



PUBLIC

SAP Data Services

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Regional Blueprints User Guide

Data Services 4.2 SP14

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1 Introduction

1.1 Documentation set for SAP Data Services content objects

You should become familiar with all of the pieces of documentation that relate to the SAP Data Services blueprints and other content objects.

| Document | What this document provides |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Content Objects Summary</i> | Lists all of the available blueprints and other content objects and the jobs and other objects that they contain. |
| <i>Content Objects What's New</i> | Highlights the new and enhanced blueprints and other content objects available for this release. |
| <i>Data Quality Management Custom Functions User's Guide</i> | Contains instructions for downloading and importing custom functions. |
| <i>Data Quality Management Match Blueprints User's Guide</i> | Contains a list of available Data Quality Management match blueprints and instructions for downloading, configuring, and running them. |
| <i>Data Quality Management Directory Expiration Blueprint User's Guide</i> | Contains instructions for downloading and using a blueprint that contains a job with a script that, when configured properly, can send you email notifications for address directories that are nearing their expiration date. |
| <i>Data Quality Management Microservices Blueprints User's Guide</i> | Contains a list of available Data Quality Management microservices blueprints and instructions for downloading, configuring, and running them. |
| <i>Data Quality Management Product Blueprints User's Guide</i> | Contains a list of available Data Quality Management product blueprints and instructions for downloading, configuring, and running them. |
| <i>Data Quality Management Regional Blueprints User's Guide</i> | Contains a list of available Data Quality Management regional blueprints and instructions for downloading, configuring, and running them. |

1.2 SAP information resources

A global network of SAP technology experts provides customer support, education, and consulting to ensure maximum information management benefit to your business.

Useful addresses at a glance:

| Address | Content |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customer Support, Consulting, and Education services https://support.sap.com/ | Information about SAP support programs, as well as links to technical articles, downloads, and online forums. Consulting services can provide you with information about how SAP can help maximize your information management investment. Education services can provide information about training options and modules. From traditional classroom learning to targeted e-learning seminars, SAP can offer a training package to suit your learning needs and preferred learning style. |
| Product documentation http://help.sap.com/bods/ | SAP product documentation. |
| Product Availability Matrix (PAM) https://apps.support.sap.com/sap/support/pam | Get information about supported platforms for SAP Data Services. Use the search function to search for Data Services. Click the link for the version of Data Services you are searching for. |
| SAP Data Services Community http://scn.sap.com/community/data-services | Get online and timely information about SAP Data Services, including forums, tips and tricks, additional downloads, samples, and much more. All content is to and from the community, so feel free to join in and contact us if you have a submission. |
| Blueprints https://wiki.scn.sap.com/wiki/display/EIM/SAP+Data+Services+Blueprints | Blueprints for you to download and modify to fit your needs. Each blueprint contains the necessary SAP Data Services project, jobs, data flows, file formats, sample data, template tables, and custom functions to run the data flows in your environment with only a few modifications. |

1.3 Introduction to SAP Data Services 4.2 content objects

Welcome to SAP Data Services 4.2 version 14.2.0 Content Objects.

Data Services overview

SAP Data Services delivers a single enterprise-class solution for data integration, data quality, and data profiling that allows you to integrate, transform, improve, and deliver trusted data to critical business processes. It provides one development UI, metadata repository, data connectivity layer, run-time environment, and management console—enabling IT organizations to lower total cost of ownership and accelerate time to value. With SAP Data Services, IT organizations can maximize operational efficiency with a single solution to improve data quality and gain access to heterogeneous sources and applications.

Data Services Content Objects overview

We've identified a number of common scenarios that you are likely to perform with SAP Data Services. For each scenario, we've included a blueprint that is already set up to solve the business problem in that scenario. Each

blueprint contains the necessary project, jobs, data flows, file formats, sample data, template tables, and custom functions to run the data flows in your environment with only a few modifications.

You can download the blueprint packages from the SAP Community Wiki. On the website, we periodically post new and updated blueprints, custom functions, best practices, whitepapers, and other content. You can refer to this site frequently for updated content and use the forums to provide us with any questions or requests you may have.

Instructions for downloading and installing the content objects are also located on the SAP Community Wiki.

2 Regional Blueprints Overview

The regional blueprints illustrate a number of common data quality scenarios that you are likely to perform with SAP Data Services. For each scenario, we've included a blueprint that is already set up to solve the business problem in that scenario. Each blueprint contains the necessary project, jobs, data flows, file formats, sample data, template tables, and custom functions to run the jobs in your environment with only a few modifications.

