with more detailed information regarding references and scales.
- Different tabs for displaying substitute items, accessories and information relevant to sales kits also.
- Options to compare substitute items.
- Add items to cart and favorite lists.
- Navigation buttons to move to the next and previous items.
- Provides feature to compare different items in the screen.
- Color coding for displaying similar information.
- Option to add items to the cart.
- Navigation to the Item details.
Frequently shopped Items can be saved under a shopping list for faster and convenient usage in future. 

- Easy to maintain and update from results set, Item details and cart preview screen.
- Option to share lists amongst different Catalog User.
- Navigation to the Item details, Add to cart and compare available.
- Filter to search for the desired list.
Service Hierarchy (Filtering using headers)

Hierarchy (Header)
Selection shows a specific service hierarchy
### Service Hierarchy (Cart Preview)

#### SRM-MDM Catalog

**Cart Preview**

<table>
<thead>
<tr>
<th>Select Service</th>
<th>Quantity</th>
<th>Unit</th>
<th>Service Type</th>
<th>Supplier</th>
<th>Price (EUR)</th>
<th>Total Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vehicle Maintenance</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MSS Hoodor</td>
<td></td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td><strong>Oil Service</strong></td>
<td></td>
<td></td>
<td>Outline</td>
<td></td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td>- Lube</td>
<td></td>
<td>1</td>
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<td>- Oil filter replacement</td>
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<td>1</td>
<td>EA</td>
<td>Free Text</td>
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<td>30</td>
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<td><strong>Brake Service</strong></td>
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<td></td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>- Change brake pads</td>
<td></td>
<td>1</td>
<td>EA</td>
<td>Free Text</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>- Check brake pads</td>
<td></td>
<td>1</td>
<td>EA</td>
<td>Free Text</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>- Change rotors</td>
<td></td>
<td>1</td>
<td>EA</td>
<td>Free Text</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td><strong>Tire Service</strong></td>
<td></td>
<td></td>
<td>Outline</td>
<td></td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>- Check pressure</td>
<td></td>
<td>1</td>
<td>EA</td>
<td>Free Text</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>- Replace tire</td>
<td></td>
<td>1</td>
<td>EA</td>
<td>Free Text</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

*Grand Total: 250 EUR*

Choose Recalculate to display changed price/total.
Dynamic Web Forms

SAP NetWeaver 2004s
SRM (PM / MM)

SAP SRM-MDM

Standard OCI interface to
- SRM-MDM
- SRM Server
- ERP 2005

F4-helps via RFC

Installation under
SAP NetWeaver 2004s
- SRM 2005
- ERP 2005

Configuration via SM34
Full transport system support

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Two validation scenarios
- Online validation at customer
- Offline validation at supplier

Customer configures
- Mandatory fields
- Lookup table validations
- Data type compliancy
- Regular expression checks

Supplier carries out
- Offline checks with local CVI tool
- Online checks via web-based access
- Direct import if no errors occur

Customer retains the full commercial and final approval of all content changes

Suppliers receive import template and login details to customer-hosted CVI online upload portal

Customer extracts his SRM-MDM repository model and creates his individual CVI validations