

One Identity Manager 8.1.1

Release Notes

July 2019

These release notes provide information about the One Identity Manager release, version 8.1.1. You will find all the modifications since One Identity Manager version 8.1 listed here.

One Identity Manager 8.1.1 is a patch release with new functionality and better behavior. See [New features](#) on page 3 and [Enhancements](#) on page 6.

If you update a One Identity Manager version that is older than One Identity Manager 8.1, read the release notes from the previous versions as well. You will find the release notes and the release notes about the additional modules based on One Identity Manager technology under [One Identity Manager Support](#).

One Identity Manager 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
- One Identity Manager Secure Password Extension Administration Guide

About One Identity Manager 8.1.1

One Identity Manager simplifies the process of managing user identities, access permissions and security policies. It gives control over identity management and access decisions to your organization, freeing up the IT team to 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 Hybrid Subscription

The newest version of our on-prem products will offer a mandatory One Identity Hybrid Subscription, which helps our customer's transition to a hybrid environment on their way to the cloud. The subscription enables you to join their on-prem solutions with our One Identity Starling software-as-a-service platform. Giving your organization immediate access to a number of cloud-delivered features and services, which expand the capabilities of your on-prem product. We will continuously make available new products and features to our One Identity SaaS platform. With the One Identity Hybrid Subscription, you can use these immediately for their One Identity on-prem solutions and their subscription continues to add value.

Expand the capabilities of One Identity Manager with [One Identity Hybrid Subscription](#), which offers a myriad of additional cloud-delivered features and services. Gain access to all-you-can-eat [Starling Two-Factor Authentication](#) to protect administrative access, to enforce additional factor authentication when requesting or approving critical access or to enable out of band user verification for password requests. For an additional cost, these offerings can also be extended to additional target systems and use cases. A single subscription can be used for all your One Identity products.

New features

New features in One Identity Manager 8.1.1:

Basic functionality

- Support for managed instances in Azure SQL Database.

Operating the One Identity Manager database in a managed instance in an Azure SQL Database requires the **Business critical** tier.

For detailed information about demands on a managed instance in an Azure SQL Database in One Identity Manager, see the *One Identity Manager Installation Guide*. For detailed information about the pricing, visit Microsoft's <https://azure.microsoft.com/en-us/services/sql-database/> website.

- Windows Server 2019 is supported for service, web and application servers.
- Use the **Common | MailNotification | DefaultFont** and the **Common | MailNotification | DefaultFontSize** configuration parameters to specify font and font size for mail templates in the Mail Template Editor.
- In mail templates, any parameters can be used when calling a script.

Syntax: `$SCRIPT(ScriptName, "Options")$`

The `Options` parameter is optional and is passed as a string. Custom parameters can be coded in any way in this string. Quotes (") are masked by doubling. In the script, the parameter is passed as the second parameter after the base object. The base object can now be either `IEntity` or `ISingleDBObject`.

- The **RequestWatchDogPlugin** has a new **Action** parameter (Action) to specify which action should be run when queries come to a still stand. Permitted values are **Restart** (default) and **Log**.

Web applications

- One Identity now offers users the option to log in, simply and securely, to One Identity Manager web applications with help of (physical) security keys. These security keys support the W3C standard **Webauthn**. Using them guarantees a high degree of login security.

New Web Designer configuration keys:

- `VI_Common_AccessControl_Webauthn_2FAID`
- `VI_Common_AccessControl_Webauthn_2FA_VisibleControls`
- `VI_Employee_QERWebAuthnKey_Filter`
- `VI_Common_AccessControl_Webauthn_2FA`

For detailed information, see the *One Identity Manager Web Portal User Guide*, the *One Identity Manager Web Application Configuration Guide* and the *One Identity Manager Identity Management Base Module Administration Guide*.

- It is now possible, with the help of three Web Designer configuration keys, to specify the format of date and time input for the entire web project.

New Web Designer configuration keys:

- VI_Common_InputFormat_DateTime
- VI_Common_InputFormat_Date
- VI_Common_InputFormat_Time

For more information about value formats, see <https://docs.telerik.com/kendo-ui/framework/globalization/dateformatting>.

- The terms of use are now automatically shown in the same language as the Web Portal.

Target system connection

- You can now synchronize departments and the employees assigned to them using synchronization projects for employee data from an Oracle E-Business Suite Human Resources module. To do this, two new mappings are provided with the default synchronization template.

In addition, the Oracle E-Business Suite connector also supports hierarchy filters for organization hierarchies. In the synchronization project's scope, departments you want to synchronize can be filtered from all the organizations by using the hierarchy filter.

Departments can also be differentiated from other organizations by their type. As you can customize these types in Oracle E-Business Suite, departments are not filtered by type in the default mappings. To filter departments by type, define your own schema class.

NOTE: The new default mappings are only available in synchronization projects that have been created with One Identity Manager 8.1.1. There is no patch for this change.

To apply this functionality to existing synchronization projects, update the target system schema in these projects. This makes two new schema types available, HROrganization and HRPersonInOrganization. Define your own schema classes for these schema types and your own mappings.

- Support for One Identity Safeguard version 2.6 and Version 2.7.
Patches with the patch IDs VPR#31459, VPR#31664A, VPR#31664B, VPR#31703, VPR#31775A and VPR#31775B are available for synchronization projects.
- Improved support of One Identity Safeguard clusters when establishing a connection.
A patch with the patch ID VPR#31569 is available for synchronization projects. If you use One Identity Safeguard clusters, run the system connection wizard after applying the patch, to determine the cluster's appliances.
- Initially, approvers of access request policies automatically become owners of PAM assets, PAM asset accounts, PAM directory accounts, PAM asset groups and PAM

account groups. This assignment only takes place if an access request policy can be determined for a PAM object. For each access request policy, a new application role is created for the owner under the **Privileged Account Governance | Asset and account owners** application role.

An application role for owners is only assigned automatically to a PAM object if an application role is not already assigned to the PAM object. Any existing assignment is not changed. You may change the application role manually.

- Microsoft Exchange 2019 with cumulative update 1 and Microsoft Exchange 2016 cumulative update 12 are supported.
- Microsoft Exchange linked room mailboxes are supported.

A patch with the patch ID VPR#30964 is available for synchronization projects.

- One Identity Manager supports the disbanding of an SAP R/3's central user administration. The central user administration and child systems can be removed so that they subsequently become independent clients, which can be managed by One Identity Manager and administrated separately from each other.

Not only can single clients be removed from the central user administration but the entire central user administration can be disbanded.

Ask support for instructions about disbanding the central user administration. To access the Support Portal, go to <https://support.oneidentity.com/identity-manager/>.

- A recertified version of the One Identity Manager Business Application Programming Interface (BAPI) is available. The BAPI has reduced functionality, which works to the advantage of performance. The BAPI is no longer compatible with One Identity Manager version 6.1.x or older versions.

The BAPI's functions are available as an Add-On Assembly Kit (AAK) package, a transport package from copies and now also as a Workbench transport package. You can choose any import path. Coding is identical.

- SharePoint 2019 is supported.
- Execution of provisioning and single object synchronization processes as well as target specific processes can be distributed over different servers. This accelerates the entire process because objects can be handled in parallel.

Distribution covers all servers that are assigned the server function stored in the base object.

For detailed information about load balancing, see the *One Identity Manager Target System Synchronization Reference Guide* and the individual target system manuals.

- **TECH PREVIEW ONLY:** A new LDAP connector **LDAP Connector (Version 2 - Tech Preview)** is available. No maps and no project templates are made available with it. The connector can be tested in a test environment. You must definitely not use the connector in a live environment.

Identity and Access Governance

- Support for a peer group analysis for requests.

There is a new event, `PeergroupAnalysis`, for the `PersonWantsOrg` table, which can be linked into the approval workflow with an **EX** step. The event checks the hit rate within the request recipient's peer group and/or for mismatching functional areas of the requested permissions and the recipient's department. The hit rate and mismatching functional areas are registered in the request and the step is then completed after either granting or denying approval depending on the result.

The peer group analysis configuration uses the **QER | ITShop | PeerGroupAnalysis** configuration parameter and its child configuration parameters.

See also:

- [Enhancements](#) on page 6
- [Resolved issues](#) on page 10
- [Schema changes](#) on page 27
- [Patches for synchronization projects](#) on page 30

Enhancements

The following is a list of enhancements implemented in One Identity Manager 8.1.1.

