

# Structured Data Manager

Software Version 24.1.0

Release Notes

**opentext™**

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The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

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# Structured Data Manager Release Notes

**Software version:** 24.1.0

**Publication date:** January 2024

This document is an overview of the changes made to Structured Data Manager (SDM). It contains important information that is not included in books or Help. You can find information about the following in this document:

- [What's new](#)
- [Enhancement](#)
- [Certification highlights](#)
- [Bundled Open-source Software](#)
- [Component specifications](#)
- [Installation notes](#)
- [Fixed issues](#)
- [Known problems, limitations and workarounds](#)

## Related documentation

The following documentation available for this product:

Document Name	Description
<i>Structured Data Manager API Reference Guide</i>	Provides reference to the available programming interfaces.
<i>Structured Data Manager Certification Matrix</i>	Provides information about supported Operating Systems, databases, browsers, software integrations and other technology stacks.
<i>Structured Data Manager Concepts Guide</i>	Explains the major concepts of database archiving in general and Structured Data Manager in particular.
<i>Structured Data Manager Developer's Guide</i>	Explains how to use the Designer component to design, build, test, and deploy your archiving projects.
<i>Structured Data Manager Installation Guide</i>	Explains how to install the product.

<b>Document Name</b>	<b>Description</b>
<i>Structured Data Manager Runtime Guide</i>	Explains how to use the Web Console component to run, monitor, and administer business flows that move data to and from the database.
<i>Structured Data Manager Troubleshooting Guide</i>	Explains how to diagnose and resolve errors, and provides a list of common errors and solutions.
<i>Structured Data Manager Tutorial</i>	Provides step-by-step instructions to build a sample archiving module, deploy, run, and troubleshoot errors in it.
<i>Structured Data Manager Upgrade Guide</i>	Explains how to upgrade the product and archive schema generated by the earlier versions of the product.
<i>Structured Data Manager Discovery Guide</i>	Explains the purpose, how to install and use Discovery.

## What's new

Structured Data Manager 24.1.0 release brings in the following new feature, enhancement and certifications:

### **New feature**

- The product is rebranded to OpenText branding standard.

Refer the following to know more on the enhancement and certifications in this release.

- [Enhancement](#)
- [Certification highlights](#)

Furthermore, Structured Data Manager 24.1.0 release focused on the following.

- Tech Stack updates to the latest known secure libraries
- Security Issues as found by code scanners
- Customer found issues

## Enhancement

Structured Data Manager 24.1.0 release has the following enhancement:

- UDT (user-defined type) support in Oracle D2F Non-Intrusive environments.

**NOTE:** AQS and Upload features are not yet supported for UDTs in Oracle.

## Certification highlights

The following are newly certified on Structured Data Manager 24.1.0.

- **Database**

- Oracle 21c
- PostgreSQL 16.1
- SQL Server 2022

- **Integrations**

- Content Manager 23.4.0
- SDM Discovery 24.1.100
  - SDM Discovery 24.1.100 is integrated with Voltage Fusion 24.1.0
- Voltage SecureData Enterprise
  - Voltage SecureData Appliance 6.9.7
  - Simple API 6.22

For more information, see *Structured Data Manager Certification Matrix*.



## Bundled Open-source Software

- **JRE**

SDM is dependent on JRE and with this release **AdoptOpenJDK JRE 1.8.0\_8u372-b07** has been bundled.

- **Tomcat**

SDM is dependent on Tomcat and with this release **Tomcat 9.0.83** has been bundled.

- **PostgreSQL**

SDM is dependent on PostgreSQL and with this release **PostgreSQL 16.1 (Windows)** has been bundled.

**NOTE:** See the <install\_dir>/licenses/LICENSE.txt file for all other open source library details.

## Component specifications

The following are the components of Structured Data Manager 24.1.0

- Web Console 24.1.0.138
- Designer 24.1.0.214

# Installation notes

The installation requirements and instructions for installing the Structured Data Manager are documented in the *Structured Data Manager Installation Guide*.

For more information on upgrade from your existing installation, see *Structured Data Manager Upgrade Guide, Chapter 2*.

Contact OpenText Support to ensure you have all the current hotfixes.

