

SAP NetWeaver MDM 7.1 Preview

Data Modeling



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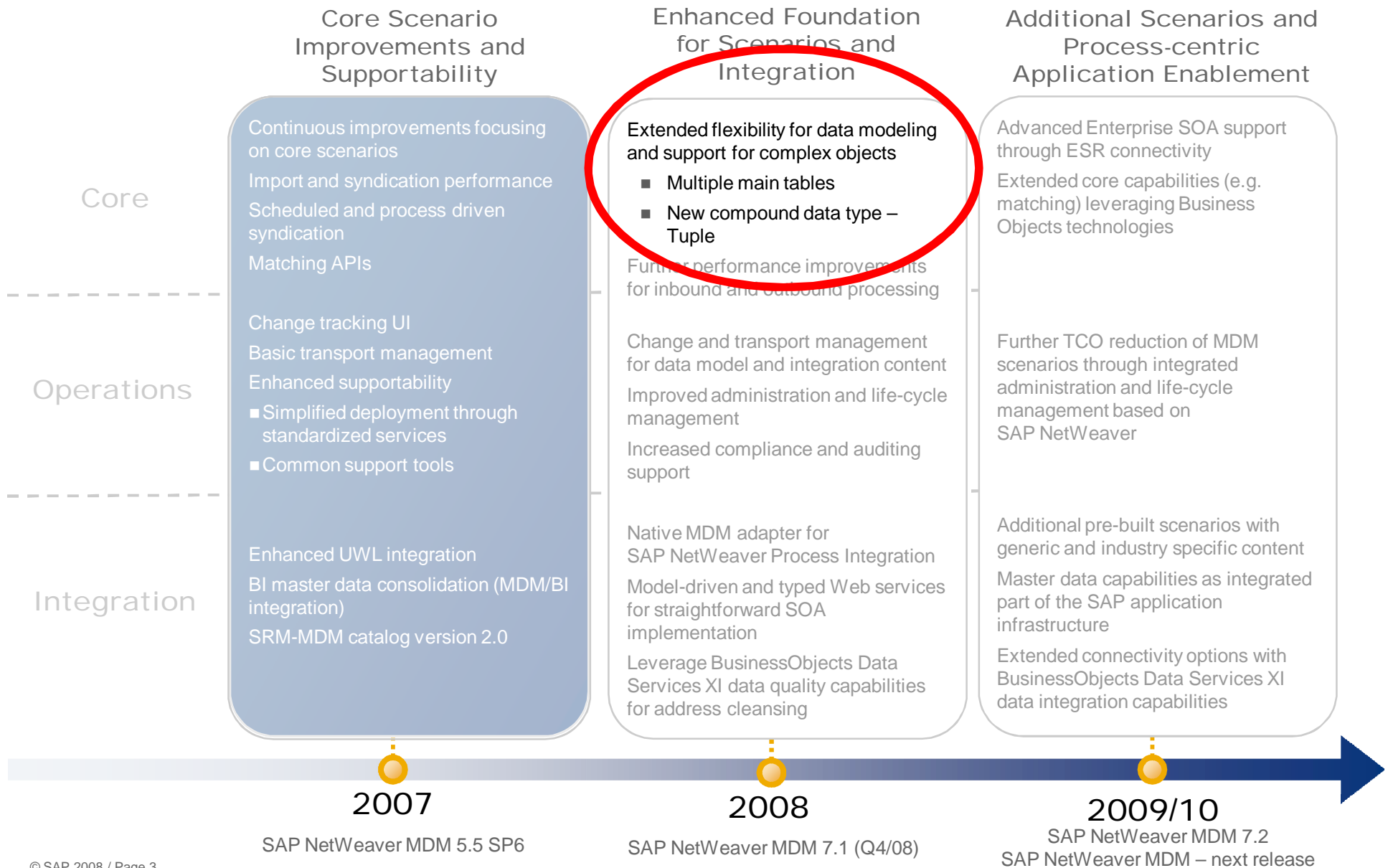
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MDM with SAP NetWeaver – Roadmap Highlights