Table 1: General known issues

Enhancement	Issue ID
Improved performance checking columns in the <code>QBUniqueGroup</code> table that must be unique by definition.	31263, 31648
Improved performance in <code>DBQueue Processor</code> .	31293
Improved performance processing transactions that repeatedly queue tasks in the <code>DBQueue</code> .	31490
In the configuration parameter Common MailNotification Signature LinkDisplay , you can specify an alternative display text for the link to your company's website for use in email signatures.	19852
Improvements in <code>Job Queue Info</code> . <ul style="list-style-type: none">• The port is taken into account when a Job server log is displayed.• A user and user password can be entered over the Enter request credentials context menu item to query Job server status.	22926, 30711

Enhancement	Issue ID
Support for the System Debugging on 64-bit systems.	31203
Improved login checks. Using the Common Authentication Session-sPerUserAndMinute configuration parameter, you can specify the number of sessions a user can open within a short space of time. The default value is 10 . If this number is exceeded, the user is sent a message.	31321
Use the configuration parameter QBM DBQueue GenProcIDReplaceLimit to define a limit for process replacements.	31423
Third-party components update.	31443, 31444, 31446, 31318
Improved security for the One Identity Manager Service API.	31542
Improved protection of the application server's API.	31553, 31564
Improved protection against damaging SQL statements.	31652
Improved performance in the vQBM_PGUIDReplaceLight procedure.	31676

Table 2: General web applications

Enhancement	Issue ID
In the Web Portal, all the application roles a person is responsible for are managed under Responsibilities My Responsibilities One Identity Manager application roles .	797112
In the Web Portal, under My profile Contact data Language for value formatting , users can specify how dates and numbers are formatted.	796853
Improved error message if there is no approval policy available for delegating.	30656
To prevent user sessions being stolen, the session ID is no longer given in the HTML code. The web application must run in Release mode for this.	31656
Improved security for dealing with column filters.	31754

Table 3: Target system connection

Enhancement	Issue ID
Improved performance reloading objects from the database.	31404

Enhancement	Issue ID
If the option Ignore undefined values is set for a schema property, a message appears in the synchronization log if the connector tries to write a non-defined value.	30522
Operation for memberships are recorded with more detail in the synchronization log.	31851
If the connector schema in a synchronization project was extended by using a schema extension file, the schema extension can be viewed and edited in the target system wizard after it has been saved.	31773, 31833
Access restrictions for the Azure Active Directory User.CompanyName schema property has been removed. CompanyName can now be written to. A patch with the patch ID VPR#31456 is available for synchronization projects.	31456
Improved grouping of Azure Active Directory user accounts in the Manager.	31803
Improved performance provisioning Active Directory groups, containers and domains. A patch with the patch ID VPR#31419 is available for synchronization projects.	31419
Improved performance by correcting object filters in Active Directory project templates. A patch with the patch ID VPR#31792 is available for synchronization projects.	31792
The behavior of Active Directory processes has been changed with respect to load balancing of processes for provisioning and single object synchronization as well as target system specific processes on different Job servers. <div style="border-left: 2px solid #0070C0; padding-left: 10px; margin-left: 15px;"> <p>i NOTE: The ADS_GetQBMServer script was also changed in connection with this. Check your customized use and overwrites of this script. If you customized the ASD_GetQBMServer script, it will still be run but without the load balancing function. If you want to use load balancing, customize the script accordingly or use the default script.</p> </div>	30886
Improved performance loading synchronization objects from Microsoft Exchange if revision filtering is used. A patch with the patch ID VPR#31165 is available for synchronization projects.	31165
Improved performance loading synchronization objects from Exchange Online if revision filtering is used. A patch with the patch ID VPR#31166 is available for synchronization projects.	31166
Improved performance provisioning Notes policies and certificates. A patch with the patch ID VPR#31420 is available for synchronization projects.	31420

Enhancement	Issue ID
Improved performance provisioning SAP user accounts. A patch with the patch ID VPR#31412 is available for synchronization projects.	31412
Improved performance deleting memberships in SAP roles.	31235
Improved split algorithm in the SAP connector if WHERE clauses in external schema extensions are very long.	31834
The LDAP connector support schema with Base64 coded content.	28647
The LDAP connector supports reading of auxiliary class attributes that were assigned in the object class schema through the auxiliaryClass attribute.	31483
The LDAP connector is more tolerant toward entries that are not RFC compliant. This means that unmasked leading and trailing space characters, which do not conform to RFC 4514, are handled as insignificant, meaning they do not belong to the name anymore. All space characters that were disallowed according to RFC, are now normalized. Other non RFC compliant entries are ignored and warning written to the log.	31548, 31873
i NOTE: On your own LDAP systems, write operations on non RFC compliant entries result in errors.	
The RACF connector supports the auxiliary class RacfUserCsdataSegment.	31356
The process function RunAgent of the process component NDO Component has been extended by an additional parameter of type OUT .	31030
The TargetSystem SAPR3 Accounts CalculateLicence configuration parameter can be used to specify whether to calculate SAP system measurement for SAP user accounts.	31204
Improved performance synchronizing SAP cost centers.	31543
Improved performance by correcting object filters in SAP project templates. A patch with the patch ID VPR#31796 is available for synchronization projects.	31796
The SCIM connector supports passing of the specified scope for the token requested by OAuth 2.0. A patch with the patch ID VPR#31756 is available for synchronization projects.	31756
Improved performance by correcting scope filters in Oracle E-Business Suite project templates. A patch with the patch ID VPR#31794 is available for synchronization projects.	31794

Table 4: Identity and Access Governance

Enhancement	Issue ID
Improved process monitoring of requests. The configuration parameter Common ProcessState UseGenProcIDFromPWO controls whether the GenProcID of an IT Shop request is retained for the entire approval process.	31418
The documentation for inheriting company resource through system roles and the effect of exclusion definitions has been comprehensively reworked (<i>One Identity Manager System Roles Administration Guide</i>).	28312
Improved performance processing requests of approvers that are automatically approved.	31341
Improved performance deleting customers with requests, from the IT Shop.	31668
Improved performance moving requests.	31597
The reminder interval and the timeout for attestation approval steps are checked every 30 minutes by default. The interval can be specified in the Checks reminder interval and timeout of attestation cases schedule.	31383

See also:

- [Schema changes](#) on page 27
- [Patches for synchronization projects](#) on page 30

Resolved issues

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

Table 5: General known issues

Resolved issue	Issue ID
The QBM_PDBQueueOverviewFill procedure updated the DBQueueOverview table too frequently.	31217, 31296
Error in DBQueue Processor handling: Divide by zero error encountered.	31924, 31925
Incorrect values in DialogCountry.NumericCode.	31352
The final line break is missing when CSV files with only one header are written.	31556
DialogTree.ConfigurationFlags is not customizable.	31393
The Database Compiler sets the Waiting for compiler status too early. The	31408

Resolved issue	Issue ID
status is not removed if the compiler quits prematurely.	
Environment variables in the FileName process parameter of the SQLComponent process component's DumpResult process function, are not replaced at runtime.	31513
Error in the German translation for DBQueue tasks.	31117
Migration fails if there are custom tables in a One Identity Manager History Database.	31530
The CCCEditPermissions permissions group does not own sufficient permissions to create for default tables with custom columns.	31431
In CustomProperty columns, @ cannot be used.	31593
The QBM_PUserDetectByGroupList procedure removes too many permissions groups.	31601
Error String or binary data would be truncated during One Identity Manager update to version 8.1.	31617, 31663
During the One Identity Manager update to version 8.1., custom triggers are deleted.	31658
In certain circumstances, the procedure QBM_PDeleteDeep leaves behind disabled triggers.	31677
Error executing the GUID in primary key with invalid format consistency check for the JobQueueStats table.	31688
The QBMLock has no entry but XMarkedForDeletion is set consistency check, does not output the table name.	31860
The QBMLock has no entry but XMarkedForDeletion is set and QBMLock has entry without XMarkedForDeletion set consistency checks return the wrong results for read-only tables. An error occurs when the repair method is run.	31799
Swagger definition in the application server's API documentation contains an unclosed XML statement.	31713
In certain circumstances, not all elements are indexed in the search index.	31881
The CVSExport process function of the ScriptComponent process component, writes a header every time.	31731
Wrong transliteration of Đ(U0110) and đ(U0111) in the VID_TransliterateDiacritics script.	31737
Error message in the HistoryDB Manager if entries exist in the One Identity Manager History Database for columns that are not configured for recording changes.	31631

Resolved issue	Issue ID
Divide by zero error encountered error running the system overview query for values AVG latency write and AVG latency write TempDB .	31610
Error saving a newly added script in the One Identity Manager database using the System Debugger.	31786
The @ColumnName variable in QBM_ZSplittedLookupFill is too short for DialogColumn.ColumnName with a length of 29 or 30 characters.	31840
It is possible to assign a new object to the generation base object (entity) during process generation.	31854
<p>i NOTE: If you have used this functionality, error messages are outputted during process compilation. Correct your processes accordingly.</p>	
All databases in an AlwaysOn availability group are given the same UniqueDatabaseId.	31866
SingleDbObjectSnapshot does not mask XML special characters if the value is encrypted.	31869

Table 6: General web applications

Resolved issue	Issue ID
Problems selecting a language if the One Identity Password Manager was started from the Web Portal.	29035
Information about the password strength is not displayed in the respective language in the Password Reset Portal.	30694
The filter settings for date columns are only available in English in the Web Portal.	31118
When a report is exported, the default template and not the custom template is used.	31231
In Web Portal, if a menu item forwards to an external URL and has the options Open in new frame and Show toolbars , the toolbar is not displayed in the popup window.	31384
If you violate the password policy whilst change a password, an error message is displayed instead of the password policy.	30389
Not all types are available in the API client's generated code.	799497
The Web Designer component VI_Common_ExternalFormHost has been deleted. It can no longer be used to display a any URL. If you still require this functionality, you must rebuild existing code to use the QBM_Common_ExternalFormHost form component. This has the advantage of not passing	800060

