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

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Customer
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SAP Test Data Migration Server (TDMS) 4.0
Overview
SAP Test Data Migration Server (SAP TDMS) is a high-speed data extraction tool that transfers relevant business data from your SAP production system to your development, test, quality assurance, or training system.

**SAP TDMS Benefits:**

- Reduced development / bug-fixing cycles
- Protection of sensitive data
- Reduced infrastructure expenses
- Increased efficiency
- Enable functional teams to extract and transfer data
- Migrate data across data centers
- Transition to SAP innovations
SAP TDMS Reduced Migration

Assumption

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

Time Based Reduction

Object Oriented Reduction

Storage Savings

Client DB – Before data reduction

Client DB – After OO reduction < 10%
High-level Architecture

1. Data Selection (cluster)
2. Data Deletion
3. Data Transfer
4. Scrambled Data
# Main Features

## Web-based Interface
- Shell Creation
- Data Scrambling

## Solution Manager Integration
- Full Client Transfer

## Fiori App
- File-based Transfer

### 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

### BW
- 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 Live Cache 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

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SAP Test Data Migration Server (TDMS) 4.0
Use Cases
Typical Use Case Example I: Refresh of Data in Development Systems

Before SAP TDMS

Full Copies

No easy way to bring current data to DEV

Stale data

DEV1 100

200 GB

QA1 100

1.5 TB

TRN1 100

1.5 TB

PR1 100

1.5 TB

With SAP TDMS

Reduced copies

Selective data copies possible into DEV

Current data

DEV1 100/200

500 GB

QA1 100

300 GB

TRN1 100

300 GB

PR1 100

1.5 TB

QA1 100

300 GB

TRN1 100

300 GB

PR1 100

1.5 TB

DEV1 100/200

500 GB

QA1 100

300 GB

TRN1 100

300 GB

PR1 100

1.5 TB

DEV1 100/200

500 GB
**Typical Use Case Example II : Build And Flexibly Refresh Training Systems**

**Step 1:** Reduced copy into flat file/s

**Step 2:** Multiple inserts into different target systems / clients

**Goal:** Provide a repeatable process to build and refresh training clients – as subsets, full copies, and with flat file option for easy ‘resetting’ capability.
Typical Use Case Example III: Protect Sensitive Data

Source System

| Sensitive Data | Scrambling Platform |

| TDMS Data Scrambling |

Target System

| Sensitive Data |

| After TDMS |
Typical Use Case Example IV: Shell Creation

A **system shell** is an SAP system that only contains repository and cross client customizing.

**DDIC**

**TDMS Shell Creation**

Reduces the data size in the copy process

**DDIC**

**Shell System doesn’t contain:**
- Client specific customizing
- Client specific application data
Typical Use Case Example V: Full-Client Transfer

Sender System

Control/Central System (Recommended Solman)

Receiver System

RFC Connection

Full Client Data Selected

Full Client Data Transferred
SAP TDMS Business Process Library

The BPL object enables to select and transfer data relevant to its corresponding business processes. SAP delivered BPL Objects are available for SAP ERP and some objects for certain industry solutions. You can also transfer multiple tables belonging to a BPL object scenario in a single migration package.
Transition to SAP Business Suite powered by SAP HANA with SAP Test Data Migration Server 4.0

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

1. **Traditional DB** → **HANA**
   - Build the HANA system with a reduced set of data based on the repository of SAP system running on a traditional DB.

2. **HANA** → **HANA**
   - Build non-production systems with a reduced set of data by reading from HANA DB into HANA DB.
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 Test Data Migration Server

