

One Identity Manager 7.1.3

Release Notes

January 2018

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

Our documentation is available in 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

About One Identity Manager 7.1.3

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

With this product, you can:

- Implement group management using self service and attestation for Active Directory with the One Identity Manager Active Directory Edition

- Realize Access Governance demands cross-platform within your entire concern with One Identity Manager

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

One Identity Manager 7.1.3 is a patch release with new functionality and improved behavior. See [New features](#) on page 2 and [Enhancements](#) on page 3.

New features

New features in One Identity Manager 7.1.3:

Basic functionality

- Fallback for translations can be disabled for columns that are labeled as translation targets. Another value "Without fallback translation source" has been added to do this.
- The search index on the application server can be manually updated. The function "Update Index" is available in the application server to do this. You can choose whether all indexes or only modified indexes are updated.
- The new configuration parameter "Common\Jobservice\AutoCreateServerFromQueues" can be used to control whether Job server entries are created for unknown queues in the One Identity Manager database. The configuration parameter is set by default. This creates new job servers in the database when the One Identity Manager Service has queries for missing queues. If you do not want this functionality, disable the configuration parameter.
- Database encryption uses RSA encryption with a key length of 3584 bits. Use the program Crypto Configuration to change an existing encryption.
 - ① **NOTE:** Columns with encrypted values like password columns, for example, have been extended in the One Identity Manager schema. If you have extended the One Identity Manager schema with custom columns for mapping encrypted value, these column must be also extended if necessary.

Target system connection

- The access type for OAuth authentication can be configured with the SCIM connector. You can choose between client credentials and user/password credentials in the system connection wizard.
- TLS version 1.2 is used as encryption method for HTTPS in the SCIM connector.

See also:

- [Enhancements](#) on page 3
- [Resolved issues](#) on page 5
- [Schema changes](#) on page 20

Enhancements

The following is a list of enhancements implemented in One Identity Manager 7.1.3.

Table 1: General

Enhancement	Issue ID
Improved debug output for procedures to transfer data to the History Database.	28772, 4085663
The Language Editor now displays the language available in the front-end as optional languages for translation.	28359
Improved performance in the DBQueue Processor.	28522, 28569, 4064153
Improved definition of indexes in the Schema Extension program.	28598, 4064153
Optimized the Database Transporter to prevent deadlocks when transporting schema extensions.	28603, 4107215
Improved re-enabling of triggers and constraints.	28637, 4107215, 4109588
Improved queries for displaying the DBQueue.	28216, 4109588, 4112472
Extended the overview of the current system configuration.	28578
Improved error logging in the process component "FileComponent".	28656, 4093596
Improved display of permissions group hierarchy in the User & Permissions Group Editor.	26956
Improved performance determining display columns of foreign key columns. The original object is taken into account when the permissions are tested. Only FK objects for this, the original object are displayed.	28427, 4074610, 4071727,

Enhancement	Issue ID
	4100881, 4167180
Data export in the Manager now additionally supports certain system tables.	29328, 4166103
The path (execution target) is masked when the One Identity Manager Service is called.	28630, 4107917

Table 2: Web Designer and Web Portal

Enhancement	Issue ID
Web Portal installation checks whether an application server with an installed search index has been configured.	29280

Table 3: Target system connection

Enhancement	Issue ID
Comprehensive logging of error messages occurring during provisioning.	28825
A central user administration's child systems can be excluded temporarily from SAP synchronization.	26541, 3643578

Table 4: Identity and Access Governance

Enhancement	Issue ID
Improved performance loading attestation cases.	28582, 28796, 28966, 410088, 4100881, 4135798
Improved performance querying service items of system entitlements.	28842, 4071727
Improved performance when querying delegations.	28964, 4071727
The configuration parameter "Common\ProcessState\UseGenProcIDFromPWO" allows you to specify whether the GenProcID of an IT Shop request is kept for the entire approval process period or whether a new GenProcID is used for each approval	29206, 4156899

Enhancement	Issue ID
decision.	
If a manager uses the shopping cart to make multiple requests for more than one employee, each request is allocated its own GenProcID.	29206, 4156899
Improved performance making requests with the shopping cart.	29336, 4166207
Improved behavior for disabling and reabling system roles.	29226, 29264, 4158272, 4159021

See also:

- [Schema changes](#) on page 20
- [Patches for synchronization projects](#) on page 24

Resolved issues

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

Table 5: General

Resolved issue	Issue ID
Error in the History Database if the Oracle procedure PProcessGroupDelete is called whilst running the process VI_SourceDatabase_Import.	28725, 4113915
The form "VI_HistoryDB_SourceDatabase_MasterData (FrmSourceDatabaseStammdaten)" shows empty user (DBUserName) and password (DBUserPwd) fields.	28906, 4125028
The HistoryDB Manager cannot be started over the Launchpad.	28909, 4124997
Filling a process step parameter with a byte array does not work.	27777, 4121585
The transport ended in with the following error: System.ArgumentException: An item with the same key has already been added.	28045, 4048891
Synchronization project transports do not contain enough relations.	28094, 4048122
Under SQL Server, it is possible to create new entries in QBMGuidReplace	28432,

Resolved issue	Issue ID
although GUIDReplace is already running.	4090349
The program Schema Extension is terminated immediately and without prompting, after pressing ESC .	28480, 4087262
The write access of a custom permissions group for a custom column disappears if the permissions group has read access to at least one other regular column.	28481, 4068237
Data Import only reads the first line in a CSV file if the line break only consists of "CR".	28483, 4088573
Different errors adding and editing custom configuration parameters.	28492, 28493, 28731, 4071473, 4111808
Consistency check fails if a foreign key column of a view is added in a simple table.	28497, 4045308, 4080035
The recommendation for "Cost Threshold for Parallelism" should be adapted.	28508, 4064153
Error in the Database Transporter if custom columns of default tables are imported, which do not have the prefix "CCC_".	28524
Error in Manager if changes are logged for the table DialogTag.	28544, 4075754
Error in the script VID_GetRunningOSfromServer.	28565, 4084084
The configuration supplied in the global configuration file (globallog.config) occasionally causes messages to be thrown out of the error log file if there is a high rate of log entries.	28568, 4075429
A previously configured HTTP authentication is not displayed if the program Job Service Configuration is restarted.	28571, 4081445
Error copying role-based permissions group in wizards.	28580, 4105335, 4137542
If a custom translation is deleted in the Manager, the associated entry in the table DialogMultiLanguage is not deleted.	28613, 4100028
If primary keys changed by migration, it might result in invalid references.	28614, 4079826

