SAP Test Data Migration Server
High-Quality Testing Requires High-Quality Test Data

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SAP Test Data Migration Server (TDMS) 4.0

AGENDA

- SAP TDMS Overview
- SAP TDMS Main features
- SAP TDMS Use cases
- SAP TDMS Architecture
- SAP TDMS Data Scrambling
- SAP TDMS BPL
- SAP TDMS ERP HCM
- SAP TDMS Analyses & Reports
- SAP TDMS on HANA
- SAP TDMS Fiori App
- SAP TDMS Further information
- SAP TDMS Support Services
- SAP TDMS Success stories
- SAP TDMS Appendix
Typical Scenario

In a nut shell
- Storage
- Costs
- Resources
- Time
- Efficiency
- Process
- Security directly contributes to the success of your business.

Current Situation

No easy way to bring current data to DEV

STALE data

1.5 TB

Full Copies

1.5 TB

QAS/100

1.5 TB

PRD/100

200 GB

DEV/100
SAP Test Data Migration Server (TDMS) 4.0
Overview
SAP Test Data Migration Server (TDMS) 4.0
VALUE PROPOSITION and BENEFITS

Enables creation of small, easy-to-maintain non-production environment using extracts of business data to minimize infrastructure and maintenance expenses while maximizing the effectiveness and accuracy of your development, test and training activities.

SAP TDMS Benefits:
● Reduce the footprint of your non-production environment and minimize infrastructure and maintenance expenses
  - by creating lean, easy-to-maintain systems using current extracts of business data
● Enable functional teams to extract and transfer data for troubleshooting and testing purposes
  - by transferring small amount data using business objects
● Maximize the effectiveness of your development, test, or training activities
  - by providing current data frequently to test systems.
● Comply with data privacy laws
  - by scrambling your sensitive production data
● Migrate data across non-connected data centers
  - by using the file transfer technique
● Transition to SAP innovations such as SAP Business Suite powered by SAP HANA on premise or on Enterprise Cloud
SAP Test Data Migration Server (TDMS) 4.0
REduced Migration

Assumption
- 80-90% of the production data is stored in 10 – 20% of client-dependent tables

Time Based Reduction

Object Oriented Reduction

Client DB – Before data reduction

Client DB – After OO reduction < 10%

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SAP Test Data Migration Server (TDMS) 4.0
Main features
# SAP Test Data Migration Server (TDMS) 4.0

## MAIN FEATURES

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<th>Solution Manager Integration</th>
<th>Fiori App</th>
<th>File-based Transfer</th>
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<tr>
<td>Shell Creation</td>
<td>Data Scrambling</td>
<td>Full Client Transfer</td>
<td>File-based Transfer</td>
</tr>
</tbody>
</table>

### ERP
- Time-Based Reduction
- Company Code and Time-Based Reduction
- Transfer of Master Data and Customizing
- Business Process Library
- Stand-alone Scrambling
- Data Scrambling content
- Data import through Files
- Full Transfer of Client-Specific Data

### HCM
- E-Recruiting
- Process and Forms
- Transfer of PA Data
- Transfer PA & PD Data in one Step
- Stand-alone Scrambling
- Country-Specific Scrambling content
- Payroll & Time Comparison
- Data import through Files

### BI
- Time-Based Data Reduction for Individual Info Areas
- Data import through Files
- PSA Data Eliminated

### CRM
- Time-Based Reduction
- Transfer of Master Data and Customizing
- Full Transfer of Client-Specific Data
- Data import through Files

### SCM
- Time-based Reduction
- SAP LiveCache reduced by Date and Planning Version
- Demand Planning for BI
- APO data reduced based on time
- Full Transfer of Client-Specific Data
- Data import through Files

### SRM
- Time-based Reduction
- Transfer of master data and Customizing
- Consistent document flow
- Full Transfer of Client-Specific Data
- Data import through Files

### IS
- Object-Based reduction for SAP Banking
- Object-Based reduction for SAP CRM for Utilities
- Object-Based reduction for SAP Retail
- Object-Based reduction for SAP Utilities
- Time-Based Reduction for SAP Oil & Gas (Downstream)

### GTS
- Reduced post-transfer processing activities
- Seamless integration with other applications
- Full Transfer of Client-Specific Data
The Data Migration platform provides a consistent user experience with the help of the following features:

**Work center**
- Central point of access to manage and document your migration projects. Provides access to project methodology, analyses, and the process tree to execute the technical migration

**Portfolio**
- Set of portfolio items that contain the relevant migration solutions

**Project templates**
- Facilitates the creation of a migration project for SAP TDMS

**Projects**
- Set of steps to define and execute migration solutions required to refresh the data in the non-production landscape
The Data Migration platform provides a unique foundation for all migration solutions with the help of the following technologies:

**Shell creation**
- Creates new systems by copying only the repository and cross-client data from the sender system to the receiver system

**Data Scrambling Workbench**
- Protects sensitive data and performs data scrambling in the same system without any data transfer

**Business Process Library modeler**
- Allows you to work with a collection of business processes relevant to SAP applications

**System Landscape management**
- Defines your system landscape for the sender system, the control system, and the receiver system

**Analyses and reports**
- Performs analyses for your system landscapes and test volumes. Monitors project execution
**Portfolio**

- Is a collection of your business requirements for data migration for a particular application-specific solution.
- Assists you to select the most suitable migration solutions.
SAP Test Data Migration Server (TDMS) 4.0

SAP TDMS WORK CENTER : PROCESS TREE

Process Tree
- A collection of activities for a particular migration solution organized in a hierarchy of phases
- Guides through all necessary activities
- Transferring relevant and consistent data from the production system to the appropriate non-production system.

Every activity has a detailed description (available also via hyperlink)

Troubleshooting guide for specific aspects

A console to track the execution status of activities in a TDMS migration package.

Status and progress tracking of technical migration
SAP Test Data Migration Server (TDMS) 4.0
Use cases
SAP Test Data Migration Server (TDMS) 4.0

USE CASES

- Refresh of data in development systems
- Build & flexibly refresh training systems
- Build lean project systems
- Build & easily refresh maintenance systems
- Protect sensitive data
**USE CASE EXAMPLE I: REFRESH OF DATA IN DEVELOPMENT SYSTEMS**

**Before SAP TDMS**

- **PR1**: 1.5 TB
  - Full Copies
  - No easy way to bring current data to DEV

- **QA1**: 1.5 TB

- **TRN1**: 1.5 TB

- **DEV1**: 200 GB

  - Stale data

**With SAP TDMS**

- **PR1**: 1.5 TB
  - Reduced copies

- **QA1**: 300 GB

- **TRN1**: 300 GB

- **DEV1**: 100/200 GB

  - Selective data copies possible into DEV

  - Current data
Use Case Example II: Build and Flexibly Refresh Training Systems

**Goal:** Provide a repeatable process to build and refresh training clients – as subsets, full copies, and with flat file option for easy ‘resetting’ activities.
SAP Test Data Migration Server (TDMS) 4.0
USE CASE EXAMPLE III : BUILD LEAN PROJECT SYSTEMS

Goal: Provide a standardized approach to deliver project systems with only master and configuration data with out transactional data.

