

One Identity Manager 8.0.2

Release Notes

September 2018

These release notes provide information about the One Identity Manager release. For changes to the Web Designer and the Web Portal since the last version, see the document *Web Designer and Web Portal Changes*.

The documentation is available in both English and German. The following documents are only available in English:

- One Identity Manager Password Capture Agent Administration Guide
- One Identity Manager LDAP Connector for CA Top Secret Reference Guide
- One Identity Manager LDAP Connector for IBM RACF Reference Guide
- One Identity Manager LDAP Connector for IBM AS/400 Reference Guide
- One Identity Manager LDAP Connector for CA ACF2 Reference Guide
- One Identity Manager REST API Reference Guide
- One Identity Manager Web Runtime Documentation
- One Identity Manager Object Layer Documentation
- One Identity Manager Composition API Object Model Documentation

About One Identity Manager 8.0.2

One Identity Manager simplifies the process of managing user identities, access permissions and security policies. You allow the company control over identity management and access decisions whilst the IT team can focus on their core competence.

With this product, you can:

- Implement group management using self service and attestation for Active Directory with the One Identity Manager Active Directory Edition
- Realize Access Governance demands cross-platform within your entire concern with One Identity Manager

Each one of these scenario specific products is based on an automation-optimized architecture that addresses major identity and access management challenges at a fraction of the complexity, time, or expense of "traditional" solutions.

One Identity Manager 8.0.2 is a patch release with new functionality and improved behavior. See [Features](#) on page 2 and [Enhancements](#) on page 3.

Features

New features in One Identity Manager 8.0.2:

Basic functionality

- Supports Microsoft .NET Framework 4.7.2.

Target system connection

- Support is provided for SQL Server databases to configure synchronization between two One Identity Manager databases with different versions. To configure synchronization, use the native database connector for SQL Server databases.

IT Service Management

- ServiceNow integration with One Identity Manager. A new module has been introduced for the integration of ServiceNow, the ServiceNow module.
 - During an approval workflow sequence in One Identity Manager, the workflow can be passed to ServiceNow. One Identity Manager checks the ticket's status in ServiceNow until it closes. Then the approval workflow is continued by One Identity Manager.
 - Each time a request is added or changed in One Identity Manager, it causes a ticket to be added or changed in ServiceNow. This means that ServiceNow is the central hub for information about all requests.
 - Integration of the Web Portal request system in the ServiceNow portal.

For integration to successfully authenticate a user, ServiceNow accounts (users) must have corresponding identities in One Identity Manager.

See also:

- [Enhancements](#) on page 3
- [Resolved issues](#) on page 6

- [Schema changes](#) on page 20
- [Patches for synchronization projects](#) on page 22


Enhancements

The following is a list of enhancements implemented in One Identity Manager 8.0.2.

Table 1: General

Enhancement	Issue ID
Improved performance calculating responsibilities.	29081
Improved performance generating and testing email addresses in the Customizer.	29769
Improved performance when encrypting a database.	29834
Optimized processing of tasks in the DBQueue Processor.	29858, 30040, 30067, 30207
In a table's display name definition, one and the same column can be referenced several times.	29995
Improved security against deserialization attacks.	30358

Table 2: General - Web Designer and Web Portal

Enhancement	Issue ID
The maximum number of search results searching a grid column or search index, can be configured using a Web Designer configuration parameter.	29661
In the grid header, the options User can save view settings and display additional properties and Allow exporting of this grid can be set independently. You can configure whether the header is displayed or not.	29764
 NOTE: Custom grids must have this option set in order to hide the header.	
There is a new action node in Web Designer, Child row load action on the Tree node type if the data source is a collection. The appropriate data can be added to the collection in this action node.	29798
Improved filtering of requests in Web Portal.	30038
Search queries can be executed before the search index is completely built.	30053

Enhancement	Issue ID
Improved design of input fields for value with a maximum length.	30061
A temporarily locked search index can be opened as read-only.	30065
Improved prevention of sandbox escapes.	30127
Improved security against cross-site scripting attacks when reports are displayed.	30147
The number of entries in combo boxes shown in Web Portal is not limited anymore.	30170

Table 3: Target system connection

Enhancement	Issue ID
Improved display of synchronization workflows in Designer handling provisioning process operations.	29103
The variable set in use is also shown in the synchronization log navigation in the Synchronization Editor.	29731
Optimized handling of schema properties during provisioning.	29828
Entries in the synchronization log are deleted in bulk.	29899
In the target system browser, it is possible to display system objects containing encrypted values.	30021
Optimized loading of data in the system cache during synchronization.	30055
Improved selection options for variable sets in the Synchronization Editor if a lot of variable sets are defined.	30082
More detailed logging of QueryByExample query results.	30166
The explanations about the object filter's syntax in the Synchronization Editor have been expanded.	30191
Improved performance processing Active Directory DBQueue tasks.	30036
Improved performance of provisioning in Microsoft Exchange 2013/2016.	29917
A preferred domain controller for write operations can be configured in the connection parameters for Microsoft Exchange synchronization projects. This uses the variable CP_PREFERRED_SERVER of the session option Set-ADServer-Settings.	30018
A patch with the patch ID VPR#30018 is available for synchronization projects.	
Improved performance when add Notes user account in the target system.	29970
Revision filtering can be used for synchronizing SAP user account commu-	29733

Enhancement	Issue ID
<p>nications data.</p> <p>A patch with the patch ID VPR#29733 is available for synchronization projects.</p>	
<p>Additional schema classes provided for SAP user account communication data (UserComPhone and UserComSMTP) where the validity date must be taken into account.</p>	29788
<p>Improved performance provisioning access permission to central user administration child systems.</p>	29817
<p>In SAP R/3 synchronization projects, the revision filter is reused in other synchronization steps.</p> <p>A patch with the patch ID VPR#29877 is available for synchronization projects.</p>	29877
<p>Improved performance provisioning memberships of SAP user accounts in SAP roles that are created through inheritance.</p>	29920
<p>If you configure synchronization with a cloud application, credentials for OAuth authentication are always passed in the connection parameters as Base64 coded.</p>	29824
<p>Various improvements connection One Identity Connect For Cloud application with the SCIM connector.</p> <p>A patch with the patch ID VPR#30002 is available for synchronization projects.</p>	30002

Table 4: Identity and Access Governance

Enhancement	Issue ID
<p>Improved performance accessing shopping carts.</p>	29384
<p>Requests that are assigned as parent cart item (PersonWantsOrg.UID_PersonWantsOrgParent) of a request are ignored if closed requests are deleted but should not be deleted yet.</p>	29732
<p>Improved performance creating the report, Employee History Overview.</p>	29898

See also:

- [Schema changes](#) on page 20
- [Patches for synchronization projects](#) on page 22

Deprecated features

The following features are no longer supported with this version of One Identity Manager:

- Provider mode, including the associated process component ObjectTransferComponent.

The One Identity Manager connector can be used for transporting data between One Identity Manager databases. For more detailed information about synchronizing using the One Identity Manager connector, see the *One Identity Manager User Guide for the One Identity Manager Connector*.

- Archiving historical data using XML files (version 8.0.1 or later)
 - The following configuration parameters have been removed: **Common | ProcessState | ExportPolicy | ExportPath, Common | ProcessState | ExportPolicy | ExportServer, ProcessInfoImport | ImportPath, ProcessInfoImport | ImportServer, ProcessInfoImport | IgnoreDirectOperations** and **ProcessInfoImport**.
 - The option **FILE** has been removed from the configuration parameter **Common | ProcessState | ExportPolicy**.
 - The schedules **Export process information** and **Import process information** have been removed.
 - The processes VID_Export_ProcessInfo and VI_ProcessInfo_Import have been removed.
 - The process tasks ExportProcessInfo and ImportProcessInfo have been removed from the process component ScriptComponent.

The following functions will be discontinued in later One Identity Manager versions and should no longer be utilized:

- Oracle Database as database system for the One Identity Manager database (no longer available as of release One Identity Manager version 8.1)

NOTE: Oracle Data Migrator is provided to help you convert the database system. You can obtain the tool and a quick guide from the support portal. To access the Support Portal, go to <https://support.oneidentity.com/identity-manager/>.

Resolved issues

The following is a list of solved problems in this version.