Resolved issue	Issue ID
URLs in the form of URL parameters.	
On the grounds of security, the VI_Common_UserMessageAdd Web Designer component now codes the given text into HTML by default. You can switch off this behavior by using the virtual function <code>DoNotHtmlEncode()</code> when the component is called.	800062
In the Web Portal, report subscriptions can be saved without a value in the mandatory field.	31058
In the Web Portal, the date is displayed in UTC format in the employee's change history.	31434
In the Web Portal, the valid until date is transferred incorrectly to the shopping cart if the time is later than 23:59.	31484
The VI_Edit_MultiLimitedValues Web Designer component selects values from the wrong attribute in the filter condition.	31505
The validity of a password, connecting the Password Reset Portal through the application server, is not tested until it is saved.	31354
History data from One Identity Manager version 6 is not displayed correctly in the Web Portal.	31523
Write protected values for attestation cases can be changed in the Web Portal.	31603
In certain circumstances, in the Web Portal, an error occurs when the origin of an employee's entitlement is displayed.	31638
You cannot add extensions for certain objects in the Web Designer (for example VI_ITShop_DeleteItemFromCart).	31504
In certain circumstances, the Web Portal freezes when exporting data.	31295
In certain circumstances, in the Web Designer, the key icon, which you click to manually establish a WCF connect, is not always visible.	31525
In certain circumstances, in the API Designer, the Database Compiler freezes during NPM processes.	31723
Very long latency in the Internet Explorer until the form for assigning a system entitlement to an owner in the Web Portal.	31037
In certain circumstances, in the Web Portal, not all product categories are displayed on the product selection page.	31818
In certain circumstances, the error Object of type UNSAccount does not exist in database or you do not have the relevant viewing permissions occurs during analysis of attestation cases.	31842
In certain circumstances, reports are not always displayed correctly in the	31896

Resolved issue	Issue ID
Internet Explorer and Microsoft Edge.	
Error sharing the default web application in release node: The value cannot be NULL.	31931
The grid search cannot be hidden. The value false for the IsSearchActive variable in a grid extension is not taken into account.	31903
Case sensitivity is not tested when the answer to a secret question is entered for a second time.	31914

Table 7: Target system connection

Resolved issue	Issue ID
<p>Error using the Remote Connection Plugin if NTLM authentication is disabled.</p> <p>i NOTE: To correct the problem, a section, <code>remoting</code>, has been added to the Synchronization Editor's configuration file to configure usage of principle names. This modification only affects new installations. Existing installations are not changed.</p> <p>For existing installations: If you are affected by the problem, enter the following in the <code>SynchronizationEditor.exe.config</code> file:</p> <pre><configSections> ... <section name="remoting" type="System.Configuration.NameValueSectionHandler" /> ... </configSections> <remoting> <add key="EndpointIdentity.Type" value="" /> <!-- DNS for Domain, UPN for UserPrincipalName, SPN for ServicePrincipalName --> <add key="EndpointIdentity.Value" value="" /> </remoting></pre>	31142
The correct variable set is loaded too late during synchronization startup.	31196
The synchronization log includes objects that the Update method has been applied to although the objects were not changed.	31307
In certain circumstances, the <code>DPR_Journal_Cleanup</code> process blocks other processes that access the synchronization log.	31584

Resolved issue	Issue ID
If synchronization deletes multiple objects and an error occurs deleting one of the objects, it is possible that not all the objects are deleted.	31549
Error processing an employee's changed memberships if the memberships are marked as outstanding.	31570
In certain circumstances, multiple mapping rules for the same property can lead to false or incomplete prototype objects.	31702
The calculation of which schema type must be loaded for scope handling, uses the wrong scope.	31714
During synchronization a method checked to see if it can be executed although the method is not allowed to be executed. This results in errors.	31913
During provisioning, no changes are written to the target system if a quota is defined in the provisioning workflow.	31823
Error loading single objects with Windows PowerShell if the parameter Identity is used. The error can occur, for example, during provisioning of object modifications in Exchange Online and result in follow up errors. A patch with the patch ID VPR#30269 is available for synchronization projects.	29152, 30269
The Windows PowerShell consistency check does not recognize schema classes with non-unique keys.	31324
The appliance's serial number cannot be used to identify PAM appliances because the identifier is not unique. Patches with patch IDs VPR#31568A and VPR#31568B are available for synchronization projects.	31568
Flag behavior inconsistent when handling SAPComPhone.PhoneType.	29725
Error provisioning license information for SAP user accounts in the central user administration.	31078
In Manager, departments and employee that do not originate from SAP R/3 are displayed under Target system synchronization: SAP R/3 .	31086
In the SAP_PersonAuto_Mapping_SAPUser script, the wrong configuration parameter is used for automatically creating departments and no data source is passed. A new configuration parameter, TargetSystem SAPR3 AutoCreateDepartment , is available.	31226
<p>i NOTE: If the department is loaded by SAP HCM synchronization, the configuration parameter should not be set. Otherwise, automatically generated departments are marked as outstanding.</p>	
Error loading SAP user account if the name has a leading space character.	31329

Resolved issue	Issue ID
<p>Assignments of SAP roles to user accounts with <code>XIsInEffect=0</code> are logged as deleted in the synchronization log each time synchronization is run.</p> <p>A patch with the patch ID VPR#31427 is available for synchronization projects.</p>	31427
<p>On the form assigning SAP roles to SAP user accounts, outstanding or ineffective assignments are displayed in the same way as effective assignments.</p>	31590
<p>No objects are updated or added in the One Identity Manager database during synchronization of locations with the <code>HRArea</code> schema type from an SAP HCM system.</p> <p>The fix corrects the mapping of the <code>vrtdistinguishedName</code> schema property. The <code>MOLGA</code> schema property is not used for mapping anymore.</p> <p>To apply this change, update the target system schema in the synchronization project and modify the mapping.</p>	31642
<p>Generating a process for <code>SAPUserInSAPRole</code> creates an entry in <code>QBMElementAffectedByJob</code> for the SAP role.</p>	31847
<p>SAP-K-ProfileRestriction post-processing tasks are triggered for objects that are not SAP profiles.</p>	31886
<p>It is possible, if several price lists are enabled in SAP R/3 that contain a cross-section of license types, the references cannot be resolved for the SAP user account because no unique license can be assigned.</p> <p>A patch with the patch ID VPR#31930 is available for synchronization projects.</p>	31930
<p>Categories for group inheritance are not displayed properly on the master data form for custom target systems.</p>	31563
<p>Error adding custom target system in Manager.</p>	31632
<p>Error accessing the SharePoint Online target system schema.</p> <p>A patch with the patch ID VPR#31499 is available for synchronization projects.</p>	31499
<p>Error adding a SharePoint site collection: Another site already exists.</p>	31831
<p>If SharePoint web templates are loaded, the <code>vrtObjectPath</code> key property is made up of properties, which are not unique when combined.</p> <p>i NOTE: The first synchronization after installing this version marks existing SharePoint web templates (<code>SPSWebTemplate</code> table) as outstanding and reloads the entries. This justified because the <code>vrtObjectPath</code> key property and the distinguished name (<code>DistinguishedName</code>) have changed. The web templates marked as outstanding can be deleted.</p>	31837
<p>If a SharePoint site collection is in read-only mode, no access is possible, not even with the server farm account.</p>	31904

Resolved issue	Issue ID
Changing the name of a container in Active Directory does not result in the distinguished name of sub containers changing in One Identity Manager.	31596, 31751
<p>i NOTE: In the context of trouble shooting, the ADS_CreatedDN script has also been corrected to map the distinguished name with masking. Check whether the script still fits your target system. You can overwrite the script if necessary.</p>	
Inadequate error message if ADSSite.UID_ADSEForest is empty when updating One Identity Manager to version 8.1.	31672
The CN in Active Directory can only be 64 characters long.	31826
The ADS-K-PersonHasADSGroup DBQueue Processor task create ADS-K-ADSEContactInADSGroup tasks for Active Directory user accounts.	31844
In certain circumstances, the name of the forest that belongs to an Active Directory domain, cannot be determined.	31752
In certain circumstances, the ADS-K-ADSEGroupInADSEGroup DBQueue Processor task never completes.	31905
Error in the VI_BuildProxyAddress script.	31783
Error in the EX0_2010_EX0Mailbox_Update/Deactivate process if the Microsoft Exchange mailbox does not exist anymore in the database before provisioning.	31535
The EX0Mailbox.TotalItemSize column's display name does not match the value.	31879
Inconsistencies loading LDAP multilanguage attributes.	31670
Incorrect handling of schema properties that are marked as returned = request in the SCIM schema.	31733
A patch with the patch ID VPR#31733 is available for synchronization projects.	
The CSM_CSMRoot_SearchandCreate_Person_PostSync process is missing.	31864
Missing scope filter for the PesonInLocality schema type in the Oracle E-Business Suite connector.	31735
A patch with the patch ID VPR#31735 is available for synchronization projects.	
Read operation on EBSSecurityGroup causes an error.	31782
A patch with the patch ID VPR#31782 is available for synchronization projects.	
If a synchronization project with a custom project template is created, no variables are used in the connection parameters but fixed values from the variable set.	31739
The native database connector does not support the SQL Server data type,	31741