Resolved issue	Issue ID
Objects exports as a ZIP file from Manager might be different to the same export from the Database Transporter.	28629, 4062338
Automatic software update fails if the user is without a profile.	28701
The validation script does not work properly when accessing parameter sets in the Report Editor.	28806, 4110991
Table reindexing fails in daily maintenance tasks.	28827, 4071727
Automatic software update of Job servers fails.	27559, 28838, 4081467
Error selecting a menu item (DialogTree) if it contains curly brackets.	28847, 4127321
The schedule start times are not logged in the database journal.	28924, 4136110
Entries in QBMElementAffectedByJob that result from deleting entries from many-to-many tables are created twice.	28944, 4136899
JobChain.LimitationWarning cannot be customized.	28946, 4135505
Reoccurring errors in the database journal.	28948, 4136642, 4141125
Error creating a transport package if the time format was converted to "HH.mm".	28959, 4138380
Custom files are deleted during update installation of local assemblies.	28985, 4095165
The configuration parameter "Common\AutoExtendPermissions" also affects custom permissions groups. Behavior after installing this hotfix: Customer groups with permissions for at least one column of a predefined table, do not receive these permissions automatically anymore for customized columns of this table. Check the permissions and issue explicit permissions for the customer groups if necessary.	28709, 4115806
Wrong behavior of DialogColumn.IsNoAutoExtendPermissions. If this option is set for custom columns on a default table, permissions should no be assigned automatically.	29010, 4109829

Resolved issue	Issue ID
The export function in the Manager does not replace line feeds without a carriage return.	28977, 4122547
Parallel execution of QBM_PBrokerMessageSend can sometimes cause an error that irreparably damages the transaction.	25348, 4116732
Fallback to the configuration parameter "SysConfig\Logon\DefaultUser" whilst authenticating does not work.	29050, 4137430
Error occurs importing your own filters that have been exported.	28994, 4121563
Missing permissions for the database role "basegroup".	29054, 4134947
There is no message when saving a report in the Report Editor, if permissions are missing.	29040, 4128282
The message Broker is always recreated when UID_Database is changed.	29102, 4159543
In certain circumstances, unnecessary BLOBs are loaded when generating conditions are tested.	29093, 3859791
Querying historical data takes a long time.	29130, 4157096
Subsequent calculation of inheritance are continued under the wrong GenProcID.	29132, 4156899
External applications, started by the process component "CommandComponent", are not exited. The processes cannot be processed further.	29149, 4151840
Under certain circumstances, the following error message appears whilst editing or displaying a mail template in HTML format in the Mail Template Editor: Index was out of range Must be non-negative and less than the size of the collection.	29148, 4143404- 1
Tasks are not queued in the DBQueue if a front-end simulation that also created these tasks is running in parallel.	29195, 4162728
Recording B table views in the configuration buffer (QBMBufferConfig) does not work.	29198, 4142043
Error displaying change history for certain properties when connecting over the application server.	29214, 4155618
The condition (where clause) is not shown correctly when you change the filter modes.	29116, 4154252

Resolved issue	Issue ID
Master data forms in the Manager do not show the appropriate symbol for all changes.	29016, 4120015
Changes to DialogUserInGroup raise the "DIALOG" semaphore too frequently.	29105, 4159711
Users with "Read-only" permissions can display simple list reports in the Manager.	29283, 4165344
The options for assigning files to machine role are not shown correctly in then Software Loader.	29302, 4167290
DBTransporterCmd.exe runs as a 32-bit program.	29332, 4167225
The process component "MailComponent.SendRichMail" does not remove the lock from attachments it has utilized.	29352, 4183971

Table 6: General - Web Designer and Web Portal

Resolved issue	Issue ID
Various problems with the SQL Editor in the Web Designer.	28774, 4114889
The buttons Split, Compare and merge and Restore deleted child role must not be displayed for resources and application.	724393
The child group's view on the responsibilities page is missing for all group types except Active Directory.	724201
Active Directory containers are not available under Oracle.	718397
Single step mode does not work when debugging a database project in the Web Designer.	28347, 3914817
Reports with Replace function cannot be displayed in the Web Portal.	28732, 4107171
Grid-export returns an error message if the number of data sets in the grid should be displayed as well.	28795, 4070004
Certain ObjectWalker expressions cause compiler errors.	28928, 4135787
Error in the callback response in Web Designer runtime.	29009, 4148377
When Person.DeactivationEnd is set in the Web Portal, Person.DeactivationStart is also set.	28361, 4050846

Resolved issue	Issue ID
Web Portal does not always open in mobile view in the Internet Explorer.	28947, 4138600
Error clicking in the breadcrumb menu after a bookmark has been opened beforehand.	675432
VI_Edit_View_URL does not work showing links.	29082, 4156154
Moving entries in the Column Selection Editor with CTRL + arrow keys does not work anymore.	728041
No applications are displayed on the responsibilities page.	740902
Error changing the priority during a request's approval procedure.	742061
Web Portal login fails for some users.	742102
Inappropriate indexing in component "VI_Roles_Membership", Collection "PersonObjects".	29104, 4154312-1
Download control throws an exception if the File name on client field remains empty.	28890, 4119141
Compilation fails if request parameters are of type "Primary Key".	29133, 4135781
The progress bar for attestations stays at 0% for the chief approval team.	28980, 4061270-1
Calling the "VI_ITShop_Approvals" form takes a long time.	29053, 4150951
<p>i NOTE: The collection "PWOToDecide" does not behave interactively anymore. If you have made custom changes requiring interactive objects, amend your changes accordingly. Interactive objects can be added later to the loaded collection.</p> <p>The changes affect the components "VI_ITShop_Approvals" and "VI_ITShop_ApprovalItem".</p>	
An error sometimes occurs during partial compilation in the Web Designer.	29150, 3814385
Default module custom parameters cannot be selected.	29202, 4101828
Error occurs if two attestation cases reference the same base object.	29207, 4171938-1

Resolved issue	Issue ID
Visibility of button Revoke hold status is not correct.	29141, 4157328
Update problem when using the "Deny approval" function.	29186, 4161338
The Withdraw delegation is visible although the delegated request has already been denied.	29187, 4161345
List reports with more than 32 columns cannot be displayed in the Web Portal.	29268, 4170675
Display is inconsistent when the One Identity Password Manager is opened from the Web Portal.	29035, 4103198