Table 5: General

Resolved issue	Issue ID
Service Broker queues are not removed after a database has been restored under another name or on another server.	29641
Incorrect value conversion in the parameter BaseData of the process function	29734

Resolved issue	Issue ID
Delay.	
Error migrating a version 7.0.2 One Identity Manager database to a newer version.	29754
Error in the Database Compiler if a transport with a custom table is imported first and after that a transport that uses this custom table as TypedWrapper.	29757
The information specifying which base object a process was attached to, is not added to the process history in the History Database (table HistoryChain).	29759
Windows does not work in Apache Lucene FIPS mode.	29768
In the system journal, you cannot identify the user who restarted a process step.	29772
Entries are not removed from the QBMSplittedLookup table.	29784
Error saving a Microsoft .NET Framework DateTime.MaxValue in the database.	29809
In the report about historical assignments, data is not fully shown if a referenced object was deleted at a later date.	29825
The Delete button is not shown in the result list of the Manager web application.	29868
Master data forms in the Manager disappear sporadically.	29890
The -U switch has no effect in the DBTransporterCmd.exe.	29913
A UID_DialogColumnUnionView cannot be assigned anymore.	29919
Not all objects are transported during transport of a custom table if a user interface has been created for it.	29963
Column name is not exported when a SingleDBObjectSnapshot is created.	29976
If individual One Identity Manager modules are updated their dependent modules are not included.	30003
If a process only contains process steps with the status FINISHED , the procedure QBM_FGIJobQueueTopJob does not terminate. This subsequently affects the procedure QBM_PJobQueueInitJob when the service is started.	30020
Performance issues updating the One Identity Manager database.	30059
Performance issues displaying filtered result lists in the Manager if a role-based authentication module is used.	30070
If templates are triggered by a process, subsequent Customizer methods for the affected columns are not executed.	30113
Error importing compliance rules with the Database Transporter because both	30120

Resolved issue	Issue ID
the working copy and original compliance rules are in the transport package.	
Error compiling wrapper classes because multiple BaseTree relation exist.	30178
The message type NEWJOB leads to problems sending messages through the Service Broker.	30184
If not enough memory is available in the TempDB, the DBQueue Processor task to reindex the tables is reset under SQL Server.	30195
The sort order is not set if a change label is assigned through an object's Properties dialog box.	30208
The Manager 's configuration data is always used when logging into a dynamic authentication module.	30241
An error can occur during execution of DBQueue tasks in connection with the task QBM_PDBQueueRep1GenProcID.	30272

Table 6: General - Web Designer and Web Portal

Resolved issue	Issue ID
Web Portal always opens in mobile view in Internet Explorer.	28947
Error occurs if two attestation cases reference the same base object.	29207
Web Portal does not react anymore when navigating though a request history with more than 1000 entries.	29425
Report parameter display names are not always displayed in the Web Portal.	29552
 NOTE: The solution to this problem only works for parameters of newly created report subscriptions.	
If Web Portal is running in Microsoft Edge, the selection of different recipient for a request does not always work.	29658
If a new report is added, the report parameters are shown with the wrong names.	29685
Error unsubscribing several requests if the Web Designer configuration parameter is set to VI_ITShop_ProLongateOrCancel_Without_ShoppingCartOrder-='False'.	29690
Problem sorting and filtering data in the Web Portal.	29696
Navigation with arrow keys does not work in the GridBank search.	29771
Invalid name properties from password policies are not pre-checked in the Password Reset Portal.	29804

Resolved issue	Issue ID
Error requesting with request properties, if the request property's condition (AccProductParameter.FKWhereClause) uses dollar notation.	29914
If request properties are stored with service categories and also with service items, both request property groups are displayed in the request.	29916
The GridBand search cannot be started more than once with the return key if the Web Portal is running in Internet Explorer.	29951
Error updating employee data in the Web Portal.	29953
Certain input in grid search boxes generates error messages but not in other text boxes.	29966
The connection to the application server is not reestablished after a timeout.	29977
The filters Starts with and Ends with do not work in a grid.	29992
Error assigning a mitigating control to a rule violation in Web Portal if the configuration parameter QER CalculateRiskIndex MitigatingControlsPerViolation is set.	29994
Checking compliance of assignment requests to business roles fails if the configuration parameter QER ComplianceCheck is not set.	30054
If an error message appears after entering a value in an input field, the content of the input field is not reset.	30064
The object filter in a grid returns the wrong result if filters are defined for more than one column.	30083
The index search in Web Portal on a custom database layer does not return a result if the name of the database layer does not match the name of the XObjectKey table.	30091
Not all policy settings are displayed if you click on Password requirements in the password reset portal.	30132
Custom object references are not resolved if they belong to a custom reference type for object dependent references, which share an interface with another reference type.	30150
Next has to be double clicked in each step of a delegation in Web Portal.	30216

Table 7: Target system connection

Resolved issue	Issue ID
Error provisioning group memberships if there are members with unmapped schema properties.	29691

Resolved issue	Issue ID
Synchronization is sporadically blocked when reloading BLOBs.	29708
The object filter does not work on distinct schema classes.	29789
Recognition of multi-column primary keys does not work correctly if the same name has been used for the primary key index in several tables.	29856
Data is lost if provisioning is carried out while synchronization is running.	29857
Property mapping rules with the option Force mapping against direction of synchronization are not fully included if provisioning executes several synchronization steps of workflow.	29922
The synchronization log shows changes to objects without any information about which property has been changed.	29926
If a database has encrypted connection data, the dialog box for entering this data is opened in the background when synchronization is started directly from the Synchronization Editor.	29941
If there are a lot of start up configurations in the Synchronization Editor, they cannot be opened.	30081
Performance issues calculating the effectiveness of permission assignments.	30041
Synchronization projects cannot be transported if there is no write access for the <code>DPRProjectionConfig.DisplayNameQualified</code> column.	30273
The native database connector cannot insert objects with text columns containing curly brackets.	29730
Columns of type <code>timestamp</code> and <code>decimal</code> are not loaded when the target system schema with native database connector for MySQL databases is being imported.	29931
Double schema properties are ignored loading the target system schema with the native database connector but the information is not comprehensively logged.	29937
Error synchronizing very large date values from Active Directory.	29802
Under certain conditions, the schema property <code>vrtProtectedFromAccidentalDeletion</code> is not recognized correctly for organizational units (OU).	29826
Active Directory locations are missing in target system synchronization.	29841
The Active Directory connector returns empty elements for empty multi-value property columns.	29853
The patch VPR#29299 cannot be applied to all Active Directory synchronization projects. The patch VPR#29299 has been corrected.	29876

Resolved issue	Issue ID
Error setting ADSAccount.UID_ADSTGroupPrimary, if UID_ADSDomain is not set yet.	29948
Inconsistent handling of ADSAccount.LogonHours in One Identity Manager and Active Directory.	29955
Error restoring an Active Directory user account if a mailbox marked for deletion still exists at the same time.	30210
The recalculation task for AADUserHasSubSku is not generated when a assignment of a system role to an employee is added or deleted.	29891
Groups with UID_AADOrganization = NULL are left behind when Azure Active Directory tenants and all their dependencies are deleted over the object layer.	30012
Error setting up a synchronization project for Microsoft Exchange 2010 if the user is working with Turkish settings.	29723
Error in the OnSaving script on tables EX0MailBox, EX0MailUser and EX0MailContact setting the manage level through account definitions.	30095
The connection to a cloud application with the SCIM connector cannot be established if the SCIM Service Provider TLS 1.0 is not supported.	29936
The HRerson schema type definition in the Oracle E-Business Suite connector schema excludes the employee data added today.	29706
The column racfInstallationData for RACF groups cannot be cleared if it has already been set once.	29893
Error in the OnSaving script executing on table NDOUser when calculating the FullName column.	29952
Too many properties are loaded and buffered on loading Notes document properties.	30056
Sometimes it takes too long to disconnect after provisioning of a Notes user account if there are downstream actions.	30159
Missing or incorrect representation of RACF object values in the target system browser.	29971
The value of parameters OutputParameter of the process component MFRCComponent are never taken into account.	30042
The options Home address and Default address can be disabled although only an email address is assigned to the SAP user account.	29700
The foreign key columns SAPComPhone.UID_SAPUser and SAPCompany.UID_SAPMandat can contain the value NULL .	29743
HelperSAPUserInSAPRole is not corrected when memberships are deleted in SAPUserInSAPRole.	29747