3 Downloading Blueprint Packages

3.1 Blueprint versions

The following table shows the version of the Data Quality Management blueprints that can be used for SAP Data Services. The blueprint version is displayed on the SAP Data Services Blueprints page of the SAP Community Wiki.

| SAP Data Services version | Blueprint version | Blueprints available |
|---------------------------|-------------------|-------------------------|
| 4.2 | 4.2 | Data Quality Management |
| 4.1.1 | 4.1.1 | Data Quality Management |
| 4.1 | 4.1 | Data Quality Management |
| XI 4.0 | XI 4.0 | Data Quality |
| XI 3.2 | XI 3.2 | Data Quality |
| XI 3.1 | XI 3.0 | Data Quality |
| XI 3.0 | XI 3.0 | Data Quality |

3.2 Available regional blueprints

Each blueprints package contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in a particular region. The "global" blueprints package illustrates how to configure the same jobs when the data is multinational.

To see the contents of each blueprint, including jobs and custom functions, see the *Content Objects Summary*. To help you compare the available blueprints and decide which to download, see the following table.

| Blueprint | Description |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Quality Management Blueprints – Brazil | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in Brazil. |
| Data Quality Management Blueprints – China | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in China. |
| Data Quality Management Blueprints – France | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in France. |

| Blueprint | Description |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Quality Management Blueprints – Germany | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in Germany. |
| Data Quality Management Blueprints – Global | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data when the data consists of multiple countries. |
| Data Quality Management Blueprints – India | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in India. |
| Data Quality Management Blueprints – Japan | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in Japan. |
| Data Quality Management Blueprints – Mexico | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in Mexico. |
| Data Quality Management Blueprints – South Korea | Contains a sample Global Address Cleanse transform configuration containing best practice settings for cleansing address data in South Korea. This transform configuration can only be used with version 4.2 SP2 or later. |
| Data Quality Management Blueprints – USA | Contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving party data in the United States. |

3.3 Downloading and setting up blueprints

Context

These are the general steps for downloading and setting up Data Quality Management blueprint packages for SAP Data Services.

i Note

If you are using a data flow that includes Data Cleanse, you should install the SAP-supplied person and firm cleansing package PERSON_FIRM before you import the `.atl` file.

Procedure

1. To access the SAP Community Network website, go to <https://www.sdn.sap.com/irj/boc/blueprints> in your web browser.
2. Log into your account using your username and password, or create a new account.

3. Review the list of available blueprint packages and other content objects and their descriptions to decide which to download.
4. Select the blueprint package that you want to download. A new page opens.
5. Select *View Document*.
6. Save the .zip file to the `Tutorial Files` folder in your installed SAP Data Services path. By default, this folder is installed to `\Program Files\SAP BusinessObjects\Data Services\Tutorial Files for 32-bit Windows` and `\Program Files (x86)\SAP BusinessObjects\Data Services\Tutorial Files for 64-bit Windows`.

If you are running on UNIX, the `Tutorial Files` folder exists only on the Windows client workstation, and you should download the .zip file there.

7. In the `Tutorial Files` folder in Windows Explorer, right-click the .zip file and select to extract the compressed (zipped) folders to the `Tutorial Files` folder. For example, if you use WinZip for file compression, right-click the .zip file and select **WinZip > Extract to here**.

Extracting creates subfolders and places the files in the appropriate location. The .atl file is saved to the `Data Quality Mgmt Samples` folder, and the sample data files are saved to the `Data Quality Mgmt Samples\<subfolder>` folder.

8. In the Designer, import the .atl file. In the Passphrase window, enter the name of the .atl file without the extension (for example, when importing `dqm_blueprints_france.atl`, enter the passphrase **dqm_blueprints_france**) and click *Import*. For the South Korea blueprints, the passphrase is blank. Click *OK* to close the warning window.

Importing the file adds a project called `DataQualityMgmtBlueprints<xxx>` to your object library, where `<xxx>` represents the name of the region. The project contains jobs whose names begin with `DqmBlueprint<xxx>` and contain in their name the Data Quality Management use case that they illustrate. Each real-time job includes "Rt" in its name. Each job contains a data flow with the same name as the job. The import also adds a datastore called `DqmBlueprints<xxx>` to your object library, and some file formats called `Dqm<xxx>In` and `Dqm<xxx>Out` for the sample input and output data.

Note

South Korea: For the South Korea blueprints, none of these objects are added to the object library.

9. If you are running on UNIX, copy the input files to the job server machine and create the same folder structure that is on the Windows client workstation.
10. If you imported the blueprint .atl files using a Data Services Designer on 32-bit Windows and use a job server on 64-bit Windows, then you must copy the blueprint files to the Data Services installation of the job server machine.

Related Information

[Editing the datastore \[page 10\]](#)

4 Configuring and Running Jobs

4.1 Editing the datastore

Context

After you download the blueprint .zip file to the appropriate folder, unzip it, and import the .atl file in the Designer, you must edit the DqmBlueprints datastore.

i Note

South Korea: These steps are not applicable for the South Korea blueprints, as there is no datastore.