Table 7: Target system connection

Resolved issue	Issue ID
Error adding a new mapping with the mapping wizard, which based on an existing mapping.	28538, 4101927
Error using "\$\$" in a database user's password if the One Identity Manager database is encrypted.	28556, 4101908
If two synchronizations with the same start up configuration are started at the same time, a synchronization, which is already running, is not always correctly identified.	28673, 4079945
No extra entry is created in DPRSchemaAccess when a mapping rule is added, which already exists in the combination in another map.	28823, 4075775
Incorrect entries in DPRMembershipAction when objects are deleted.	28879, 29232, 4102450
Error message "System.FormatException: Input string was not in a correct format." sometimes appears if logging provisioning of objects with curly brackets in their names, with the severity level "Trace".	28993, 4139793
The connection to the target system cannot always be saved if a value in a script variable is changed.	28950, 4046109
Diverse errors on the form "Define search criteria for employee assignment".	28547, 4095553
Schedules, which have been changes to "Every minute" in the Designer, are not displayed properly in the Synchronization Editor.	29068, 4134900
A system filter in the scope definition is not taken into account when synchronizing an Active Directory domain.	28501, 4093584

Resolved issue	Issue ID
If the task Unlock user account is run on an Active Directory user account, the user account remains locked.	28638, 4090604
Error in script ADS_GenerateHomeAndProfileEvent.	28884, 4112445
Provisioning of Active Directory groups ends with [System.NullReferenceException] Object reference not set to an instance of an object.	28343, 4076182
If the owner property of an Active Directory group changes, a duplicate entry occurs in the table DPRAttachedDataStore.	28489, 4056468
Diverse error executing MaintainOtherSID due to unresolvable Active Directory group memberships.	29115, 29209, 4150968, 4170066, 4170021
In certain circumstances, the option Change password the next time you log in is reset although no changes have been made to the password by the Active Directory user.	29301, 4168196
You cannot set ADSDomain.MaxPasswordAge to the value "0". A patch with the patch ID VPR#29318 is available for synchronization projects.	29318
The Customizer prevents ADSDomain.MaxPasswordAge being set to "0" and ADSDomain.MinPasswordAge to "1".	29303, 4177588
Error synchronizing Active Directory site servers. A patch with the patch ID VPR#27289 is available for synchronization projects.	29299, 4183020
Active Roles specific properties of Active Directory objects cannot be edited if there is also an Active Directory synchronization project for the domain.	28589, 4074695
Error in the formatting script for the column LDPDomain.Ident_Domain.	28619, 4099296
The TLS setting is not transferred when LDAP information is loaded in wizards.	28649, 4078103
Error reading LDAP attributes with type=certificate.	28877, 4115139
Error in the LDAP connector when emptying or deleting a value of a "Binary" field.	29159, 4156414
Improved error messaging for schema errors in the LDAP connector.	28620, 4087587
NullReferenceException resolving references on the IBM Notes Server.	28868,

Resolved issue	Issue ID
	4128243
Revision counters are not examined and saved during synchronization with the target system IBM Notes. A patch with the patch ID VPR#28917 is available for synchronization projects.	28917
An error occurs if all the telephone numbers of an SAP user account are deleted at the same time.	28529, 4073192
SAPComPhone.PhoneType does not alter correctly.	28818, 4073192
Incorrect resolution of data in the SAP connector if the loading buffer's threshold is exceeded.	28895, 4121833
There is no filtering of SAP personnel planning data about an employee when is it loaded. A patch with the patch ID VPR#28927 is available for synchronization projects.	28927, 4145642
Too many user groups are displayed on the master data form for SAP users.	29012, 4114977
The GenProcID is not passed correctly when calculating SAPUserInSAPRole.	29034, 4073967
Project templates for Active Directory, SAP R/3, IBM Notes and the SCIM interface contain German names. A patch with the patch ID VPR#28560 is available for synchronization projects.	28560
System.OutOfMemoryException was triggered by 32-bit isolation of environments with more than 60 000 elements.	27307, 4128243
Various error handling SAP schema extensions: <ul style="list-style-type: none"> Property definitions on schema types do not appear in the extended schema and, therefore, cannot be used in the mapping. Properties list of combined schema types, whose object lists and single objects are called from tables and BAPI functions, are not completely reloaded. 	25568, 26717, 3439600, 3683936
UID_PersonHead is not deleted if a department loses its manager in SAP.	29046, 4088264
Properties from the property block of a schema extension file for SAP are no visible anymore after a synchronization is reloaded.	29257, 4150766
The parameter list is not available when an SAP user account is created.	29281, 4114864

Resolved issue	Issue ID
The process step Check User already exists in the process SAP_SAPUserParameter_Insert/Update is not generated.	29282, 4114864
Error solving FK properties by using One Identity Manager connectors.	29271, 4179959

Table 8: Identity and Access Governance

Resolved issue	Issue ID
Rule groups can be saved without a name.	28867
<p>i NOTE: For existing installations: The rule group's name is now a compulsory field. Check by running the consistency check "Mandatory field check" on your existing data.</p>	
Write error for compliance rules in the Customizer.	28974, 4119536
The report "VI_ComplianceRule_Overview_UID_RolesProfAuth" does not show the origin of rule violations caused by SAP functions.	29243,
In certain circumstances, an EX step is not triggered when the event is canceled.	28976, 4113159
Recalculation of PW0He1perPW0.UID_PW0RulerOrigin is missing, if delegation is ended or broken off when an approval procedure for another request is running.	29242, 4159227
Calculation of full paths from hierarchical structure may result in duplicate entries and the application may crash.	29003, 4115743, 4138341
The statistic definition AttestationDecisionsInOverLimit_By_Department contains incorrect JOIN queries.	29284, 4178731
The ViewAddOn "UNSAccountInUNSGroup EX0" prevents attestation of memberships in system entitlements.	29358
<p>i NOTE: The ViewAddOn has been deleted. Members of Microsoft Exchange mailboxes, mail users and mail contacts are not mapped in the Unified Namespace anymore. Mailboxes, mail users and mail contacts are still mapped in the Unified Namespace.</p> <p>If you required compliance rule for authorizing Exchange objects, you can formulate them as SQL query for the underlying Active Directory objects.</p>	

See also:

- [Schema changes](#) on page 20
- [Patches for synchronization projects](#) on page 24

Known issues

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

Table 9: General

Known Issue	Issue ID
If you connect to a database with the Database Compiler, the task "QBM-K-CommonWaitForCompiler" is immediately queued in the DBQueue. If Database Compiler ends without compiling the database, the task remains in the DBQueue.	3209411, 23049, 24713
Error in the Report Editor if columns are used that are defined in the Report Editor as keywords. Workaround: Create the data query as SQL query and use aliases for the affected columns.	23521
Error message in the Web Designer query window: "Access to the path ... is denied." This error occurs if the user the web application process runs under, does not have write permissions for the given folder.	23769
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
"Read Only" type tables with Common Table Expressions (CTE) in the ViewAddOn are not added in the schema. In One Identity Manager 7.0, behavior has been modified if you use common table expressions with the keyword with as a condition for view definitions in read-only tables. The conditions for view definitions are embedded in a summary query. This means, you cannot be sure that a common table expression is the very first expression in a query. Possible error message: (execute slot single)50000 0 re-throw in Procedure QBM_ZViewBuildR, Line 1050000 0 re-throw in Procedure QBM_PViewBuildR_intern, Line 10250000 0 re-throw in Procedure QBM_PViewBuildR_intern, Line 8250000 0 re-throw in	

Known Issue

Issue ID

Procedure QBM_PViewBuild_FromAddOn, Line 6550000 0 re-throw in Procedure QBM_PSQLCreate, Line 26156 0 detected in (...) Procedure ..., Line 6156 0
Incorrect syntax near the keyword 'with'

Recommended action:

Check custom view definitions.

1. Create a view under common table expression usage.

Beispiel:

```
create view CCC_Vxy as
with a (col1, col2) as (
select 1 as col1, 2 as col2
)
select * from a
go
```

2. Use the view in the additional view definition (QBMViewAddon) of the read-only table.

```
select * from CCC_Vxy
```

Number of parameter pairs "ParamName"/"ParamValue" in the MailComponent's process task "SendRichMail" is not always sufficient.	25164
---	-------

10 parameter pairs are available by default. If this number is not sufficient, you can add additional custom process parameters, which Process Editor can then use as parameters. This function is available as from One Identity Manager version 7.0.

In certain circumstances, objects can be in an inconsistent state after simulation in the Manager. If an object is changed or saved during simulation and the simulation is finished, the object remains in the final simulated state. It may not be possible to save other modifications to this object instance.	12753
--	-------

Solution: Reload the object after completing simulation.

Invalid module combinations can be selected in the Configuration Wizard. This causes errors at the start of the schema installation. This problem only occurs if the Configuration Wizard is started directly. Always use autorun.exe for installing One Identity Manager components. This ensures that you do not select any invalid modules.	3372460, 25315
--	-------------------

The error message "This access control list is not in canonical form and therefore cannot be modified" sometime occurs when installing the Web Portal with the Web Installer. The error occurs frequently after a Windows 10 Anniversary Update.	26739
--	-------

Known Issue	Issue ID
Solution: Change the permissions for the users on parent folder of the web application (by default C:\inetpub\wwwroot) and apply the changes. Then revoke the changes again.	
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.	3775973, 27203
Error connecting through an application server if the certificate's private key, used by the VI.DB to try and encrypt its session data, cannot be exported and the private key is therefore not available to the VI.DB. Solution: Mark the private key as exportable if exporting or importing the certificate.	3981140, 27793
DialogTable.OnLoadingScript is no longer supported.	27968
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, 4081234
Error in the SQL Formatter if a Boolean attribute supplies a 'NULL' value. The default value is '0'.	28381, 4063027

Table 10: Target system connection

Known Issue	Issue ID
Schema properties used to identify system objects must contain a value. They cannot be empty.	23895
Automatic employee assignment for Notes user accounts does not work. Cause: DialogObject.ObjectName on NDOUser has been renamed from "NotesUser" to "NDOUser". Solution: Test the existing search criteria for employee assignment (table column NDODomain.AccountToPersonMatchingRule) and replace "NotesUser" with "NDOUser".	23270
An error may occur when synchronizing a target system and provisioning object modification if the synchronization project was created with One Identity Manager 7.0 and no hotfixes were installed. Example of an error message: [2134002] Error executing an adhoc projection! [1777239] The mapping rule (Members by SID) was unable to execute the projection between system objects (<group cn>) and (<group dn>) successfully!	3011731, 24022

Known Issue	Issue ID
Solution: Delete the synchronization project and recreate it. Restore your customizations.	
Memory leaks occur with Windows PowerShell connections, which use Import-PSSession internally.	23795
After synchronizing an SAP R/3 environment, assignments of single role to SAP user accounts are labeled as pending.	
This problem can occur if:	
<ul style="list-style-type: none"> • SAP role assignments to user accounts were loaded before installing One Identity Manager 7.0.1. in the One Identity Manager database • Single role assignments, which are included in collective roles, were mapped as direct assignments (Error ID 3218196) 	
By resolving this problem in One Identity Manager 7.0.1., incorrect assignments are labeled as pending after synchronizing again using the appropriate synchronization configuration.	
Solution: Delete pending assignments in One Identity Manager target system synchronization.	
By default, the building block "HR_ENTRY_DATE" of an SAP HCM system cannot be called remotely.	3260098, 25401
Solution: Make it possible to access the building block "HR_ENTRY_DATE" remotely in your SAP HCM system. Create a mapping for the schema property EntryDate in the Synchronization Editor.	
You must provide a user account with the following permissions for full synchronization of Active Directory user accounts with the supplied One Identity Manager default configuration.	26350, 3612100
<ul style="list-style-type: none"> • Member of the Active Directory group "Domain administrators" 	
A sensible minimum configuration which, with respect to pure user management, differs effectively in terms of permissions from a member of the group "Domain administrators" cannot be recommended.	
Very high memory usage when processing memberships in LDAP groups in an Oracle Database.	26770
Any existing SIP addresses are converted into email addresses when Microsoft Exchange mailboxes are added.	27042
The SAP connector does not provide a schema property to establish whether a user has a productive password in SAP R/3.	3777857, 27359
If this information is meant to be in One Identity Manager, extend the schema and the synchronization configuration.	

