



Informatica® Test Data Management
10.2.0 HotFix 2

Release Guide

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Preface

The *Test Data Management Release Guide* lists new features and enhancements, behavior changes between versions, and tasks that you might need to complete after you upgrade from a previous version.

Informatica Resources

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Part I: Test Data Management

10.2.0 HotFix 2

This part contains the following chapters:

- [New Features and Enhancements \(10.2.0 HotFix 2\), 9](#)
- [Changes \(10.2.0 HotFix 2\), 12](#)

CHAPTER 1

New Features and Enhancements (10.2.0 HotFix 2)

This chapter includes the following topic:

- [New Features and Enhancements for Version 10.2.0 HotFix 2, 9](#)

New Features and Enhancements for Version 10.2.0 HotFix 2

This section describes the new features and enhancements for version 10.2.0 HotFix 2.

AzureDWv3 Connectivity

You can create an AzureDWv3 connection in Test Data Manager.

Use the AzureDWv3 connection type to connect to a Microsoft Azure SQL Data Warehouse database to perform data masking tasks.

For information about how to create an AzureDWv3 connection, see the *Test Data Management 10.2.0 HotFix 2 Administrator Guide*.

REST APIs

Test Data Management includes a set of exposed REST APIs that you can use to perform or automate certain tasks.

Test Data Management 10.2.0 HotFix 2 includes the following new REST APIs:

- *GET schemas*. Lists all schemas for a connection.
- *GET sources*. Lists all sources for a schema.
- *GET pcrepo/folders*. Lists all folders in the associated PowerCenter repository.
- *GET pcrepo/sources*. Lists all sources in a folder in the associated PowerCenter repository.
- *GET connections*. Lists all connections.
- *GET template/connection*. Returns a template of properties required to create a specific type of connection.

- *POST connections*. Creates a connection.
- *DELETE connection*. Deletes a connection.
- *POST metadata/connection*. Imports metadata from a connection into a project in Test Data Manager.
- *POST metadata/pcrepo*. Imports metadata from a folder in the PowerCenter repository into a project in Test Data Manager.
- *GET encryptedstring*. Returns the encrypted value of a string.

For information about how to use Test Data Management REST APIs, see the *Test Data Management 10.2.0 HotFix 2 REST API Reference*.

Cross-Realm Kerberos Authentication

You can install Test Data Management in an Informatica domain configured to use Kerberos cross-realm authentication.

Kerberos cross-realm authentication enables Informatica clients that belong to one Kerberos realm to authenticate with nodes and application services that belong to another Kerberos realm.

For information on how to configure the Informatica domain, see the *Informatica 10.2 HotFix 2 Security Guide*.

Handling Empty String Values in Non Null Target Columns

You can configure values for a plan to use in place of empty string values in a non null target column.

Add default fields to the project configuration to enter the required values. All plans that you run from the project use the values in place of empty string values when the target column is a non null column.

For information about how to configure a project to handle empty string values, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

Lookup Transformation Connections

You can choose different connections for each Lookup transformation in a mapplet.

If a mapplet contains more than one Lookup transformation, you can choose individual lookup connections for each transformation. You can select flat file or relational connections in the plan settings when you create or edit a plan.

Previously, you could choose one connection for all Lookup transformations in a plan.

For information about how to configure lookup connections in a plan, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

Target Table Conflict Resolution

You can choose how to handle target table definition conflicts that arise when you generate a plan multiple times.

Each time you generate a plan, it creates a duplicate target table definition in PowerCenter Designer. You can configure a strategy to handle duplicate target table definitions at the project level. The settings apply to all plans in the project. You can choose to rename an existing table definition, or reuse or replace it each time you generate a plan.

Previously, target table definitions were renamed each time you generate a plan and you could not change the default behavior.

For information about how to configure a strategy to handle duplicate target table definitions, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

Parameters in Cyclic Entities

You can use parameters in cyclic entities when you enter the criteria as an SQL query.