Resolved issue	Issue ID
No IT operating data could be defined for SAP licenses.	29872
Error changing SAP user account passwords if the temporary password has a leading ! or ?	30009
Schema data for SAP schema extensions cannot be calculated under certain circumstances.	30078
Correction to project template for SAP personnel planning data. A patch with the patch ID VPR# 30115 is available for synchronization projects.	30115
Missing dynamic reference for the table SAPUser to tables TSBITData.ObjectKeyValue and TSBITDataMapping.ObjectKeyDefaultValue.	30155
The process step Check User already exists in the process SAP_SAPComSMTP_Insert/Update is not generated.	30201
Error on the form Edit IT operating data if TSBITData.ObjectKeyValue is set.	29979
Performance problems in DBQueue Processor when calculating tasks for PersonHasObject, if the system authorization hierarchy is deeply nested.	30046


Table 8: Identity and Access Governance

Resolved issue	Issue ID
Approvers in approval processes for IT Shop and attestation are not determined correctly. Approvers are not found even though they are available.	29330
Inconsistent handling of existing requests when employees and all their dependencies are deleted over the object layer.	29473
The query for HelperSAPUserInSAPRole is missing in the queries to determine approvers for the approval procedure EO .	29773
If an email is sent with a report attached, the translation of the report's name is not shown.	29894
Insufficient error messages in the script VI_MassDelegate.	29895
The contents of mail notifications are not translated if the base object is passed as a patch.	30019
System users with permissions groups vi_4_PERSONADMIN and VI_4_ALLMANAGER cannot add any employees.	30052

Resolved issue

Issue ID

i **NOTE:** By solving this issue, you may now find that objects are not inserted properly because columns permissions are missing on compulsory fields. Table permissions of the respective permissions group are taken into account during calculation of each column permission. Table permissions of different permissions groups are no longer transferred to all columns. This means, a column cannot be edited when an object is inserted if the table permission **Insertable** is not defined for the permissions group that grants the column permission **Editable**.

In the process of deleting obsolete attestation cases, the newest are deleted instead of the oldest.	30068
Attestations for the approval methods DM , PM , LM and MO are not determined correctly. No recalculation tasks are queued for AttestationHelper in the insert/delete trigger for HelperHeadOrg.	30119
Not all tasks are generated for the Job queue if approved automatically through approval procedures CD or CR .	30148
The  button is enabled in the Manager although no new objects of this type can be added.	30196
Error assigning an object to a password policy if the selected object's table contains a column labeled with IsBlobExternal=1.	30199

See also:

- [Schema changes](#) on page 20
- [Patches for synchronization projects](#) on page 22

Known issues

The following is a list of issues known to exist at the time of release of One Identity Manager.

Table 9: General known issues

Known Issue	Issue ID
If you connect to a database with the Database Compiler, the task QBM-K-CommonWaitForCompiler is immediately queued in the DBQueue. If Database Compiler ends without compiling the database, the task remains in the DBQueue.	23049, 24713

Known Issue	Issue ID
Error in the Report Editor if columns are used that are defined in the Report Editor as keywords.	23521
Workaround: Create the data query as SQL query and use aliases for the affected columns.	
Errors may occur if the Web Installer is started in several instances at the same time.	24198
Headers in reports saved as CSV do not contain corresponding names.	24657
Number of parameter pairs ParamName/ParamValue in the MailComponent's process task SendRichMail is not always sufficient.	25164
10 parameter pairs are available by default. If this number is not sufficient, you can add additional custom process parameters, which Process Editor can then use as parameters. This function is available as from One Identity Manager version 7.0.	
In certain circumstances, objects can be in an inconsistent state after simulation in the Manager. If an object is changed or saved during simulation and the simulation is finished, the object remains in the final simulated state. It may not be possible to save other modifications to this object instance.	12753
Solution: Reload the object after completing simulation.	
Invalid module combinations can be selected in the Configuration Wizard. This causes errors at the start of the schema installation.	25315
Cause: The Configuration Wizard was started directly.	
Solution: Always use autorun.exe for installing One Identity Manager components. This ensures that you do not select any invalid modules.	
Schema extensions on a database view of type View (for example Department) with a foreign key relation to a base table column (for example BaseTree) or a database view of type View are not permitted.	27203
Error connecting through an application server if the certificate's private key, used by the VI.DB to try and encrypt its session data, cannot be exported and the private key is therefore not available to the VI.DB.	27793
Solution: Mark the private key as exportable if exporting or importing the certificate.	
If a One Identity Manager database is operating in a cluster, the database is restored from a backup after a cluster failover. A new database ID is created in the process. This step cannot be missed out anymore otherwise the database cannot be compiled.	28373
Error resolving events on a view that does not have a UID column as a primary key.	29535

Known Issue**Issue ID**

Primary keys for objects in the One Identity Manager always consist of one, or in the case of M:N tables, two UID columns. This is a rudimentary basic functionality in the system.

The definition of a view that uses the XObjectKey as primary key, is not permitted and would result in more errors in a lot of other places.

The consistency check **Table of type U or R with wrong PK definition** is provided for testing the schema.

Table 10: Web Designer and Web Portal**Known Issue****Issue ID**

The error message This access control list is not in canonical form and therefore cannot be modified sometimes occurs when installing the Web Portal with the Web Installer. The error occurs frequently after a Windows 10 Anniversary Update.

26739

Solution: Change the permissions for the users on parent folder of the web application (by default C:\inetpub\wwwroot) and apply the changes. Then revoke the changes again.

An empty page is displayed in the Internet Explorer if the Operations Support Web Portal is opened with the URL.

750376

The Operations Support Web Portal is supposed to be run on an intranet site and the setting **Display intranet sites in Compatibility View** is set on the web server.

Solution: Extend the section <system.webServer> in the Web Portal's configuration file (web.config). Enter an attribute or compatibility mode.

```
<system.webServer>
```

```
...
```

```
<httpProtocol>
```

```
  <customHeaders>
```

```
    ...
```

```
    <add name="X-UA-Compatible" value="IE=11" />
```

```
    ...
```

```
  </customHeaders>
```

```
</httpProtocol>
```

```
</system.webServer>
```

Table 11: Target system connection

Known Issue	Issue ID
Memory leaks occur with Windows PowerShell connections, which use Import-PSSession internally.	23795
After synchronizing an SAP R/3 environment, assignments of single role to SAP user accounts are labeled as pending.	
This problem can occur if:	
<ul style="list-style-type: none"> • SAP role assignments to user accounts were loaded in the One Identity Manager database before installing One Identity Manager 7.0.1 • Single role assignments, which are included in collective roles, were mapped as direct assignments (Error ID 3218196) 	
By resolving this problem in One Identity Manager 7.0.1, incorrect assignments are labeled as pending after synchronizing again using the appropriate synchronization configuration.	
Solution: Delete pending assignments in One Identity Manager target system synchronization.	
By default, the building block HR_ENTRY_DATE of an SAP HCM system cannot be called remotely.	25401
Solution: Make it possible to access the building block HR_ENTRY_DATE remotely in your SAP HCM system. Create a mapping for the schema property EntryDate in the Synchronization Editor.	
Any existing secondary SIP addresses are converted into primary email addresses when Microsoft Exchange mailboxes are added, providing that no primary SIP addresses were stored up to now.	27042
The SAP connector does not provide a schema property to establish whether a user has a productive password in SAP R/3.	27359
If this information is meant to be in One Identity Manager, extend the schema and the synchronization configuration.	
<ul style="list-style-type: none"> • Add a custom column to the table SAPUser. • Extend the SAP schema in the synchronization project by a new schema type that supplies the required information. • Modify the synchronization configuration as required. 	
No passwords can be provisioned when the bind method Fast Bind is in use in Active Directory. The SetPassword method is therefore not available.	27427
The process step AdhocProjection fails with the message:	
[System.Runtime.InteropServices.COMException] Unknown name. (Exception from HRESULT: 0x80020006 (DISP_E_UNKONNNNAME)).	

