Informatica® Data Transformation
10.2.1
Informatica® Data Transformation Studio
9.6.1

Migration Considerations for Studio 9.6.1 to Data Transformation 10.2.1 Migration

Informatica Data Transformation Data Transformation Studio Migration Considerations for Studio 9.6.1 to Data Transformation 10.2.1 Migration
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Abstract

This document provides information to consider when you migrate from Studio Data Transformation to the Informatica platform.

CHAPTER 1

Migration Considerations when Migrating from Studio to Informatica Developer

This chapter includes the following topics:

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Overview

The Informatica platform consists of an Informatica server component and one or more client components, such as Informatica Developer. Informatica provides separate installers to install the Informatica server and clients. Before you start the installation process, determine what servers and clients you want to install. When you migrate from a standalone Data Transformation Studio installation to the Informatica platform, you will install the Informatica services and the Developer tool.

The Developer tool includes the Data Processor transformation as an evolution of the standalone Data Transformation Studio. With the Developer tool, you can create, edit, and test Data Processor transformations in a development environment. To run the transformations, export the transformations as Data Transformation services. You use the Data Transformation engine to run services in the production environment.

When you migrate from Studio to the Informatica platform, you first install the Informatica server. As part of the server installation, you create the application services including a Model Repository Service and Data Integration Service. You use the Model repository to store the transformations, mappings, and other objects.

Data Integration Service performs data integration jobs tool. To create and edit transformations and mappings, you must install the Developer tool.

To migrate from a Studio standalone installation, install an Informatica server and the Developer tool in the development environment. Install a Data Transformation engine in the production environment.

You use the Developer tool to create, edit, and test Data Processor transformations in the development environment. Using the Developer tool, you export Data Transformation services. You copy the Data Transformation services to the production environment and run the services using the Data Transformation engine.

Introduction to Data Processor Transformations

The Data Processor transformation processes complex files, such as messaging formats, HTML pages and PDF documents. Data Transformation also transforms formats such as ACORD, HIPAA, HL7, EDI-X12, EDIFACT, AFP, and SWIFT.

You can define a Data Processor transformation to transform complex files in a mapping. When you run a mapping with the Data Processor transformation, the Data Integration Service calls the Data Transformation engine to process the data. The Data Integration Service is an application service that performs data integration jobs that you configure in the Developer tool.

Data Transformation has the following elements:

Data Processor transformation

A transformation that processes complex files in a mapping. Define a Data Transformation Script, XMap, Library, or Validation Rules object in the Developer tool to process the data. You can include the transformation in an SQL data service mapping, web service, or mapping profile.

Data Transformation service

A set of Data Transformation objects that you can export from Data Processor transformation and run standalone. You export a service to a Data Transformation repository and run the service from there.

Data Transformation repository

A directory that stores executable services that you export from a Data Processor transformation. The repository directory name is ServiceDB.

Data Transformation Engine

A processor that runs objects in the Data Processor transformation or services that you create in Developer tool.

In Data Transformation Studio, you created projects and deployed them as Data Transformation services. Similarly, in the Developer tool, you create Data Processor transformations and can export them as Data Transformation services.

In Data Transformation Studio, as part of a project, you created Scripts with the IntelliScript editor. You deployed projects as Data Transformation services that the Data Transformation engine ran, or you imported the services into PowerCenter to incorporate into mappings.

In the Developer tool, similarly, you create Data Processor transformation Scripts with the Data Processor transformation wizard, and define them in the Intelliscript editor and other editors. You can export Data Processor transformations as Data Transformation services to run with the Data Transformation engine, or in PowerCenter. For more information about Data Processor transformations, refer to the *Informatica 10.2 Data Transformation User Guide*.

To work with Libraries the Developer tool, you can use a dedicated Library Editor to view and to edit the Library specifications for supported Libraries. For more information, see the “Libraries” chapter in the *Informatica 10.2 Data Transformation User Guide*.

Product Availability Matrixes

Product Availability Matrixes (PAMs) indicate the versions of operating systems, databases, and other types of data sources and targets the product release supports. If you are an Informatica Network member, you can access PAMs at the following link:
https://network.informatica.com/community/informatica-network/product-availability-matrices.