Step 1
Copy Repository and Client-independent Configuration Data (SAP TDMS Shell Creation)

Step 2
Copy Client-dependent Configuration Data plus All Client-dependent Master Data WITHOUT Client-dependent Transactional Data (SAP TDMS Master Data & Customizing) & Apply Scrambling Routines (e.g. customer/vendor data))
SAP Test Data Migration Server (TDMS) 4.0
USE CASE EXAMPLE IV. – BUILD & EASILY REFRESH MAINTENANCE SYSTEMS

Goal: Provide a quick & easily-repeatable process for functional teams to transfer Master Data or Transaction Data for troubleshooting.

Step 1
Create new client in existing SAP system via Client Copy (Customizing Only), or run TDMS Master/Data Customizing scenario to bring existing source and target client in sync (Client-dependent Customizing)

Step 2
Copy subset of Client-dependent Master Data only (e.g. Material Master), or Client-dependent Transaction Data with corresponding Master Data (e.g. Sales Order)
USE CASE EXAMPLE V : PROTECT SENSITIVE DATA

Before TDMS

After TDMS
SAP Test Data Migration Server (TDMS) 4.0 File-Based Scenario
USE CASES AND BENEFITS

Use Cases
- You want to carry out a TDMS data transfer but there is no direct connection between your production system and the non-production system.
- Due to security reasons, the production system is not allowed to connect to non production systems via RFC.
- You want to set up multiple test systems with the same dataset.
- Your production and non-production system are in different data centers located in different geographical areas.

Benefits
- Creates multiple receiver systems without impacting the sender system
- Copies and transfers data across data centers
- Can create export files for the same dataset
SAP TDMS 4.0 File-Based Scenario
OVERVIEW AND ARCHITECTURE

TDMS Data Extract Export Package
(no connection to Receiver)

TDMS Data Extract Import Package

S: Sender System  P: Control System  C: Central System
S': Virtual Sender System  P': Control System  C': Central System  R: Receiver System
A **system shell** is an SAP system that only contains client-specific master data and the required client specific user and address data but no transactional data.

TDMS Shell Creation

- Reduces the data size in the copy process

Shell System doesn’t contain:
- Client specific customizing
- Client specific application data
SAP TDMS Shell Creation
USE CASES AND BENEFITS

Use Cases
- The sender system and receiver system repositories are not synchronized
- You are setting up a new receiver system

Benefits
- Copies only the repository and client-independent data from the sender to the receiver system
- Ensures that the execution system repositories are identical to prevent any loss of data during transfer
- Enhances the export time for extremely large systems since only very limited data is exported. The target system is reduced in size
- Less hardware resources on target system (e.g. disk space, CPU)
- No major DB reorganization needed
SAP TDMS 4.0 Full-Client Transfer
USE CASES AND BENEFITS

Use Cases

- You have a client with less volume of data and want to migrate all the client-specific data of this client to the non-production system.
- You use client copy and the post processing activities take long time
- You would like to do client copy with scrambling

Benefits

- Full-client transfer is highly efficient and provide high performance
- No post-transfer processing like logical system names conversion
- Completely integrated with scrambling
- The following migration solutions are available for this requirement:
  - Full Transfer of Client-Specific Data for SAP ERP
  - Full Transfer of Client-Specific Data for SAP CRM
  - Full Transfer of Client-Specific Data for SAP SRM
  - Full Transfer of Client-Specific Data for SAP SCM
  - Full Transfer of Client-Specific Data for SAP GTS
SAP Test Data Migration Server (TDMS) 4.0 Architecture
SAP TDMS 4.0 High-level Architecture

1. Data Selection (cluster)
2. Data Deletion
3. Data Transfer
4. Scrambled Data
SAP TDMS 4.0 Full-Client Transfer
ARCHITECTURE

Sender System

Control/Central System (Recommended Solman)

Receiver System

RFC Connection

Full Client Data Selected

Full Client Data Transferred
SAP Test Data Migration Server (TDMS) 4.0
Data Scrambling
SAP TDMS 4.0
SCRAMBLING ARCHITECTURE

Production System  \|  SAP TDMS  \|  Test System

Original Data  \|  Scrambled Data  \|  Scrambled Data (Cluster)

Important: 1. Sensitive Data does NOT leave PRD.
2. TDMS can also scramble data in cluster tables.
SAP TDMS 4.0 Data Scrambling

BENEFITS

Data scrambling is a security measure to protect confidential data from internal and external threats. This security measure masks the sensitive data to prevent the risk of exposure to unauthorized users. The data scrambling features with SAP TDMS help prevent the loss of sensitive data or the unauthorized access of confidential data in the non-production systems.

- You want to mask and transfer sensitive employee data so that you can outsource the testing process to a third party
- You want to consistently mask all sensitive data in your ERP non-production system
- You need a platform to define your own rules to scramble the sensitive data
- You have set up a non-production system using a standard tool such as system copy/client copy. Now you would like to scramble data in the same system
SAP TDMS 4.0 Data Scrambling

FEATURES

The Data Scrambling Work Center

- One UI for all scrambling needs
- Display of standard rules, create new rules and scrambling content
- Wizard based rule creation
- Content and rules validation on the fly
- Simulation of scrambling results
- Searchability of rules and content

Ready-to-Use Content

- Material Number
- Customer number and Address Data
- Vendor Number and Address Data
- Personnel Data
- Credit card Data
SAP TDMS 4.0 Stand-Alone Scrambling

ARCHITECTURE

TDMS Central/Control System

Scrambling Workbench

RFC Connection

Execution System

Original Data

Scrambled Data
SAP TDMS 4.0 Stand-Alone Scrambling

BENEFITS

- Stand-Alone scrambling allows data scrambling in the same system
- Carry out scrambling with ready-to-use content or define your custom scrambling with scrambling workbench
- Define scrambling rules, create content, and reuse standard content for all scrambling needs
- Integrate the scrambling rules with any TDMS migration solution.
- Compact process tree
- Definition and modification of scrambling rules for specific projects and packages
SAP TDMS 4.0 Logical System Conversion

What is Logical System Name:

The Logical System Name (LOGSYS) is used in SAP systems to distribute data between various systems and clients.

Use-Case

Post-processing activity of Logical System Conversion after a System copy/Client Copy is very time consuming.