Known Issue	Issue ID
<p>Synchronization projects for SAP R/3 that were imported by a transport into a One Identity Manager database, cannot be opened. The problem only occurs if an SAP R/3 synchronization project was not added in the target database before importing the transport package.</p> <p>Solution: Create and save at least one SAP R/3 synchronization project before you import SAP R/3 synchronization projects into this database with the Database Transporter.</p>	27687
<p>To use automatic employee assignment for central user administration (CUA) user accounts, assign the account definition to the CUA central system. Account definitions cannot be used to assign user accounts to child systems.</p>	28137
<p>Error in IBM Notes connector (Error getting revision of schema type ((Server))).</p> <p>Probable cause: The IBM Notes environment was rebuilt or numerous entries have been made in the Domino Directory.</p> <p>Solution: Update the Domino Directory indexes manually in the IBM Notes environment.</p>	27126
<p>Error provisioning licenses in a central user administration's child system.</p> <p>Message: No company is assigned.</p> <p>Cause: No company name could be found for the user account.</p> <p>Solution: Ensure that either:</p> <ul style="list-style-type: none"> • A company, which exists in the central system, is assigned to user account. - OR - • A company is assigned to the central system. 	29253
<p>Error loading single objects with Windows PowerShell if the parameter Identity is used. The error can occur during provisioning of changes made to objects in Microsoft Exchange or Exchange Online, for example, and causes follow-on errors.</p> <p>Windows PowerShell connector's message: Command yielded <count> objects but only one was expected.</p> <p>Cause: Multiple objects with the same name exist.</p>	29152
<p>Certain data is not loaded during synchronization of SAP R/3 personnel planning data that will not come into effect until later.</p> <p>Cause: The function BAPI_EMPLOYEE_GETDATA is always executed with the current date. therefore, changes are taken into account on the exact day.</p> <p>Solution: To synchronize personnel data in advance that will not come into</p>	29556

Known Issue	Issue ID
effect later, use a schema extension and load the data from the table PA0001 directly.	
Error synchronizing an OpenDJ system if a password begins with an open curly bracket.	29620
Cause: The LDAP server interprets a generated password of the form {<abc>}<def> as a hash value. However, the LDAP server does not allow hashed passwords to be passed.	
Solution: The LDAP server can be configured so that a hashed password of the form {<algorithm>}hash can be passed.	
<ul style="list-style-type: none"> • On the LDAP server: Allow already hashed passwords to be passed. • In the synchronization project: Only pass hashed passwords. Use the script properties for mapping schema properties that contain passwords. Create the password's hash value in the script. 	
If an employee's central password is used as the password for their user accounts, the password is not transferred to the password history of each individual user account. Therefore, reuse of the password cannot be prevented if the password is changed manually later.	29605
Cause: An employee's central password is an encrypted value that can only be entered in the password history when it is assigned to an employee.	
Recommendation:	
<ul style="list-style-type: none"> • Only use the employee's central password for the user accounts. Changes to the password are saved in the employee's password history. - OR - • Only make changes to the passwords directly in the user accounts. This saves the password modifications in the user account's password history. 	
Errors publishing group memberships if there are memberships that are not mapped.	29691
Solution: Will be available in One Identity Manager version 8.0.2.	
The options Home address and Default address can be disabled, although only an email address is assigned to the SAP user account.	29700
Solution: Will be available in One Identity Manager version 8.0.2.	
The Oracle E-Business Suite connector converts data with an unknown data type into strings and tries to write this value to the matching schema property in the One Identity Manager schema.	30098
If there are a large number of LDAP user accounts and LDAP groups in the	30172

Known Issue	Issue ID
<p>database, provisioning might take a very long time. A message appears in the StdIO processor log(StdioProcessor.log) during the LDAP user account and LDAP groups update.</p> <pre>DEBUG (SystemObjectData <static>) : Creating SystemObjectData based on entity (%DisplayName% (%cn%)) columns (UID_LDAPAccount, UID_LDAPContainer, UID_LDPDomain, XObjectKey).</pre> <pre>TRACE (SchemaElement static) : %DisplayName% (%cn%)@LDAPAccount[.GetValue (vrtScopeParentReference) returns ...</pre> <pre>TRACE (SchemaElement static) : %DisplayName% (%cn%)@LDAPAccount[.GetValue (UID_LDAPContainer) returns ...</pre> <p>Cause: No reference scope is defined so that the default scope is used for resolving references. This causes too much data to be loaded from the database.</p> <p>Solution: Define an empty reference scope. This means that scopes are not calculated when references are resolved, which noticeably improves performance with larger amounts of data.</p>	

Table 12: ServiceNow Integration

Known Issue	Issue ID
One Identity Manager does not have a log out URL to clear the SSO session.	31947
One Identity Manager Service Catalog integration with ServiceNow does not work with other browsers except Chrome with the Ignore X-Frame Options plug-in.	31875

Table 13: Third party contributions

Known Issue	Issue ID
An error can occur during synchronization of SharePoint websites under SharePoint 2010. The method SPWeb.FirstUniqueRoleDefinitionWeb() triggers an ArgumentException. For more information, see https://support.microsoft.com/en-us/kb/2863929 .	24626
Installing the One Identity Manager Service with the Server Installer on a Windows Server does not work if the setting File and Printer sharing is not set on the server. This option is not set on domain controllers on the grounds of security.	24784
An error, TNS-12516, TNS-12519 or ORA-12520, sporadically occurs when connecting with an Oracle Database. Reconnecting normally solves this.	27830

Known Issue	Issue ID
Possible cause: The number of processes started has reached the limit configured on the server.	
Valid CSS code causes an error under Mono if duplicate keys are used. For more information, see https://github.com/mono/mono/issues/7455 .	29607
Cannot navigate with mouse or arrow keys in a synchronization log with multiple pages. Cause: the StimulReport.Net-Komponente from Stimulsoft handles the report as one page.	29051

Schema changes

The following provides an overview of schema changes from One Identity Manager version 8.0.1 up to version 8.0.2.

Configuration Module

- Data type of column `QBMVPwdPolicyColumns.ReferenceWhereClause` changed and extended to `nvarchar(max)` or `clob` respectively.
- Column `QBMVPwdPolicyColumns.ScopeReferenceColumns` extended to `nvarchar(max)` or `varchar2(2024)` respectively.

Target System Synchronization Module

- New column `DPRProjectionConfig.DisplayNameQualified`.

Cloud Systems Management Module

- Column `CSMRoot.Ident_CSMRoot` extended to `nvarchar(256)` or `varchar2(256)` respectively.

Universal Cloud Interface Module

- Column `UCIRoot.Ident_UCIRoot` extended to `nvarchar(256)` or `varchar2(256)` respectively.

Changes to system connectors

The following provides an overview of the modified synchronization templates and an overview of all patches supplied by One Identity Manager version 8.0.1 to version 8.0.2. Apply the patches to existing synchronization projects. For more information, see [Applying patches to synchronization projects](#) on page 45.

Modified synchronization templates

The following provides you with an overview of modified synchronization templates. Patches are made available for updating synchronization templates in existing synchronization projects. For more information, see [Patches for synchronization projects](#) on page 22.

Table 14: Modification overview

Module	Synchronization template	Type of modification
Azure Active Directory Module	Azure Active Directory synchronization	none
Active Directory Module	Active Directory synchronization	changed
Active Roles Module	Synchronize Active Directory Domain via Active Roles	none
Cloud Systems Management Module	Universal Cloud Interface synchronization	none
Oracle E-Business Suite Module	Oracle E-Business Suite synchronization	changed
	Oracle E-Business Suite CRM data	changed
	Oracle E-Business Suite HR data	changed
	Oracle E-Business Suite OIM data	changed
Microsoft Exchange Module	Microsoft Exchange 2010 synchronization (deprecated)	none
	Microsoft Exchange 2010 synchronization (deprecated)	none
	Microsoft Exchange 2010 synchronization (v2)	changed
	Microsoft Exchange 2013_2016	changed

Module	Synchronization template	Type of modification
	synchronization (v2)	
G Suite Module	G Suite synchronization	none
LDAP Module	AD LDS Synchronization	none
	OpenDJ Synchronization	none
IBM Notes Module	Lotus Domino synchronization	none
Exchange Online Module	Exchange Online synchronization (deprecated)	changed
	Exchange Online synchronization (v2)	changed
SAP R/3 User Management module Module	SAP R/3 Synchronization (Base Administration)	none
	SAP R/3 (CUA subsystem)	none
SAP R/3 Analysis Authorizations Add-on Module	SAP R/3 BW	none
SAP R/3 Compliance Add-on Module	SAP R/3 authorization objects	none
SAP R/3 Structural Profiles Add-on Module	SAP R/3 HCM authentication objects	none
	SAP R/3 HCM employee objects	changed
SharePoint Module	SharePoint synchronization	none
SharePoint Online Module	SharePoint Online synchronization	none
Universal Cloud Interface Module	SCIM Connect via One Identity Connect For Cloud	changed
	SCIM synchronization	changed
Unix Based Target Systems Module	Unix Account Management	none
	AIX Account Management	none

Patches for synchronization projects

The following is a list of all patches provided in One Identity Manager 8.0.2 for synchronization projects. Every patch contains a script, which tests whether the patch can be applied to the synchronization project. This depends on the specific configuration of the synchronization.