Previously, you could not use parameters in a cyclic entity if you use an SQL query to enter the filter criteria.

For information about how to use parameters in entity criteria, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

Import Metadata Directly from a DB2 for zOS Database

You can import metadata from a DB2 for zOS database directly into Test Data Manager.

Use the DB2 for Linux, UNIX and Windows connection type to create a connection to a DB2 for zOS database.

Previously, you could not import metadata from a DB2 for zOS database directly into Test Data Manager. You imported the metadata into the PowerCenter repository and then imported it into Test Data Manager.

When you import the metadata through a DB2 for Linux, UNIX and Windows connection, it imports the unique indexes and foreign keys across schema.

For information about how to create a DB2 for Linux, UNIX, and Windows connection for a DB2 for zOS database, see the *Test Data Management 10.2.0 HotFix 2 Administrator Guide*.

CHAPTER 2

Changes (10.2.0 HotFix 2)

This chapter includes the following topic:

- [Changes for Version 10.2.0 HotFix 2, 12](#)

Changes for Version 10.2.0 HotFix 2

This section describes the changes for version 10.2.0 HotFix 2.

String Key Masking

Effective in version 10.2.0 HotFix 2, you can configure a string key masking rule to be not case-sensitive. This ensures that the masking rule cannot mask a source input character to the same character in a different case.

Previously, you could not change the default case sensitive behavior of a string key masking rule.

For information about how to configure a string key masking rule, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

Connection to Microsoft Azure SQL Data Warehouse Database

Effective in version 10.2.0 HotFix 2, you use the AzureDWv3 connection type to connect to a Microsoft Azure SQL Data Warehouse database to perform data masking tasks.

To perform data subset, data generation, and test data warehouse tasks, you use the Microsoft SQL Server connection type.

Previously, you used the Microsoft SQL Server connection type to connect to a Microsoft Azure SQL Data Warehouse database for all tasks.

For information about how to create an AzureDWv3 connection, see the *Test Data Management 10.2.0 HotFix 2 Administrator Guide*.

Plan Settings

Test Data Management 10.2.0 HotFix 2 includes the following changes in properties in a plan:

- To override plan settings at the source level, you can enter the source table name and the target table name in the **Source Settings** page of a plan.
Previously, you could not override source and target table names in a plan.

- To configure individual lookup connections for mapplets that include multiple Lookup transformations, you can configure the connections in the **Mapplet Settings** section in a plan. Previously, you could not choose multiple lookup connections in a plan.

For information about how to configure plan settings, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

OpenJDK

Test Data Management (TDM) jobs require Java. TDM uses the Java files packaged with the Informatica service installer.

Effective in version 10.2.0 HotFix 2, the Informatica service installer packages OpenJDK (AzulJDK).

Previously, the Informatica service installer packaged Oracle Java and TDM used Oracle Java.

For information about how to access the Informatica service installer files, see the *Informatica 10.2.0 HotFix 2 Installation and Configuration Guide*.

Support for IMS Data Sources

Effective in version 10.2.0 HotFix 2, you can perform the following additional tasks on IMS data sources:

- Test data generation
- You can use IMS data sources in plans with the target as the test data warehouse.
- You can publish data sets created from IMS and VSAM data sources in Test Data Manager to the self-service portal.

Previously, you could not perform data generation tasks on IMS data sources. You could not create data sets in the test data warehouse or publish data packs to the self-service portal from IMS data sources.

For information about the tasks that you can perform on IMS data sources and the IMS data types that you can use, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

Support for DB2 for z/OS Data Sources

Effective in version 10.2.0 HotFix 2, you can perform the following additional tasks on DB2 for z/OS data sources:

- You can publish data sets created from IMS data sources in Test Data Manager to the self-service portal.
- You can perform self-service portal tasks on data packs created from DB2 for z/OS sources and reset a data pack to a DB2 for z/OS target.