Known Issue	Issue ID
<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. 	
<p>No passwords can be provisioned when the bind method "Fast Bind" is in use in Active Directory. The method "SetPassword" 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_UNKONWNAME)).</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>	3923873, 3932523, 27687
<p>To use automatic employee assignment for central user administration (CUA) user accounts, assign the account definition to the CUA central system. Account definitions cannot be used to assign user accounts to child systems.</p>	28137
<p>If an Active Directory user account has the property MailNickName, an error occurs when the mailbox is enabled.</p> <pre>[System.Management.Automation.ActionPreferenceStopException] The running command stopped because the preference variable "ErrorActionPreference" or common parameter is set to Stop: ExternalEmailAddress is mandatory on MailUser.</pre> <p>Cause: The property "MailNickName" is mapped in addition in the Active Directory mapping. This causes inconsistencies in the target system from the point the user accounts are added.</p> <p>A user account of this kind appears in the Microsoft Exchange console as a mail user but without a target email address. An attempt to open this object causes an object corrupted error in Microsoft Exchange.</p> <p>Solution: Clear up inconsistencies in the affected user accounts in Active Directory and correct your Active Directory mapping.</p>	28820

Table 11: Third party contributions

Known Issue	Issue ID
Synchronizing a very large Active Directory system with an SQL Server	23524

Known Issue	Issue ID
database crashes with the error message (Microsoft SQL Server, error: 22022).	
Error can occur during synchronization of SharePoint websites under SharePoint 2010. The method SPWeb.FirstUniqueRoleDefinitionWeb() triggers a 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
Web applications under .Net 4.x on IIS are generally not stable if Microsoft Application Performance Monitoring is running on the same system. This problem is documented by Microsoft. For more information, see https://support.microsoft.com/en-us/help/3216459 .	28557

Schema changes

The following provides an overview of schema changes in One Identity Manager version 7.1.2. up to version 7.1.3.

Configuration Module

- Column DialogDBQueue.SubObject shortened to varchar(38) or varchar2(38) respectively.
- Column DialogDatabase.PublicKey extended to varchar(671) or varchar2(671) respectively.
- Columns extended to varchar(606) or varchar2(606) respectively.

Table	Column
DialogHistoryDB	ConnectionString
DialogWebService	ProxyPassword
DialogWebService	UserPassword
QBMServer	SRVAccount
QBMServer	SRVAccountDomain
QBMServer	SRVAccountPwd

Mainframe Module

- New table MFRRoot.

Identity Management Base Module

- Columns extended to nvarchar(400) or varchar2(400) respectively.

Table	Column
AERole	FullPath
BaseTree	FullPath
DelegableItem	FullPath
Department	FullPath
ITShopOrg	FullPath
ITShopSrc	FullPath
locality	FullPath
ProfitCenter	FullPath

- Column ESet.Ident_ESet extended to nvarchar(256) or varchar2(256) respectively.
- Column Person.CentralPassword extended to varchar(606) or varchar2(606) respectively.

Compliance Rules Module

- Column NonCompliance.FullPath extended to nvarchar(400) or varchar2(400) respectively.

Business Roles Module

- Column Org.FullPath extended to nvarchar(400) or varchar2(400) respectively.

Active Directory Module

- Column ADSAccount.UserPassword extended to varchar(606) or varchar2(606) respectively.

Microsoft Exchange Module

- Column ADSDomain.EX0UserPassword extended to varchar(606) or varchar2(606) respectively.

LDAP Module

- Column LDAPContainer.UserPassword and LDAPAccount.UserPassword extended to varchar(606) or varchar2(606) respectively.

IBM Notes Module

- Columns extended to varchar(606) or varchar2(606) respectively.

Table	Column
NDOServer	Password
NDOUser	Password
NDOUser	PasswordInitial
NDOUser	InternetPassword
NDOCertifier	Password

SAP R/3 User Management module Module

- Column SAPUser.Password extended to varchar(606) or varchar2(606) .

Target System Base Module

- Column UNSAccountB.Password extended to varchar(606) or varchar2(606) respectively.

Azure Active Directory Module

- Column AADUser.Password extended to varchar(606) or varchar2(606) respectively.

Exchange Online Module

- Column O3EMailUser.Password extended to varchar(606) or varchar2(606) respectively.

Cloud Systems Management Module

- Column CSMUser.Password extended to varchar(606) or varchar2(606) respectively.

Universal Cloud Interface Module

- Column UCIUser.Password extended to varchar(606) or varchar2(606) respectively.

Data Archiving Module

- Columns SourceDatabase.ServerName, SourceDatabase.DBUserName or SourceDatabase.DBUserPwd extended to varchar(606) or varchar2(606) respectively.

Synchronization template modifications

The following provides an overview of modified synchronization templates in One Identity Manager version 7.1.2. up to version 7.1.3. Apply the patches required to the existing synchronization projects. For more information, see [Patches for synchronization projects](#) on page 24 and [Apply Patches to Synchronization Projects](#) on page 42.

Table 12: Synchronization template modifications

Module	Synchronization template	Type of modification	Patch ID
Azure Active Directory Module	Azure Active Directory synchronization	none	
Active Directory Module	Active Directory synchronization	changed	VPR#28560_ ADS, VPR#29299, VPR#29318
Active Roles Module	Synchronize Active Directory domain via Active Roles	none	
Cloud Systems Management Module	Universal Cloud Interface synchronization	none	
Microsoft Exchange Module	Microsoft Exchange 2010 Synchronization	none	
	Microsoft Exchange 2013 / 2016 Synchronization	none	
LDAP Module	AD LDS Synchronization	none	
	OpenDJ Synchronization	none	
IBM Notes Module	Lotus Domino synchronization	changed	VPR#28560_ NDO, VPR#28917
SAP R/3 User Management module Module	SAP R/3 Synchronization (Base Administration)	changed	VPR#28560_ SAP
	SAP R/3 (CUA subsystem)	changed	VPR#28560_ SAP
SAP R/3 Analysis Authorizations Add-on Module	SAP R/3 BW	changed	VPR#28560_ SAP
SAP R/3 Compliance Add-on Module	SAP R/3 authorization objects	changed	VPR#28560_ SAP

Module	Synchronization template	Type of modification	Patch ID
SAP R/3 Structural Profiles Add-on Module	SAP R/3 HCM authentication objects	changed	VPR#28560_SAP
	SAP R/3 HCM employee objects	changed	VPR#28560_SAP, VPR#28927
SharePoint Module	SharePoint synchronization	none	
Universal Cloud Interface Module	SCIM Connect via One Identity Connect For Cloud	changed	VPR#28560_SCIM
	SCIM synchronization	changed	VPR#28560_SCIM
Unix Based Target Systems Module	Unix Account Management	none	
	AIX Account Management	none	
Exchange Online Module	Exchange Online synchronization	none	

Patches for synchronization projects

The following is a list of all patches provided in One Identity Manager 7.1.3 for synchronization projects.