For more information, see [Applying patches to synchronization projects](#) on page 45.

Table 15: Patches for Active Directory

Patch ID	Patch	Description	Issue ID
VPR#29837	Active Directory site maps corrected.	Property mapping rule for object classes in the site mapping have been corrected.	29837

Table 16: Patches for Oracle E-Business Suite

Patch ID	Patch	Description	Issue ID
VPR#28834	Correction of processing methods in the synchronization step for direct permission assignments	Changes the processing methods in the synchronization step userInRESPDirect from MarkAsOutstanding to Delete.	28834
VPR#29711	Property mapping rule corrections	Adjusts the mapping direction if the schema property in the target system is read-only. This patch is applied during the One Identity Manager automatic update.	29711
VPR#29740	Adds missing processing methods in the synchronization step HR PersonInLocation	Adds processing methods Insert and MarkAsOutstanding in the synchronization step HR PersonInLocation. This patch is applied during the One Identity Manager automatic update.	29740
VPR#30096	Corrects different properties in synchronization projects for employee and organizational data.	Set the option Data import and correct specific employee mapping properties in synchronization projects that have been created with the project templates for HR, CRM or OIM data.	30096

Table 17: Patches for Microsoft Exchange

Patch ID	Patch	Description	Issue ID
VPR#29902	Remove duplicate mapping rules	Removes duplicate property mapping rules.	29902
VPR#29903	Enables synchronization buffer for schema property	Enables synchronization buffer for schema property vrtParentAddressList in the mapping LocalAddressList.	29903

Patch ID	Patch	Description	Issue ID
	vrtParentAddressList		
VPR#29917	Changes to the property mapping rule for the schema property ExchangeGuid in the Mailbox mapping.	Enables the option Force mapping against direction of synchronization on the property mapping rule for the schema property ExchangeGUID in the mapping Mailbox. The patch can be applied to synchronization projects for Microsoft Exchange 2013 and 2016.	29917
VPR#30018	Connection parameters extended by an additional variable	Extends the target system connection parameters by an additional variable, PreferredServer.	30018

Table 18: Patches for Exchange Online

Patch ID	Patch	Description	Issue ID
VPR#29921	Remove duplicate mapping rules	Removes duplicate property mapping rules.	29921

Table 19: Patches for SAP R/3

Patch ID	Patch	Description	Issue ID
VPR#29733	Apply revision filtering to user account communication data.	Applies revision filtering to the synchronization steps userComFax, userComPhone and userComSMTP. This patch is applied during the One Identity Manager automatic update.	29733
VPR#29877	Add revision properties for different schema classes	Applies revision filtering in the synchronization steps profileInProfile, profileInRole, roleInRole, userInGrp, userHasParameter and userInProfile. This patch is applied during the One Identity Manager automatic update.	29877
VPR#30160	Apply variable for SNC security settings to connection parameters	Applies the variable for SNC security settings to connection parameters. Depends on patch VPR#27420 that was supplied with version 7.1.2.	30160

Table 20: Patches for SAP R/3 personnel planning data and structural profiles

Patch ID	Patch	Description	Issue ID
VPR#30115	Corrected various properties in synchronization projects for personnel planning data.	Sets the option Data import in the synchronization steps Employee and OrgEH and corrects specific mapping properties in synchronization projects that were created with the project template for personnel planning.	30115

Table 21: Patches for the SCIM interface (in Universal Cloud Interface Module)

Patch ID	Patch	Description	Issue ID
VPR#29844	Use of variables in the connection parameters	Uses the variables created in the synchronization project in the target system connection parameters.	29844
VPR#30002	Correction of property mapping rules in the User mapping.	Corrected property mapping rules in User mapping in synchronization projects for One Identity Connect For Cloud applications.	30002

Patches in One Identity Manager Version 8.0.1

Table 22: Patches for Active Directory

Patch ID	Patch	Description	Issue ID
VPR#27583	Support for domain functional levels 2016	Mapping of schema class domainDNS extended by the schema property msDF-ExpirePasswordsOnSmartCardOnly Accounts. Therefore, domain functional levels 2016 are supported.	27583
VPR#28863	Correction of patched synchronization projects	Corrects small differences between new synchronization projects and synchronization projects that have had patches applied to them. This patch is applied during the One Identity Manager automatic update.	28863
VPR#29299	Corrects Active Directory site handling	Corrects import of Active Directory sites and child machines.	29299

Patch ID	Patch	Description	Issue ID
VPR#29318	Set and remove maxPwdAge in domains	Corrects operation for resetting if maxPwdAge is set to never .	29318
VPR#29360	Avoid using employee mapping on insert	Marked employee mapping with Only suitable for updates .	29360
VPR#29410	Mapping of schema property ADSGroup.AllowWriteMembers	Inserts a property mapping rule for the schema property AllowWriteMembers in the group map. This patch is applied during the One Identity Manager automatic update.	29410
VPR#29603_ADS	Property IsSecretValue corrected for user account passwords.	Marks passwords as sensitive data in the target system. This patch is applied during the One Identity Manager automatic update.	29603

Table 23: Patches for Active Roles

Patch ID	Patch	Description	Issue ID
VPR#29318	Set and remove maxPwdAge in domains	Corrects operation for resetting if maxPwdAge is set to never .	29318

Table 24: Patches for Oracle E-Business Suite

Patch ID	Patch	Description	Issue ID
VPR#28876	Connection parameters extended	The connection parameters have been extended so that you can enter the user package for user account operations or a wrapper package.	28876
VPR#29528	Changes the definition of mandatory properties.	Updates the target system schema and corrects the definition of mandatory properties for adding new user accounts. This patch is applied during the One Identity Manager automatic update.	29528
VPR#29543	Updates the target system schema.	Updates the target system schema for synchronizing security attribute assignments with different values to user accounts. This patch is applied during the One Identity Manager automatic update.	29543

Patch ID	Patch	Description	Issue ID
VPR#29565	Supplies variables for connection parameters	Connection parameters are supplied as variables. This patch is applied during the One Identity Manager automatic update.	29565
VPR#29603_EBS	Property IsSecretValue corrected for user account passwords.	Marks passwords as sensitive data in the target system. This patch is applied during the One Identity Manager automatic update.	29603

Table 25: Patches for IBM Notes

Patch ID	Patch	Description	Issue ID
VPR#28917	Changes the revision counter	Changes the revision counter. A new virtual schema property is used. This patch is applied during the One Identity Manager automatic update.	28917
VPR#29441	Property mapping rule corrections	Minor corrections of property mapping rules in Domain and Person mappings	29441
VPR#29603_NDO	Property IsSecretValue corrected for user account passwords.	Marks passwords as sensitive data in the target system. This patch is applied during the One Identity Manager automatic update.	29603

Table 26: Patches for SAP R/3

Patch ID	Patch	Description	Issue ID
VPR#29603_SAP	Property IsSecretValue corrected for user account passwords.	Marks passwords as sensitive data in the target system. This patch is applied during the One Identity Manager automatic update.	29603
VPR#29614	Corrected schema property vrtInactivePwd	Corrected the definition of the schema property vrtInactivePwd.	29614

Patch ID	Patch	Description	Issue ID
		This patch is applied during the One Identity Manager automatic update.	

