



## Product Blueprints User's Guide

- SAP Data Services 4.2 (14.2.0)

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# 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 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.
<i>Text Data Processing Data Quality Management Blueprints User's Guide</i>	Contains a list of available Text Data Processing Data Quality Management blueprints and instructions for downloading, configuring, and running them.
<i>Text Data Processing Entity Extraction Dictionary File Generator User's Guide</i>	Contains instructions for installing and using the Excel spreadsheet to generate and compile dictionary XML files used by the Entity Extraction transform.
<i>Text Data Processing Language Blueprints User's Guide</i>	Contains a list of available Text Data Processing Language blueprints and instructions for downloading, configuring, and running them.

Document	What this document provides
<i>Text Data Processing Miscellaneous Blueprints User's Guide</i>	Contains a list of available Text Data Processing Miscellaneous 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 <a href="http://service.sap.com/">http://service.sap.com/</a>	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 <a href="http://help.sap.com/bods/">http://help.sap.com/bods/</a>	SAP product documentation.
Supported Platforms (Product Availability Matrix) <a href="https://service.sap.com/PAM">https://service.sap.com/PAM</a>	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 Network <a href="http://scn.sap.com/community/data-services">http://scn.sap.com/community/data-services</a>	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 <a href="http://scn.sap.com/docs/DOC-8820">http://scn.sap.com/docs/DOC-8820</a>	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, data profiling, and text data processing 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 Network. 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. We've also provided the ability for you to upload and share any content that you've developed with the rest of the SAP Data Services development community (for instructions on uploading content, see *How to Contribute* at <https://www.sdn.sap.com/irj/scn/submitcontent>).

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

## **Product Blueprints Overview**

The product blueprints include jobs that cleanse data in different industries. Each job comes with a custom cleansing package that can be imported into SAP Information Steward Cleansing Package Builder.

The cleansing packages provided with the product blueprints include only basic content for the purpose of illustrating the concept of what a custom cleansing package looks like for product data cleansing. The cleansing packages should be used exclusively for the blueprints, and should not be used in production environments.



## Downloading Blueprint Packages

### 3.1 Blueprint versions

The following table shows the version of the Data Quality Management and Text Data Processing 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 Network website.

SAP Data Services version	Blueprint version	Blueprints available
4.2	4.2	Data Quality Management Text Data Processing
4.1.1	4.1.1	Data Quality Management Text Data Processing
4.1	4.1	Data Quality Management
XI 4.0	XI 4.0	Data Quality Text Data Processing
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 product blueprints

Each blueprints package contains sample jobs configured to illustrate best practice settings for common Data Quality Management use cases involving the product cleansing process.

To see the contents of each blueprint, including jobs and custom functions, see the *Content Objects Summary*.

Blueprint	Description
Data Quality Management Blueprints – Product	Contains jobs that cleanse product data in different industries using custom cleansing packages.

### 3.3 Downloading and setting up blueprints

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

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\Product folder.

8. In the Designer, import the dqm\_blueprints\_product.atl file. In the Passphrase window, enter dqm\_blueprints\_product and click **Import**. Click **OK** to close the warning window.

Importing the file adds a project called DataQualityMgmtBlueprintsProduct to your object library. The project contains jobs whose names begin with DqmBlueprintProduct and contain in their name the Data Quality Management use case that they illustrate. Each job contains a data flow with the same name as the job. The import also adds file formats whose names begin with DqmProductIn and DqmProductOut for the sample input and output data.

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 ServicesDesigner 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.

# Importing Cleansing Packages

Before you run your jobs, you must import cleansing packages.

**Note:**

These cleansing packages include only basic content for the purpose of illustrating the concept of what a custom cleansing package looks like for product data cleansing. The cleansing packages should be used exclusively for the blueprints, and should not be used in production environments.

1. Log in to Central Management Console (CMC).
2. In the Manage list, select **Promotion Management**.
3. Click the **Import** button and select **Import file**.
4. In the Import from file window, make sure that **File System** is selected. Click the **Browse** button, navigate to `\Program Files (x86)\SAP BusinessObjects\Data Services\Tutorial Files\Data Quality Mgmt Samples\Product`, select `DqmProductCleansingPackages.lcm`, and click **Open**. In the Import from file window, click **OK**. The window closes and the Promotion Management window opens.
5. In the Promotion Management window, click **Browse** to the right of "Save Job In", select **Promotion Jobs**, and click **OK**.
6. In the Promotion Management window, click the combo box in the Destination field and select **Login to a New CMS**.
7. In the Login To System window, log in using the system, user name, and password of the administrator account that you used when logging into CMC. Click **Login**.
8. In the Promotion Management window, click the **Create** button. A new promotion job has been created, listing the names of the 5 cleansing packages that will be imported.
9. Click the **Promote** button.
10. In the left pane of the Promote window, click **Test Promote**.
11. Click the **Test Promote** button at the top of the window.  
For each of the five cleansing packages, the window should display "Promotion Status=No errors detected".
12. Click the **Promote** button.  
In the Promotion Management window, the promotion job opens with a Created status.
13. Click the refresh button.  
The status changes from Created to Running to Success.

In SAP Information Steward, when you select the Cleansing Package Builder tab, the five custom cleansing packages DQM\_PRODUCT\_FINANCIAL, DQM\_PRODUCT\_GLOVE, DQM\_PRODUCT\_PAPER, DQM\_PRODUCT\_PAPIER, and DQM\_PRODUCT\_PHARMA appear in the

list of published cleansing packages. The cleansing packages are also now available for use in SAP Data Services.

## **Running the Jobs**

After you import the cleansing packages, you should be able to run all of the jobs.

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