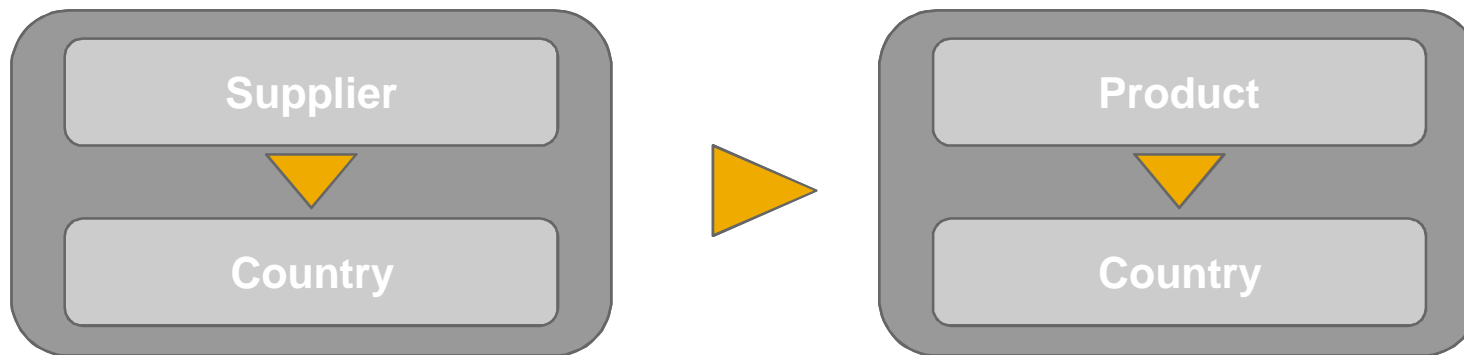


SAP NetWeaver MDM 5.5

Background Information



- Data modeling limitations with SAP NetWeaver MDM 5.5



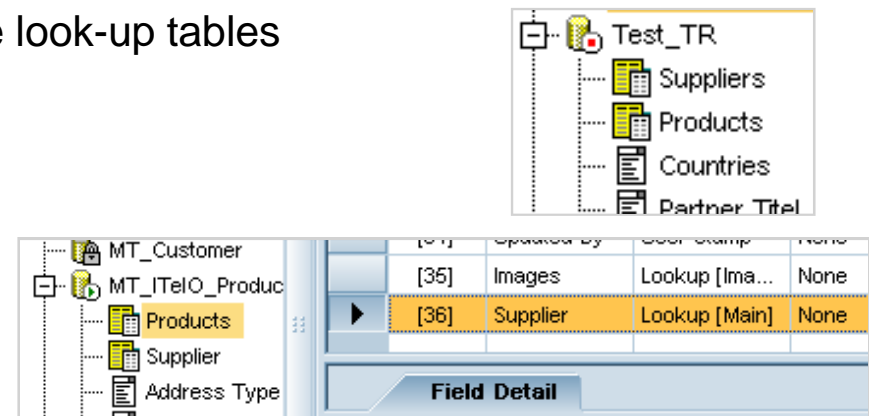
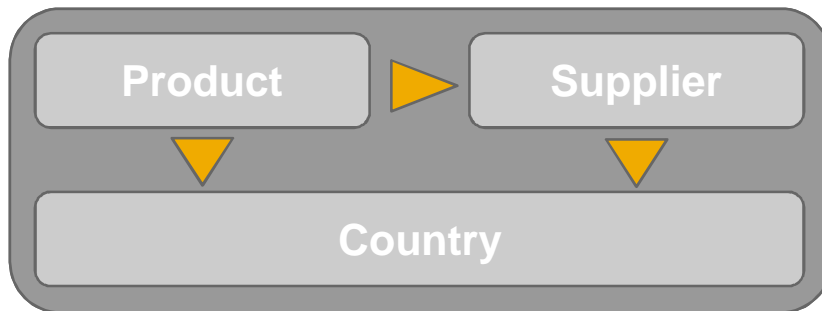
- Sharing of Lookup tables (e.g. country) across repositories not supported
- Linking of objects residing in 2 repositories is not supported with SAP NetWeaver MDM 5.5, natively.
- Workarounds via the integration into SAP NetWeaver Portal
 - Use of “eventing technology” → mapping of key fields and match of respective values
 - Not sufficient for each and every use case