Table 13: Patches for Active Directory

Patch ID	Patch	Description	Issue ID
VPR#28560_ADS	Display name conversion into English	German display names of property mapping rules and virtual schema properties are converted to English.	28560
VPR#29299	Correction to Active Directory site handling	Corrected import of Active Directory sites and child machines.	29299
VPR#29318	Setting and removing maxPwdAge in domains	Corrected operation for resetting if "maxPwdAge" is set to "never".	29318

Table 14: Patches for IBM Notes

Patch ID	Patch	Description	Issue ID
VPR#28560_NDO	Display name conversion into English	German display names of property mapping rules and virtual schema properties are converted to English.	28560
VPR#28917	Revision counter changed.	Changed the revision counter. A new virtual schema property is used.	28917

Table 15: Patches for SAP R/3

Patch ID	Patch	Description	Issue ID
VPR#28560_SAP	Display name conversion into English	German display names of property mapping rules and virtual schema properties are converted to English.	28560

Table 16: Patches for SAP R/3 personnel planning data and structural profiles

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

Table 17: Patches for the SCIM interface

Patch ID	Patch	Description	Issue ID
VPR#28560_SCIM	Display name conversion into English	German display names of property mapping rules and virtual schema properties are converted to English.	28560

Patches in One Identity Manager version 7.1.2**Table 18: Patches for Azure Active Directory**

Patch ID	Patch	Description	Issue ID
VPR#27696	Prevents sync failure due to invalid license assignments	This prevents synchronization error on the bases of invalid dependency resolution of license assignments.	27496, 3872598

Table 19: Patches for Active Directory

Patch ID	Patch	Description	Issue ID
VPR#23447	Establish 2 rules for resolving trusted domain memberships	The patch changes the property mapping rule for group memberships. Some special features apply when you apply this patch. For more information, see the One Identity Manager 7.1.2 Release Notes.	23447, 3930302, 4031338, 4056608
VPR#27636	Remove extension property from ADSPolicy (in the One Identity Manager schema)	This patch removes the unnecessary schema property VRT_vrtADSPolicyAppliesToAsString from the schema class "ADSPolicy".	27636

Table 20: Patches for Active Roles

Patch ID	Patch	Description	Issue ID
VPR#28076	Add msRadiusFramedRoute mapping rule	Adds a property mapping rule for msRadiusFramedRoute in the mapping "User".	28076
VPR#28106	Fixed SchemaClass Filter for MsImaging-PSPs	This patch corrects errors in the schema class filter for MsImaging-PSPs.	28106

Table 21: Patches for Microsoft Exchange

Patch ID	Patch	Description	Issue ID
VPR#27379	Reconnect handling	This patch adds new connection parameters to restore disconnected connections. The variables CP_MaxConnectRetries and CP_ReconnectIntervalInSeconds can be defined in the synchronization project.	27379, 3822196
VPR#27453	Configurable Active Directory settings	This patch adds new connection parameters for SetADServerSettings. The variables CP_ConfigurationDomainController, CP_PreferredGlobalCatalog and CP_SetPreferredDomainControllers can be defined in the synchronization project.	27453
VPR#27740	Prevents sync failure due to	This patch changes the virtual schema property vrtEX0Server of the schema class	27740

Patch ID	Patch	Description	Issue ID
	invalid public folder database master server references	EX0PublicFolderDatabase tp prevent synchronization error if the dependency cannot be resolved.	

Table 22: Patches for IBM Notes

Patch ID	Patch	Description	Issue ID
VPR#27801	Middle initial mapping	Mapping of schema property "Middleinitial" has changed.	27801
VPR#28123	Change group membership mapping	Changes the many-to-many schema type for user account memberships in groups of "NDOUser-InGroup (effective assignments)".	28123

Table 23: Patches for SAP R/3

Patch ID	Patch	Description	Issue ID
VPR#12585	Create new rule on SAP user license to set license extension	Adds a property mapping rule in the mapping "userHasLicense" in synchronization projects for the central system of a CUA.	12585
VPR#27420	New variable for SNC security settings	Creates a connection variable for SNC security settings.	27420, 3779892
VPR#27588	Change to the column "Lock flag" mapping (SAPUser.U_Flag)	Behavior of locked user accounts in a central user administration has changed.	27588, 4055538
VPR#27978	Changes the mapping rules of UID_SAPCompany field	Changes the property mapping rule for VRT_UID_SAPCompany to mapping "user".	27978, 4046109
VPR#28143	Change scope definition of SAP clients	Changes the scope definition for SAP clients in a central user administration (establish compatibility with Oracle Database).	28143

Table 24: Patches for SAP R/3 personnel planning data and structural profiles

Patch ID	Patch	Description	Issue ID
VPR#27420	New variable for SNC security settings	Creates a connection variable for SNC security settings.	27420, 3779892

Table 25: Patches for SAP R/3 BI analysis authorizations

Patch ID	Patch	Description	Issue ID
VPR#27420	New variable for SNC security settings	Creates a connection variable for SNC security settings.	27420, 3779892
VPR#28141	Change user to BW role assignment behavior	Changes schema classes in the "BWUser-InBWProfile" in One Identity Manager. Only assignments that are still in effect are taken into account.	28141

Table 26: Patches for SAP R/3 authorization objects

Patch ID	Patch	Description	Issue ID
VPR#26831	Apply new revision counters	Adds revision counters to the schema types SAPPProfileHasAuthObjectElem, ObjectHasField and TMENU01.	26831, 3686352
VPR#27420	New variable for SNC security settings	Creates a connection variable for SNC security settings.	27420, 3779892

Table 27: Patches for the SCIM interface (Universal Cloud Interface Module)

Patch ID	Patch	Description	Issue ID
VPR#27627	OAuth2 grant type	Specifies the OAuth authentication access type.	27627, 390545

Patches in One Identity Manager version 7.1.1**Table 28: Patches for Azure Active Directory**

Patch ID	Patch	Description	Issue ID
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902

