ONE IDENTITY™

One Identity Manager Release Notes for Database Systems Integration Module 8.1.4

Release Notes

October 2020

This release notes provide information about the Database Systems Integration (DSI) module used for connecting to native databases.

About this release

This release introduces a new One Identity Manager module, the Database Systems Integration (DSI) which provides synchronization project templates to connect to multiple database engines through the One Identity Manager Native Database Connector.

Supported platforms

The DSI module can be configured with the One Identity Manager 8.1.4.

The DSI template work with Oracle, MS SQL, SAP HANA , and MySQL database versions that are supported by One Identity Manager native database connector.

Supported features

New features supported in the current release of the DSI module are listed here:

Oracle database

- Read all user accounts and their attributes
- Read all user roles
- Read all user profiles
- Read all tablespaces
- Read user role membership
- Read role membership
- Create and delete operations for users
- Change password for users
- Lock or unlock users
- Change role membership
- Change user role membership

MS SQL database

For server-level template

- Read all login accounts and their attributes
- Read all server roles
- Read all login role membership
- Read all role membership
- Create and delete operations for login
- Change password for logins
- Lock or unlock logins
- Change role membership
- Change login role membership

For database-level template

- Read all user accounts and their attributes
- Read all database roles or application roles
- Read all user role membership
- Read all role membership
- Create and delete operations for users
- Change password for users
- Lock or unlock users
- Change role membership
- Change user role membership

SAP HANA database

- Read all user accounts and their attributes
- Read all user roles
- Read all user role membership
- Read role membership
- Create and delete operations for users
- Change password
- Lock or unlock user
- Change role membership
- Change user role membership

MySQL database

- Read all user accounts and their attributes
- Read all user privileges
- Read user assigned privileges
- Create, read, update, and delete users
- Change password
- Lock or unlock user
- Change privilege membership

Resolved issues

The following is a list of issues addressed in this release.

Table 1: Resolved issues

Resolved Issue	Issue ID
An error was displayed while trying to save the synchronization project in the Native SQL Database connector with DSI module installed when applying either of the SQL DB integration templates (server or database level).	216011
DSI job chains are triggered for non-DSI synchronization projects that make use of UNSNamespace tables (UNSAccountB, UNGroupB, UNSAccount, UNSGroupBInUNSGroupB, UNSAccountBInUNSGroupB).	140568

Known issues

The following is a list of issues, including those attributed to third-party products, known to exist at the time of release.

Table 2: General known issues

Known Issue	Issue ID
Oracle template	
Assignment of **GLOBAL_AQ_USER_ROLE** role to an Oracle user is not supported in DSI.	110164
After creating a user, the **CONNECT** role does not appear in **Groups**. After a resynchronization the role is visible.	115982
New user creation with the option **WITH ADMIN OPTION** is not supported in DSI.	115976
Microsoft SQL template	
The fixed server or database role to fixed server, database, or user defined role assignment is restricted in MS SQL Server.	110662
While assigning role membership to login, the role **public** cannot be assigned through One Identity Manager. By default, it is assigned during login creation. The role **public** cannot be revoked for logins.	110682
Enabling or disabling of MS SQL Login for **WINDOWS GROUP** is not supported in DSI.	113273
Creating MS SQL Logins for certificate and asymmetric key is not supported in DSI.	115893
SAP HANA template	
Duplicate entries from Roles is not synchronized in DSI.	113841
Certain role membership assignments are not allowed to users and roles.	116105

System requirements

Before installing One Identity Manager Release Notes for Database Systems Integration Module 8.1.4, ensure that your system meets the following minimum hardware and software requirements.

Database Server Minimum requirements

Table 3: Database Server Minimum requirements

Requirement	Details
Processor	8 physical cores with 2.5 GHz+ NOTE: 16 physical cores are recommended on performance grounds.
Memory	16 GB+ RAM
Free disk space	100 GB
Operating system	**Windows operating systems** Note that the requirements from Microsoft for the SQL Server version are installed. **UNIX and Linux operating systems** Please note the minimum requirements given by the operating system manufacturers for Oracle databases or SQL Server databases.