Resolved issue	Issue ID
Datetime2.	
In the native database connector, the Imports VI.Projector.Database.Native import is missing in the CreateValueStore method.	31825
Error create a new password policy in the Manager.	31495
The MFRCComponent process component is missing.	31871
The racfInstallationData attribute must be added in the schema for the extendable object classes racfDataset and racfResource.	29918
In certain circumstances, an error occurs while searching for RACF dataset objects.	30587

Table 8: Identity and Access Governance

Resolved issue	Issue ID
The description of the configuration parameter QER Attestation AutoRemovalScope ESetAssignment RemoveRequestedRole is wrong.	30481
If an approval workflow is waiting for external approval and the approval step EX is reached for a different attestation object, the external approval process is restarted for all pending objects.	30965
In certain circumstances, the CreateAttestations Customizer method blocks DBQueue processing.	31016, 31370
In four Privileged Account Management specific attestation objects, the ObjectKey2 attribute contains a redundant character ("]") in the ObjectWalker notation.	31547
If a question was asked in an attestation case, the approval step might not be escalated if the time limit is exceeded.	31571
Insufficient primary key definition for the ATTVCasesOpenByPerson view.	31667
AttestationRun.HistoryNumber are not commented correctly.	31373
A request for an assignment resource by reference user does not use the approval policy that was used for the reference user.	31234
Missing Select permissions for an end user running attestation.	31497
The Missing table assignment to PWODecisionRule for attestation consistency check generates errors if the ATTESTATION pre-processor condition is not set.	31841
Error checking custom approval procedures while updating One Identity Manager to version 8.1.	31599

Resolved issue	Issue ID
Error sending email notifications if approval of an additional approver is withdrawn.	31628
The CreateITShopOrder method is missing for Azure Active Directory objects.	31633
You should not be able to transport the ITShopOrg.UID_PWODecisionMethod column because the value must be calculated.	31705
Failed process steps for IT Shop approvals do not go into the FROZEN status.	31744
Cancellations by the Manager without an approval workflow, are not sent an email notification. To fix this problem, the default mail template IT Shop request - canceled has been altered. If you customized the template, test the VI_ESS_PersonWantsOrg Send Mail when Unsubscribe process and alter it as required.	31759
In email notifications for the IT Shop, members of the chief approval team are also displayed.	31867
The VI_ESS_PW0He1perPW0 approve anywhere process is only generated if a mail template is entered in the approval step,	31897
Entries in the PersonHasObject table are not deleted when entries are deleted from the BaseTree table.	31417
Migration leaves behind BaseTreeHas* entries with XOrigin=2.	31716
Error calling the ADS_ZPersonHasObject procedure.	31740
If the QER_ZAllForPersonInBaseTree post-processing task has been triggered by deleting a BaseTree entry, the required QER-K-AllForOnePerson task is not generated.	31919
The calculated risk for a column is not corrected if the column does not have a risk index function anymore.	31378
Calculated risk indexes are not immediately updated after they have changed.	31379
Incorrect risk index functions.	31337, 31395
When system roles are requested, the request's compliance test does not recognize whether the compliance rule is violated by the company resources assigned to the system role.	31430
Error in the VI_QERPolicy_QERPolicyHasObject_new violation process if the mail template configuration parameters are not set.	31711

Table 9: IT Service Management

Resolved issue	Issue ID
Unsuitable sorting of call result lists.	31392
In certain circumstances during the accounting run, unique voucher items cannot mapped (InvoiceItem table). The InvoiceItem.DisplayName template has been modified to fix the problem. If you have defined custom templates, which refer to voucher items, test them and modify the templates if necessary.	31618

See also:

- [Schema changes](#) on page 27
- [Patches for synchronization projects](#) on page 30

Known issues

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

Table 10: General known issues

Known Issue	Issue ID
Error in the Report Editor if columns are used that are defined in the Report Editor as keywords. Workaround: Create the data query as an SQL query and use aliases for the affected columns.	23521
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
In certain circumstances, objects can be in an inconsistent state after simulation in 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. Solution: Reload the object after completing simulation.	12753
Invalid module combinations can be selected in the Configuration Wizard. This causes errors at the start of the schema installation. Cause: The Configuration Wizard was started directly.	25315

Known Issue	Issue ID
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 or the API 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. Solution: Mark the private key as exportable if exporting or importing the certificate.	27793
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
It is not possible to extend predefined dynamic foreign keys by references to redefined tables. If you define custom dynamic foreign keys, at least one of the parties involved - dynamic foreign key column or referenced table - must be a custom object.	29227
Error resolving events on a view that does not have a UID column as a primary key. 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 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.	29535
The default setting of globallog.config assumes that write access exists for %localappdata%. If an EXE does not have sufficient permissions, the log can be written to a directory that does have the access rights by changing the variable logBaseDir in the globallog.config or by introducing a special log configuration in the *.exe.config or the Web.config file.	30048
If the One Identity Manager database is installed in an SQL cluster (High Availability Group) and the option DTC_SUPPORT = PER_DB is set, replication between the server is done by Distributed Transaction. The error, in case a Save Transaction is carried out is: Cannot use SAVE TRANSACTION within a distributed transaction. Solution: Disable the option DTC_SUPPORT = PER_DB.	30972

Known Issue	Issue ID
If no date is given, the date 12/30/1899 is used internally. Take this into account when values are compared, for example, when used in reports. For detailed information about displaying dates and time, see the <i>One Identity Manager Configuration Guide</i> .	31322
<p>The following error occurs while the One Identity Manager database is updating from version 7.0.x, 7.1.x or 8.0.x to version 8.1.1.</p> <p>Database error 41337: Cannot create memory optimized tables. To create memory optimized tables, the database must have a MEMORY_OPTIMIZED_FILEGROUP that is online and has at least one container.</p> <p>Cause: The user used to update the database does not have sufficient permissions.</p> <p>Solution: Ensure that the user owns the dbcreator SQL Server server role.</p>	31981

Table 11: Web applications

Known Issue	Issue ID
<p>The error message <code>This access control list is not in canonical form and therefore cannot be modified</code> sometime occurs when installing the Web Portal with the Web Installer. The error occurs frequently after a Windows 10 Anniversary Update.</p> <p>Solution: Change the permissions for the users on the web application's parent folder (by default <code>C:\inetpub\wwwroot</code>) and apply the changes. Then revoke the changes again.</p>	26739

Table 12: Target system connection

Known Issue	Issue ID
<p>Memory leaks occur with Windows PowerShell connections, which use <code>Import-PSSession</code> internally.</p> <p>After synchronizing an SAP R/3 environment, assignments of single role to SAP user accounts are labeled as outstanding.</p> <p>This problem can occur if:</p> <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) <p>By resolving this problem in One Identity Manager 7.0.1, incorrect assignments are labeled as outstanding after synchronizing again using the</p>	23795

Known Issue	Issue ID
<p>appropriate synchronization configuration.</p> <p>Solution: Delete outstanding assignments in One Identity Manager target system synchronization.</p>	
<p>By default, the building block HR_ENTRY_DATE of an SAP HCM system cannot be called remotely.</p> <p>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.</p>	25401
<p>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.</p>	27042
<p>The SAP connector does not provide a schema property to establish whether a user has a productive password in SAP R/3.</p> <p>If this information is meant to be in One Identity Manager, extend the schema and the synchronization configuration.</p> <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. 	27359
<p>No passwords can be provisioned when the bind method Fast Bind is in use in Active Directory. The SetPassword method is therefore not available.</p> <p>The process step AdhocProjection fails with the message:</p> <pre>[System.Runtime.InteropServices.COMException] Unknown name. (Exception from HRESULT: 0x80020006 (DISP_E_UNKNOWNNAME)).</pre>	27427
<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>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</p>	27126

Known Issue	Issue ID
environment.	
<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>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 a the exact day.</p> <p>Solution: To synchronize personnel data in advance that will not come into effect later, use a schema extension and load the data from the table PA0001 directly.</p>	29556
<p>Error synchronizing an OpenDJ system, if a password begins with an open curly bracket.</p> <p>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.</p> <p>Solution: The LDAP server can be configured so that a hashed password of the form {<algorithm>}hash can be passed.</p> <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. 	29620
<p>Target system synchronization does not show any information in the Manager web application.</p> <p>Workaround: Use Manager to run the target system synchronization.</p>	30271
<p>The following error occurs in One Identity Safeguard if you request access to an asset from the access request policy section and it is configured for asset-based session access of type User Supplied:</p> <p>400: Bad Request -- 60639: A valid account must be identified in the request.</p>	796028, 30963

Known Issue	Issue ID
The request is denied in One Identity Manager and the error in the request is displayed as the reason.	
The following error message is displayed while setting up a synchronization project for One Identity Safeguard: 404: Not Found -- 0: Cause: An older One Identity Safeguard version that does not support One Identity Manager is in use. Solution: Ensure that you are using One Identity Safeguard version 2.5.	31048
Inconsistencies in SharePoint can cause errors by simply accessing a property. The error also appears if the affected schema properties mapping is disabled. Cause: The SharePoint connector loads all object properties into cache by default. Solution: <ul style="list-style-type: none"> • Correct the error in the target system. - OR - • Disable the cache in the file VI.Projector.SharePoint.<Version>.Host.exe.config. 	31017
If a SharePoint site collection only has read access, the server farm account cannot read the schema properties Owner, SecondaryContact and UserCodeEnabled. Workaround: The properties UID_SPSUserOwner and UID_SPSUserOwnerSecondary are given empty values in the One Identity Manager database. This way, no load error is written to the synchronization log.	31904

Table 13: Identity and Access Governance

Known Issue	Issue ID
Moving a shelf to another shop and the recalculation tasks associated with it can block the DBQueue. Solution: Parent IT Shop nodes of shelves and shops cannot be changed once they have been saved. To move a product in a shelf to another shop <ul style="list-style-type: none"> • Select the task Move to another shelf. - OR - • Assign the product to a shelf in the new shop then remove the product 	31413

Known Issue	Issue ID
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assignment to the previous shelf.