Benefits

- In SAP TDMS Stand-Alone Conversion for Logical System Rename, the conversion is guided in a compact process tree
- High performance with save in time effort.
SAP Test Data Migration Server (TDMS) 4.0
Business Process Library
SAP TDMS 4.0 for BPL
USE SELECTIVE DATA TRANSFER

Important:
1. Identification of erroneous business object in Production system
2. Business Process library selects and transfer only erroneous objects
3. Issue resolution in Development environment
SAP TDMS 4.0 for BPL
BUSINESS OBJECTS AND BENEFITS

SAP delivered BPL Objects are available for SAP ERP and some objects for certain industry solutions. Following are main categories of BPL Objects:

- Master data
- Transactional data
- Process Data
- Common sub-objects
- Custom objects
- Data Import through files

Use Cases

- You can transfer a lean and business-relevant data rather than going in for a full system or client copy. You can choose data based on your business process.
- You want to transfer some sales order data or accounting data related to some purchase order which is missing in your non-production system.
- You need to transfer all data related to a Project in the Project systems workspace
- You want to transfer the number ranges from production to the receiver system
- You want to transfer a set of Z tables from the production system to the quality/test system
SAP TDMS 4.0 Business Process Library

STANDARD BUSINESS OBJECTS

Master Data
- Business Partner
- Number Range Object
- Material
- Vendor
- Customer
- G/L Account A
- G/L Account B
- Asset (FI-AA)
- Functional Location
- Equipment
- Internal Order
- Profit Center
- Project (PS)
- Cost Center
- Purchasing Info Record
- Work Center
- Material BOM
- Article (Retail)
- Insurance Object (FS-CM)
- Contract (FS-CM)
- Loans Contract
- Asset (CFM)
- Contact Person

Custom Data
- Empty scenario for custom-specific objects

Transaction Data with Corresponding Master Data
- Accounting Document
- Purchase Requisition
- Purchase Order
- Sales Order
- Material Document
- CO Document
- Sales Invoice
- Incoming Invoice
- Quality Notification
- Maintenance Order
- Delivery
- Physical Inventory Document
- Allocation Table (Retail)
- FI-CA Document

Process Data
- Purchase Order
- Sales Order
- Production Order
- Process Order
- Insurance Object (FS-CM)
- Contract (FS-CM)
- Loans Contract
- Asset (CFM)
- Bank Account (BCA)
- Contract (IS-U)
- Installation (IS-U)
- Business Partner (IS-U)
- Delivery
- Incoming Invoice
- Purchase Requisition
- Sales Invoice

Common Sub-objects
- Address data
- Bank master
- Change documents
- Standard texts
The BPL Modeler is a modeling tool to model business processes in the form of BPL objects.

Using the BPL Modeler, you can carry out the following actions:

- View the predefined BPL objects along with hierarchy of tables and sub objects, their dependent sub objects and underlying tables
- Create a new BPL object of your own based on your requirements.
- Extend a standard object by copying it into a customer namespace
SAP Test Data Migration Server (TDMS) 4.0
SAP TDMS ERP HCM
### SAP TDMS 4.0 for SAP ERP HCM

#### THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>• You have a problem with a specific employee’s payroll and would like to transfer this single employee with his or her associated data to your test environment for further investigation.</td>
</tr>
<tr>
<td>• You want to conduct training or testing and hence you want to transfer organizational unit data and the corresponding master data to the appropriate system.</td>
</tr>
<tr>
<td>• You want to refresh the relevant client in the receiver system with HCM-specific data from the sender system.</td>
</tr>
<tr>
<td>• You may want to ensure data privacy for the HCM data transferred to the receiver system.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Migration Solutions</strong></td>
</tr>
<tr>
<td>▪ Transfer of PA Data for SAP ERP HCM</td>
</tr>
<tr>
<td>▪ Transfer of PD and PA Data for SAP ERP HCM</td>
</tr>
<tr>
<td>▪ Transfer of PD and PA Data for SAP ERP HCM (Expert)</td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
<tr>
<td>▪ A flexible selection for personnel numbers and structures so that specific personnel data is selected.</td>
</tr>
<tr>
<td>▪ Integration of the Scrambling workbench with TDMS HCM to enable the use of scrambling rules and ready-to-use scrambling templates for various countries.</td>
</tr>
<tr>
<td>▪ Cluster data is scrambled</td>
</tr>
<tr>
<td>▪ Selection of HCM objects functionality is integrated in the TDMS HCM process tree</td>
</tr>
<tr>
<td>▪ Define HCM objects (personnel numbers, PD-Objects, Relations) based on complex business criteria</td>
</tr>
<tr>
<td>▪ TDMS for HCM provides the option for integration with the complete authorization concept or with a partial version.</td>
</tr>
<tr>
<td>▪ The use of the logical database and ad-hoc query of the core HCM module.</td>
</tr>
</tbody>
</table>

*See Details in SAP Note: 1619059*

*Supported Releases: SAP ERP HCM 4.7 and above*
SAP TDMS 4.0 for SAP ERP HCM
SAP TDMS FOR HCM : DETAILS

Scrambling

- ANY HCM data can be scrambled (also data in cluster tables)
- Content dependencies are taken into account
- Grouping of content absolutely freely possible
- Scrambling templates available for 30+ countries

Customizing

- Option to customize specific target number range per user
- Option to exclude specific employees from transfer
- Option to set maximum number of objects per user
- Option to exclude objects and info types of a table from transfer
- Option to include customer-specific info types/tables

Authorizations

- Standard SAP HCM authorizations are active
- Capability to assign activities to activity groups
Transfer of E-Recruiting objects (Requisition, Job Posting, Application, Candidacy, Talent Group, Internal Candidate, External Candidate and Business Partner) and their relationships.

Transfer of HCM processes and forms data based on cut-off date.

Possible to transfer data of the PA and PD processes for personnel number and object ID.

- Transfer of HCM processes and forms data based on cut-off date.
- Possible to transfer data of the PA and PD processes for personnel number and object ID.
SAP Test Data Migration Server (TDMS) 4.0
Analyses and Reports
The Analyses and Reports work center provides you with information on how to use different reports for different analysis:

- System Parameter Details
- Transfer Performance
- Table and Field Comparison

**System Parameters Details**
This report provides data about recommended system settings for a TDMS run.

**Transfer Performance**
This report provides information about the performance of a data transfer.

**Table and Field Comparison**
This report provides Table and Field Comparison: Provides a comparison between the repository in the sender system and that in the receiver system.

**Adjust Refresh Settings for a Work Center Package**
This report enables you to set the intervals for a status refresh for the migration process tree and the relevant Process Execution Manager dialog block.
SAP Test Data Migration Server (TDMS) 4.0
SAP TDMS ON HANA
Transition to SAP Business Suite powered by SAP HANA with SAP Test Data Migration Server 4.0

Overview
With SAP TDMS 4.0, you can move your business data or consolidate your landscape while transitioning to SAP Business Suite powered by HANA.