Software	**SQL Server**
	
	• SQL Server 2019 Standard Edition (64-bit) with the current cumulative update
	
	• SQL Server 2017 Standard Edition (64-bit) with the current cumulative update
	
	• SQL Server 2016 Standard Edition (64-bit), Service Pack 2 with the current cumulative update
	
	NOTE: The SQL Server Enterprise Edition is recommended on performance grounds.
	
	    • Compatability level for databases: SQL Server 2016 (130)
	
	    • Default collation: case-insensitive, SQL_Latin1_General_ CP1_CI_AS (Recommended)

NOTE: One Identity Manager works with SQL Server. For more detailed information on system prerequisites see the One Identity Manager Installation Guide.

Service Server Minimum requirements

Table 4: Service Server Minimum requirements

Requirement	Details
Processor	8 physical cores with 2.5 GHz+
Memory	16 GB RAM
Free disk space	40 GB
Operating system	**Windows operating systems** • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 • Windows Server 2008 R2 (non-Itanium 64 bit) Service Pack 1 or later **Linux operating systems** Linux operation system (64 bit) supported by the Mono project or Docker images provided by the Mono project.
Additional Software	**Windows operating systems** • Microsoft .NET Framework version 4.7.2 or later NOTE: Refer to the recommendations of the manufacturer of the target system to connect to the target system. **Linux operating systems** • Mono 5.14 or later

ONE IDENTITY™

Client Minimum requirements

Table 5: Client Minimum requirements

Requirement	Details
Processor	4 physical cores with 2.5 GHz
Memory	4 GB+ RAM
Free disk space	1 GB
Operating system	**Windows operating systems** • Windows 10 (32 bit or 64 bit) version 1511 or later • Windows 8.1 (32 bit or 64 bit) with the current service pack • Windows 7 (32 bit or non-Itanium 64 bit) with the current service pack
Additional Software	**Windows operating systems** • Microsoft .NET Framework version 4.7.2 or later
Supported browsers	• Internet Explorer 11 or later • Firefox (release channel) • Chrome (release channel) • Microsoft Edge (release channel)

Web Server Minimum Requirements

Table 6: Web Server Minimum requirements

Requirement	Details
Processor	4 physical cores with 1.65 GHz+
Memory	4 GB RAM
Free disk space	40 GB
Operating system	**Windows operating systems** • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012

Requirement	Details
	• Windows Server 2008 R2 (non-Itanium 64 bit) Service Pack 2 or later
	Linux operating systems
	• Linux operation system (64 bit) supported by the Mono project or Docker images provided by the Mono project. Please note the operating system manufacturer's minimum requirements for Apache HTTP Server.
Additional Software	**Windows operating systems**
	• Microsoft .NET Framework version 4.7.2 or later
	• Microsoft Internet Information Service 10 or 8.5 or 8 or 7.5 or 7 with ASP.NET 4.7.2 and Role Services:
	• Web Server > Common HTTP Features > Static Content
	• Web Server > Common HTTP Features > Default Document
	• Web Server > Application Development > ASP.NET
	• Web Server > Application Development > .NET Extensibility
	• Web Server > Application Development > ISAPI Extensions
	• Web Server > Application Development > ISAPI Filters
	• Web Server > Security > Basic Authentication
	• Web Server > Security > Windows Authentication
	• Web Server > Performance > Static Content Compression
	• Web Server > Performance > Dynamic Content Compression
	Linux operating systems
	• Mono 5.14 or later
	• NTP Client
	• Apache HTTP Server 2.0 or 2.2 with following modules:
	• mod_mono
	• rewrite
	• ssl (optional)

Application Server Minimum Requirements

Table 7: Application Server Minimum requirements

Requirement	Details
Processor	8 physical cores with 2.5 GHz+
Memory	8 GB RAM
Free disk space	40 GB
Operating system	**Windows operating systems** • Windows Server 2019 Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 • Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later **Linux operating systems** • Linux operation system (64 bit) supported by the Mono project or Docker images provided by the Mono project. Please note the operating system manufacturer's minimum requirements for Apache HTTP Server.