Previously, you could not publish data packs created from DB2 for z/OS sources to the self-service portal.

For information about the tasks that you can perform on DB2 for z/OS data sources and the DB2 for z/OS data types that you can use, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

Email Masking Rule

Effective in version 10.2.0 HotFix 2, the email masking rule supports additional criteria.

Previously, the email masking rule supported limited email formats. Email addresses that contain any other characters were considered invalid and masked with default values. Additional configuration that you add to the masking rule was ignored and the default value loaded to the target.

For information about how to configure and use the email masking rule, see the *Test Data Management 10.2.0 HotFix 2 User Guide*.

Part II: Test Data Management

10.2.0 HotFix 1

This part contains the following chapters:

- [New Features and Enhancements \(10.2.0 HotFix 1\), 16](#)
- [Changes \(10.2.0 Hot Fix 1\), 19](#)

CHAPTER 3

New Features and Enhancements (10.2.0 HotFix 1)

This chapter includes the following topic:

- [New Features and Enhancements for Version 10.2.0 HotFix 1, 16](#)

New Features and Enhancements for Version 10.2.0 HotFix 1

This section describes the new features and enhancements for version 10.2.0 HotFix 1.

Global Parameters

You can create global criteria, connection, and owner parameters in Test Data Manager.

You can use global parameters in all plans that you run to create test data. You can choose to import the parameters into a project or use the parameters directly from a global level.

An administrator user can create and edit global parameters. A non administrator user can use global parameters in a plan.

For information about creating and managing global parameters, see the *Test Data Management 10.2.0 HotFix 1 Administrator Guide*. For information about using a global parameter in a plan, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Delimited String Masking

You can use delimited string masking to consistently mask a data substring that occurs anywhere in the data.

Configure delimited string masking when you use a key string masking rule and want to consistently mask a string of data that appears as a data substring in another column. You can specify delimiters to identify substrings.

For information about how to configure delimited string masking, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Data Subset Enhancements

You can choose from additional data integration options to use an entity in a data subset plan.

You can choose to apply entity criteria in a one-way or two-way method when you configure a plan. The additional methods allow you to configure the data subset output and avoid creating empty tables. You can change the way the criteria is applied on tables in an entity at run time and therefore control the data subset results. Use the same entity with different data integrity options to create different data subset results.

For information about the data integration options and how to use the options in a data subset plan, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Support for Amazon Redshift

You can use an Amazon Redshift database as a source and target in Test Data Management.

You can use an Amazon Redshift database as a source or target in a plan to perform the following tasks:

- Data subset
- Data masking
- Test data generation

You can use an Amazon Redshift database as a source in a plan when the target is the test data warehouse.

For information about how to create a connection with Amazon Redshift, see the *Test Data Management 10.2.0 HotFix 1 Administrator Guide*.

For information about how to use an Amazon Redshift database in a plan and the data types that you can use, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Support for Microsoft Azure SQL

You can use a Microsoft Azure SQL database as a source and target in Test Data Management.

You can use a Microsoft Azure SQL database as a source or target in a plan to perform the following tasks:

- Data subset
- Data masking
- Test data generation

You can use a Microsoft Azure SQL database as a source in a plan when the target is the test data warehouse.

For information about how to create a connection with Microsoft Azure SQL, see the *Test Data Management 10.2.0 HotFix 1 Administrator Guide*.

For information about how to use a Microsoft Azure SQL database in a plan and the data types that you can use, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Support for Microsoft Azure SQL Data Warehouse

You can use a Microsoft Azure SQL data warehouse as a source and target in Test Data Management.

You can use a Microsoft Azure SQL data warehouse as a source or target in a plan to perform the following tasks:

- Data subset

- Data masking
- Test data generation

You can use a Microsoft Azure SQL data warehouse as a source in a plan when the target is the test data warehouse.