Build the HANA non-production system with a reduced set of data based on the repository of SAP system running on a traditional DB.

Build non-production systems with a reduced set of data by reading from HANA DB into HANA DB.

Benefits
- TDMS shell creation can be carried out on a HANA database
- SAP TDMS 4.0 can run on SAP Business Suite powered by SAP HANA
- SAP TDMS on SAP HANA is significantly faster than on a few other databases

TDMS header runtime comparison
SAP Test Data Migration Server (TDMS) 4.0
Fiori App
Manage TDMS Execution is a transactional FIORI app to help the TDMS user execute, monitor and troubleshoot several TDMS activities. The app will not replace existing product but has to be used in conjunction with TDMS backend.

The TDMS Fiori app - Manage TDMS Execution - is based on our existing application SAP Test Data Migration Server 4.0.

Manage TDMS Execution is a simple and easy to use experience that works seamlessly across devices – desktop, tablet, or smartphone.
SAP Fiori App for SAP TDMS 1.0
FEATURES

• Features
  • Simple and easy to use app that works seamlessly across devices
  • Modular execution of PEM blocks for TDMS packages
  • Monitoring of TDMS transfer and system parameters
  • Troubleshooting the most frequent TDMS errors from any device

Software Components
The TDMS Fiori app follows the Fiori design paradigm at SAP and has the same look and feel (Master and Detail Panels) as other transactional apps. In addition to the TDMS software components DMIS 2011 and DMIS_CNT 2011, the Fiori features are delivered with the additional software components DMIS_MOB (backend) and UICSLO01 (frontend in the Fiori bundle).

<table>
<thead>
<tr>
<th>Frontend (Part of Fiori bundle)</th>
<th>Backend (Part of TDMS Application)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDMS Fiori UI Add-on - UICSLO01</td>
<td>DMIS_2011 SP07 and DMIS_CNT_2011 SP07</td>
</tr>
<tr>
<td></td>
<td>DMIS_MOB SP04</td>
</tr>
<tr>
<td>SAP NetWeaver 731 or above</td>
<td>SAP NetWeaver 700 or above</td>
</tr>
</tbody>
</table>
SAP Test Data Migration Server (TDMS) 4.0
TDMS further information
SAP Test Data Migration Server (TDMS) 4.0
SOFTWARE COMPONENTS AND SUPPORTED RELEASES

SAP TDMS – Control/Central System
(NetWeaver – 7.0x and above)
- DMIS_CNT 2011
- DMIS 2011
- SAP_ABA
- SAP_BASIS

Sender/Receiver Systems
(Release 4.7 – 731)
- DMIS_CNT 2011
- DMIS 2011
- SAP_ABA
- SAP_BASIS

<table>
<thead>
<tr>
<th>Add On</th>
<th>620</th>
<th>640</th>
<th>70X</th>
<th>7XX</th>
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</thead>
<tbody>
<tr>
<td>DMIS_2011</td>
<td>2011_1_620</td>
<td>2011_1_640</td>
<td>2011_1_70X</td>
<td>2011_1_7XX</td>
</tr>
<tr>
<td>DMIS_CONT_2011</td>
<td>2011_1_620</td>
<td>2011_1_640</td>
<td>2011_1_70X</td>
<td>2011_1_7XX</td>
</tr>
</tbody>
</table>
SAP Test Data Migration Server (TDMS) 4.0
APPLICATION SUPPORTED RELEASES

Requirements for TDMS Server (Control / Central System)
- SAP WebAS 7.00 or higher
- Minimum 4000 SAPS, 20 GB hard drive

Lowest supported Releases
- ERP: 4.7
- HCM: 4.7
- BW: 7.0 (latest SP’s only)
- CRM: 5.0
- SCM: 7.0
- SRM: 7.0
- GTS: 8.0
- SAP Retail: 6.0
- SAP Oil & Gas: 4.7
- SAP for Banking: 6.0
- SAP for Utilities: ERP 6.0, CRM 6.0
Further Information SAP Test Data Migration Server
REGIONAL CONTACTS

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- Contact: Peter Keller
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- Phone: +1 (610) 209-4544

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- E-Mail: nilguen.atasoy-celik@sap.com
- Phone: +49 622 77-65739

**APJ**
- Contact: Milesh J
- E-Mail: milesh.j@sap.com
- Phone: +91 (80) 4329-8059
Key links for more information
FOR CUSTOMERS AND PARTNERS

Key links

- Road maps @ SAP.COM

- SAP TDMS @ SAP.COM

- SAP TDMS @ SAP Support portal
  [https://support.sap.com/tdms](https://support.sap.com/tdms)

- SAP TDMS @ SAP Community Network

- SAP TDMS @ SAP Help Portal

- SAP TDMS Trainings

- SAP TDMS – Executive Video
  [http://www.youtube.com/watch?v=scEgsItVKwE](http://www.youtube.com/watch?v=scEgsItVKwE)
SAP Test Data Migration Server Software
3000+ SHIPMENTS TO DATE
SAP Test Data Migration Server (TDMS) 4.0
TDMS Support Services
SAP Test Data Migration Server
COMPLEMENTED BY SAP LT SUPPORT SERVICES: FOR SAP PREMIUM ENGAGEMENT CUSTOMERS

SAP TDMS Evaluation Service

- SAP experts evaluate your migration requirements
- SAP experts identify the best solution approach to set-up a lean integrated non-productive landscape using TDMS
- Support you to address migration requirements that have customer-specific aspects

SAP TDMS Execution Support Service

- Various options like Proof of Concept, implementations
- services, Optimization and Upgrade services to choose from
- SAP experts empower you, provide step-by-step guidance and expert support.

For further information please contact your Premium Engagement Architect or TQM
SAP Test Data Migration Server (TDMS) 4.0

TDMS Success stories
AGL Leverages Consistently Scrambled Confidential Data On Different Systems From SAP® TDMS

QUICK FACTS

AGL Energy Ltd
- Location: Sydney, NSW, Australia
- Industry: Utilities
- Products and Services: Integrated Renewable generation, Thermal generation and Gas production
- Revenue: $7B
- Employees: 5000
- Web Site: www.agl.com.au
- SAP Solutions: SAP TDMS
- For more Information Click Here

Challenges
- Cost and risk of testing in the non-production environment
- Creating and refreshing non production systems (test, training, quality assurance, development systems) with a reduced dataset.