SAP NetWeaver MDM 7.1

Introducing The Multiple Main Table Concept



- SAP NetWeaver MDM 7.1 will support the following options
 - Multiple business objects (main tables) can reside in a single repository
 - Multiple main tables can reference the same look-up tables



- Key benefits of this concept
 - Main table objects can reference each other using a *Lookup [Main]* field type (e.g. a supplier can be related to several products)
 - Main table objects can recursively reference themselves (e.g. Employees reference Employees)
 - Increased consistency of lookup table entries and reduced maintenance effort (e.g. only one table for countries, currencies etc.)
 - Lower operational costs due to fewer repositories that need to be managed
 - Hardware resources (such as memory) are used more efficiently by MDM

A tuple is a record *template* that groups together a set of related fields into a reusable object or type definition that describes or composes a particular object or type

| Role Hierarchy | | Member Fields | | |
|-----------------------|--|---------------|------------------------|---------|
| Tuples | | Pos. | Name | Type |
| Communication Details | | [1] | Complete Number | Text |
| E-Mail Address | | [2] | Phone Number | Text |
| Fax Number | | [3] | Phone Number Extension | Text |
| Phone Number | | [4] | Standard Number | Boolean |
| Supplier Address | | [5] | Number Type | Boolean |

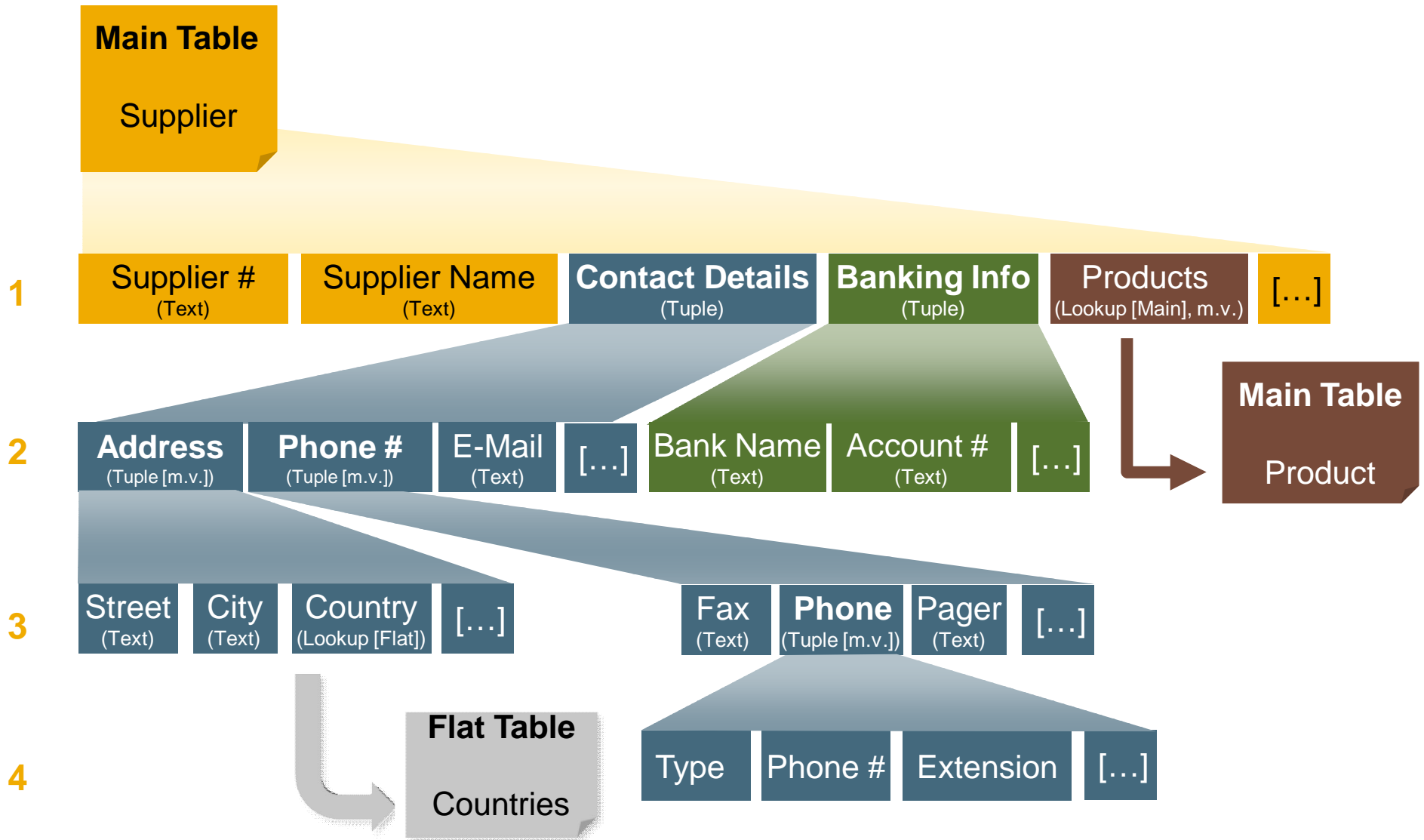
Simple tuple composed out of multiple text and boolean fields

