

# Structured Data Manager

Software Version 7.63

Release Notes



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- 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:** 7.63

**Publication date:** December 2019

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.

## Related documentation

The following documentation available for this product:

Document Name	Description
<i>Structured Data Manager Installation Guide</i>	Explains how to install the product.
<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 Tutorial</i>	Provides step-by-step instructions to build a sample archiving module, deploy, run, and troubleshoot errors in it.
<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 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 API Reference Guide</i>	Provides reference to the available programming interfaces.
<i>Structured Data Manager Upgrade Guide</i>	Explains how to upgrade the product and archive schema generated by the earlier versions of the product.

## Bundled Open-source Software

- **JRE**

SDM is dependent on JRE and with this release **AdoptOpenJDK JRE 8u212-b03** has been bundled.

- **Tomcat**

SDM is dependent on Tomcat and with this release **Tomcat 8.5.40** has been bundled.

- **PostgreSQL**

SDM is dependent on PostgreSQL 11.5 and with this release **PostgreSQL 11.5** has been bundled.

## Enhancements

Structured Data Manager 7.63 release is focused mainly on fixing the security vulnerabilities. In addition, the following minor enhancements are also the part of this release:

- Improved performance of IPM business flow.
- Enabled Column-Inclusion tab for IPM cartridges.
- Increased default value of Java heap size for Web Console, Designer, and Business Flow or Job Launcher.
- For In-place masking (IPM), the following new properties are added in `outerbay.properties` file:

Property	Description
<code>ipm.fetch.Size</code>	Add this property to fetch the number of records per DB network call in Non-Intrusive environment.  Default value : 4000
<code>ipm.batch.Size</code>	Add this property to send batch update request to DB in Non-Intrusive environment.  Default value : 10000
<code>log.batch.size</code>	Add this property to specify the batch size to log number of records processed per table.  Default value : 50000

**NOTE:** If the value is zero or negative, then records logging will be disabled.

# 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 7.52 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.
- From SDM 7.61 onwards
  - The Designer is not supported on Linux platform.
  - 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.
- The PostgreSQL versions earlier than 11.5 are not supported in this release. Therefore, ensure that you upgrade the repository, environment, and AQS cache to 11.5.

## Fixed issues

The following issues are fixed for 7.63 release:

- **[ADM-10091]** : Row count values are not displayed on the Overview page for Schema based in-place masking, Model based in-place masking, and Database to File when the data movement is archive.
- **[ADM-10193]** : Timestamp with time zone parsing issue on Oracle Non-intrusive Environment.
- **[ADM-10395]** : In-place masking business flow fails to run with an exception:  

```
org.postgresql.util.PSQLException: FATAL: remaining connection slots are reserved for non-replication superuser connections
```
- **[ADM-10440]** : In the Schema based in-place masking, the business flow is displayed as completed successfully, even though the undo business flow fails to complete.
- **[ADM-10459]** : Unable to download the CSV, XML, and PDF file types when free text search is performed.
- **[ADM-10481]** : Unable to update or set the email address as it gets truncated when its length exceeds 30 characters.

# Known problems, limitations and workarounds

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

- [Install or upgrade](#)
- [Database to database](#)
- [Database to file](#)
- [Advanced Selection and Eligibility Analytics](#)
- [Data Access Cartridge](#)
- [In-Place Masking \(IPM\)](#)
- [Web Console](#)

## 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 7.63 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 7.63 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 7.63, 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. For more details, see ADM-3449.
- 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 ADM-6242.

- 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 ADM-6250.

- Migration of password encryption algorithm from DES to AES does not work.

## 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 12198 and 12077.

## 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 ADM-5510.

## 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 ADM-5080.

- 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 ADM-5077.

## Data Access Cartridge

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 7.60 onwards, the Masking Server requires Voltage SecureData SimpleAPI 5.20 or above. If you have upgraded SDM prior to 7.60, then you might have installed SimpleAPI 5.10, and in this case you need to make sure that you upgrade Voltage SecureData SimpleAPI to version 5.20 or above.

- For IPM, the CSV and XML are the only extract formats that are supported. In other words, JSON is not supported and you might encounter some errors during undo process in turn that may result in data loss.
- 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

- 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 per [Fixed issues, on page 7](#) mentioned under the **Fixed issues** section.

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.