Implementation Highlights
- Protected customer confidentiality by ‘Scrambling’ data in target systems to ensure compliance and information security
- World’s first ISU & CRMU implementation with TDMS v4 framework
- 150+ Test Cases validated by the customer post TDMS Refresh
- Improved quality of development and training activities by using business-relevant and up-to-date test data.
- Support independent project schedules by selectively creating/refreshing single clients of your non-productive systems

Why SAP
- Reliability, stability and scalability of SAP software
- SAP TDMS satisfied majority of business requirements
- Proven leadership and expertise in the migration server industry

Benefits
- Confidential Data consistently scrambled between ISU and CRMU systems
- Target system Database sizes reduced by 90% for ISU and 85% for CRMU
- Improved quality of test data and testing results
- Efficient management of lean non-production systems with datasets reduced by 90% for ISU and 85% for CRMU
- Easier creation and refresh of non-production systems

QUICK FACTS

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- Location: Sydney, NSW, Australia
- Industry: Utilities
- Products and Services: Integrated Renewable generation, Thermal generation and Gas production
- Revenue: $7B
- Employees: 5000
- Web Site: www.agl.com.au
- SAP Solutions: SAP TDMS
- For more Information Click Here
Harley-Davidson, Inc. Reaps Benefits Of Using SAP Test Data Migration Server (TDMS) Software

Implementation Highlights
- Provided special functionality within the TDMS tool to scramble sensitive, private data

Why SAP
- SAP TDMS tool is most comprehensive solution for data extraction in the market

Benefits
- Reduced data volume by nearly 50% in non-production landscape
- Provided opportunity to reduce hardware costs
- Enabled resources to be utilized for innovation rather than manual system refresh activities
- Improved ability to provide data to the business faster and more accurately
- Improved test data in development allows us to catch defects earlier in the development cycle
- Enabled privacy settings for sensitive data

Challenges
- Increasing growth and data volumes negatively affected performance
- Improve quality of testing in ERP development and QA systems
- Scramble sensitive data in all ERP non-productive systems
- Ensure storage and infrastructure costs to a minimum in ERP non-production systems

Objectives
- Enhance ability to automate the process of doing partial system copies
- Utilize SAP TDMS to refresh data in development and QA systems – scrambling sensitive data
- Reduce the amount of data in non-production systems
- Document repeatable processes for refreshing test data in non-production systems
- Have SAP Consulting set up and configure TDMS together with knowledge transfer around TDMS

QUICK FACTS

Harley-Davidson, Inc.
- Location: Milwaukee, Wisconsin
- Industry: Automotive
- Products and Services: Automotive Suppliers
- Revenue: $5.59 billion (2008)
- Employees: 10,000
- Web Site: www.harley-davidson.com
- SAP Software: SAP Test Data Migration Server
- SAP Services: SAP Consulting

“SAP TDMS is a powerful tool that allows us to flexibly extract and transfer data from production to development and QA. This process enabled us to save valuable disk space, time, and resources.”

Brad Lechmaier
Senior Project Manager
Harley-Davidson, Inc.
Kraft Foods, Inc. Realizes Benefits With SAP® Test Data Migration Server (TDMS) Software

QUICK FACTS

Kraft Foods, Inc.
- Location: Chicago, Illinois
- Industry: Consumer products
- Products and Services: Food and beverages
- Revenue: US$40.4 billion (2009)
- Employees: 98,000
- Web site: www.kraft.com
- SAP® software & services: SAP® Test Data Migration Server, SAP® Consulting, SAP® MaxAttention

“SAP® Test Data Migration Server software is a powerful tool which helps us reduce disk space and SAP® basis resources while improving the quality of data available in our nonproduction environments for development, testing, and training activities.”

John Jarvis
Associate Business System Manager, SAP CoE
Kraft Foods, Inc.

Challenges
- Low-quality test data in nonproduction landscape for testing purposes
- Exploding storage requirements
- Time-consuming process for system copies
- Infrequent refresh cycles of non-production environments, hence outdated test data

Objectives
- Provide better data more frequently for testing and training
- Create streamlined, repeatable, and low-impact process for nonproduction landscape refreshes
- Reduce time to create system copies
- Increase refresh frequency
- Reduce personnel overhead associated with system refreshes

Implementation Highlights
- Close cooperation and outstanding support provided by SAP®
- Successfully piloted SAP® TDMS for SAP® CRM and BW systems
- Provided the capability to handle large database volumes

Why SAP
- Most comprehensive solution on the market for test data provisioning
- Provides tools and best practices to enable application lifecycle management

Benefits
- Improved quality of test data and testing results
- Enabled a repeatable process for refreshing nonproduction systems
- Reduced disk requirements in non-production landscape by 65%
- Reduced system refresh time by 50%
- Reduced basis resource needs by 80%
- Increased refresh frequency by 65%
Nike Inc. Utilizes SAP® TDMS To Accelerate Consolidation Of Non-Production Systems

QUICK FACTS
Nike Inc.
- Location: Beaverton, Oregon
- Industry: Consumer Products
- Products and services: Athletic clothing, shoes, and equipment
- Revenue: US$18.6 billion
- Employees: 32,500
- Web site: www.nike.com
- SAP® services: SAP Consulting, SAP Enterprise Support, SAP MaxAttention

Challenges
- Complex non-production system landscape increases difficulty to manage system copy activities
- Very large database with a total of 25 terabyte of production data
- Data centers in separate physical locations
- Multiple landscape copies needed for different releases, production support, training, and continuous improvement

Implementation Highlights
- Fast and efficient process facilitated with close interaction by SAP and Nike

Why SAP
- SAP Test Data Migration Server is a powerful and proven tool implemented by experienced consultants

Benefits
- Provided standardized processes to help ensure continuity
- Reduced bug-fixing cycle times
- Reduced the number of transports
- Improved availability of production data in development environment
- Helped create training environment to accommodate different scenarios
- Reduced the combined production database from 25TB to 3.2 TB in the non-production environment
- Upgrade Tests to ERP 6.3 were able to leverage a realistic subset of production data

“SAP Test Data Migration Server helped us accelerate our ability to consolidate our non-production systems while increasing the efficiency of the process. As a result, we reduced our combined database from 25TB to 3.2 TB and now have a more centralized SAP landscape.”

Michael Giessner
SAP CoE Architect
Nike inc.

Objectives
- Reduce disk requirements for non-production landscape
- Consolidate multiple single-client systems into single multi-client system for development and training
- Build the production support QA systems
- Move data back into development environment from production
QUICK FACTS

VBL
(Founded 1929)
The Versorgungsanstalt des Bundes und der Länder (VBL) has been providing public-sector occupational pensions for 80 years. It is the largest provider of supplementary pensions in Germany. Currently some 5,400 participating employers and about 4.3 million insured employees use VBL’s services. VBL manages more than €12 billion of employee and employer contributions.