## DEPRECATED:

- From version 24.1.0
  - PostgreSQL versions earlier than 16.1 are not supported as repository database. Therefore, ensure that you upgrade the repository database, and AQS cache database to 16.1.
- From version 7.6.6 onwards,
  - Oracle versions earlier than 19c are not supported as repository database. Therefore, ensure that you upgrade the repository database to 19c.
  - Locations such as Centera, Digital Safe and HPE Cloud Object Storage are not supported.
- From version 7.6.4 onwards,
  - Elasticsearch versions earlier than 7.5.1 are not supported.

## Fixed issues

The following issues are fixed for 24.1.0 release:

- **672009** - Unable to add Content Manager as a location using https for ServiceAPI.
- **685018** - DB2 AS/400 Unable to scan columns with Nordic characters.
- **692084** - Upload to SQL server fails, when D2F job with DATE data type is masked with SecureData DATE-ISO-8601.
- **729059** - Error while scanning Oracle table in Discovery.
- **733070** - SQL Server fetching incorrect column length for the sql\_variant datatype in SDM.
- **734005** - Scan fails on a Snowflake environment in Discovery.
- **738014** - Unmask does not work for masked data with DAC.
- **741081** - Risk Score formula fails for Zero risk in Discovery.
- **745043** - Discovery project exported on 7.65 does not import on 7.6.7.1.
- **751030** – DB2 AS/400 - Fails to extract D2F cartridge data when column name contains Nordic character.
- **789077** - JOB\_RUN\_ID column shows NULL for certain records.

# Known problems, limitations and workarounds

This section covers known problems, limitations, and workarounds for the following areas:

- [Install or upgrade](#)
- [Repository Creation](#)
- [Database to database](#)
- [Database to file](#)
- [Advanced Selection and Eligibility Analytics](#)
- [Data Access Catridge](#)
- [In-Place Masking \(IPM\)](#)
- [Web Console](#)
- [Upload](#)
- [Designer](#)
- [Free text search](#)
- [Hadoop](#)
- [Discovery](#)
- [Voltage Fusion](#)

## Install or upgrade

**NOTE:** Contact OpenText Support to ensure you have all the current hot fixes, and any mandatory patches for upgrading from previous versions to 24.1.0 version.

- Structured Data Manager 24.1.0 runs on Microsoft Windows and Linux. For detailed information about supported versions, see the Structured Data Manager Certification Matrix at <https://softwaresupport.softwaregrp.com/group/softwaresupport/support-matrices>.  
AIX, HP-UX, Windows 32-bit, Linux 32-bit, and Solaris are not supported in Structured Data Manager. If your operating system is not among those supported in SDM 24.1.0, contact your OpenText representative or OpenText Support for further information and assistance.
- If you are using transparency on Oracle 11.2.0.3, you must apply Oracle patch 10420487.
- If you set the OBT\_HOME environment variable to a remote directory, such as \\myhost\myshare\OBTHOME, then you need to manually update the `directories.properties`

configuration file after the repository installation.

### To update the configuration file

1. Go to the application data directory, where Structured Data Manager stores its configuration files.

For example, on Microsoft Windows, navigate to the following location:

```
C:\SDM\OBTHOME\config
```

2. Manually edit the `directories.properties` file and change the paths to use `${OBT_HOME}`.

For example:

```
obt.dir.aqsDataSources=${OBT_HOME}/aqsdatasources
obt.dir.archivePath=${OBT_HOME}/archive obt.dir.artifacts=${OBT_
HOME}/artifacts
obt.dir.businessflow=${OBT_HOME}/businessflow
obt.dir.extensions=${OBT_HOME}/extensions obt.dir.generate=${OBT_
HOME}/generate
obt.dir.log=${OBT_HOME}/log
```

3. Save and close the file.

**NOTE:** When `OBT_HOME` is set to a remote directory, the `obt.log` file is generated locally rather than on the network drive.

Search on the local machine for `obt.log`. Subsequently, after you update the `directories.properties` file, the `obt.log` appears in the expected location on your network drive. For more details, see 393471.

- While installing SDM in Windows Server 2012, the SDM splash screen is missing. You can ignore it as there is no impact on the functionality.
- During upgrade, if you receive this error  

```
ORA-30556: either functional or bitmap join index is defined on the column to be modified
```

then the index that is using the column must be dropped manually to complete the deployment. Manually recreate the index after the deployment or run the archive business flow with **Type of indexes to create on History** set to **ALL**. For more details, see 393470.
- Migration of password encryption algorithm from DES to AES does not work.