Patch ID	Patch	Description	Issue ID
VPR#27232	Change license assignment handling	This patch change the way license assignments are handled in One Identity Manager.	27232

Table 29: Patches for Active Directory

Patch ID	Patch	Description	Issue ID
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902
VPR#26731	Reference scope correction	This patch corrects reference scope errors in forest trusts.	26731

Table 30: Patches for Active Roles

Patch ID	Patch	Description	Issue ID
VPR#23842	Remove ObjectUSN from all mappings	Removes the property mapping rule for ObjectUSN from all mappings. Prerequisite for patch "Marking member rules"	23842
VPR#26732	Reference scope correction	This patch corrects reference scope errors in forest trusts.	26732
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships. Dependent on the patch "Remove ObjectUSN".	26902

Table 31: Patches for Microsoft Exchange

Patch ID	Patch	Description	Issue ID
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902

Table 32: Patches for LDAP

Patch ID	Patch	Description	Issue ID
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902

Table 33: Patches for IBM Notes

Patch ID	Patch	Description	Issue ID
VPR#25351	Change state of variable "UserIDFilesDefaultPath"	The variable "UserIDFilesDefaultPath" can be changed after applying this patch.	25351, 3375103
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902
VPR#27221	Adding an organizational unit	Adds an organizational unit to the employee mapping.	27221

Table 34: Patches for SAP R/3

Patch ID	Patch	Description	Issue ID
VPR#23478_1	Move SAP printer (part 1 of 2)	SAP printers moved from clients to the SAP system. Old property mapping rules deleted. Prerequisite for patch "Move SAP printer (part 1 of 2)".	23478, 3812302, 3903639
VPR#23478_2	Move SAP printer (part 2 of 2)	SAP printers moved from clients to the SAP system. Add new property mapping rules. Dependent on patch "Move SAP printers (part 1 of 2)".	23478, 3812302, 3903639
VPR#24597	Change phone data behavior	Flag Behavior changed when handling SAPComPhone.PhoneType.	24597, 3202149, 4073192
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902
VPR#27245	Change projection direction of some rules from 'inherit' to explicit direction	Changes the mapping direction of some property mapping rules to an explicit direction.	27245

Table 35: Patches for SharePoint

Patch ID	Patch	Description	Issue ID
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902

Table 36: Patches for the SCIM interface (Universal Cloud Interface Module)

Patch ID	Patch	Description	Issue ID
VPR#25214	Fill variables block	Inserts authentication variables into the default variable set.	25214
VPR#26497	Fill Resource Type Column	Inserts resource types for user accounts and groups.	26497
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902
VPR#26921	Lower reload threshold	Sets the reload threshold to "4".	26921

Table 37: Patches for the Universal Cloud Interface interface (Cloud Systems Management Module)

Patch ID	Patch	Description	Issue ID
VPR#26666	Adjusts the synchronization configuration for pending changes.	Modifies the synchronization configuration for pending changes.	26666
VPR#26678	Corrects the account manager mapping	The Cloud group mapping is extended to the account manager.	26678
VPR#26854	One Identity Manager schema extensions	Extends the One Identity Manager schema.	26854
VPR#26994	Handling ineffective group memberships	Ineffective group memberships are handled like deleted memberships.	26994

Table 38: Patches for Unix

Patch ID	Patch	Description	Issue ID
VPR#26902	Mark membership rules	This patch marks property mapping rules for editing memberships.	26902

Deprecated features

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

- Quick Connect Adapter
- PXE support
- Hardware inventory
- Software inventory
- Microsoft Exchange Server 2000 administration
- Microsoft Exchange Server 2003 administration
- Administration of printer locations to hardware

This function is replaced by direct administration of Active Directory printers.

- IT Shop voucher request using methods "Full Invoice" (FI) and "Invoice Item" (II)
- Archiving historical data using XML files (version 7.1.3 or later)
 - The following configuration parameters have been removed: "Common\ProcessState\ExportPolicy\ExportPath", "Common\ProcessState\ExportPolicy\ExportServer" , "ProcessInfoImport\ImportPath", "ProcessInfoImport\ImportServer", "ProcessInfoImport\IgnoreDirectOperations" and "ProcessInfoImport".
 - The option "FILE" has been removed in the configuration parameter "Common\ProcessState\ExportPolicy".
 - The schedules "Export process information" and "Import process information" have been removed.
 - The processes "VID_Export_ProcessInfo" and "VI_ProcessInfo_Import" have been removed.
 - The process tasks "ExportProcessInfo" and "ImportProcessInfo" have been removed from the process component "ScriptComponent".

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

- Software distribution including
 - Driver admin
 - Application profile admin
 - Driver profile admin
 - PC Client
 - Profile Editor, Profile Scanner, Replication Info
 - Machine type admin
 - Structure for attended setup


System requirements

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

Minimum requirements for the database server

One Identity Manager supports the following database systems:

- SQL Server
- Oracle Database

Processor	8 physical cores 2.5 GHz+
	 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 Following versions are supported: <ul style="list-style-type: none">• Windows Server 2008 (non-Itanium based 64-bit) Service Pack 2 or later• Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later• Windows Server 2012• Windows Server 2012 R2• Windows Server 2016 UNIX and Linux operating systems <ul style="list-style-type: none">• Note the minimum requirements given by the operating system manufacturer for Oracle databases.
Software	SQL Server <ul style="list-style-type: none">• SQL Server 2012 Standard Edition, Service Pack 1 or later• SQL Server 2014 Standard Edition, Service Pack 1 or later

- SQL Server 2016 Standard Edition, Service Pack 1 or later
- Compatibility level for databases: SQL Server 2012 (110)
- Default collation: case insensitive, SQL_Latin1_General_CP1_CI_AS (recommended)

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

Oracle Database

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

i | **NOTE:** Oracle Database version 12.2 or later is not supported.

- The patch level differs depending on the system platform.

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

- Character set unicode (AL32UTF8) with the option "Oracle Text"; Parameter NLS LENGHT_SEMANTICS with value "CHAR"

Minimum requirements for the service server

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

- Linux operating system (64 bit), supported by the Mono project or Docker images provided by the Mono project.