- Headquarters: Karlsruhe
- Industry: Insurance
- Employees: 955 (2013)
- Web site: http://www.vbl.de/
- SAP solutions and services: SAP Test Data Migration Server

Project Objectives

- Create compliant test systems
  - Pseudonymized
  - Size reduced
  - Easy to create
  - Consistent throughout the landscape
- Tackle highly confidential data

Key Challenges

- Consistency across all processes and all applications, especially:
  - FS-BP, FS-CM, FS-CD
  - and VBL custom-developed applications:
    - Candidacy
    - HCM (used for payments)
    - Bonus System (ZL)
- Cope with constantly changing public regulations

Highlights

- Integrate highly sophisticated VBL applications into TDMS to meet public legal insurance requirements
- Data model creation in 2 test cycles ONLY
- Consistent pseudonymization of critical personal data throughout the VBL systems
- Offer to address single business partner migration covering all processes
- Great communication between VBL and SAP/SLO teams

Key Figures

- Database size: 2.2 TB
- 292 table fields pseudonymized
- 701 tables (mostly VBL developed) included in one data model
- Data model integration effort: 60 days

Why SAP

- SAP the software vendor offers additional flexibility to build and use object-based data model
- Easily integrate custom-developments
- SAP can cover all standard and non-standard applications
ABB: Building a reliant and consistent non-production environment via SAP Test Data Migration Server

QUICK FACTS

ABB Switzerland Ltd.
Location: Zurich, Switzerland
Industry: Automation and Power Technologies
Products and Services: Energy production and distribution
Revenue: $35.5 billion (2015)
Employees: 140 k
Web Site: http://www.abb.com
SAP Software: SAP Test Data Migration Server
SAP Services: SAP Consulting

“...The introduction of TDMS 4.0, including the implementation of engineering requirements, planning and scheduling of deliverables (budgeting, sourcing) and handover to the operation was extremely successful, precisely timed and within the established budget.”

Rene Jappert, SAP Application Manager, ABB Ltd.

Challenges
- Goal for the set up of the QA systems was to create a consistent and homogeneous Data copy (PS solution), take into account all the custom modification which are part of the system, meet timeline requirements set by ABB such as downtime of the QA systems, and also the ALE scenario which remained untouched
- Currently scrambling for HCM data ONLY - might be changing for the future set up

Implementation Highlights
- QA system resembled now the production systems – finally a consistent environment

Why SAP
- The excellent knowledge and extensive experience of DM&LT helped tackle the project requirements.

Benefits
- Reduction of data storage costs
- Data consistency in all QA systems
- The existing interfaces remained the same
- Time reduction for data processing
- Performance enhancement regarding runtime

Objectives
- Realize a new TDMS 4.0 installation
- Creation of homogeneous data copy
- Ensure consistency of data
- Scrambling for HCM data
- Meet strict downtime requirements
- Meet the salary data requirements
Tenaris: Creating Consistent and Manageable Test Systems with SAP® Test Data Migration Server

QUICK FACTS

Tenaris
- Location: Luxembourg City, Luxembourg
- Industry: Oil and gas
- Products and Services: Steel pipes for the oil and gas, utilities, and automotive industries
- Revenue: US$10.6 billion (2013)
- Employees: 26800
- Web site: www.tenaris.com
- SAP® software & services: SAP® Test Data Migration Server

Challenges
- More compact testing landscape without negative impact
- Compromising data quality, consistency, or relevance
- Restriction of the selection of data to only the preceding year

Objectives
- Create consistent system clients and enable full compliance for test systems • Reduce system size, create easy-to-use systems, and ensure the consistency of the entire system landscape
- Guarantee full data privacy
- Enable easy, fast preparation of new environments for training, sandbox creation, and quality management

Implementation Highlights
- 3-month project comprising 2 test cycles
- Creation of a nonproductive system to house repository and customization
- Scrambling and anonymization of sensitive data
- Knowledge transfer from a previous SAP® Test Data Migration Server (SAP TDMS) software project
- Effective communication between Tenaris and the System Landscape
- Optimization group from SAP Consulting

Why SAP
- Software solutions from SAP – an ideal partner for all specific software requirements in the industry – was the best option for achieving the company’s functional objectives.

Benefits
- Improved quality of development and training test data
- Improved accuracy of test cases with more up-to-date system data
- Simplified and validated way to refresh existing test cases with new data

“‘We worked only with SAP experts; we already knew their expertise from a previous project involving human capital management. We trusted SAP as the best partner to carry out this new project.’
Daniel Aragno, IT Project Leader, Tenaris.”

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Appendix
SAP Test Data Migration Server (TDMS) 4.0

QUICK FACTS

SAP TDMS is compatible with Suite on HANA, cloud solutions

SAP TDMS was certified for protecting sensitive data – European Privacy Seal

SAP TDMS has 3000+ shipments to date

SAP TDMS does regular SAP References Live! Calls

SAP TDMS increases data quality and flexibility, reduced infrastructure expenditures and expenses for testing & development, improves the efficiency by reducing the administrative effort
SAP Test Data Migration Server (TDMS) software
EFFICIENCY, EFFECTIVENESS and LOWER COST

Effective
Helps customers to significantly reduce storage requirements in non-production SAP environments

- Database size of the target system reduced by 90%
- Improved quality of training and test data and testing results
- Quicker and easier creation and refresh of non-production systems

Efficient
Allows customers to catch defects earlier in the development cycle, thereby shortening development cycles

- Reduced disk requirements by 65%
- Reduced system refresh time by 50%
- Reduced basis resource needs by 80%
- Increased refresh frequency by 65%

Protecting sensitive data
Data scrambling capabilities allows companies to protect sensitive data of customers, vendors, or employees

- Enabled resources to be utilized for innovation rather than manual system refresh activities
- Improved ability to provide data to the business faster and more accurately
- Improved test data in development allows us to catch defects earlier in the development cycle
- Enabled privacy settings for sensitive data
Appendix
Solution in detail – one slider
## SAP TDMS 4.0 for SAP ERP

### THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
<th>You want to slice the data in the production system based on time and migrate the relevant data to the non-production system and also scramble the data before it reaches to the testers. Also ensure that the data migration is carried out consistently.</th>
</tr>
</thead>
</table>

### Solution

<table>
<thead>
<tr>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ Shell Creation for SAP ERP</td>
</tr>
<tr>
<td>▪ TDMS 4.0 for ERP Classic:</td>
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<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>▪ TDMS Business Process Library (BPL) - Predefined business objects and process data</td>
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</tr>
</tbody>
</table>