## Repository Creation

- Repository creation fails for PostgreSQL when the user name for `OBTREP` user is created in uppercase. Hence, it is recommended to use lowercase. For details, see 391730.
- Repository installation fails when the Web Console runs as a service. For more details, see 390597

### Workaround

To overcome this issue, perform the following steps:

- Open the Services Window App
  - Right click on Structured Data Management service and select Properties
  - In Log On tab select Local System account and click OK
  - Restart the service
- Repository creation fails if the repository database name contains upper case characters in it. Hence, it is recommended to use lowercase. For details, see 390575.

## Database to database

- When working with the Oracle 11g client on Windows, running the security scripts returns the following error:

SP2-1506: START, @ or @@ command has no arguments.

**NOTE:** Close and ignore the error. This is a Bug 8756483 at Oracle Metalink. For more details, see 392673 and 389043.

- Unable to set D2D parameters under performance tab. For more details, see 390886

### Workaround

Reduce the browser resolution.

- PDM server-side logs are not generated for advanced D2D. For more details, see 396575.

### Workaround

Set log level to TRACE in `log4j2.properties` and check the run log for PDM server-side logs.

- SQL hints are not applied for SQL Server D2D business flow when using `COPY_TP_RANGE`, `DELETE_TP_NO_RANGE` and `TRX` statements. For details, see 401007.
- D2D 3 tier D2F deployment fails for Oracle D2D DI environment. For more details, see 397565.
- SDM DB2 D2D DI environment creation fails with the following error:  

```
.SqlFeatureNotSupportedException: DB2 SQL Error: SQLCODE=-20076,  
SQLSTATE=0A502, SQLERRMC=1, DRIVER=4.24.92
```

For more details, see 390701.
- Undo fails for D2D in MSSQL Server DI environment. For more details, see 392752.

## Database to file

**IMPORTANT:** If the source data contains non-ASCII format, then the extract format JSON will have unpredictable results. To overcome this, ensure that you select CSV or XML as the extract format. For example, if the data is “Telefónica”, where ó is Latin small letter o with acute, then in this scenario, you must select CSV or XML as the extract format.

- Windows Authentication is not supported on database to file (three-tier) configurations. For more details, see 394634.
- After recovery, the row counts for D2F Schema based upload shows only the recovered counts. For more details, see 390832.
- Row counts are only being displayed for the last successful recovery, see 391778.
- Business flow fails to run in intrusive environment, if a model based cartridge which has not enabled purge for driving table but has purge for child tables. For more details, 392614.

### Workaround

To overcome this issue, perform the following step:

- Redeploy the business flow and run again.
- In Oracle D2F BF is failing when Date data type is masked with SecureData SDM ORA-DATE (YYYY-MM-DD HH24:MI:SS). For more details, see 856122.
- D2F BF is failing when Datetime or Datetimeoffset data type is masked with SecureData date functions. For more details, see 860120.
- D2F undo fails in MySQL environment when the table has a column of YEAR data type. For more details, see 869177.

## Advanced Selection and Eligibility Analytics

- For cartridges using Advanced Selection, the rowcounts displayed in the Eligibility Analytics Summary screen are dependent on all the rules in the model, including the rules on child tables.  
When the child-table rules are not enabled for the Eligibility Analytics, total number of transactions counted are limited. This reduces the rowcounts displayed in the summary screen. For more details, see 299462.
- The Eligibility Analytics summary screen has references to "transactions", but in some cases, the counts that are shown are chain counts. For more details, see 393681.

## Data Access Cartridge

- When we download the detailed template results on DAC in XML format, we see an additional field <DBA\_SYS\_0\_DATEOFBIRTH>Error in "DBA\_SYS\_0\_DATEOFBIRTH": Missing



property [DATEOFBIRTH]</DBA\_SYS\_0\_DATEOFBIRTH> for the driving table instance whenever the lookup table has column 'DATEOFBIRTH' of type date.

- In Data Access Cartridges to add hyperlinks in the pseudo columns, you must ensure to specify the following:
  - Use lowercase characters for anchor links.

Example:

```
<a href="http://www.google.com/search?q=1" target="_blank">1</a>
```

**NOTE:** If you use <A HREF="http://www.google.com/search?q=1" target="\_blank">1</A>, then it creates problem while rendering to PDF format.