Additional Software	**Windows operating systems**
	
	• Microsoft .NET Framework version 4.7.2 or later
	
	• Microsoft Internet Information Service 10 or 8.5 or 8 or 7.5 or 7 with ASP.NET 4.7.2 and Role Services:
	
	  • Web Server > Common HTTP Features > Static Content
	  • Web Server > Common HTTP Features > Default Document
	  • Web Server > Application Development > ASP.NET
	  • Web Server > Application Development > .NET Extensibility
	  • Web Server > Application Development > ISAPI Extensions
	  • Web Server > Application Development > ISAPI Filters
	  • Web Server > Security > Basic Authentication
	  • Web Server > Security > Windows Authentication
	  • Web Server > Performance > Static Content Compression
	  • Web Server > Performance > Dynamic Content Compression
	
	Linux operating systems

Requirement	Details

- Mono 5.14 or later
- NTP Client
- Apache HTTP Server 2.0 or 2.2 with following modules:
    - mod_mono
    - rewrite
    - ssl (optional)

Product licensing

Use of this software is governed by the Software Transaction Agreement found at www.oneidentity.com/legal/sta.aspx. This software does not require an activation or license key to operate.

Upgrade and installation instructions

For more information on upgrade and installation instructions for the Database Systems Integration module, refer the *Administration Guide for Connecting to Native Databases through Database Systems Integration Module*.

Schema changes

The following provides an overview of schema changes from One Identity Manager version 8.0.3 up to version 8.1.4 included in DSI Module.

- New column **UNSAccountB**. **HostName** as host name of the host where the **mysql** user account has access.
- New column **UNSAccountB.AccountType** as the type of MSSQL /SAP user.

Changes to system connectors

The following section provides an overview of the modified synchronization templates and an overview of all patches provided by Database Systems Integration module for One Identity Manager version 8.0.3 to version 8.1.4. Apply the provided patches to existing synchronization projects. For more information on applying patches see, Applying patches to synchronization projects topic in the latest *One Identity Manager Release Notes*.

Configuration file changes in Database Systems Integration module

The configuration files mentioned here must be updated to reflect the latest changes.

- MSSQL Database Level configuration file
- MSSql Server Level configuration file
- SAPSql configuration file

Applying changes to the configuration file

1. Open the Synchronization Editor and open an existing synchronization project.
2. Navigate to the required **Target System** in the left pane.
3. Click **Edit Connection**.

   The target system connection wizard is displayed.
4. Click Next till the Load configuration page is displayed.
5. Select the configuration file and complete the connection.
6. Click **Commit to database**.

   The updated configuration file is loaded for the existing synchronization project.

Modified synchronization templates

The following topic provides an overview of the modified synchronization templates. Patches are available for updating synchronization templates in the existing synchronization projects. For more information on patches, see *Patches for synchronization projects* topic in *One Identity Manager Release notes*.

Table 8: Modified synchronization templates

Module	Synchronization template	Type of Modification
Database System Integration	MSSql DB Level Template	Changed
	MSSql Server Level Template	Changed
	Oracle Database Template	Changed
	SAP HANA Template	Changed

Patches for synchronization projects

The following is a list of all patches provided in the Database Systems Integration Module for One Identity Manager 8.1.4 synchronization projects.

Table 9: Patches for synchronization projects

Patch ID	Patch	Description	Issue ID
VSTS#114678	Add mappings for **AccountType** and **Canonicalname** in Database Systems Integration templates	Add mappings for **AccountType** and **Canonicalname** in Database Systems Integration templates	114678 and 124586

IMPORTANT: After the patch installation, run the initial synchronization for the Database Target Systems.

More resources

Additional information is available from the following:

- One Identity Manager support
- One Identity Manager online documentation
- Identity and Access Management community
- One Identity Manager training portal

Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. It supports simultaneous operation with multilingual data. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe. The release is localized in the following languages: **German**. This version has the following capabilities or constraints: Other languages, designated for the Web UI, are provided in the product One Identity Manager Language Pack.

About us

One Identity solutions eliminate the complexities and time-consuming processes often required to govern identities, manage privileged accounts and control access. Our solutions enhance business agility while addressing your IAM challenges with on-premises, cloud and hybrid environments.

Contacting us

For sales and other inquiries, such as licensing, support, and renewals, visit https://www.oneidentity.com/company/contact-us.aspx.

Technical support resources

Technical support is available to One Identity customers with a valid maintenance contract and customers who have trial versions. You can access the Support Portal at https://support.oneidentity.com/.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to videos at www.YouTube.com/OneIdentity
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product