For information about how to create a connection with Microsoft Azure SQL data warehouse, see the *Test Data Management 10.2.0 HotFix 1 Administrator Guide*.

For information about how to use a Microsoft Azure SQL data warehouse in a plan and the data types that you can use, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Support for PostgreSQL Database

You can use a PostgreSQL database as a source and target in Test Data Management.

You can use a PostgreSQL database as a source or target in a plan to perform the following tasks:

- Data subset
- Data masking
- Test data generation

You can use a PostgreSQL database as a source in a plan when the target is the test data warehouse. You must create the test data warehouse on a PostgreSQL database. You cannot use a PostgreSQL database as a source if the test data warehouse is on an Oracle database.

For information about how to create a connection with PostgreSQL, see the *Test Data Management 10.2.0 HotFix 1 Administrator Guide*.

For information about how to use a PostgreSQL database in a plan and the data types that you can use, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Skip Validation of Constraints

You can choose to skip constraint validation when enabling constraints in a plan.

The option is available when you choose to disable constraints and one of the following statements is true for the target connection in a plan:

- Target connection is Oracle.
- Target connection is ODBC and target JDBC connection is Oracle.
- Target connection is a connection parameter.

If you select this option, TDM does not validate the constraints when enabling them.

For information about how to configure the Skip Validation of Constraints option, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Target Pre SQL and Post SQL Queries in a Plan

You can configure pre and post SQL statements on a target that you configure in a plan.

Configure the Target Pre SQL property in a plan to run a query before you write data to the target. Configure the Target Post SQL property in a plan to run a query after you write data to the target.

For information about target Pre SQL and target Post SQL queries in a plan, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

CHAPTER 4

Changes (10.2.0 Hot Fix 1)

This chapter includes the following topic:

- [Changes for Version 10.2.0 HotFix 1, 19](#)

Changes for Version 10.2.0 HotFix 1

This section describes the changes for version 10.2.0 HotFix 1.

Project Parameters

Effective from version 10.2.0 HotFix 1, you can directly perform tasks on the Parameters tab on a project page. You can click the Create button to open the parameter creation window. You can use the Delete button to delete a parameter. You can update parameters directly from the list of parameters.

Previously, the Parameters tab did not contain Create and Delete buttons. You clicked on the Configure button to perform these tasks. You could not edit parameter details directly from the parameters list.

For information about how to use project parameters, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Cassandra Data Sources

Effective from version 10.2.0 HotFix 1, you can perform the following additional tasks on Cassandra data sources:

- Data subset
- Test data generation
- You can use Cassandra data sources in plans with the target as the test data warehouse.

Previously, you could not perform data subset and data generation operations on Cassandra data sources. You could not create data sets in the test data warehouse from Cassandra data sources.

For information about the operations that you can perform on Cassandra data sources and the Cassandra data types that you can use, see the *Test Data Management 10.2.0 HotFix 1 User Guide*.

Part III: Test Data Management

10.2 R1

This part contains the following chapters:

- [New Features and Enhancements \(10.2 R1\), 21](#)
- [Changes \(10.2 R1\), 25](#)

CHAPTER 5

New Features and Enhancements (10.2 R1)

This chapter includes the following topic:

- [New Features and Enhancements for Version 10.2 R1, 21](#)

New Features and Enhancements for Version 10.2 R1

This section describes the new features and enhancements for version 10.2 R1.

Test Data Management Self-Service Portal

Test Data Management includes a self-service portal to edit and manage test data.

You can use the self-service portal if you use Test Data Manager to access and edit test data but do not create the test data. The portal provides a simplified user interface to perform tasks such as edit and update of data, and to create a copy or a subset of test data. You can view a computation of related data based on filters and reset test data to a test environment. You can also perform data coverage analysis in the self-service portal.

For information about how to access and perform tasks in the self-service portal, see the *Test Data Management 10.2 R1 Self-Service Portal Guide*.