- If special characters like '&' is used in the hyperlink, then those characters must be replaced by their Unicode forms.

Example:

```
<a href="http://www.google.com/search?q=1&btnI" target="_blank">1</a>
```

must be replaced as:

```
<a href="http://www.google.com/search?q=1&amp;btnI" target="_blank">1</a>
```

**NOTE:** Ensure that you replace characters like '&' with '&amp; '.

## In-Place Masking (IPM)

### IMPORTANT:

- From SDM 7.66 onwards, the Masking Server requires Voltage SecureData SimpleAPI 6.20.0. Make sure that you delete/uninstall any other versions of Voltage SecureData SimpleAPI and keep only Voltage SecureData SimpleAPI 6.20.0 version.
  - For IPM, CSV is the only extract formats that is supported. In other words, XML and JSON are not supported and you might encounter some errors during undo process in turn that may result in data loss. For details, see 392840.
  - Do not select CM as the destination location before performing IPM as it would lead to data corruption. Instead, select LOCAL\_ARCHIVE\_FS as the destination location.
- IPMC business flow run fails after changing the encryption key. For more details, see 845031.

## Web Console

- Deployment of IPM and indexing only BF's through webConsole fails for intrusive environments with "remember me" option unchecked. For details, see 392797.

- During the automatic restart of the Web Console, if the following memory leak error message appears, then you are recommended to restart the Web Console manually.

*org.apache.catalina.loader.WebappClassLoaderBase.clearReferencesThreads The web application [WebConsole] appears to have started a thread named [Thread\_Name] but has failed to stop it. This is very likely to create a memory leak*

- When you perform an upgrade, if you find that the LDAP is enabled for the Web Console, then make sure to copy the LDAP configuration from the webconsole.properties file present in <OLD\_OBTHOME>/config folder to webconsole.properties file present in <NEW\_OBTHOME>/config folder.
- If you encounter an error while creating the SQL server intrusive environment using the JDBC URL, then you are advised to use the drop-down option to create this environment.
- After the deletion of an environment, when you try to create another environment with the same name and configuration, then on the **Launch** tab, under the **Tasks**, you can view all the business flows deployed to the environment before deletion. But while launching these business flows, it displays an error as they were deployed to the environment before deletion.

To clear the business flows, you can use the following workaround.

### Workaround

Assume the environment name is nint\_sql:

#### For oracle repo:

1. ID = Select "CYCLE\_ID" from "obtrep"."OBTCO\_CYCLES" where "SHORT\_NAME"='BF-nint\_sql'
2. Delete from "obtrep"."OBTCO\_CYCLE\_STEPS" where "CYCLE\_ID"=ID

#### For sql repo:

1. ID = Select [CYCLE\_ID] from [obt\_rep].[dbo].[OBTCO\_CYCLES] where "SHORT\_NAME"='BF-nint\_sql'
2. delete from [obt\_rep].[dbo].[OBTCO\_CYCLE\_STEPS] where [CYCLE\_ID] = ID

#### For PostgreSQL repo:

1. ID = Select "CYCLE\_ID" from "obtrep"."OBTCO\_CYCLES" where "SHORT\_NAME"='BF-nint\_sql'
  2. Delete from "obtrep"."OBTCO\_CYCLE\_STEPS" where "CYCLE\_ID"=ID
- Prior to SDM 7.63, for Schema based in-place masking, Model based in-place masking, and Database to File, the row count value (zero in case of D2F and empty in case of IPM) of the business flows was displayed incorrectly. This issue has been fixed as part of 392917.

Due to this fix, correct row count values will be shown for fresh runs only. However, the row count values for the business flow runs that are prior to SDM 7.63, will continue to appear as before.

- The horizontal scroll bar is missing in the Environment tab of Edit Group page when the characters exceeds the size of the list box. This issue is seen only on Mozilla Firefox browser. For details, see 396513.

#### Workaround

Use a different browser to open the Edit Group page.

- Web Console does not stop after running `webConsole.sh stop` on Linux. Few threads /process will still remain open. For more details, see 396511.

#### Workaround

Kill the Web Console instead of stop.

Example : Run the following commands

```
ps -ef|grep tomcat
```

```
kill pid
```

- Reload configuration in **Diagnostic >LDAP > Diagnostic LDAP Configuration** page does not work after upgrading using the **Import Repository** method. For more details, see 580107.