Once you have moved all the products, you can delete the shelf.

Table 14: 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. Possible cause: The number of processes started has reached the limit configured on the server.	27830
Cannot navigate with mouse or arrow keys in a synchronization log with multiple pages. Cause: the StimulReport.Net component from Stimulsoft handles the report as one page.	29051
Valid CSS code causes an error under Mono if duplicate keys are used. For more information, see https://github.com/mono/mono/issues/7455 .	762534, 762548, 29607
Memberships in Active Directory groups of type Universal in a subdomain are not removed from the target system if one of the following Windows updates is installed: <ul style="list-style-type: none"> • Windows Server 2016: KB4462928 • Windows Server 2012 R2: KB4462926, KB4462921 • Windows Server 2008 R2: KB4462926 <p>We do not know whether other Windows updates also cause this error.</p> <p>The Active Directory connector corrects this behavior with a workaround by updating the membership list. This workaround may deteriorate the performance of Active Directory groups during provisioning and will be removed from future versions of One Identity Manager once Microsoft has resolved the problem.</p>	30575

Known Issue	Issue ID
In certain circumstances, the wrong language is used in the Stimulsoft controls in the Report Editor.	31155
<p>In the Manager web application, following errors can occur under Windows Server 2008 R2:</p> <pre>System.Security.Cryptography.CryptographicException: Object was not found. at System.Security.Cryptography.NCryptNative.CreatePersistedKey (SafeNCryptProviderHandle provider, String algorithm, String name, CngKeyCreationOptions options)</pre> <p>Workaround:</p> <ol style="list-style-type: none"> 1. In the Internet Information Services (IIS) Manager, select the application and then the Advanced Settings context menu item. 2. On the Process Model panel, set the option Load User Profile to True. <p>For more information, see https://support.microsoft.com/en-us/help/4014602.</p>	31995

Schema changes

The following provides an overview of schema changes in One Identity Manager version 8.1 up to version 8.1.1.

Target System Synchronization Module

- New column `DPRRootObjConnectionInfo.UID_QBMServerTag` for mapping the server function for distributing provisioning and single object synchronization processes over several servers.

Target System Base Module

- Column `UNSAccountB.AccountName` extended from `nvarchar(64)` to `nvarchar(256)`.

Oracle E-Business Suite Module

- New columns `XUserInserted`, `XUserUpdated`, `XDateInserted` and `XDateUpdated` in the `EBSUserInRespCompressed` table.

SAP R/3 User Management Module

- New columns XUserInserted, XUserUpdated, XDateInserted and XDateUpdated in the HelperSAPUserInSAPRole table.
- New column SAPUserHasParameter.InheritInfo for mapping assignments origins.
- The column SAPUserHasParameter.ParameterValueDirect has been deleted.

SAP R/3 Structural Profiles Add-on Module

- New columns XUserInserted, XUserUpdated, XDateInserted and XDateUpdated in the HelperSAPUserInSAPHRP table.

Privileged Account Governance Module

- New column PAGReqPolicy.AllowLinkedAccountPwdAccess for inputting whether users can set password requirements for their linked accounts.
- New column PAGUsrGroup.UID_PAGIdentityProvider as reference to the authentication provider.
- New column PAGIdentityProvider.DomainNames as list of domains.
- New table PAGReqPolicyHasDirAccount for allocating more than one directory account for session access.
- The column PAGReqPolicy.UID_PAGDirAccountSessionAccess has been deleted.
- The column PAGUser.UID_PAGDirectory has been deleted.
- The column PAGUsrGroup.UID_PAGDirectory has been deleted.

Identity Management Base Module

- New columns PersonWantsOrg.PeerGroupFactor and PersonWantsOrg.IsCrossFunctional to support peer group analysis for requests.
- New table QERWebAuthnKey for mapping Webauthn security keys.

Attestation Module

- New columns AttestationCase.PeerGroupFactor and AttestationCase.IsCrossFunctional to support peer group analysis for attestation.
- New mandatory field definition for the column AttestationCase.UID_AttestationRun.

Configuration Module

- New columns QBMBufferTransfer.OperationType and QBModuleDef.CheckSumForDelta (in preparation of future functionality).

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 8.1 to version 8.1.1. Apply the patches to existing synchronization projects. For more information, see [Applying patches to synchronization projects](#) on page 57.

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 30.

Table 15: Overview of synchronization templates and patches

Module	Synchronization template	Type of modification
Azure Active Directory Module	Azure Active Directory synchronization	changed
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	none
	Oracle E-Business Suite HR data	changed
	Oracle E-Business Suite OIM data	none
Microsoft Exchange Module	Microsoft Exchange 2010 synchronization (deprecated)	changed
	Microsoft Exchange 2013/2016 synchronization (deprecated)	none
	Microsoft Exchange 2010 synchronization (v2)	changed
	Microsoft Exchange 2013/2016 synchronization (v2) renamed to:	changed

Module	Synchronization template	Type of modification
	Microsoft Exchange 2013/2016/2019 synchronization (v2)	
G Suite Module	G Suite synchronization	none
LDAP Module	AD LDS synchronization	none
	OpenDJ synchronization	none
IBM Notes Module	Lotus Domino synchronization	changed
Exchange Online Module	Exchange Online synchronization (deprecated)	none
	Exchange Online synchronization (v2)	changed
Privileged Account Governance Module	One Identity Safeguard synchronization	changed
SAP R/3 User Management Module	SAP R/3 Synchronization (Base Administration)	changed
	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	none
SharePoint Module	SharePoint synchronization	none
SharePoint Online Module	SharePoint Online synchronization	none
Universal Cloud Interface Module	SCIM Connect via One Identity Starling Connect	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 for synchronization projects in One Identity Manager 8.1.1. 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.

IMPORTANT: Some patches are applied automatically while One Identity Manager is updating. However, this only happens if you are updating a version of One Identity Manager that is older than One Identity Manager 8.1.

If you are updating an 8.1. version of One Identity Manager, you must apply patches manually.

For more information, see [Applying patches to synchronization projects](#) on page 57.

Table 16: Patches for Azure Active Directory

Patch ID	Patch	Description	Issue ID
VPR#31456	Make User.CompanyName writeable	Removes access restrictions for the User.ComanyName schema property. CompanyName can now be written to.	31456

Table 17: Patches for Active Directory

Patch ID	Patch	Description	Issue ID
VPR#31419	Sets rule filters for various synchronization steps in the provisioning workflow	Sets blacklist rules for group , domainDNS and builtinDomain synchronization steps in the provisioning workflow. This patch is applied automatically when One Identity Manager is updated.	31419
VPR#31792	Object filter correction	Corrects object filters. This patch is applied automatically when One Identity Manager is updated.	31792

Table 18: Patches for Microsoft Exchange

Patch ID	Patch	Description	Issue ID
VPR#31165	Use local server date as revision	Creates new connection parameters and variables for the configuration of revision filtering. By default, the local server time is used for revision filtering. Therefore, the local server time and date are applied by default.	31165
VPR#30964	Support	This patch ensures that, in the case of	30964

Patch ID	Patch	Description	Issue ID
	for linked room mailboxes	LinkedRoomMailboxes, schema properties LinkedCredential, LinkedDomainController and LinkedMasterAccount are passed to the connector.	