See Details in SAP Note: 1713981

Supported Releases: SAP ERP 4.7 and above

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## SAP TDMS 4.0 for SAP BI

### THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
<th>You found out that the BI test system did not have real production data as the productive data was sensitive and the customer did not want to expose it to the testers. So SAP TDMS for BI can be used to transfer a subset of real production data into the test while also scrambling the sensitive data.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Solution Features</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell Creation for SAP NetWeaver BI - Repository and client-independent data only</td>
<td><strong>Use Cases</strong></td>
</tr>
<tr>
<td>Time-Based Reduction for SAP NetWeaver BW</td>
<td>Reduce data volume on test systems when copying from large BW production systems</td>
</tr>
<tr>
<td><strong>Use Cases</strong></td>
<td>Create BI system shell and later populate it with reduced set of transactional data</td>
</tr>
<tr>
<td></td>
<td>Retain administrative objects and data in the target system (interfaces, user, authorizations, etc.)</td>
</tr>
<tr>
<td></td>
<td>Setup lean training/test systems with selective and relevant data</td>
</tr>
<tr>
<td></td>
<td>Scramble sensitive data in the non production BI systems</td>
</tr>
<tr>
<td></td>
<td>All Master Data is transferred in full</td>
</tr>
<tr>
<td><strong>Reduction is achieved in ODS and InfoCube tables</strong></td>
<td><strong>See Details in SAP Note:</strong> 1713981</td>
</tr>
<tr>
<td></td>
<td>• ODS tables are similar to transparent tables in ERP &amp; reduced similarly</td>
</tr>
<tr>
<td></td>
<td>• Only Active data in ODS is transferred. Change log and new data could be optionally transferred</td>
</tr>
<tr>
<td></td>
<td>• InfoCube tables are reduced based on time dimension</td>
</tr>
<tr>
<td></td>
<td>• All InfoCube and ODS objects irrespective of the functional area are reduced</td>
</tr>
<tr>
<td></td>
<td>• Customer created InfoCube and ODS objects are reduced as well</td>
</tr>
<tr>
<td><strong>Supported Releases:</strong> SAP BI 7.0 and above</td>
<td><strong>Supported Releases:</strong> SAP BI 7.0 and above</td>
</tr>
</tbody>
</table>
## SAP TDMS 4.0 for SAP CRM

### THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
<th>You want to migrate your CRM data in a reduced form based on the CRM business processes such as Marketing, Sales, Service, Partner channel, Interaction center and Web channel to your non-production system.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ Shell Creation for SAP CRM - Repository and client-independent data only</td>
<td></td>
</tr>
<tr>
<td>▪ TDMS 4.0 for CRM Classic:</td>
<td></td>
</tr>
<tr>
<td>▪ Time-Based Reduction for SAP CRM - Master and configuration data only</td>
<td></td>
</tr>
<tr>
<td>▪ Transfer of Master Data and Customizing for SAP CRM</td>
<td></td>
</tr>
<tr>
<td>▪ Time Full Transfer of Client-Specific Data for SAP CRM</td>
<td></td>
</tr>
<tr>
<td>▪ Data Import Through Files for SAP CRM</td>
<td></td>
</tr>
<tr>
<td>▪ Mobile Clients Deploy SAP TDMS</td>
<td></td>
</tr>
</tbody>
</table>

**Use Cases**

- Reduce data volume on test systems when copying from large CRM production systems
- Populate test/development environment with real production data
- Create CRM system shell and later populate it with reduced set of transactional data
- Create a slim CRM test system for upgrade testing purposes
- Ability to repeat functions in user-defined intervals without costly consulting support
- Includes comprehensive data coverage of all CRM business processes

**See Details in SAP Note:** [1713981](https://support.sap.com/a1713981)

**Supported Releases:** SAP CRM 5.0 and above
# SAP TDMS 4.0 for SAP SCM
## THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
<th>Solution</th>
</tr>
</thead>
</table>
| You want to use shell creation for SCM to transfer all your all repository objects such as reports, DDIC structures, and table definitions completely but do not want to transfer client-specific data, master data, and transactional data. | **Features**
▪ Shell Creation for SAP SCM - Repository and client-independent data only
▪ Time-Based Reduction for SAP SCM
▪ Full Transfer of Client-Specific Data for SAP SCM

**Use Cases**
▪ TDMS for SAP SCM uses the following approach to transfer the data of different modules:
  ▪ Master data and Customizing data: Transferred completely.
  ▪ EWM transactional data: Reduced based on the time slice you specify.
  ▪ BW data: Transferred completely.
  ▪ APO: The order data stored in the liveCache reduced based on a time slice and planning versions.
▪ TDMS for SAP SCM ensures a consistent transfer of data of SCM modules that use the ODM and TSDM frameworks.
▪ SAP TDMS for SCM uses the following approach to transfer SAP liveCache data:
  ▪ SAP liveCache data: Reduced based on the specified time slice and planning versions.
  ▪ Data of Planning Version ‘000’ : Transferred by default.
  ▪ Master data: Completely transferred.
  ▪ Planning data that lies in the future: Transferred.
  ▪ Data refresh using TDMS does not disturb the liveCache configurations.

**See Details in SAP Note:** 1713981
**Supported Releases:** SAP SCM 7.0 and above

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SAP TDMS 4.0 for SAP SRM
THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>You want to slice data for SAP SRM migration solution where you want to choose the same Data slice date as in Time Based reduction for SAP ERP migration solution, to ensure consistency of data between the Receiver ERP and the Receiver SRM systems.</td>
<td>Features</td>
</tr>
<tr>
<td></td>
<td>▪ Shell Creation for SAP SRM - Repository and client-independent data only</td>
</tr>
<tr>
<td></td>
<td>▪ TDMS 4.0 for CRM Classic:</td>
</tr>
<tr>
<td></td>
<td>▪ Time-Based Reduction for SAP SRM - Master and configuration data only</td>
</tr>
<tr>
<td></td>
<td>▪ Transfer of Master Data and Customizing for SAP SRM</td>
</tr>
<tr>
<td></td>
<td>▪ Time Full Transfer of Client-Specific Data for SAP SRM</td>
</tr>
<tr>
<td></td>
<td>▪ Data Import Through Files for SAP SRM</td>
</tr>
<tr>
<td>Use Cases</td>
<td></td>
</tr>
<tr>
<td>▪ During data migration, SAP TDMS reduces data for the SRM business processes such as Shopping Cart, RFx, Strategic Purchasing and Procurement, Contract Management, Auctions and Bidding and Supplier Self-Services.</td>
<td></td>
</tr>
<tr>
<td>▪ Transfer of SRM data from the production system to the non-production system based on a time slice</td>
<td></td>
</tr>
<tr>
<td>▪ Transfer of all master data and customizing data from the production system to the non-production system</td>
<td></td>
</tr>
<tr>
<td>▪ Transfer of transactional data based on the specified time slice</td>
<td></td>
</tr>
<tr>
<td>▪ Integration between TDMS for SRM and TDMS for SAP ERP for consistency in data selection.</td>
<td></td>
</tr>
<tr>
<td>See Details in SAP Note: 1713981</td>
<td></td>
</tr>
<tr>
<td>Supported Releases: SAP SRM 7.0 and above</td>
<td></td>
</tr>
</tbody>
</table>
### SAP TDMS 4.0 for SAP GTS

#### THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
<th>You can transfer full client specific tables of SAP Global Trade Services from your production system to your non-production system.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Solution</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>▪ Reduced post-transfer processing activities</td>
</tr>
<tr>
<td></td>
<td>▪ Seamless integration with other applications</td>
</tr>
<tr>
<td></td>
<td>▪ Full Transfer of Client-Specific Data for SAP GTS</td>
</tr>
</tbody>
</table>

See Details in SAP Note: [1713981](https://www.sap.com)

Supported Releases: SAP GTS 8.0 and above
### Business Requirements

You want to slice data in the production system based on business objects such as business partners, contracts, or external accounts, and migrate the relevant data to the non-production system. You want to ensure that the data migration is carried out consistently across all functional areas and organizational units.

### Solution

**Features**

- Object-Based Reduction for SAP Retail (Store Based Reduction)
- Data import through files

**Use Cases:**

- With this migration solution, you can transfer the following types of data:
  - Reduced master and configuration data for your specified sites
  - Reduced data volume for large transaction tables based on the specified data slice date, sites, and other dependent organizational units
- The Object-Based Reduction for SAP Retail migration solution is based on the Company Code and Time-Based Reduction for SAP ERP migration solution.
- SAP TDMS for Retail reduces data consistently between the database tables for SAP ERP and SAP Retail.

See Details in SAP Note: 1711327

**Supported Releases:** SAP retail 6.0
SAP TDMS 4.0 for SAP IS-Banking

THE SOLUTION

Business Requirements
Contract Accounts and Receivable Payables (FI-CA) data in the ERP system shows a consistent integration with data in the Banking system. You want to transfer the relevant banking data to the non-production system with maximum consistencies.

Solution

<table>
<thead>
<tr>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Object-Based Reduction for SAP Banking (Loans &amp; Deposits)</td>
</tr>
<tr>
<td>- Data import through files</td>
</tr>
</tbody>
</table>

Use Cases:

- With this migration solution, you can transfer the following types of data:
- Master and Configuration data from the production system to the non-production system
- Reduced data for large transaction tables based on one of the following migration criteria:
  - Business Partners
  - External Accounts
  - Master Contracts
- Data consistent with the FI-CA component in SAP ERP
- TDMS for SAP Banking is available for Deposits Management and Loans Management

See Details in SAP Note: [1711327]

Supported Releases: SAP for Banking 6.0
SAP TDMS 4.0 for SAP IS-Utilities (ERP and CRM)

THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>You want to slice data in the production system based on business objects such as business partners, contracts, or external accounts, and migrate the relevant data to the non-production system. You want to ensure that the data migration is carried out consistently across all functional areas and organizational units.</td>
<td>Features</td>
</tr>
<tr>
<td></td>
<td>▪ SAP Utilities includes the following business modules:</td>
</tr>
<tr>
<td></td>
<td>Retail and Services, Customers and Channels, Meter Operation, Transmission and Distribution, Generation</td>
</tr>
<tr>
<td></td>
<td>▪ Object Based Reduction for SAP CRM for Utilities</td>
</tr>
<tr>
<td></td>
<td>▪ Object-Based Reduction for SAP Utilities</td>
</tr>
<tr>
<td></td>
<td>▪ Reduce data of the following business objects: Business Partner, Contracts, Installations, Devices, Point of Delivery</td>
</tr>
<tr>
<td></td>
<td>▪ Data Import through files</td>
</tr>
<tr>
<td></td>
<td>Use Cases:</td>
</tr>
<tr>
<td></td>
<td>▪ Based on the selection criteria you specify, SAP TDMS selects the data for SAP Utilities and stores the data in a format accessible to SAP CRM for Utilities.</td>
</tr>
<tr>
<td></td>
<td>▪ The TDMS Headers for this migration solution use parallel extraction processes to enable better performance.</td>
</tr>
<tr>
<td></td>
<td>▪ Integration between TDMS for SAP Utilities and TDMS for SAP CRM for consistency in data selection</td>
</tr>
<tr>
<td></td>
<td>▪ The horizontal approach represents a TDMS time slice through out the system.</td>
</tr>
<tr>
<td></td>
<td>▪ The vertical approach represents object-oriented extraction along with the complete history of the object.</td>
</tr>
<tr>
<td></td>
<td>▪ This migration solution reduces data based on business objects.</td>
</tr>
<tr>
<td></td>
<td>▪ SAP TDMS selects all historical data corresponding to your selection criteria and transfers the data to the receiver system.</td>
</tr>
<tr>
<td></td>
<td>See Details in SAP Note: 1711327</td>
</tr>
<tr>
<td></td>
<td>Supported Releases: SAP for Utilities ERP 6.0 and SAP CRM for Utilities 6.0</td>
</tr>
</tbody>
</table>
## SAP TDMS 4.0 for SAP IS-Oil and Gas

### THE SOLUTION

<table>
<thead>
<tr>
<th>Business Requirements</th>
<th>You want to slice data in the production system based on business module of SAP Oil &amp; Gas (downstream). You want to ensure that the data migration is carried out consistently across all functional areas and organizational units.</th>
</tr>
</thead>
</table>
| **Solution**          | **Features**  
▪ Time-Based Reduction for SAP Oil & Gas  
▪ Data import Through Files  
▪ SAP TDMS includes the following business modules of SAP Oil & Gas (Downstream) during migration:  
  - Exchanges (EXG)  
  - Transportation and Distribution (TD)  
  - Hydrocarbons Product Management (HPM)  
  - Interface to Terminal Automation System (TAS)  
**Use Cases:**  
▪ Transfer of SAP Oil & Gas (Downstream) data from the production system to the non-production system based on a time slice  
▪ Transfer of all master data and customizing data from the production system to the non-production system  
▪ Transfer of transactional data based on the specified time slice  
▪ Integration between TDMS for SAP Oil & Gas and TDMS for SAP ERP for consistency in data selection.  
▪ Execution of TDMS package for SAP Oil & Gas (Downstream) similar to that of the TDMS package for SAP ERP. A few additional activities are present in the process tree for TDMS for SAP Oil & Gas to enable the selection of Oil & Gas data.  
**See Details in SAP Note:** 1711327  
**Supported Releases:** SAP Oil & Gas 4.7 and above |
Thank you

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