### Product road map overview - key themes and capabilities

<table>
<thead>
<tr>
<th>Today</th>
<th>Planned Innovations</th>
<th>Future Direction</th>
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<tr>
<td><strong>SAP TDMS</strong> runs on SAP Business Suite powered by SAP HANA – both on-premise and on the cloud</td>
<td><strong>Functional Enhancements</strong>&lt;br&gt;• Continuous improvements in migration objects using the HANA technology&lt;br&gt;• Supplementary solution for S/4 HANA SAP Simplified Logistics (sLog)&lt;br&gt;• Faster file transfer solutions for all TDMS scenarios&lt;br&gt;• Supplementary solutions for material ledger objects and SAP Bank Analyzer&lt;br&gt;• Supplementary solution for SAP Oil&amp;Gas – PRA solution (Upstream)&lt;br&gt;• Supplementary solution for time-based reduction of the SAP Fashion Management System (FMS)&lt;br&gt;• Adaptation of TDMS Scrambling for SAP HANA.</td>
<td><strong>Simplified user experience</strong>&lt;br&gt;• Easy selection of features during upgrade&lt;br&gt;• Modular TDMS configuration and execution&lt;br&gt;• Guided modeling for TDMS BPL and data scrambling&lt;br&gt;• Standard templates for required content in the TDMS solutions&lt;br&gt;• Automated diagnosis and corrections for errors</td>
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<td><strong>Functional Enhancements</strong>&lt;br&gt;• Faster migration objects using HANA technology&lt;br&gt;• Supplementary solution for S/4HANA SAP Smart Financials (sFin 2.0)&lt;br&gt;• Supplementary solutions for SAP Insurance and SAP Defense&lt;br&gt;• Upgraded TDMS Banking solution for Banking Services 8.0&lt;br&gt;• Supplementary solution for cross-application scrambling across relevant SAP Business Suite solutions</td>
<td><strong>Continuous Improvements</strong>&lt;br&gt;• Continuous performance improvements for TDMS Deletion and Transfer&lt;br&gt;• Automated process tree using simplified migration parameters and modular execution for SAP ERP&lt;br&gt;• Supplementary solution for a simplified and modular Scrambling workbench&lt;br&gt;(Release 4.0 SP10)</td>
<td><strong>Content enrichment and consistency</strong>&lt;br&gt;• Enriched SAP TDMS analytics&lt;br&gt;• Coverage of SAP innovations like SuccessFactors, Hybris and S/4 HANA&lt;br&gt;• Extended coverage for industry solutions</td>
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<td><strong>Strategic Developments</strong>&lt;br&gt;• Easy selection of features during upgrade&lt;br&gt;• Modular TDMS configuration and execution&lt;br&gt;• Guided modeling for TDMS BPL and data scrambling&lt;br&gt;• Standard templates for required content in the TDMS solutions&lt;br&gt;• Automated diagnosis and corrections for errors</td>
<td>&lt;br&gt;<strong>Continuous Improvements</strong>&lt;br&gt;• New solution to transfer Customizing data&lt;br&gt;• More Scrambling and BPL content&lt;br&gt;• Continuous improvements in Process Execution for automation of TDMS Process for other solutions&lt;br&gt;• Enriched user guides</td>
</tr>
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</table>

This is the current state of planning and may be changed by SAP at any time.
Application Supported Releases and Software Components

Requirements for TDMS Control System
- SAP Web AS 7.00 or higher
- Minimum 4000 SAPS, 20 GB hard drive

Requirements for TDMS on HANA System
- Start with system shell creation and an SAP upgrade to SAP ECC 6.16
- Realize SAP OS/DB migration to SAP HANA

Lowest supported Releases
- ERP: 4.7
- HCM: 4.7
- BW: 7.0
- 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
Engineering Services for TDMS
SAP Test Data Migration Server software
SAP Landscape Transformation Services based on SAP TDMS Software

To complement and enable customers to fully leverage the potential of SAP TDMS software, SAP offers the engineering service (ESRV) Landscape Transformation Management for Premium Engagement customers (SAP MaxAttention or SAP Active Embedded). It consists of the following subservices:

The SAP ESRV LT Assessment where SAP TDMS experts
Efficiently assess your as-is situation
Evaluate your migration requirements
Reveal options to implement your migration requirement based on SAP TDMS
Recommend the most suitable option for your requirement
Support you to address migration requirements that have customer-specific aspects
As a result of this service, you will understand the best solution approach for your migration requirement.

The SAP ESRV LT Setup, SAP ESRV LT Test Conversion and SAP ESRV GoLive where SAP TDMS experts provide
Tailored step-by-step guidance and enablement to execute migration projects on your own
Support to safeguard the success of the migration project
Support to optimize the use of SAP Test Data Migration Server

As a result of this service, you will efficiently and effectively build up TDMS expertise and can fully leverage SAP TDMS for your migration requirements.
Key links for more information
For customers and partners

Key links

- Road maps @ SAP.COM

- SAP TDMS @ SAP.COM

- SAP TDMS @ SAP Support Portal
  http://support.sap.com/tdms

- SAP TDMS @ SAP Community Network

- SAP TDMS @ SAP Help Portal
  http://help.sap.com/saptdm40

- SAP TDMS @ SAP Education

- SAP TDMS – Executive Video
  http://www.youtube.com/watch?v=scEgsItVKwE

- SAP TDMS Fiori app video
  http://demo.tdc.sap.com/speeddemo/86a4634a33e4463f

Where to go to provide product feedback and ideas

- SAP Idea Place
  https://ideas.sap.com

- Influence programs
  http://service.sap.com/influence

- SAP User Groups
  http://www.sapusergroups.com/
Shipments and References

3000+ Shipments to date

Reference Customers
Thank you

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