Table 27: Patches for SAP R/3 personnel planning data and structural profiles

Patch ID	Patch	Description	Issue ID
VPR#28927	Changed mapping for the employees' central SAP user account.	Corrects how to determine employees' SAP user account (USERID) and e-mail address (EMAILADDRESS)	28927

Table 28: Patches for SAP R/3 authorization objects

Patch ID	Patch	Description	Issue ID
VPR#29547	Updates the target system schema.	Updates the target system schema for synchronizing SAP transactions irrespective of how the translation is maintained. This patch is applied during the One Identity Manager automatic update.	29547

Table 29: Patches for SharePoint Online

Patch ID	Patch	Description	Issue ID
VPR#29240A	Corrects errors in the reference resolution, part 1	Deletes all property mapping rules and object matching rules that web.ID uses for resolving references or matching, respectively. Prerequisite for patch VPR#29240B. This patch is applied during the One Identity Manager automatic update.	29240
VPR#29240B	Corrects error resolving references, part 2	Creates new property mapping rules that use Web.Url for resolving references. Depends on patch VPR#29240A. This patch is applied during the One Identity Manager automatic update.	29240

Table 30: Patches for the SCIM interface (in Universal Cloud Interface Module)

Patch ID	Patch	Description	Issue ID
VPR#29454	Change group membership types	Inserts a new property mapping rule for the group membership's type.	29454
VPR#29603_ SCIM	Property IsSecretValue corrected for user account passwords.	Marks passwords as sensitive data in the target system.	29603

Patches in One Identity Manager version 8.0**Table 31: General patches**

Patch ID	Patch	Description	Issue ID
VPR#27304	Method "UnmarkAsOut-standing"	Sets the method UnmarkAsOut-standing in provisioning workflows.	27304
	Milestone 8.0	Milestone for the context DPR .	
	Milestone 8.0	Milestone for the context One Identity Manager .	

Table 32: Patches for Azure Active Directory

Patch ID	Patch	Description	Issue ID
	Milestone 8.0	Milestone for the context Azure Active Directory .	

Table 33: Patches for Active Directory

Patch ID	Patch	Description	Issue ID
VPR#27457	New schema property for domains	Extends the One Identity Manager schema and the mapping for ADSDomain by the schema property ObjectSID.	27457
VPR#27769_ ADS	Converts connection parameters	Converts connection parameter names and values. This patch is applied during the One Identity Manager automatic update.	27769
VPR#28560_	Converts	German display names of property mapping rules	28560

Patch ID	Patch	Description	Issue ID
ADS	German display names	and virtual schema properties are converted to English.	
	Milestone 8.0	Milestone for the context Active Directory .	
VPR#27997	Changes group membership mapping	Extended the mapping group by additional virtual schema properties. This allows group memberships to be synchronized without having to find object SIDs through the global catalog. This is a patch for a new function. This patch can be applied optionally.	27997

Table 34: Patches for Active Roles

Patch ID	Patch	Description	Issue ID
	Milestone 8.0	Milestone for the context Active Roles .	

Table 35: Patches for Microsoft Exchange

Patch ID	Patch	Description	Issue ID
VPR#27447	Use ObjectVersion to determine Microsoft Exchange version	Changing the Organization mapping to find the Microsoft Exchange version from the schema property ObjectVersion.	27447
VPR#28904	Adds RemoteMailbox to the excluded list	This patch modifies the member filter's excluded lists. Apply this patch if an Exchange hybrid environment exists but it not synchronized with One Identity Manager yet.	28904
	Milestone 8.0	Milestone for the context Microsoft Exchange .	

Table 36: Patches for LDAP

Patch ID	Patch	Description	Issue ID
	Milestone 8.0	Milestone for the context LDAP .	

Table 37: Patches for IBM Notes

Patch ID	Patch	Description	Issue ID
VPR#27769_ NDO	Converts connection parameters	Converts connection parameter names and values. This patch is applied during the One Identity Manager automatic update.	27769
VPR#28560_ NDO	Converts German display names	German display names of property mapping rules and virtual schema properties are converted to English.	28560
	Milestone 8.0	Milestone for the context IBM Notes .	

Table 38: Patches for SAP R/3

Patch ID	Patch	Description	Issue ID
VPR#27769_ SAP	Converts connection parameters	Converts connection parameter names and values. This patch is applied during the One Identity Manager automatic update.	27769
VPR#27289	Create new rules on SAP licence	Extended mapping Licencetype to property mapping rule for the schema property Countries and SonderVersion.	27289
VPR#28560_ SAP	Converts German display names	German display names of property mapping rules and virtual schema properties are converted to English.	28560
	Milestone 8.0	Milestone for the context SAP R/3 .	

Table 39: Patches for SAP R/3 personnel planning data and structural profiles

Patch ID	Patch	Description	Issue ID
VPR#28560_ SAP	Converts German display names	German display names of property mapping rules and virtual schema properties are converted to English.	28560
	Milestone 8.0	Milestone for the context SAP R/3 structural profile add-on .	

Table 40: Patches for SAP R/3 BI analysis authorizations

Patch ID	Patch	Description	Issue ID
VPR#28560_SAP	Converts German display names	German display names of property mapping rules and virtual schema properties are converted to English.	28560
	Milestone 8.0	Milestone for the context SAP R/3 analysis authorizations add-on .	

Table 41: Patches for SAP R/3 authorization objects

Patch ID	Patch	Description	Issue ID
VPR#27539	Remove SAPRCRange mapping and extensions	Removes SAPRCRange from the schemas, mapping and workflows.	27539
VPR#27769_SAP	Converts connection parameters	Converts connection parameter names and values. This patch is applied during the One Identity Manager automatic update.	27769
VPR#28560_SAP	Converts German display names	German display names of property mapping rules and virtual schema properties are converted to English.	28560
	Milestone 8.0	Milestone for the context SAP R/3 .	

Table 42: Patches for SharePoint

Patch ID	Patch	Description	Issue ID
	Milestone 8.0	Milestone for the context SharePoint .	

Table 43: Patches for the SCIM interface (in Universal Cloud Interface Module)

Patch ID	Patch	Description	Issue ID
VPR#27769_SCIM	Converts connection parameters	Converts connection parameter names and values. This patch is applied during the One Identity Manager automatic update.	27769
VPR#27860	Conversion of profile mapping	Changes the property mapping rules for the schema properties id, canonical name and distinguished name to the new schema properties added	27860

Patch ID	Patch	Description	Issue ID
		for them in the One Identity Manager schema. This patch can only be applied in synchronization projects which contain the Profiles map. This patch is applied during the One Identity Manager automatic update.	
VPR#28560_SCIM	Converts German display names	German display names of property mapping rules and virtual schema properties are converted to English.	28560
	Milestone 8.0	Milestone for the context SCIM .	

Table 44: Patches for the Universal Cloud Interface interface (in Cloud Systems Management Module)

Patch ID	Patch	Description	Issue ID
VPR#27371	Pending change provisioning optimization	Provides a new variable and alters the scope.	27371
	Milestone 8.0	Milestone for the context Universal Cloud Interface .	

Table 45: Patches for Unix

Patch ID	Patch	Description	Issue ID
	Milestone 8.0	Milestone for the context Unix .	

Table 46: Patches for the One Identity Manager connector

Patch ID	Patch	Description	Issue ID
	Milestone 8.0	Milestone for the context Database .	

Table 47: Patches for the CSV connector

Patch ID	Patch	Description	Issue ID
	Milestone 8.0	Milestone for the context CSV .	

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.

Minimum requirements for the database server

One Identity Manager supports the following database systems:

- SQL Server
- Oracle Database

Processor	8 physical cores 2.5 GHz+
	i NOTE: 16 physical cores are recommended on the grounds of performance.
Memory	16 GB+ RAM
Hard drive storage	100 GB
Operating system	Windows operating systems Following versions are supported: <ul style="list-style-type: none">• Windows Server 2008 (non-Itanium based 64-bit) Service Pack 2 or later• Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later• Windows Server 2012• Windows Server 2012 R2• Windows Server 2016 UNIX and Linux operating systems <ul style="list-style-type: none">• Note the minimum requirements of operating system vendors for Oracle databases and SQL Server databases.
Related Applications	SQL Server <ul style="list-style-type: none">• SQL Server 2016 Standard Edition, Service Pack 1 or later• SQL Server 2017 Standard Edition

- Compatibility level for databases: SQL Server 2016 (130)
- Default collation: case insensitive, SQL_Latin1_General_CP1_CI_AS (recommended)

i **NOTE:** The SQL Server Enterprise Edition is recommended on performance grounds.