Table 19: Patches for Exchange Online

Patch ID	Patch	Description	Issue ID
VPR#30269	Prevents errors when loading single objects due to identical display names	Changes the schema properties vrtModBy, vrtAcceptMessagesFrom, vrtGrantSendOnBehalfOfTo, vrtRejectMessagesFrom and all property mapping rules for these schema properties.	30269
VPR#31166	Use local server date as revision	Creates new connection parameters and variables for the configuration of revision filtering. By default, the local server time is used for revision filtering. Therefore, the local server time and date are applied by default.	31166

Table 20: Patches for Oracle E-Business Suite

Patch ID	Patch	Description	Issue ID
VPR#31735	Scope filter for schema type PersonInLocality	Creates a scope filter for schema type PersonInLocality . This patch is applied automatically when One Identity Manager is updated.	31735
VPR#31782	Security groups definition	Correction of security groups definition. This patch is applied automatically when One Identity Manager is updated.	31782
VPR#31794	Scope filter correction	Corrects scope filters. This patch is applied automatically when One Identity Manager is updated.	31794

Table 21: Patches for IBM Notes

Patch ID	Patch	Description	Issue ID
VPR#31420	Sets rule filters for various synchronization steps in the provisioning workflow	<p>Sets blacklist rules for Certifier and Policy synchronization steps in the provisioning workflow.</p> <p>This patch is applied automatically when One Identity Manager is updated.</p>	31420

Table 22: Patches for Privileged Account Management

Patch ID	Patch	Description	Issue ID
VPR#31459	Mapping der Schemaeigenschaft AllowLinkedAccountPasswordAccess	<p>Adds a property mapping rule for the new AllowLinkedAccountPasswordAccess schema property to the AccessRequestPolicy mapping.</p> <p>This patch is applied automatically when One Identity Manager is updated.</p>	31459
VPR#31568A	Replaces Appliance serial as appliance identifier with a custom identifier (part 1)	<p>Replaces Appliance serial as the unique identifier of the base object with a custom identifier and applies this change to the synchronization configuration.</p> <p>Prerequisite for patch Replaces Appliance serial as appliance identifier with a custom identifier (part 2)</p> <p>This patch is applied automatically when One Identity Manager is updated.</p>	31568
VPR#31568B	Replaces Appliance serial as appliance identifier with a custom identifier (part 2)	<p>Replaces Appliance serial as the unique identifier of the base object with a custom identifier and applies this change to the synchronization configuration.</p> <p>Dependent upon patch Replaces Appliance serial as appliance identifier with a custom identifier (part 1)</p> <p>This patch is applied automatically when One Identity Manager is updated.</p>	31568
VPR#31569	One Identity	Adds connection parameters and	31569

Patch ID	Patch	Description	Issue ID
	Safeguard cluster access improvements	<p>variables for connecting One Identity Safeguard clusters.</p> <p>This patch is applied automatically when One Identity Manager is updated.</p> <p>If you use One Identity Safeguard clusters, run the system connection wizard after applying the patch, to determine the cluster's appliances.</p>	
VPR#31664A	AccessRequestPolicy model changes for session access (part 1)	<p>An access request policy can have multiple directory accounts for session access.</p> <p>Prerequisite for patch AccessRequestPolicy model changes for session access (part 2).</p> <p>This patch is applied automatically when One Identity Manager is updated.</p>	31664
VPR#31664B	AccessRequestPolicy model changes for session access (part 2)	<p>An access request policy can have multiple directory accounts for session access.</p> <p>Dependent on patch AccessRequestPolicy model changes for session access (part 1).</p> <p>This patch is applied automatically when One Identity Manager is updated.</p>	31664
VPR#31703	Additional rule for Director and IdentityProvider mappings	<p>Adds an additional rule for the Directory and Identityprovider mappings.</p> <p>This patch is applied automatically when One Identity Manager is updated.</p>	31703
VPR#31775A	Change to user and user group references (part 1)	<p>Removes the reference to the directory for users and user groups and adds a reference to the authentication provider for user groups.</p> <p>Prerequisite for patch Change to user and user group references (part 2).</p> <p>This patch is applied automatically when One Identity Manager is updated.</p>	31775

Patch ID	Patch	Description	Issue ID
VPR#31775B	Change to user and user group references (part 2)	Removes the reference to the directory for users and user groups and adds a reference to the authentication provider for user groups. Dependent on patch Change to user and user group references (part 1) . This patch is applied automatically when One Identity Manager is updated.	31775

Table 23: Patches for SAP R/3

Patch ID	Patch	Description	Issue ID
VPR#31412	Sets blacklist rules for provisioning	Sets blacklist property mapping rules in the user synchronization step of the provisioning workflow. This patch is applied automatically when One Identity Manager is updated.	31412
VPR#31427	Sets filter for SAPUserInSAPRole (XIsInEffect <> 0)	Creates schema class AssignmentsInEffect for schema type SAPUserInSAPRole with the filter XIsInEffect <> '0' and uses it in userInRole and userInCUARole mappings.	31427
VPR#31796	Object filter correction	Corrects object filters. This patch is applied automatically when One Identity Manager is updated.	31796
VPR#31930	Change the reference scope for the schema type SAPLicence	Corrects the reference scope of the schema type SAPLicence in the One Identity Manager connection.	31930

Table 24: Patches for SharePoint Online

Patch ID	Patch	Description	Issue ID
VPR#31499	Deletes Site.NewUrl schema property	Deletes NewUrl schema property from the Site mapping. This patch is applied automatically when One Identity Manager is updated.	31499

Table 25: Patches for the SCIM interface (in Universal Cloud Interface Module)

Patch ID	Patch	Description	Issue ID
VPR#31733	Schema properties with return type request	Updates the connector schema to handle schema properties with return type request . This patch is applied automatically when One Identity Manager is updated.	31733
VPR#31756	Access token scope	Creates a scope for the access token as a new connection parameter.	31756

Patches in One Identity Manager version 8.1**Table 26: General patches**

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context DPR .	
	Milestone 8.1.1	Milestone for the context One Identity Manager .	

Table 27: Patches for Azure Active Directory

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context Azure Active Directory .	

Table 28: Patches for Active Directory

Patch ID	Patch	Description	Issue ID
VPR#29087	Add the schema property mS-DS-ConsistencyGuid	Adds the schema property mS-DS-ConsistencyGuid in the User and InetOrgPerson maps.	29087
VPR#29306	Schema class ADSSite (all) (part 1) correction	Changes the foreign key for ADSSite from ADSDomain to ADSFroest. Prerequisite for patch Schema class ADSSite (all) (part 2) correction . This patch is applied automatically when One Identity Manager is	29306

Patch ID	Patch	Description	Issue ID
		updated.	
VPR#29306_2	Schema class ADSSite (all) (part 2) correction	Changes the foreign key for ADSSite from ADSDomain to ADSFroest. Dependent on patch Schema class ADSSite (all) (part 2) correction . This patch is applied automatically when One Identity Manager is updated.	29306
VPR#30192	Scope definition and usage of processing method MarkAsOutstanding	Adds a scope and the processing method MarkAsOutstanding to the synchronization step trustedDomain.	30192
	Milestone 8.1.1	Milestone for the context Active Directory .	

Table 29: Patches for Active Roles

Patch ID	Patch	Description	Issue ID
VPR#28612	Adds new property mapping rules to the Computer mapping	Adds property mapping rules for OperatingSystem, OperatingSystemVersion and OperatingSystemServicePack to the Computer mapping.	28612
VPR#29087	Add the schema property mS-DS-ConsistencyGuid	Adds the schema property mS-DS-ConsistencyGuid in the User and InetOrgPerson maps.	29087
	Milestone 8.1.1	Milestone for the context Active Roles .	

Table 30: Patches for Oracle E-Business Suite

Patch ID	Patch	Description	Issue ID
VPR#28962_EBS	Change date conversion in script properties	A language independent format is used for converting date values in script properties. This patch is applied automatically when One Identity Manager is updated.	28962
VPR#29265	Extended processing methods in the synchron-	Extended the synchronization configuration EBS_Person_	29265

Patch ID	Patch	Description	Issue ID
	ization step HR PersonManager	RemoveManager in the synchronization step HR PersonManager. This patch is applied automatically when One Identity Manager is updated.	
VPR#29741	Extended synchron- ization configuration by HR PersonPrimaryLocation	Extends a synchronization step and a mapping for synchronizing employees' primary locations.	29741
VPR#30464	Support for Oracle Database Editions	Adds a variable to the Oracle Database Edition configuration.	30464
VPR#31011	Change serialization format	Changes the serialization format of the schema types and reloaded the target system schema. This patch is applied automatically when One Identity Manager is updated.	31011
	Milestone 8.1.1	Milestone for the context Oracle E-Business Suite .	

Table 31: Patches for Microsoft Exchange

Patch ID	Patch	Description	Issue ID
VPR#28815	Extends a processing method in the synchron- ization step RoleAssignmentPolicy	Extends the processing method MarkAsOutstanding in the synchronization step RoleAssignmentPolicy.	28815
VPR#31026	Optimizes revision filtering	Reloads the target system schema and replaces the revision counters whenChangedUTC and whenCreatedUTC with vrtRevision.	31026
	Milestone 8.1.1	Milestone for the context Microsoft Exchange .	

Table 32: Patches for Exchange Online

Patch ID	Patch	Description	Issue ID
VPR#30498	Removes property mapping	Removes property mapping rules	30498

Patch ID	Patch	Description	Issue ID
	rules from the OwaMailboxPolicy mapping	BoxAttachmentsEnabled, DropboxAttachmentsEnabled and GoogleDriveAttachmentsEnabled from the OwaMailboxPolicy mapping.	
VPR#30588	Extends schema properties and property mapping rules in Calendar Processing (User/Shared) and Calendar Processing (Resource) mappings	Extends member lists in the schema properties vrtBookInPolicy, vrtRequestInPolicy and vrtRequestOutOfPolicy and updates the property mapping rules accordingly.	30588
VPR#31026	Optimizes revision filtering	Reloads the target system schema and replaces the revision counters whenChangedUTC and whenCreatedUTC with vrtRevision.	31026
VPR#31269	Modified implementation by extending various property mapping rules by a condition.	In the Mailbox mapping, a condition was added to various property mapping rules to modify implementation.	31269
	Milestone 8.1.1	Milestone for the context Exchange Online .	