Supported Library Versions

After you install the Developer tool, you must install the Libraries. The following table describes which Library versions are supported:

Library name	Library Version	Supported Data Transformation version
ACORD AL3 Library	10.0.0	9.6.1 and above
ACORD-MDM Mappers Library	10.0.0	9.6.1 and above
ASN1 Library	(+)	
BAI Library	10.0.0	9.6.1 and above
Bloomberg Library	10.0.0	9.6.1 and above
COBOL Processing Library	(+)	
CREST Message Structure	10.0.0	9.6.1 and above
DTCC-NSCC Library	10.2	9.6.1 and above
EDI Accelerator	10.1.0.1	9.6.1 and above
EDIFACT Library	10.1.1	9.6.1 and above
EDI-X12 Library	10.1.1	9.6.1 and above
FIX Library	10.0.0	9.6.1 and above
FpML Library	10.0.0	9.6.1 and above
GDSN & 1Sync	10.1.0.1	9.6.1 and above
GSDN Accelerator	10.2.1	9.6.1 HF4 and above

Library name	Library Version	Supported Data Transformation version
HIPAA Accelerator	10.1.0.1	9.6.1 and above
HIPAA Library	10.1.1.0	9.6.1 and above
HIX Library	10.1.0.1	9.6.1 and above

(+) All supported Data Transformation versions where this library import is available.

Note: You must install Library versions 10 and up to work with Libraries in the Data Processor transformation Library Editor.

Migration Process

When you migrate from Studio and install Informatica services and clients, the process consists of multiple phases. The migration consists of the following phases:

1. Back up Studio projects and custom files.
2. Complete the pre-installation tasks for the Informatica domain to ensure that you can successfully run the installer.
3. Create the domain. The Informatica domain is a collection of nodes and services that define the Informatica environment. To create the domain, run the Informatica server installer. The installer wizard installs the server files and configures the domain.
4. Create the application services, such as the Model Repository Service and Data Integration Service. After you create the domain, log in to the Administrator tool and create other application services.
5. Install the Informatica clients. Use the client installer to install the Developer tool. The Developer tool should have the same Informatica version as the domain.
6. Perform the post-installation tasks.
7. Install the Libraries.
8. Restore the custom files.
9. Import Data Transformation services into the Model repository.

Note: The process might differ depending on the migration path.

For more information about planning and configuring the installation, refer to the *Informatica 10.2 Installation and Configuration Guide*.

For more information about configuring the Application Services, refer to the *Informatica 10.2 Application Service Guide* and the *Informatica 10.2 Administrator Guide*.

Before You Install

Before you perform the Informatica platform installation, back up necessary files and directories, determine what servers and clients to install, prepare the system architecture, and obtain all necessary Informatica installer packages. Plan and prepare to install the domain and Application Services.

For more information about planning and configuring the domain and Application Services, refer to the *Informatica 10.2 Installation and Configuration Guide*.

Perform Backup

Before you perform installation, back up your Informatica product licenses, the Studio repository, all projects, and custom components or files.

Perform the following actions:

1. Locate the Studio Repository
2. Deploy any Undeployed Services
3. Back Up the Data Transformation Files

Step 1. Locate the Studio Repository

Data Transformation services are stored in the Data Transformation repository directory. Ensure that you know where the repository is so that you can back it up before the installation procedure.

The following path shows the default repository location in Windows:

```
<Informatica installation directory>\Informatica \DataTransformation\ServiceDB
```

This repository location is stored in the `CMConfig.xml` configuration file which can be examined with a text editor.

Step 2. Deploy any Undeployed Services

You can deploy a project as a Data Transformation service on the development host machine where Data Transformation Studio is installed. You can later import the service into the Developer tool.

To do this, you must have write privileges for the Data Transformation repository and for the log folder. For more information about the required permissions, see the Data Transformation Administrator Guide. In case of doubt, contact your system administrator.

To deploy the service, perform the following steps:

1. In Data Transformation Studio, open and select the project.
2. Click **Project** > **Deploy**.
3. In the **Deploy Service** window, set the following options:

   Service Name

   The name of the service. By default, this is the project name.

   To ensure compatibility with the Model repository, the name must contain only English letters (A- Z, a-z), numerals (0-9), spaces, and underscores.

   Data Transformation creates a directory with the service name in the repository location.

   Label

   A version identifier. The default value is a time stamp indicating when the service was deployed.

Startup Component

The component that starts the processing in the Data Transformation service.

Author

The person who developed the project.

Description

A description of the service.

4. Click the **Deploy** button.
5. Studio displays a message that the service was successfully deployed. The service appears in the repository view.

Step 3. Back Up the Data Transformation Files

Before you install the Developer tool, you must back up the Studio Data Transformation files. The ServiceDB directory contains CMW files for Data Transformation services.