Oracle Database

- Oracle Database 12c Standard Edition or Enterprise Edition Version 12.1.0.2 and later

The patch level differs depending on the system platform.

i **NOTE:** It strongly recommended you apply the patches for Oracle bugs 18097476 (Doc ID 1683819.1) and 19497286 (Doc ID 19497286.8)

- Character set unicode (AL32UTF8) with the option **Oracle Text**; Parameter NLS_LENGTH_SEMANTICS with value **CHAR**

Minimum requirements for the service server


Processor	8 physical cores 2.5 GHz+
Memory	16 GB RAM
Hard drive storage	40 GB
Operating system	<p>Windows operating systems</p> <p>Following versions are supported:</p> <ul style="list-style-type: none"> • Windows Server 2008 (non-Itanium based 64-bit) Service Pack 2 or later • Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later • Windows Server 2012 • Windows Server 2012 R2 • Windows Server 2016 <p>Linux operating systems</p> <ul style="list-style-type: none"> • Linux operating system (64 bit), supported by the Mono project or Docker images provided by the Mono project.

Additional software	Windows operating systems
	<ul style="list-style-type: none"> Microsoft .NET Framework Version 4.5.2 or later i NOTE: Microsoft .NET Framework version 4.6.0 is not supported. i NOTE: Take the target system manufacturer's recommendations for connecting the target system into account. Windows Installer
	Linux operating systems
	<ul style="list-style-type: none"> Mono 4.6 or later

Minimum requirements for clients

Processor	4 physical cores 2.5 GHz+
Memory	4 GB+ RAM
Hard drive storage	1 GB
Operating system	Windows operating systems <ul style="list-style-type: none"> Windows Vista with the current service pack Windows 7 (32-bit or non-Itanium 64-bit) with the current service pack Windows 8 (32-bit or 64-bit) with the current service pack Windows 8.1 (32-bit or 64-bit) with the current service pack Windows 10 (32-bit or 64-bit) with version 1511 or later
Additional software	<ul style="list-style-type: none"> Microsoft .NET Framework Version 4.5.2 or later i NOTE: Microsoft .NET Framework version 4.6.0 is not supported. Windows Installer
Supported browsers	<ul style="list-style-type: none"> Internet Explorer 11 or later Firefox (Release Channel) Chrome (Release Channel) Microsoft Edge (Release Channel)

Minimum Requirements for the Web Server


Processor	4 physical cores 1.65 GHz+
Memory	4 GB RAM
Hard drive storage	40 GB
Operating system	<p>Windows operating systems</p> <ul style="list-style-type: none">• Windows Server 2008 (non-Itanium based 64-bit) Service Pack 2 or later• Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later• Windows Server 2012• Windows Server 2012 R2• Windows Server 2016 <p>Linux operating systems</p> <ul style="list-style-type: none">• Linux operating system (64 bit), supported by the Mono project or Docker images provided by the Mono project. 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 4.5.2 or later <p> NOTE: Microsoft .NET Framework version 4.6.0 is not supported.</p> <ul style="list-style-type: none">• Windows Installer• Microsoft Internet Information Service 7, 7.5, 8, 8.5 or 10 with ASP.NET 4.5.2 and Role Services:<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

- Mono 4.6 or later
 - NTP - Client
 - Apache HTTP Server 2.0 or 2.2 with the following modules:
 - mod_mono
 - rewrite
 - ssl (optional)
-

Minimum requirements for the Application Server

Processor	8 physical cores 2.5 GHz+
Memory	8 GB RAM
Hard drive storage	40 GB
Operating system	<p>Windows operating systems</p> <ul style="list-style-type: none">• Windows Server 2008 (non-Itanium based 64-bit) Service Pack 2 or later• Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later• Windows Server 2012• Windows Server 2012 R2• Windows Server 2016 <p>Linux operating systems</p> <ul style="list-style-type: none">• Linux operating system (64 bit), supported by the Mono project or Docker images provided by the Mono project. 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 4.5.2 or later <p> NOTE: Microsoft .NET Framework version 4.6.0 is not supported.</p> <ul style="list-style-type: none">• Windows Installer

- Microsoft Internet Information Service 7, 7.5, 8, 8.5 or 10 with ASP.NET 4.5.2 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 4.6 or later
- NTP - Client
- Apache HTTP Server 2.0 or 2.2 with the following modules:
 - mod_mono
 - rewrite
 - ssl (optional)

Supported data systems

This section lists the data systems supported by One Identity Manager connectors in this version.

Table 48: Supported data systems

Connector	Supported data systems
Connectors for delimited text files	Any delimited text files.
Connector for relational databases	Any relational databases supporting ADO.NET. i NOTE: Additional installation of an ADO.NET data provider from a third party may be necessary. Ask Microsoft or the relational database producer.

Connector Supported data systems

Generic LDAP connector	<p>Any LDAP directory server conforming to version 3.</p> <p>i NOTE: Other schema and provisioning process adjustments can be made depending on the schema.</p>
Web service connector	<p>Any SOAP web service providing wsdl.</p> <p>i NOTE: You can use the web service wizard to generate the configuration to write data to the web service. You require additional scripts for reading and synchronizing data used by the web service connector's methods.</p>
Active Directory connector	<p>Active Directory, shipped with Windows Server 2003 , Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2 and Windows Server 2016.</p>
Microsoft Exchange connector	<ul style="list-style-type: none">• Microsoft Exchange 2010 Service Pack 3 or later• Microsoft Exchange 2013 Service Pack 1 or later• Microsoft Exchange 2016• Microsoft Exchange hybrid
SharePoint connector	<ul style="list-style-type: none">• SharePoint 2010• SharePoint 2013• SharePoint 2016
SAP R/3 connector	<ul style="list-style-type: none">• SAP Web Application Server 6.40• SAP NetWeaver Application Server 7.00, 7.01, 7.02, 7.10, 7.11, 7.20, 7.31, 7.40 SR 2, 7.41, 7.50• SAP S/4HANA On-Premise-Edition
Unix connector	<p>Supports the most common Unix and Linux derivatives. For more information, see the Authentication Services specifications.</p>
IBM Notes connector	<ul style="list-style-type: none">• Lotus Domino Server Version 8.0 up to Lotus Domino Server Version 9.0• IBM Notes Client 8.5.3 is supported as client version.
Native database connector	<ul style="list-style-type: none">• SQL Server• Oracle Database• SQLite• MySQL• DB2 (LUW)• CData ADO.NET Provider

Connector	Supported data systems
	<ul style="list-style-type: none"> • SAP HANA
Mainframe connector	<ul style="list-style-type: none"> • RACF • IBM i • CA Top Secret • CA ACF2
Windows PowerShell connector	<ul style="list-style-type: none"> • Windows PowerShell version 3 or later
Active Roles connector	<ul style="list-style-type: none"> • Active Roles 6.9 • Active Roles 7.0 • Active Roles 7.2
Azure Active Directory connector	<ul style="list-style-type: none"> • Microsoft Azure Active Directory
SCIM connector	Cloud applications, which recognize the System for Cross-domain Identity Management (SCIM) specification in version 2.0.
Exchange Online connector	<ul style="list-style-type: none"> • Microsoft Exchange Online
G Suite Connector	<ul style="list-style-type: none"> • G Suite
Oracle E-Business Suite connector	<ul style="list-style-type: none"> • Oracle E-Business Suite System versions 12.1 and 12.2
SharePoint Online connector	<ul style="list-style-type: none"> • Microsoft SharePoint Online

Product licensing

This product does not require licensing.

Upgrade and installation instructions

NOTE: To install One Identity Manager 8.0.2 for the first time, follow the installation instructions in the *One Identity Manager Installation Guide*. For more detailed instructions about updating, see the *One Identity Manager Installation Guide*.

IMPORTANT:

- Ensure that the administrative system user, who is going to compile the database, has a password before you update the One Identity Manager database to version 8.0.2. Otherwise the schema update cannot be completed successfully.

- Note the following for automatic software updating:

- Automatic software updating of version 7.0 to version 8.0.2 only works smoothly if the service pack 7.0.3 is installed. In addition, the files VI.Update.d11 and JobService.d11 must be installed.


Request the files VI.Update.d11 and JobService.d11 from the support portal.

To distribute the file, use the Software Loader.

Future version 7.0 service packs will already contain the changes to these files, and therefore, must not distributed separately.

- Automatic software updating of version 7.1 to version 8.0.2 only works smoothly if the service pack 7.1.3 is installed.

