

One Identity Manager Release Notes for Database Systems Integration Module 9.1.1

Release Notes

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

For the most recent documents and product information, see the [One Identity Manager documentation](#).

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 Generic Database Connector.

Supported platforms

The DSI module can be configured with the One Identity Manager 9.1.1.

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

Supported features

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

Table 1: New features

Features	Issue ID
The DSI Module now supports the use case related to isEffective in Oracle, MySQL and SAP HANA	251967
The Oracle template is validated against the new Oracle managed ADO.NET provider	269117

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 2: Resolved issues

Resolved Issue	Issue ID
Synchronization project now can be created with MS SQL Templates using Non-standard SQL Port	403664
Deployment target for Server\Jobserver is changed from "Target_Configuration_Name" to "Target_Jobserver_Name"	392811
"There is already an element with the name (vrtIsGrantable)" in synchronization editor while creating sync project with SAP HANA template.	402369

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 3: 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	

Known Issue	Issue ID
Duplicate entries from Roles is not synchronized in DSI.	113841
Certain role membership assignments are not allowed to users and roles.	116105

System Requirements

Ensure that your system meets the following minimum hardware and system requirements before installing One Identity Manager. For more detailed information about system prerequisites, see the One Identity Manager Installation Guide.

NOTE: When setting up a virtual environment, carefully consider the configuration aspects such as CPU, memory availability, I/O subsystem, and network infrastructure to ensure the virtual layer has the necessary resources available. Please consult [One Identity's Product Support Policies](#) for more information on environment virtualization.

Every One Identity Manager installation can be virtualized. Ensure that performance and resources are available to the respective One Identity Manager component according to system requirements. Ideally, resource assignments for the database server are fixed. Virtualization of a One Identity Manager installation should only be attempted by experts with strong knowledge of virtualization techniques.

Minimum requirements for the database server

A server must meet the following system requirements for installation of a One Identity Manager database. Depending on the number of One Identity Manager modules and the accounts managed in One Identity Manager, the requirements for working memory, hard disk storage, and processors may be significantly greater than the minimum requirements.

Table 4: Database Server Minimum requirements

Requirement	Details
Processor	<p>8 physical cores with 2.5 GHz+ frequency (non-production)</p> <p>16 physical cores with 2.5 GHz+ frequency (production)</p> <p>NOTE: 16 physical cores are recommended on the grounds of performance.</p>
Memory	16 GB+ RAM (non-production)

Requirement	Details
	64 GB+ RAM (production)
Free disk space	100 GB
Operating system	<p>Windows operating systems</p> <ul style="list-style-type: none"> Note the requirements from Microsoft for the installed SQL Server version. <p>UNIX and Linux operating systems</p> <ul style="list-style-type: none"> Note the minimum requirements given by the operating system manufacturer for SQL Server databases.
Software	<p>SQL Server</p> <ul style="list-style-type: none"> SQL Server 2019 Standard Edition (64-bit) with the current cumulative update <ul style="list-style-type: none"> NOTE: The cumulative update 2 for SQL Server 2019 is not supported. SQL Server 2017 Standard Edition (64-bit) with the current cumulative update <ul style="list-style-type: none"> NOTE: For performance reasons, the use of SQL Server Enterprise Edition is recommended for live systems. <ul style="list-style-type: none"> Compatibility level for databases: SQL Server 2017 (140) Default sort schema: case-insensitive, SQL_Latin1_General_CP1_CI_AS (Recommended) SQL Server Management Studio (recommended)

NOTE: The minimum requirements listed above are considered to be for general use. With each custom One Identity Manager deployment these values may need to be increased to provide ideal performance. To determine production hardware requirements, it is strongly recommended to consult a qualified One Identity Partner or the One Identity Professional Services team. Failure to do so may result in poor database performance.

Requirement	Details
	For additional hardware recommendations, read the KB article https://support.oneidentity.com/identity-manager/kb/290330/how-to-configure-settings-as-per-the-system-information-overview , which outlines the System Information Overview available within One Identity Manager.
	NOTE: In virtual environments, you must ensure that the VM host provides performance and resources to the database server according to system requirements. Ideally, resource assignments for the database server are fixed. Furthermore, optimal I/O performance must be provided, in particular for the database server. For more information about virtual environments, see Product Support Policies .

Minimum requirements for the service server

The following system prerequisites must be fulfilled to install the One Identity Manager Service on a server.

Table 5: 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	<p>Windows operating systems</p> <p>Following versions are supported:</p> <ul style="list-style-type: none"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 <p>Linux operating systems</p> <ul style="list-style-type: none"> • Linux operation system (64 bit) supported by the Mono project or Docker images provided by the Mono project.
Additional Software	<p>Windows operating systems</p> <ul style="list-style-type: none"> • Microsoft .NET Framework version 4.8 or later <p>NOTE:Take the target system manufacturer's recom-</p>

Requirement	Details
	<ul style="list-style-type: none"> • Recommendations for connecting the target system into account.
	Linux operating systems <ul style="list-style-type: none"> • Mono 6.10 or later

Minimum requirements for clients

Table 6: 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 <ul style="list-style-type: none"> • Windows 11 (x64) • 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 <ul style="list-style-type: none"> • Microsoft .NET Framework version 4.8 or later • Microsoft Edge WebView2
Supported browsers	<ul style="list-style-type: none"> • Firefox (release channel) • Chrome (release channel) • Microsoft Edge (release channel)

Minimum requirements for the Web Server

The following system prerequisites must be fulfilled to install web applications on a web server.

Table 7: Web Server Minimum requirements

Requirement	Details
Processor	4 physical cores 1.65 GHz+
Memory	4 GB RAM
Free disk space	40 GB
Operating system	<p>Windows operating systems</p> <ul style="list-style-type: none"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 <p>Linux operating systems</p> <ul style="list-style-type: none"> • 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	<p>Windows operating systems</p> <ul style="list-style-type: none"> • Microsoft .NET Framework version 4.8 or later <p>Microsoft Internet Information Service 10 or 8.5 or 8 or 7.5 or 7 with ASP.NET 4.8 and Role Services:</p> <ul style="list-style-type: none"> • 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 <p>Linux operating systems</p>

Requirement	Details
	<ul style="list-style-type: none"> • NTP Client • Mono 6.10 or later • Apache HTTP Server 2.0 or 2.2 with following modules: <ul style="list-style-type: none"> • mod_mono • rewrite • ssl (optional)

Minimum requirements for the Application Server

The following system prerequisites must be fulfilled for installation of the application server.

Table 8: 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	<p>Windows operating systems</p> <ul style="list-style-type: none"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 <p>Linux operating systems</p> <ul style="list-style-type: none"> • 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	<p>Windows operating systems</p> <ul style="list-style-type: none"> • Microsoft .NET Framework version 4.8 or later • Microsoft Internet Information Service 10 or 8.5 or 8 or 7.5 or 7 with ASP.NET 4.8 and Role Services:

Requirement	Details
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- | | |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none">• 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

- NTP Client
- Mono 5.14 or later
- 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 generic 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 9.1.1 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 9.1.1. 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 9: 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 9.1.1 synchronization projects.

Table 10: 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.

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