Back up the following files or directories:

License file.

The license file is located at the following path: `<Informatica installation directory>\DataTransformation\CDELicense.cfg`

Custom TGP files.

The files are located at the following path: `<Informatica installation directory>\DataTransformation\autoInclude\user\`

Custom JAR and DLL files.

The files are located at the following path: `<Informatica installation directory>\DataTransformation\externLibse\user\`

Repository

The files are located at the following path: `<Informatica installation directory>\DataTransformation\ServiceDB\`

Ensure that you also back up any deployed services that are not in the `ServiceDB` directory.

Determine the Services and Clients to Install

Determine what services and clients that you want to install. To migrate from Studio, you will install Informatica services and the Data Transformation engine. When you install the Informatica services, you create a domain, a Model Repository Service and a Data Integration Service. You will also install the Developer tool, a client.

For more information about installation planning and a checklist, refer to the *Informatica 10.2 Installation and Configuration Guide*.

Get Installers and Supported Libraries

Informatica provides separate installers for the Informatica server and the Developer tool. Before you perform installation, download the installers.

After you perform the installation, you must install Libraries onto the machine that hosts the Developer tool. Ensure that you install a supported version of the Libraries. To determine if a version is supported, see "Supported Library Versions" on page 7.

To check if the messages you want to process are supported by the relevant Library, see the "Product Availability Matrixes" on page 7. If your current Library version is not supported, ensure that you obtain a supported version.

Perform the Pre-Installation Steps

Before you install, ensure that you perform all relevant pre-installation steps. For more information about pre-installation steps, refer to the *Informatica 10.2 Installation and Configuration Guide*.

Perform the Installation

To perform the Informatica platform installation, follow the steps in the installers step by step.

For more information, refer to the *Informatica 10.2 Installation and Configuration Guide*.

Use the server installer to install the Informatica server and create the services, or to install the Data Transformation engine. Use the client installer to install the Developer tool.

To migrate from a Studio standalone installation, use the server installer to install the Informatica server and create the Data Integration Service and Model Repository Service in the development environment. Next, use the client installer to install a Developer tool in the development environment. Lastly, use the server installer to install the Data Transformation engine in the production environment.

After You Install

After you perform the Informatica platform installation, perform the post-installation steps to configure the Informatica platform. Next, install the Libraries onto the machine that hosts the Developer tool. After that, import the Data Transformation services into the Model repository. Copy the custom files to the machine that hosts the Developer tool and to the machine that hosts the Data Transformation engine.

Perform Post-Installation Steps

After you perform installation, ensure that you perform all relevant post-installation steps.

For more information, refer to the *Informatica 10.2 Installation and Configuration Guide*.

Install Libraries

After you install the Developer tool, install the Libraries on the same machine.

For the installation procedure, refer to *Informatica 10.2 Libraries User Guide*.

Copy Files and Import Services

Perform the following procedures after you install the Developer tool:

1. Restore the backed-up files.
2. Import services into the Model repository.

Step 1. Restore the Data Transformation Service Files

After you install the Developer tool, you must restore the Studio Data transformation files. Restore the files to both the development and production environment. Copy the backed-up files to the following locations:

Custom TGP files.

Copy to the following path: `<Informatica installation directory>\DataTransformation\autoInclude\user\`

Custom JAR and DLL files.

Copy to the following path: `<Informatica installation directory>\DataTransformation\externLibse\user\`

Repository

Copy to the following path: `<Informatica installation directory>\DataTransformation\ServiceDB\`

Ensure that you copy custom files to both the development and the production environments. That is, copy the custom files to the machine with the Developer tool and to the machine with the Data Transformation engine.

Ensure that you also copy any deployed services that are not in the `ServiceDB` directory.

Step 2. Import Data Transformation Services

You can import Data Transformation services from the directory where you saved the services. You can import a Data Transformation service to the Model repository to create a Data Processor transformation. The Developer tool imports the transformation, schemas and example data with the CMW file of the Data Transformation service. If you have many services, you can import a directory of services instead.

Importing a Directory of Data Transformation Services

To import a directory of services into the Developer tool repository, perform the following steps:

1. In the Developer tool, click **File** > **Import**. The **Import** dialog box appears.
2. Select **Informatica Import Data Transformation Services (Folder)** and click **Next**.
   The **Import Data Transformation Services** page appears.
3. Browse to select the directory that you want to import.
4. Browse to a location in the Model repository where you want to save the directory, and then click **Finish**.