Additional software

Windows operating system

- Microsoft .NET Framework Version 4.5.2 or later
 - **NOTE:** Microsoft .NET Framework version 4.6 is not supported.
 - **NOTE:** Take the target system manufacturer's recommendations for connecting the target system into account.
- Windows Installer

Linux operating system

- Mono 4.6 or later

Minimum requirements for clients

Processor 4 physical cores 2.5 GHz+

Memory 4 GB+ RAM

Hard drive storage 1 GB

operating system Windows operating system

- Windows Vista with the current service pack
- Windows 7 (32-bit or non-Itanium based 64-bit) with the current service pack
- Windows 8 (32-bit or 64-bit) with the current service pack
- Windows 8.1 (32-bit or 64-bit) with the current service pack
- Windows 10 (32-bit or 64-bit) with version 1511 or later


Additional software

- Microsoft .NET Framework Version 4.5.2 or later
 - **NOTE:** Microsoft .NET Framework version 4.6 is not supported.
- Windows Installer

Supported browsers

- Internet Explorer 10.0 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 2008 (non-Itanium based 64-bit) Service Pack 2 or later• Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later• Windows Server 2012• Windows Server 2012 R2• Windows Server 2016 <p>Linux operating 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 4.5.2 or later <p> NOTE: Microsoft .NET Framework version 4.6 is not supported.</p> <ul style="list-style-type: none">• Windows Installer• Microsoft Internet Information Service 7, 7.5, 8, 8.5 or 10 with ASP.NET 4.5.2 and Role Services:<ul style="list-style-type: none">• Web Server > Common HTTP Features > Static Content• Web Server > Common HTTP Features > Default Document• Web Server > Application Development > ASP.NET• Web Server > Application Development > .NET Extensibility• Web Server > Application Development > ISAPI Extensions• Web Server > Application Development > ISAPI Filters• Web Server > Security > Basic Authentication• Web Server > Security > Windows Authentication• Web Server > Performance > Static Content Compression

- Web Server > Performance > Dynamic Content Compression

Linux operating system

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

Minimum requirements for the Application Server

Processor	8 physical cores 2.5 GHz+
Memory	8 GB RAM
Hard drive storage	40 GB
operating system	<p>Windows operating system</p> <ul style="list-style-type: none"> • Windows Server 2008 (non-Itanium based 64-bit) Service Pack 2 or later • Windows Server 2008 R2 (non-Itanium based 64-bit) Service Pack 1 or later • Windows Server 2012 • Windows Server 2012 R2 • Windows Server 2016 <p>Linux operating 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 4.5.2 or later <ul style="list-style-type: none"> • NOTE: Microsoft .NET Framework version 4.6 is not supported. • Windows Installer

- Microsoft Internet Information Service 7, 7.5, 8, 8.5 or 10 with ASP.NET 4.5.2 and Role Services:
 - Web Server > Common HTTP Features > Static Content
 - Web Server > Common HTTP Features > Default Document
 - Web Server > Application Development > ASP.NET
 - Web Server > Application Development > .NET Extensibility
 - Web Server > Application Development > ISAPI Extensions
 - Web Server > Application Development > ISAPI Filters
 - Web Server > Security > Basic Authentication
 - Web Server > Security > Windows Authentication
 - Web Server > Performance > Static Content Compression
 - Web Server > Performance > Dynamic Content Compression

Linux operating system

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

Supported data systems

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

Table 39: Supported data systems

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

Connector	Supported data systems
Generic LDAP connector	Any LDAP directory server conforming to version 3. NOTE: Other schema and provisioning process adjustments can be made depending on the schema.
Web service connector	Any SOAP web service providing wsdl. 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.
Microsoft Exchange connector	<ul style="list-style-type: none"> • Microsoft Exchange 2010 Service Pack 3 or later • Microsoft Exchange 2013 Service Pack 1 or later • Microsoft Exchange 2016
SharePoint connector	<ul style="list-style-type: none"> • SharePoint 2010 • SharePoint 2013
SAP R/3 connector	<ul style="list-style-type: none"> • SAP Web Application Server 6.40 • SAP NetWeaver Application Server 7.00, 7.01, 7.02, 7.10, 7.11, 7.20, 7.31, 7.40 SR 2, 7.41, 7.50 • SAP S/4HANA On-Premise-Edition
Unix connector	Supports the most common Unix and Linux derivatives. For more 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
Mainframe connector	<ul style="list-style-type: none"> • RACF • IBM i

Connector	Supported data systems
	<ul style="list-style-type: none"> CA Top Secret CA ACF2
Windows PowerShell connector	<ul style="list-style-type: none"> Windows PowerShell version 3 or later
Active Roles connector	<ul style="list-style-type: none"> Active Roles 6.9 Active Roles 7.0
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

Product licensing

This product does not require licensing.

Upgrade and installation instructions

NOTE: To install One Identity Manager 7.1.3 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*.

To update an existing One Identity Manager installation to version 7.1.3

1. Update the administrative workstation, on which the One Identity Manager database schema update is started.
 - a. Execute the file Autorun.exe from the root directory of the One Identity Manager installation medium.
 - b. Change to the **Installation** tab. Select the edition you have installed and click **Install**.

This starts the installation wizard.

- c. Follow the installation instructions.

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

2. Stop the One Identity Manager Service on the server, which processes direct database queries.
3. Make a backup of the One Identity Manager database.
4. Run the One Identity Manager database schema update.
 - Start the Configuration Wizard on the administrative workstation and follow the instructions.

5. Update the One Identity Manager Service on the server, which processes direct database queries.

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

This starts the installation wizard.

- c. Follow the installation instructions.

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

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

6. Start the One Identity Manager Service on the server, which processes direct database queries.

7. Update other installations on workstations and servers.

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

8. 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.

For more information, see [Apply Patches to Synchronization Projects](#) on page 42.

To update an application server to version 7.1.3

- 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 7.1.3

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

To update the Manager web application to version 7.1.3

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

Apply 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 necessary improvements for the synchronization project.
2. Check whether conflict 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.

To apply patches

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

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:

- [Synchronization template modifications](#) on page 23
- [Patches for synchronization projects](#) on page 24

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 2016.0010.0001.0300 for all modules and the application version 7.1 2016-10-01-218 indicate that this version is installed.

This patch updates all files that shipped with One Identity Manager 7.1.

Additional resources

Additional information are available in:

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

Globalization

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

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

The release is localized in the following languages: German

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

About us

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

Contacting us

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

Technical support resources

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

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

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

Copyright 2018 One Identity LLC.

ALL RIGHTS RESERVED.

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

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

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

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

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




Patents

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

Trademarks

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

Legend

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