| Role Hierarchy | | Member Fields | | |
|-----------------------|--|---------------|------------------|----------------------|
| Tuples | | Pos. | Name | Type |
| Communication Details | | [1] | Name | Text |
| E-Mail Address | | [2] | Fax Number | Tuple (multi-valued) |
| Fax Number | | [3] | Phone Number | Tuple (multi-valued) |
| Phone Number | | [4] | Supplier Address | Tuple (multi-valued) |
| Supplier Address | | [5] | New Field | Integer |

Nested tuple composed out of text fields and other tuples

SAP NetWeaver MDM 7.1

An Example of Deep Nesting Using Tuples



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An Example of Real-Life Customer Requirements



- Link customers to their sales representatives depending on the sales area while...
- ...a sales rep is a customer's contact person and has a specific partner function (e.g. purchaser)
- Derived requirements for SAP NW MDM
 - Relationship between customers and sales reps
 - Assigning multiple sales areas with multiple partner functions to the relationship

■ A solution approach with MDM 7.1

■ Two main tables

- *Business Partner*
Stores both sales reps and customer records
- *Business Partner Relationship*
2 lookup fields to the “Business Partner” table;
one for sales reps, one for customers

■ Nested tuples

- The parent tuple “Sales Area” defines the sales area and includes another tuple
- The child tuple defines the “Partner Function”

ie hierarchy

| Pos. | Name | Type |
|------|------------|----------------------|
| [1] | Category | Lookup [Flat] |
| [2] | Partner 1 | Lookup [Main] |
| [3] | Partner 2 | Lookup [Main] |
| [4] | Sales Area | Tuple (multi-valued) |

Hierarchy

| Pos. | Name | Type |
|------|----------------------|----------------------|
| [1] | Description | Text |
| [2] | Sales Organization | Lookup [Flat] |
| [3] | Distribution Channel | Lookup [Flat] |
| [4] | Division | Lookup [Flat] |
| [5] | Partner Function | Tuple (multi-valued) |

Tuples

| Pos. | Name | Type |
|------|-------------|---------------|
| [1] | Code | Text |
| [2] | Description | Lookup [Flat] |

Thank you.



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