The Developer tool imports the transformations, schemas and example data.

Importing a Data Transformation Service

To import a single service into the Developer tool repository, perform the following steps:

1. In the Developer tool, click **File** > **Import**. The **Import** dialog box appears.
2. Select **Informatica Import Data Transformation Service (Single)** and click **Next**.
   The **Import Data Transformation Service** page appears.

3. Browse to the service CMW file that you want to import. The Developer tool names the transformation according to the service file name. You can change the name.
4. Browse to a location in the Model repository where you want to save the transformation, and then click **Finish**.

The Developer tool imports the transformation, schemas, and example data with the CMW file.

Getting Started

In the Developer tool, you create Data Processor transformation Scripts with the Data Processor transformation wizard, and define them in the Intelliscript editor and other editors.

To work with Libraries the Developer tool, you can use a dedicated Library Editor to view and to edit the Library specifications for supported Libraries.

You can learn more about the Developer tool, the Data Processor transformation, and the editors, with the following resources:

Working with the Developer tool.

To learn more about working with the Developer tool, see the *Informatica 10.2 Developer Tool Guide*.

Working with the Data Processor transformation

To learn more about creating Data Processor transformations and about Data Processor transformation functionality, see the *Informatica 10.2 Data Transformation User Guide*.

To learn more about working with the Data Processor transformation capabilities, use the tutorials provided in the *Informatica 10.2 Data Processor Transformation Getting Started Guide*.

Working with libraries.

To work with Libraries in the Developer tool, you can use a dedicated Library Editor to view and edit Library specifications. For more information, see the “Libraries” chapter in the *Informatica 10.2 Data Transformation User Guide*.

Migration Limitations

The following limitations apply when migrating from Studio to Informatica Developer, and from Data Transformation projects to Data Processor transformations in mappings.

Limitations and Solutions

Perform the following activities to address migration limitations:

Limitation	Workaround
Cannot import projects directly into the Developer tool.	Export projects as Data Transformation services from Studio and import services into the Developer tool.
The Developer tool does not contain a workspace with projects and related objects.	Use the Model repository to store transformations, schema objects, and data objects instead.

Limitation	Workaround
The Developer tool does not contain a workspace with access to logs.	In the Developer tool, view log events from the **Events** view.
Cannot develop BIRT reports in the Developer tool.	Install an external Eclipse environment and develop BIRT reports in the external Eclipse environment. You can create or import a related Data Transformation service in the Developer tool, and then run the service with the Data Transformation engine.
When you import a service with schemas from Studio, the schemas are combined into a single schema, not imported as separate schemas. The resulting schema might not be valid because of namespace and alias conflicts.	Create schema objects directly in the Developer tool and integrate them into Data Processor transformations.
A Data Processor transformation cannot use a variable to designate a relational input port.	Not currently supported in Data Transformation. Replace variables in relational input ports.
When you import a project with dependencies, If dependent projects are not in the `ServiceDB` directory, the import might fail.	Ensure that all dependencies are available in the `ServiceDB` directory. For example, ensure that SWIFT lookup sample files are available in the `ServiceDB` directory.
Cannot redefine a variable identifier and automatically update all instances of the identifier.	Not currently supported in Data Transformation. You must manually update all instances of a variable identifier.
Cannot run a transformation on two or more files at once.	You can use a Joiner transformation to obtain data from two heterogenous sources, and then pass the data to a Data Processor transformation in the same Informatica mapping. The Joiner transformation can join source data from two related heterogeneous sources from different locations or from different file systems.
A Data Processor transformation with a Streamer as the startup component might fail due to a service parameter.	Apply EBF-11004 to resolve this issue.
Cannot edit a Script in script mode.	In the **Object** view, click the Script, and select **Open with External Editor**. Edit the Script, save it, and then close it. Select **Update Data Processor**. The Developer tool updates the Script.
Cannot edit a schema file in an XSD editor.	In the **Overview** view, select the schema object, and click **Open with** > **Other** > **System Editor**. Edit the schema, save it, and then close it. Select **Update Schema Object**. The Developer tool updates the schema.
For a relational to hierarchical Data Processor transformation, the Developer tool cannot auto-generate a schema to reflect the relational input.	Not currently supported in Data Transformation. You must create a schema that you can use with the transformation.
Click an error in the **Validation Log** view, and then view the Script location associated with the error in the IntelliScript editor.	Supported in Data Transformation 10.2 HF1.
Cannot create a serializer by inverting a parser.	Not currently supported in Data Transformation.