Table 33: Patches for G Suite

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context G Suite .	

Table 34: Patches for LDAP

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context LDAP .	

Table 35: Patches for IBM Notes

Patch ID	Patch	Description	Issue ID
VPR#30313	Mapping for mailbox file access levels	Inserts a property mapping rule for access levels of mailbox files in the Person mapping.	30313
	Milestone 8.1.1	Milestone for the context IBM Notes .	

Table 36: Patches for SAP R/3

Patch ID	Patch	Description	Issue ID
VPR#28147	Deletes the mapping userInMandant	Deletes the mapping userInMandant. The map is replaced by userMandant. Prerequisite for patch New mapping userMandant . This patch is applied automatically when One Identity Manager is updated.	28147
VPR#28147_2	New mapping userMandant	New mapping for accessing client user accounts (userMandant). Depends on patch Deletes the mapping userInMandant . This patch is applied automatically when One Identity Manager is updated.	28147
VPR#30453	New property mapping rule for provisioning company data	New property mapping rule for mapping user account for provisioning company data. This patch is applied automatically when One Identity Manager is updated.	30453
VPR#30941	Sets blacklist rules for provisioning	Sets blacklist property mapping rules for the userInCUARole synchronization step of the provisioning workflow. This patch is applied automatically when One Identity Manager is updated.	30941
	Milestone 8.1.1	Milestone for the context SAP R/3 .	

Table 37: Patches for SAP R/3 personnel planning data and structural profiles

Patch ID	Patch	Description	Issue ID
VPR#29265	Extends a processing method in the synchronization step Managers	Extended the processing method SHR_Department_RemoveManager in the synchronization step Managers This patch is applied automatically when One Identity Manager is updated.	29265
	Milestone 8.1.1	Milestone for the context SAP R/3 structural profile add-on .	

Table 38: Patches for SAP R/3 BI analysis authorizations

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context SAP R/3 analysis authorizations add-on .	

Table 39: Patches for SAP R/3 authorization objects

Patch ID	Patch	Description	Issue ID
VPR#29477	Applies the processing method MarkAsOutstanding	Applies the processing method MarkAsOutstanding in various synchronization step.	29477
	Milestone 8.1.1	Milestone for the context SAP R/3 .	

Table 40: Patches for SharePoint

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context SharePoint .	

Table 41: Patches for SharePoint Online

Patch ID	Patch	Description	Issue ID
VPR#30729	Corrects the Mandatory property of the SharePoint Online User.LoginName.	Changes property Mandatory of schema property LoginName of schema class User (all). This patch is applied automatically when One Identity Manager is updated.	30729
	Milestone 8.1.1	Milestone for the context SharePoint Online .	

Table 42: Patches for the SCIM interface (in Universal Cloud Interface Module)

Patch ID	Patch	Description	Issue ID
VPR#30497	Allows configuration of local cache	Adds a variable for disabling use of local cache. This patch is applied automatically when One Identity Manager is updated.	30497

Patch ID	Patch	Description	Issue ID
VPR#31250	Corrections to the scripts of virtual schema properties	Adds a NULL value test in the get scripts of virtual schema properties. This patch is applied automatically when One Identity Manager is updated.	31250
	Milestone 8.1.1	Milestone for the context SCIM .	

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

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context Universal Cloud Interface .	

Table 44: Patches for Unix

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context Unix .	

Table 45: Patches for the One Identity Manager connector

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context Database .	

Table 46: Patches for the CSV connector

Patch ID	Patch	Description	Issue ID
	Milestone 8.1.1	Milestone for the context CSV .	

Deprecated features

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

- Oracle Database is no longer supported as a database system for the One Identity Manager database.

NOTE: Oracle Data Migrator is provided to help you convert the database system. The Oracle Data Migrator takes all the data belonging to an Oracle Database's database user from version 8.0.1 or later and transfers it to an SQL Server database with the same version.

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/>.

- Google ReCAPTCHA Version 1 is no longer supported.
- The process component SvnComponent has been removed.
- The **Common | MailNotification | DefaultCultureFormat** configuration parameter has been deleted.

Customized usage might require modification. The language for formatting values is determined through the current employee.

- The following scripts have been removed because their functions are obsolete or no longer ensured:
 - VI_Del_ADSSAccountInADSGroup
 - VI_GetDNSHostNameOfHardware
 - VI_GetDomainsOfForest
 - VI_GetServerFromADSContainer
 - VI_Make_Ressource
 - VID_CreateDialogLogin
 - VI_Discard_Mapping
 - VI_Export_Mapping
 - VI_GenerateCheckList
 - VI_GenerateCheckListAll

The following functions are discontinued in future versions of One Identity Manager and should not be used anymore.

- In future, mutual aid as well as password questions and answers will not be supported in the Manager.
Use the Password Reset Portal to change passwords. Save your passwords and questions in the Web Portal.
- In future, the configuration parameter **QER | Person | UseCentralPassword | PermanentStore** will not be supported and will be deleted.
- In future, the table OS will not be supported and will be removed from the One Identity Manager schema.
- In future, the **viITShop** system user will not be supported and will be deleted.
Use role-based login with the appropriate application roles.
- In future, the VI_BuildPwdMessage script will not be supported and will be deleted.
Mail templates are used to send email notifications with login information. The mail templates are entered in the **TargetSystem | ... | Accounts |**

InitialRandomPassword | SendTo | MailTemplateAccountName and **TargetSystem | ... | Accounts | InitialRandomPassword | SendTo | MailTemplatePassword** configuration parameters.

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

Processor	8 physical cores 2.5 GHz+
	NOTE: 16 physical cores are recommended on the grounds of performance.
Memory	16 GB+ RAM
Hard drive storage	100 GB
Operating system	Windows operating system <ul style="list-style-type: none">Note the requirements from Microsoft for the SQL Server version installed. UNIX and Linux operating systems <ul style="list-style-type: none">Note the minimum requirements given by the operating system manufacturer for SQL Server databases.
Software	Following versions are supported: <ul style="list-style-type: none">SQL Server 2017 Standard Edition (64-bit) with the current cumulative updateSQL Server 2016 Standard Edition (64-bit), Service Pack 2 with the current cumulative updateCompatibility level for databases: SQL Server 2016 (130)Default collation: case insensitive, SQL_Latin1_General_CP1_CI_AS (recommended) NOTE: The SQL Server Enterprise Edition is strongly recommended on performance grounds.

Minimum requirements for the service server

Processor	8 physical cores 2.5 GHz+
Memory	16 GB RAM
Hard drive storage	40 GB
Operating system	Windows operating system Following versions are supported: <ul style="list-style-type: none">• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012• Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later Linux operating system <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 system <ul style="list-style-type: none">• Microsoft .NET Framework Version 4.7.2 or later <p>i NOTE: Take the target system manufacturer's recommendations for connecting the target system into account.</p> Linux operating system <ul style="list-style-type: none">• Mono 5.14 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 system

	<ul style="list-style-type: none"> • Windows 10 (32-bit or 64-bit) with 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	<ul style="list-style-type: none"> • Microsoft .NET Framework Version 4.7.2 or later
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 system</p> <ul style="list-style-type: none"> • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 • Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later <p>Linux operating system</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 system</p> <ul style="list-style-type: none"> • Microsoft .NET Framework Version 4.7.2 or later • Microsoft Internet Information Service 10 or 8.5 or 8 or 7.5 or 7 with ASP.NET 4.7.2 and Role Services: <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 system

- NTP - Client
- Mono 5.14 or later
- 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 Windows operating system

- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later

Linux operating system

- 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 Windows operating system

- Microsoft .NET Framework Version 4.7.2 or later
- Microsoft Internet Information Service 10 or 8.5 or 8 or 7.5 or 7 with ASP.NET 4.7.2 and Role Services:
 - Web Server | Common HTTP Features | Static Content
 - Web Server | Common HTTP Features | Default Document
 - Web Server | Application Development | ASP.NET
 - Web Server | Application Development | .NET Extensibility
 - Web Server | Application Development | ISAPI Extensions
 - Web Server | Application Development | ISAPI Filters
 - Web Server | Security | Basic Authentication
 - Web Server | Security | Windows Authentication
 - Web Server | Performance | Static Content Compression
 - Web Server | Performance | Dynamic Content Compression

Linux operating system

- NTP - Client
 - Mono 5.14 or later
 - 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 47: Supported data systems

Connector	Supported data systems
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Connectors for delimited	Any delimited text files.
--------------------------	---------------------------

Connector Supported data systems

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.
-

Generic LDAP connector

Any LDAP directory server conforming to version 3. The LDAP connector requires the directory server to be RFC conform. Specifically, to conform to the standards RFC 4514 ([String Representation of Distinguished Names](#)) and RFC 4512 ([Directory Information Models](#)).

- i** **NOTE:** Other schema and provisioning process adjustments can be made depending on the schema.
-

Web service connector

Any SOAP web service providing wsdl.

- 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.
-

Active Directory connector

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.