Publish a Data Set to the Self-Service Portal

You can choose to publish a data set to the self-service portal.

When you publish a data set to the self-service portal, Test Data Manager publishes the data set to the self-service portal as a data pack.

For information about how to publish data sets to the self-service portal, see the *Test Data Management 10.2 R1 User Guide*.

Format Preserving Encryption Masking

You can use format preserving encryption to mask string data types.

You can use the format preserving encryption rule on the following operating systems:

- Windows Server 2008 R2
- Windows Server 2012 R2
- SUSE Linux Enterprise 12
- Red Hat Enterprise Linux version 6.5 or later
- Red Hat Enterprise Linux version 7.0 or later

When you choose the encryption masking technique to encrypt source data, you can select the format preserving encryption type. The format preserving encryption type includes the following options:

- Preserve Format and Metadata
- Preserve Metadata
- Change Metadata

You can choose the required option based on the output you require.

When you use format preserving encryption masking in a plan, you configure encryption options in the plan.

After you encrypt the source data, you can decrypt it to get back the original data. To get the original data back, run the plan with the same pass phrase and the same format preserving encryption rule configuration that you used to encrypt the source data.

For information about format preserving encryption masking, see the *Test Data Management 10.2 R1 User Guide*.

Before you can use the format preserving encryption masking type in a plan, you must configure the Test Data Management machine.

For information about how to configure the Test Data Management machine, see the *Test Data Management 10.2 R1 Installation Guide* or the *Test Data Management 10.2 R1 Upgrade Guide*.

Pass Phrase

Create and use a pass phrase to encrypt or decrypt data in a plan that includes the format preserving encryption masking type.

The pass phrase generates a key to encrypt or decrypt data. After you encrypt the source data, you can use the same pass phrase and the same format preserving encryption option in a plan to decrypt it to get back the original data.

For information about how to create and manage pass phrases, see the *Test Data Management 10.2 R1 Administrator Guide*.

Optimize Dictionary Usage in Substitution Masking

You can choose to optimize the usage of masked values from the dictionary in a substitution masking operation.

Select the **Optimize Dictionary Usage** field to increase the usage of masked values from the dictionary when you substitute data with repeatable values.

For information about how to enable the optimize dictionary usage option, see the *Test Data Management 10.2 R1 User Guide*.

Data Domain Assignments Import and Export

You can import a data domain assignments file into Test Data Manager and export data domain assignments from Test Data Manager.

For example, you can export a data domain assignments file from Secure@Source and import the data domain assignments file into Test Data Manager.

You can import a data domain assignments file in CSV format and export data domain assignments as CSV files.

For information about how to import and export data domain assignments, see the *Test Data Management 10.2 R1 User Guide*.

Import Metadata from a Netezza Connection into Test Data Manager

You can import metadata from a Netezza data source directly into Test Data Manager.

Configure the Metadata Connection String option to access metadata from a Netezza database.

Previously, you imported metadata from a Netezza source from PowerCenter.

For information about how to configure Netezza connection, see the *Test Data Management 10.2 R1 Administrator Guide*.

For information about the third-party JAR files required to test a Netezza connection, see the *Test Data Management 10.2 R1 Installation Guide*.

PostgreSQL Database Support for JDBC Connection

You can use the JDBC connection type to create a connection to a PostgreSQL database.

Configure a JDBC connection and choose the database type as PostgreSQL. Enter the JDBC connection in the **Target JDBC Connection** field in the plan to provide a JDBC connection string.

For information about how to create a connection using a PostgreSQL database, see the *Test Data Management 10.2 R1 Administrator Guide*.

PostgreSQL Database Support for Test Data Warehouse

You can create a test data warehouse on a PostgreSQL database.

Configure a connection that uses the PostgreSQL database. Select the connection as the test data warehouse when you create the Test Data Warehouse Service.

Use the PostgreSQL database installer bundled with the TDM installer to create the database.