The database that you use for running the blueprints does not need to be the same database that is used for the SAP Data Services repository. It can be a locally installed database system or any shared database system that you have access to create tables in and read from those tables.

Most of the blueprint jobs write to a flat file on your file system. The following are the only jobs that need access to a database system:

- DqmBlueprint<xxx>_LoadInitial—creates a table called DQM_BLUEPRINTS_<xx>_CRM, where <xx> represents the 2-character country code of the region.
- DqmBlueprint<xxx>_LoadDelta—selects candidate records from DQM_BLUEPRINTS_<xx>_CRM for the matching process of a delta load.
- DqmBlueprint<xxx>_RtMatchConsumer—selects candidate records from DQM_BLUEPRINTS_<xx>_CRM for the matching process of a real-time match.

Related Information

[Microsoft SQL Server \[page 10\]](#)

[Other database types \[page 11\]](#)

4.1.1 Microsoft SQL Server

Context

If you have access to write and read data to tables in Microsoft SQL Server 2000, 2005, or 2008, complete the following steps.

i Note

South Korea: These steps are not applicable for the South Korea blueprints, as there is no datastore.

Procedure

1. Select the *Datastores* tab of the Local Object Library, right-click the region-specific DqmBlueprints<Xxx> datastore and select *Edit*.
2. In the *Edit Datastore DqmBlueprints<Xxx>* window, enter your repository connection information in place of the four *CHANGE_THIS* values.
3. Click *OK*. If the window closes without an error message, then the database is successfully connected.
4. Before you run a blueprint job that accesses a database, run DqmBlueprint<Xxx>_LoadInitial to create the table that the subsequent jobs DqmBlueprint<Xxx>_LoadDelta and DqmBlueprint<Xxx>_RtMatchConsumer select rows from.

Next Steps

After you edit the datastore, you should be able to run the blueprint jobs.

4.1.2 Other database types

Context

If you have access to write and read data to tables in another database system (other than Microsoft SQL Server), complete the following steps.

i Note

South Korea: These steps are not applicable for the South Korea blueprints, as there is no datastore.

Procedure

1. Select the *Datastores* tab of the Local Object Library, expand the region-specific DQMBlueprints<Xxx> datastore, and expand the *Template Tables* subfolder.
2. Make note of the name of the datastore and the name of the template table. For example, for the Japan blueprints, note that the name of the datastore is DqmBlueprintsJapan and the name of the template table is DQM_BLUEPRINTS_JP_CRM.

3. Delete the template table. Right-click DQM_BLUEPRINTS_<XX>_CRM, select *Delete*, and select *Yes* to confirm your selection.
4. Delete the datastore. Right-click DqmBlueprints<Xxx>, select *Delete*, and select *Yes* to confirm your selection.
5. Create a new datastore with the same name as the one you just deleted. In the *Datastores* tab of the Local Object Library, right-click in the white space and select *New*. In the *Datastore* name field, enter the name **DqmBlueprints<Xxx>**, where <Xxx> represents the name of the region. In the Database type field, select your database system. Complete the remaining fields with the connection information to the database that you have access to.
6. Click *OK* to close the Create New Datastore window.
7. Open the DqmBlueprint<Xxx>_LoadInitial data flow and delete the target. Then add a new template table with the same name by selecting the Template Table icon from the buttons on the right menu and clicking the data flow canvas. In the Create Template window, enter **DQM_BLUEPRINTS_<XX>_CRM** for the Template name, where <XX> represents the 2-character country code of the region, and select the DqmBlueprints<Xxx> datastore in the In datastore field, where <Xxx> represents the region. Click *OK* to close the Create Template window. Connect the last transform to the template table.
8. Before you run a blueprint job that accesses a database, run DqmBlueprint<Xxx>_LoadInitial to create the table that the subsequent jobs DqmBlueprint<Xxx>_LoadDelta and DqmBlueprint<Xxx>_RtMatchConsumer select rows from.

Next Steps

After you edit the datastore, you should be able to run the blueprint jobs.

4.2 Running the jobs

Prerequisites

Before you run your jobs, you should have already completed the following tasks:



1. Copy the address cleanse reference files for the region before running jobs that include address cleansing.
2. Copy the geocode reference files for the region before running jobs that include geocoding.
3. Install the SAP-supplied person and firm cleansing package PERSON_FIRM before running jobs that include data cleansing.
4. Set accurate values in the substitution parameter configuration Configuration1:
 - \$\$RefFilesAddressCleanse—Enter the path location where you copied the address cleanse reference files.
 - \$\$RefFilesGeocoder—Enter the path location where you copied the geocode reference files.
 - \$\$ReportsAddressCleanse/\$\$ReportsGeocoder/\$\$ReportsMatch—Enter YES or NO to specify whether to generate reports when running the blueprints.

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