Microsoft Exchange connector

- Microsoft Exchange 2010 Service Pack 3 or later
 - Microsoft Exchange 2013 Service Pack 1 or later
 - Microsoft Exchange 2016
 - Microsoft Exchange 2019 with cumulative update 1
 - Microsoft Exchange hybrid
-

SharePoint connector

- SharePoint 2010
 - SharePoint 2013
 - SharePoint 2016
 - SharePoint 2019
-

SAP R/3 connector

- SAP Web Application Server 6.40
 - SAP NetWeaver Application Server 7.00, 7.01, 7.10, 7.11, 7.20, 7.31, 7.40, 7.40 SR 2 and 7.50
 - SAP ECC 5.0 and 6.0
 - SAP S/4HANA On-Premise-Edition
-

Unix

Supports the most common Unix and Linux derivatives. For more

Connector Supported data systems

connector	information, see the Authentication Services specifications.
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• 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, 7.0, 7.2, 7.3.1
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

Connector Supported data systems

SharePoint Online connector

- Microsoft SharePoint Online

One Identity Safeguard connector

- One Identity Safeguard versions 2.5, 2.6, 2.7

Product licensing

Use of this software is governed by the Software Transaction Agreement found at <http://www.oneidentity.com/legal/sta.aspx> and the SaaS Addendum at <http://www.oneidentity.com/legal/saas-addendum.aspx>. This software does not require an activation or license key to operate.

Upgrade and installation instructions

To install One Identity Manager 8.1.1 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:** Note the [Advice for updating One Identity Manager](#) on page 51.

Advice for updating One Identity Manager

- 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 8.1.1. Otherwise the schema update cannot be completed successfully.
- Note the following for automatic software updating:

- Automatic software updating of version 7.0 to version 8.1.1 only works smoothly if the service pack 7.0.3 is installed. In addition, the files VI.Update.dll and JobService.dll must be installed.

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

To distribute the file, use the Software Loader.

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

- Automatic software updating of version 7.1 to version 8.1.1 only works smoothly if the service pack 7.1.3 is installed.
- One Identity Manager uses In-Memory OLTP ((Online Transactional Processing) for memory optimized data access. The database server must support Extreme Transaction Processing (XTP). If XTP is not enabled, the installation or update will not start. Check whether the SQL Server property **Supports Extreme Transaction Processing** (IsXTPSupported) is set to **True**.

The following prerequisites must be fulfilled to create memory-optimized tables:

- A database file with the file type **Filestream data** must exist.
- A memory-optimized data filegroup must exist.

The Configuration Wizard checks whether these prerequisites are fulfilled before the One Identity Manager database can be installed or updated. The Configuration Wizard offers repair methods for creating the database file and database group. Ensure that the user that going to execute the installation or update of the One Identity Manager database, owns the **dbcreator** SQL Server server role.

- During the update of a One Identity Manager database version 7.0, 7.1 or 8.0 to version 8.1.1, different columns that were already semantically defined as mandatory fields become physical mandatory fields.

During the schema update with the Configuration Wizard, errors may occur due to inconsistent data. The update quits with an error message.

```
<table>.<column> must not be null
Cannot insert the value NULL into column '<column>', table '<table>';
column does not allow nulls.
UPDATE fails
```

Check and correct data consistency before updating a One Identity Manager database. In the add-on for the Configuration Module on the installation medium, a test script (\SDK\SQLSamples\Files\MSSQL2K\30374.sql) is provided. In case it fails, correct the data and restart the update.

- During installation of a new One Identity Manager database or a new One Identity Manager History Database with version 8.1.1 or while updating an One Identity Manager database or One Identity Manager History Database from version 7.0.x, 7.1.x or 8.0.x to version 8.1.1, you can specify whether you want to work with granular permissions at server and database level. The Configuration Wizard then creates SQL Server logins and database users with the necessary permissions for administrative user, configuration users and end users. For more detailed information about permissions, see the *One Identity Manager Installation Guide*.

Adjust the configuration parameter after updating the One Identity Manager. This affects, for example, the connection data for the database (DialogDatabase), the One Identity Manager Service, the application server, the administration and configuration tools, the web applications and web services as well as the connection data in synchronization projects.

If you want to switch to granular permissions when you update from 8.1.x at a later date, contact support. To access the Support Portal, go to <https://support.oneidentity.com/identity-manager/>.

- To successfully compile HTML applications with the Configuration Wizard, you must download packages from the NPM repository. Ensure that the workstation running the Configuration Wizard can establish a connection to the website <https://registry.npmjs.org>.

Alternatively, it is possible to download the packages from a proxy server and make them available manually. For more information, see the knowledge article <https://support.oneidentity.com/kb/266000>.

- In One Identity Manager versions 8.0, 8.0.1, 8.0.2, the One Identity Manager History Service and the One Identity Manager Service were both installed when the One Identity Manager History Database was installed.


If you are affected by this problem, uninstall the One Identity Manager History Service before updating your One Identity Manager History Database. Run the following command as administrator:

```
sc delete "HDBService"
```

Updating One Identity Manager to version 8.1.1

IMPORTANT: Note the [Advice for updating One Identity Manager](#) on page 51.

To update an existing One Identity Manager installation to version 8.1.1

1. Run all the 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 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.

NOTE: To update a One Identity Manager History Database installation, change to the **Other Products** page and select the **One Identity Manager History Database**.

c. Click **Install**.

This starts the installation wizard.

d. Follow the installation instructions.

IMPORTANT: On the **Installation Settings** page, select the directory for your current installation as the installation directory. Otherwise the components are not updated and a new installation is created in the second directory instead.

3. (From version 7.0.x or version 7.1.x) End the One Identity Manager Service on the server that processes direct database queries.

(From version 8.0.x or version 8.1.x). End the One Identity Manager Service on the update server.

4. Make a backup of the One Identity Manager database.

5. Check whether the database's compatibility level is set to **130** and change the value if required.

6. Run the One Identity Manager database schema update.

- Start the Configuration Wizard on the administrative workstation and follow the instructions.

Select a user who has at least administrative permissions for the One Identity Manager database to update the One Identity Manager schema with the Configuration Wizard.

- Use the same user as you used for initially installing the schema.
- If you created an administrative user during schema installation, use that one.
- If you selected a user with Windows authentication to install the schema, you must use the same one for updating.

NOTE: If you want to switch to the granular permissions concept when you upgrade from version 7.0.x, 7.1.x or 8.0.x to version 8.1.1, use an installation user with permissions for this permissions concept. For more detailed information about permissions, see the *One Identity Manager Installation Guide*.

If you want to switch to granular permissions when you update from 8.1.x to version 8.1.1, contact support. To access the Support Portal, go to <https://support.oneidentity.com/identity-manager/>.

7. (From version 7.0.x or version 7.1.x) Update the One Identity Manager Service on the server that processes direct database queries.

(From version 8.0.x or version 8.1.x). 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.

NOTE: To update a One Identity Manager History Database installation, change to the **Other Products** page and select the **One Identity Manager History Database**.

- c. Click **Install**.

This starts the installation wizard.

- d. 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.

8. Check the login information of the One Identity Manager Service. Revert to the original settings if the One Identity Manager Service did not initially use the local system account for logging in. Specify the service account to be used. Enter the service account to use.
9. Start the One Identity Manager Service on the update server.
10. Update other installations on workstations and servers.

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

To update synchronization projects to version 8.1.1

1. If you have set up synchronization projects for connecting cloud applications in the Universal Cloud Interface, update the target system schema in these synchronization projects using the Synchronization Editor.
2. 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_She11` 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 57.

To update an application server to version 8.1.1

- 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 8.1.1

NOTE: Ensure that the application server is updated before you install the Web Portal. As from version 7.1. and later, the Web Portal requires an application server with a search service installed on it.

- To update the Web Portal automatically, connect to the runtime monitor `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 an API Server to version 8.1.1

- After updating the One Identity Manager database schema, restart the API Server. The API Server is updated automatically.

To update the Operations Support Web Portal to version 8.1.1

- (As from version 8.1.x) After updating the API Server, compile the HTML application **Operations Support Portal**. For more information, see the *One Identity Manager Installation Guide*.
- (As from version 8.0.x)
 1. Uninstall the Operations Support Web Portal.
 2. Install an API Server and compile the HTML application **Operations Support Portal**. For more information, see the *One Identity Manager Installation Guide*.

To update the Manager web application to version 8.1.1

1. Uninstall the Manager web application
2. Reinstall the Manager web application.
3. The default Internet Information Services user requires edit permissions for the Manager's installation directory to automatically update the Manager web application. Check whether the required permissions exist.

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.

📘 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. In **Available patches**, select the patches you want to apply. Multi-select is possible. In **Details - Installation summary**, all patches are displayed in order of installation.
4. Click **Apply selected patches**.
5. Enter any user input as prompted.
6. 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.

📘 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 29
- [Patches for synchronization projects](#) on page 30

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 version number 2019.0001.0021.0100 for all modules and the application version 8.1 2019-01-21-108 indicate that this service pack is installed.

Additional resources

Additional information is available from the following:

- [One Identity Manager support](#)
- [One Identity Manager online documentation](#)
- [Identity and Access Management community](#)
- [One Identity Manager training portal](#)

Globalization

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

This release is Unicode-enabled and supports any character set. It supports simultaneous operation with multilingual data. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe.

The release is localized in the following languages: German

This version has the following capabilities or constraints: Other languages, designated for the Web UI, are provided in the product One Identity Manager Language Pack.

About us

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

Contacting us

For sales 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

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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.**