For information about how to configure a test data warehouse for PostgreSQL and how to configure the Test Data Warehouse Service, see the *Test Data Management 10.2 R1 Installation Guide*.

For information about how to create a connection using a PostgreSQL database, see the *Test Data Management 10.2 R1 Administrator Guide*.

PostgreSQL Installer Bundled with the TDM Installer

The TDM installer contains a PostgreSQL installer. To use a PostgreSQL database with TDM, you must use the installer provided to create the database.

You can choose to create a test data warehouse on a PostgreSQL database connection. You can use a PostgreSQL database as a source or target connection in a TDM operation.

The installer is available in the following location when you extract the TDM installer files: <TDM installer directory>\Postgres_installer\

For information about how to configure a PostgreSQL database as a connection, see the *Test Data Management 10.2 R1 Administrator Guide*.

CHAPTER 6

Changes (10.2 R1)

This chapter includes the following topic:

- [Changes for Version 10.2 R1, 25](#)

Changes for Version 10.2 R1

This section describes the changes for version 10.2 R1.

Publish a Data Set to the Self-Service Portal from a Workflow

Effective in version 10.2 R1, you can choose to publish a data set to the self-service portal from a TDM workflow.

When the target in a workflow is the test data warehouse, you can choose to publish a data set to the self-service portal. Test Data Manager publishes the data set to the self-service portal as a data pack.

Previously, you did not publish a data set to the self-service portal from a workflow.

For information about how to publish data sets to the self-service portal from a workflow, see the *Test Data Management 10.2 R1 User Guide*.

Standard Encryption Masking

Effective in version 10.2 R1, the AES, CRC, and MD5 encryption algorithms are available under the Standard encryption type.

To use the algorithms in an encryption masking rule, you must select the Standard encryption type and then select the algorithm.

Previously, you directly selected the AES, CRC, and MD5 encryption algorithms in an encryption masking rule.

For more information about standard encryption, see the *Test Data Management 10.2 R1 User Guide*.

Encryption Options in Plan Settings

Effective in version 10.2 R1, you configure encryption options in a plan that includes format preserving encryption masking.

The encryption options appear in the Plan Settings page when you create a plan that includes an encryption rule with format preserving encryption.

For information about encryption options in a plan, see the *Test Data Management 10.2 R1 User Guide*.

Test Data Warehouse Service Creation

Effective in version 10.2 R1, you can create a test data warehouse on a PostgreSQL database.

You choose the connection type and the database type for the test data warehouse connection when you create a Test Data Warehouse Service. If you choose to use a PostgreSQL database, you select a JDBC connection that the PostgreSQL database requires.

Previously, you did not select the connection type or database type because you could create the test data warehouse only on an Oracle database.

Effective in 10.2 R1, you can perform tasks from the Test Data Management Self-Service Portal. Some tasks that you perform from the portal require a staging schema. You enter the name of the staging schema when you create the Test Data Warehouse Service.

Previously, you did not enter a staging schema name.

For information about how to configure the Test Data Warehouse Service, see the *Test Data Management 10.2 R1 Installation Guide*.

Infacmd TDW Command Reference

Effective in version 10.2 R1, you can create a test data warehouse on a PostgreSQL database. You can also perform tasks from the Test Data Management Self-Service Portal. The *Infacmd tdw CreateService* command to create the Test Data Warehouse Service contains the following new properties:

- `<-TDWConnDbType|-tdwcdbt>` Test Data Warehouse Connection Database Type (POSTGRESQL)
- `<-TDWJDBCConnName|-tdwjdbccn>` Test Data Warehouse JDBC Connection Name
- `<-TDWStagingSchema|-tdwstsc>` Test Data Warehouse Staging Schema Name

Previously, you could not choose a database type or enter a staging connection name during Test Data Warehouse service creation.

For information about how to use the *Infacmd tdw CreateService* command, see the *Test Data Management 10.2 R1 Installation Guide*.