To update an existing One Identity Manager installation to version 8.0.2

1. Run the all consistency checks in the Designer in **Database** section.
 - a. Start the Consistency Editor in the Designer using the **Database | Check data consistency** menu item.
 - b. In the **Test options** dialog, click .
 - c. Under the **Database** node, enable all the tests and click **OK**.
 - d. Start the check by selecting the **Consistency check | Run** menu item.

All the database tests must be successful. Correct any errors. Some consistency checks offer repair options for correcting errors.
2. Update the administrative workstation, on which the One Identity Manager database schema update is started.
 - a. Execute the file Autorun.exe from the root directory of the One Identity Manager installation medium.
 - b. Change to the **Installation** tab. Select the edition you have installed and click **Install**.

This starts the installation wizard.

- c. Follow the installation instructions.

IMPORTANT: Select the directory you used for your previous installation as the installation directory on the **Installation settings** page. Otherwise the components are not updated and a new installation is created in the second directory instead.

3. Stop the One Identity Manager Service on the update server.
4. Create a backup of the One Identity Manager database.
5. If you are using an SQL Server database, set the compatibility level to **130**.
6. Run the One Identity Manager database schema update.
 - Start the Configuration Wizard on the administrative workstation and follow the instructions.

7. Update the One Identity Manager Service on the update server.

- a. Execute the program autorun.exe from the root directory on the One Identity Manager installation medium.
- b. Change to the **Installation** tab. Select the edition you have installed and click **Install**.

This starts the installation wizard.

- c. Follow the installation instructions.

IMPORTANT: Select the directory you used for your previous installation as the installation directory on the **Installation settings** page. Otherwise the components are not updated and a new installation is created in the second directory instead.

- d. Check the One Identity Manager Service's login data. Revert to the original settings if the One Identity Manager Service did not initially use the local system account for logging in. Enter the service account to use.

8. Start the One Identity Manager Service on the update server.

9. Update other installations on workstations and servers.

You can use the automatic software update method for updating existing installations.

10. Any required changes to system connectors or the synchronization engine are made available when you update One Identity Manager. These changes must be applied to existing synchronization projects to prevent target system synchronizations that are already set up, from failing. Patches are made available for this.

NOTE: Some patches are applied automatically. A process that migrates all existing synchronization project is queued in the Job queue to do this. To execute the process, the One Identity Manager Service must be started on the database server and on all the synchronization servers.

- Check whether the process `DPR_Migrate_Shell` has been started successfully.
If the patch cannot be applied because the target system could not be reached, for example, you can manually apply it.

For more information, see [Applying patches to synchronization projects](#) on page 45.

To update an application server to version 8.0.2

- After updating the One Identity Manager database's schema, the application server starts the automatic update.
- To start the update manually, open the application's status page in the browser and select **Update immediately** from the current user's menu.

To update the Web Portal to version 8.0.2

- ❗ **NOTE:** As from version 7.1. and later, the Web Portal requires an application server with a search service installed on it. For more information, see the document *Web Designer and Web Portal Changes* and the *One Identity Manager Installation Guide*.
- ❗ **NOTE:** Ensure that the application server is updated before you install the Web Portal.
 - To update the Web Portal automatically, connect to the monitoring site `http://<server>/<application>/monitor` in a browser and start the web application update.
 - To manually update the Web Portal, uninstall the existing Web Portal and install the Web Portal again. For more information, see the *One Identity Manager Installation Guide*.

To update the Operations Support Web Portal to version 8.0.2

1. Copy the contents of the folder `Modules\QER\dvd\AddOn\Operations Support Web Portal` to the installation directory for the Operations Support Web Portal, for instance `OperationSupport`.
2. Copy the following file in the folder `bin` into the Web Portal application install directory.
 - `Modules\QER\install\bin\QER.WebRuntime.WebApi.dll`
 - `Modules\QBM\install\bin\QBM.CompositionApi.Web.dll`

To update the Manager web application to version 8.0.2

1. Uninstall the Manager web application
2. Reinstall the Manager web application.
3. The Manager default user requires write access to the Internet Information Services web application installation directory so that Manager web applications can be updated automatically. Check that the correct permissions are allocated.

Applying patches to synchronization projects

⚠ CAUTION: Patches do not change customizations in synchronization projects. This means that conflicts may occur if patches are applied to synchronization projects, which have been customized. This may cause loss of data.

Before you apply a patch

1. Read the patch description to decide whether it provides the necessary improvements for the synchronization project.
2. Check whether conflicts with customizations could occur.
3. Create a backup of the database so that you can restore the original state if necessary.
4. Deactivate the synchronization project.

ℹ NOTE: If you have set up synchronization projects for connecting cloud application in the Universal Cloud Interface, update the target system schema in these synchronization projects before you apply the patches. Use the Synchronization Editor.

To apply patches

1. Open the synchronization project in the Synchronization Editor.
2. Select **Edit | Update synchronization project...** from the menu.
3. Select the patches to apply under **Available patches**. Multi-select is possible.
In the **Patch details** view, patches are listed in the order in which they will be applied.
4. Click **Apply selected patches**.
5. Enter any user input as prompted.
6. If necessary, use the patch log to check whether customization need to be reworked.
7. If required, rework customizations in the synchronization configuration.
8. Run a consistency check.
9. Simulate the synchronization.
10. Activate the synchronization project.
11. Save the changes.

ℹ NOTE: A patch does not take effect until the changes associated with it are saved in the database. If consistency check or simulation errors occur that cannot be corrected, you can dismiss the patch changes by reloading the synchronization project without saving the changes.

For more detailed information about updating synchronization projects, see the One Identity Manager Target System Synchronization Reference Guide.

See also:

- [Modified synchronization templates](#) on page 21
- [Patches for synchronization projects](#) on page 22

Verifying successful installation

To determine if this version is installed

- Start the Designer or the Manager and select the menu item **Help | Info**.
The **System information** tab gives you an overview of your system configuration.
The following version numbers for modules and the application version 8.0 2017-11-04-162 indicate that this version is installed.

ServiceNow module	2017.0011.0004.0000
All other modules	2017.0011.0004.0200

This service pack updates all files that shipped with One Identity Manager 8.0.

Additional resources

Additional information are available in:

- [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 or other inquiries, visit <https://www.oneidentity.com/company/contact-us.aspx> or call +1-800-306-9329.

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

Copyright 2018 One Identity LLC.

ALL RIGHTS RESERVED.

This guide contains proprietary information protected by copyright. The software described in this guide is furnished under a software license or nondisclosure agreement. This software may be used or copied only in accordance with the terms of the applicable agreement. No part of this guide may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording for any purpose other than the purchaser's personal use without the written permission of One Identity LLC .

The information in this document is provided in connection with One Identity products. No license, express or implied, by estoppel or otherwise, to any intellectual property right is granted by this document or in connection with the sale of One Identity LLC products. EXCEPT AS SET FORTH IN THE TERMS AND CONDITIONS AS SPECIFIED IN THE LICENSE AGREEMENT FOR THIS PRODUCT, ONE IDENTITY ASSUMES NO LIABILITY WHATSOEVER AND DISCLAIMS ANY EXPRESS, IMPLIED OR STATUTORY WARRANTY RELATING TO ITS PRODUCTS INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. IN NO EVENT SHALL ONE IDENTITY BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE, SPECIAL OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, BUSINESS INTERRUPTION OR LOSS OF INFORMATION) ARISING OUT OF THE USE OR INABILITY TO USE THIS DOCUMENT, EVEN IF ONE IDENTITY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. One Identity makes no representations or warranties with respect to the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. One Identity does not make any commitment to update the information contained in this document.

If you have any questions regarding your potential use of this material, contact:

One Identity LLC.
Attn: LEGAL Dept
4 Polaris Way
Aliso Viejo, CA 92656

Refer to our Web site (<http://www.OneIdentity.com>) for regional and international office information.




Patents

One Identity is proud of our advanced technology. Patents and pending patents may apply to this product. For the most current information about applicable patents for this product, please visit our website at <http://www.OneIdentity.com/legal/patents.aspx>.

Trademarks

One Identity and the One Identity logo are trademarks and registered trademarks of One Identity LLC. in the U.S.A. and other countries. For a complete list of One Identity trademarks, please visit our website at www.OneIdentity.com/legal. All other trademarks are the property of their respective owners.

Legend

-  **WARNING: A WARNING icon indicates a potential for property damage, personal injury, or death.**
-  **CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.**
-  **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.**