

Structured Data Manager

Software Version 7.66

Release Notes



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Structured Data Manager Release Notes

Software version: 7.66

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

- [Bundled Open-source Software](#)
- [Certification highlights](#)
- [Enhancements](#)
- [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.
<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.

Document Name	Description
<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.

Bundled Open-source Software

- **JRE**

SDM is dependent on JRE and with this release **AdoptOpenJDK JRE 8u282-b08** has been bundled.

- **Tomcat**

SDM is dependent on Tomcat and with this release **Tomcat 9.0.54** has been bundled.

- **PostgreSQL**

SDM is dependent on PostgreSQL and with this release **PostgreSQL 14 (Windows)** has been bundled.

Certification highlights

The following are certified on Structured Data Manager 7.66:

- Discovery 1.6.8
- Hadoop 3.2.2

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

Enhancements

Structured Data Manager 7.66 release is focused mainly on the following major enhancements as well as fixing the security vulnerabilities:

- Added PostgreSQL as a dropdown option for Environment creation page and Designer connection window
- Increased Environment Name from 20 characters to 80 characters
- Load demo support for MySQL database
- Table hints support on SQL server non-intrusive environment

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 Micro Focus Support to ensure you have all the current hotfixes.

NOTE: XAM support which was deprecated in 7.20 has been retired from 7.63 onwards.

DEPRECATED:

- From version 7.66 onwards,
 - PostgreSQL versions earlier than 14 are not supported. Therefore, ensure that you upgrade the repository database, and AQS cache database to 14.
 - Locations like Centera, Digital Safe and HPE Cloud Object Storage are not supported.
- From version 7.64 onwards,
 - Elasticsearch versions earlier than 7.5.1 are not supported.
- From SDM 7.61 onwards
 - Structured Data Manager no longer supports Data Direct Drivers for any of its components. If you are using these drivers for any of your integrations, then ensure that you integrate them separately.
- From version 7.52 onwards:
 - The support for HP Records Manager is obsoleted. The minimum version supported will be Content Manager 9.1.
 - Structured Data Manager no longer uses Apache Tika framework for any of its components. If you are using this framework for any of your integrations, then you must integrate this separately.

Fixed issues

The following issues are fixed for 7.66 release:

- **389718** - Overview Page and Business Flow Page are showing Local TimeZone in Timestamp
- **390573** - LDAP passwords containing comma results into login issue
- **390629** - Wrong date conversion in CSV files
- **391610** - Environment upgrade fails when the database password is changed
- **392599** - Job run to CM fails when Record Type names are used
- **392663** - LDAP password is not migrated during upgrade
- **392703** - Error Message Displayed on 'Description Field' in User Creation page is showing Technical code information
- **398113** - Issue with applying RowLock Hint in SQL Server
- **390662** - 7.6.5 upgrade fails due to password decryption error
- **397156** - Manage users page displays only 10 entries

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 Cartridge](#)
- [In-Place Masking \(IPM\)](#)
- [Web Console](#)
- [Designer](#)
- [Free text search](#)
- [Hadoop](#)
- [Discovery](#)

Install or upgrade

NOTE: Contact Micro Focus Support to ensure you have all the current hotfixes, and any mandatory patches for upgrading from previous versions to 7.66 version.

IMPORTANT: Pre-upgrade tasks

If you are upgrading from any versions prior to 7.61, and the SDM repository is installed on the SQL server using JDBC URL, then it is mandatory to follow the bellow steps:

1. Open the connection-sources.xml file under <SDMHome>/config folder.
2. Inside the <URL> tag, remove the hpdba: and save the changes. For example:

old url:

jdbc:hpdba:sqlserver://<hostname>:<port>;instanceName=<instanceName>

New url:

jdbc:sqlserver://<hostname>:<port>;InstanceName=<instanceName>

Post-upgrade tasks

If you have upgraded from any versions prior to 7.61, then perform the below post upgrade tasks:

1. Stop the Web Console and ensure that no jobs are running.
2. Open `outerbay.properties` file under `<SDM-HOME>\config` folder.
3. Delete the below section (if they exist):

```
##skipAutoCommitSetting should be set to true for specific type of database  
(such as SAS, Cassandra, MongoDB) for which
```

```
##setAutoCommit API does not support setting it to false (or in some cases  
maybe any value) or throws an exception.
```

```
##The default value of skipAutoCommitSetting is false.
```

```
skipAutoCommitSetting=false
```

4. Add the below content in the `outerbay.properties` file :

```
##Comma separated list of databases which do not support auto commit
```

```
##For example,
```

```
##skipAutoCommitSettingFor=Cassandra, Hive, MongoDB, SAS
```

```
skipAutoCommitSettingFor=Cassandra, Hive
```

5. Start the Web Console.

- Structured Data Manager 7.66 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 7.66, contact your Micro Focus representative or Micro Focus 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 OBTPREP 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 Micro Focus 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.

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.

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 `1`, 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&btnI" target="_blank">1</a>
```

NOTE: Ensure that you replace characters like '&' with '&'

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.

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_OBT_HOME>/config folder to webconsole.properties file present in <new_OBT_HOME>/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.

- Deployment of indexing cartridge through Web Console to SQL Server intrusive environment with Windows Authentication fails. For details, see 400043.

Workaround

Deploy indexing cartridge through Designer.

- 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
```

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 **&** 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.

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