#### Workaround

Copy the LDAP configuration from the `webconsole.properties` file present in `<OLD_OBTHOME>/config` folder to `webconsole.properties` file present in `<NEW_OBTHOME>/config` folder.

- After an upgrade, the non-editable password field shows as editable when editing an external user. For more details, see 580099.

#### Workaround

Copy the LDAP configuration from the `webconsole.properties` file present in `<OLD_OBTHOME>/config` folder to `webconsole.properties` file present in `<NEW_OBTHOME>/config` folder.

- Log4j warning logs appear in Tomcat windows. For more details, see 572040.
- Web Console throws java heapspce error and it goes down. For more details, see 777055.

#### Workaround

- Restart the WebConsole.
- Tomcat throws `java.lang.IllegalArgumentException: Invalid character found in the HTTP protocol [RTSP/1.00x0d0x0a0x0d0x0a...]`. For more details, see 859101.
- Accessing the online help during and after creating the environment throws an error message: `Cannot invoke method getUsername() on null object.` For more details, see 871003.

## Upload

- Upload from Sqlserver to Oracle fails with error  
Could not get dest-DataType for srcDataTypeName = datetime2. For more details, see 858062 .
- Upload from Sqlserver to DB2 fails with error  
Could not get dest-DataType for srcDataTypeName = datetimeoffset. For more details, see 857092 .
- Upload from MySql to Oracle fails with error  
Could not get dest-DataType for srcDataTypeName = YEAR. For more details, see 856063 .
- Upload from Mysql to Db2 fails inserting table data. For more details, see 856067.

## Designer

- MySQL rule validation fails with Database Types do not match on Designer. For more details, see 390543.
- Unable to customize an existing project while creating new project in Designer. For more details, see 392727.

### Workaround

Create a blank project and then import an existing project.

- Designer project exported from windows does not work with Linux designer. For more details, see 391498.

## Free text search

- When you perform a free text search with Elastic Search as indexing server and download the result set as XML then the reference URLs in the XML file containing **&** is getting escaped as **&amp;** in the URL making it invalid. For details, see 391758.

### Workaround

To overcome this issue, perform one of the following steps:

- Open the downloaded XML using a browser and copy paste the reference URL in another tab of the browser.

or

- Download the result set as HTML or PDF to access the reference URL.

## Hadoop

- Archive files are not deleted after undo for hadoop as the archive location if the tablename has space in it. For details, see 390538
- D2F archive with indexing creates file in Hadoop location on two different data blocks. For details, see 391502.
- Undo of D2F archive with indexing does not delete the IDX file from hadoop location. For detail, see 391502

## Discovery

- Scanning error for tables having columns of type XMLTYPE on Oracle database.
- Scans in error state do not appear on monitor tab

### Workaround

To view the error status scan logs, perform one of the following steps:

- Navigate to the folder <OBTHOME>/obtdiscovery and view the erred scan logs.

or

- Navigate to Logs tab and view the scan logs based on the project.
- Discovery installation fails if there is a space in SDM installation folder name. For more details, see 391574.
- Groovy Script Exception error during the **Delete Table** action in the **Table Details** page. For more details, see 506150.

### Workaround

- From the page **Project Table**, select the table you want to delete from the **SELECT** column.
- Select **NOW** from the **PROCESS** drop-down.
- In **PROCESS TABLE** page, click **DELETE**.
- Scan fails for MongoDB environment with error  
Cannot set property 'isPK' on null object. For more details, see 734045.
- The **Previous Column** and **Next Column** options on **Column Detail** page does not work. For more details, see 871005.
- The module, **Sourcesis** not updated when Francais is selected as language. For more details, see 871006.
- Scan fails for some tables when scanning multiple projects at the same time. For more details, see 871038.

- Clicking Email report throws Error message:  
Exception while executing a Groovy script. For more details, see 859119.
- Discovery service checkbox in add schedule task pop up is misplaced. For more details, see 871103.

## Voltage Fusion

- Delay in getting scan result on Voltage Fusion UI, when there are large number of tables in the scan requests. For more information, see 728184.
- After making a change to `service.scan.id` value available in `<OBTHOME>\config\fusionapp.properties`, the changed value is not reflected and the appropriate scan is not performed. For more information, see 871046.

### Workaround

- After changing the `service.scan.id` value, restart the WebConsole.

## Send documentation feedback

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