Set Up Test Landscapes Cost-Effectively with SAP® Test Data Migration Server

The Best-Run Businesses Run SAP™

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Provide up-to-date productive data for test systems

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To yield worthwhile results, nonproduction systems need up-to-date productive data supplied from production systems. The SAP® Test Data Migration Server software tackles this, extracting data from production systems quickly and cost-effectively to create and refresh test systems with a smaller set of relevant, consistent data.

Companies need systems for testing, quality assurance, development, training, and sandbox purposes. For these nonproduction systems to yield worthwhile results, they must be supplied up-to-date data replicated from production systems. If not, your testing, training, and new development systems may be less than effective.

Many companies refresh data by creating a complete copy of the production system – the entire data repository, all customizing settings, and all client-dependent and client-independent data. This devours infrastructure and maintenance resources and replicates more data than your test clients require. Some companies opt to copy their systems less frequently, feeding old productive data to their nonproduction systems – a costly compromise.

An organizational hurdle has always been the fact that refreshing data for one client in a multiclient system meant refreshing data for all clients. This required careful coordination within the company to avoid disrupting project work.

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Get the solution: SAP Test Data Migration Server

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Restrict data three different ways

Set up once, refresh as needed

Implement standard SAP Test Data Migration Server

Opt for the expert service offering: the customized solution

There is a way to set up nonproduction systems quickly and cost-effectively based on reduced data volume – with SAP Test Data Migration Server software. With this software, you can extract data from the production system to create your test landscapes with a significantly lower volume of data. What's more, the software lets you refresh single clients in a multiclient system.

Since about 80% of the data used by typical SAP R/3® software (functionality now found in the SAP ERP application) is transaction data, SAP Test Data Migration Server focuses on reducing this data while retaining all of the master data and customizing data. This can reduce the data sets of your nonproduction system by 70% or more, yet you will have all the data required to keep the business objects and processes in the nonproduction system consistent.

To ensure data consistency, you should set up the nonproduction system landscape when system load is low and no data is being posted.

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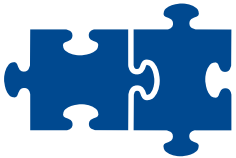
Restrict data three different ways

SAP Test Data Migration Server can restrict the data to be migrated in three ways:

- The data can be restricted to master data and customizing settings – ideal for setting up training systems as it reflects your own requirements. (As transaction data is excluded from the transfer process, you must create it in the nonproduction system yourself.)
- Data can be restricted to a specific organizational structure, such as company code, resulting in a very trim development environment.
- Data can be restricted to a specific time frame. You specify the start date; the end date is always the current date. The data transferred includes objects referenced by business process, which may have been created prior to the specified start date, such as sales documents. This ensures that processes transferred to the nonproduction system within the chosen time frame are complete and can be fully processed. Dependent objects are traced up to the fifth level in the document chain.



You can specify any individual table that you want to be transferred or excluded from the migration, even customer-specific tables.

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Set up once, refresh as needed

To build a nonproduction system landscape, SAP Test Data Migration Server must be set up. To ensure that all relevant client-independent data is available in the nonproduction system, that data must be copied from the production system using an existing system from your transport track or by creating a system copy or system shell. The source system and nonproduction system must have the same table structure as defined in the ABAP® programming language data dictionary.

Once SAP Test Data Migration Server has been set up, you can refresh your data any number of times using the settings made in the initial setup. All client-independent data is retained when the nonproduction landscape is refreshed – including transport requests, job scheduling, user administration, and authorization concepts. You will have to make changes to the client-independent data in the nonproduction system manually after the refresh. For example, an employee may need authorization for all tasks in the test system, although only limited authorization was assigned in the production system. However, SAP Test Data Migration Server converts the logical system name automatically when data is transferred. Change documents are not transferred, since this information is usually not relevant for testing.

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Implement standard SAP Test Data Migration Server

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Opt for the expert service offering: the customized solution

The basic service offering from the System Landscape Optimization group implements the standard SAP Test Data Migration Server software. The 15-day project starts with a one-day, on-site workshop focused on your implementation needs, target data volumes, and technical features of the source system. The software is then set up and configured on a test system by an SAP expert on-site or via remote access. You check the consistency of the transferred data, after which the test system is refreshed. If all is satisfactory, the test environment is set up in the final system landscape. Customizing settings for the test landscape are documented, and you receive the know-how you need to use the software on your own. In the final review workshop, SAP experts verify the server settings with you.

During the project, designated contacts from your company's system administration and maintenance personnel should be available to the SAP experts. A number of your employees will be required to test the data.

The basic service offering includes detailed consultation with your IT experts to decide which tables should be transferred and how.

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Opt for the expert service offering: the customized solution

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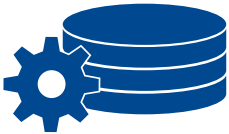
Opt for the expert service offering: the customized solution

The expert service offering is provided in the format of a one-day analysis workshop. During this time the System Landscape Optimization group experts work with you to establish project scope, determine the project specifications for your nonproduction landscape, and identify the resources required.

Even for nonproduction systems, data security and anonymity must be guaranteed because sensitive data may be migrated from production systems that handle, for example, data from your financial accounting, human resources, or development operations. If your company has specific data protection requirements, the solution can help you scramble sensitive data. In this way, you can be sure that the results are tailored to fulfill the needs of your company's industry or business model.

If the results of the expert service offering meet with your approval, a detailed project plan is drawn up to help you maintain your test landscape cost-effectively, flexibly, and efficiently.



A system shell with client-specific master, user, and address data copies repository and client-independent data to the nonproduction system.

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Benefit from SAP Test Data Migration Server

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SAP Test Data Migration Server offers you the following benefits:

- Reduced infrastructure and maintenance costs due to reduced volume of data in your test landscape
- Improved quality of your development and training activities because business-relevant and up-to-date test data is available at any time
- Flexibility to work on multiple IT projects in parallel by being able to refresh single clients in development, test, and training environments
- Reduced costs for development and training activities while improving data quality
- Protection of sensitive data in nonproduction systems through data scrambling
- Effective simulations of new business situations in your test environment using up-to-date data to inform your critical business decisions before you make them
- Selective transfer of data for specific business objects to nonproduction systems
- Data transfer using a file transfer method for high security or when no direct connection exists between production and nonproduction systems

SAP Test Data Migration Server can be installed on any system that provides enough storage space and supports adequate performance.

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Summary

To yield worthwhile results, nonproduction systems need up-to-date productive data supplied from production systems. There is now a way to set up nonproduction systems quickly and cost-effectively based on reduced data volume – using SAP® Test Data Migration Server software. It can create test landscapes based on a significantly lower volume of data that it extracts from the production system. It also lets you refresh single clients in a multiclient system.

Objectives

- Set up nonproduction systems with a reduced amount of data
- Refresh nonproduction systems quickly
- Refresh single clients within a multiclient system
- Transfer data to an unconnected data center using file transfer
- Scramble sensitive data

Solution

- Expert focus on your implementation scenario, your required target data volumes, and technical features of your source system
- Setup, configuration, and transfer of production data to your test system on-site or remotely
- Full documentation of all customizing settings for your test landscapes

Benefits

- Cost-efficiency through reduced data volume in your test landscape
- Better development and test results with business-relevant, up-to-date test data
- Less effort required to manage your test landscape
- Flexibility to maintain nonproduction clients individually

Learn more

Call your SAP representative, or visit us online at www.sap.com/tdms.

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