

UCS 3.0-1 Release Notes



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1 Release highlights

With Univention Corporate Server 3.0-1, the first point release for Univention Corporate Server (UCS) is now available. It provides several improvements and bugfixes:

- The Samba 4 integration has been improved. The management of users and computers with the Active Directory tool is now possible on all Samba 4 domain controllers. The performance of the Univention S4 Connector and the Univention AD Connector has been improved.
- The Debian Squeeze point update 6.0.4 has been integrated, providing many important bugfixes. The Linux kernel package is now based on the long-term kernel 2.6.32.54 and provides support for the Intel C600 Series Chipset SAS controller.
- The appliance mode of Univention System Setup has been improved, allowing more flexible deployment of UCS in virtualised setups and cloud environments.
- In addition to the standard Grub 2 configuration, the configuration for Grub 1 is now automatically generated. This eases the installation of UCS in Xen-based cloud environments, which use old versions of PyGrub (e.g. Amazon EC2).
- The license management was changed to ease the deployment of the UCS directory service as an LDAP address book for groupware solutions: Users, which only have the options **Mail account** and **Personal information** no longer need to be licensed.
- The update module now supports the installation of errata updates for components.
- The tool `umc-create-module` eases the development of UMC modules.

1 Release highlights

2 Recommended update order for environments with more than one UCS server / Updating systems with UCS components

In environments with more than one UCS system, the update order of the UCS systems must be borne in mind:

The authoritative version of the LDAP directory service is maintained on the master domain controller and replicated on all the remaining LDAP servers of the UCS domain. As changes to the LDAP schemes can occur during release updates (see Chapter 3.4.1 of the UCS manual [1]), the master domain controller must always be the first system to be updated during a release update.

It is generally advisable to update all UCS systems in one maintenance window whenever possible.

2.1 Information on environments with other third-party software

When using third-party software it should generally be clarified with the manufacturer/reseller **before** the update whether it can still be used without restrictions with the latest version of Univention Corporate Server.

The manufacturers/resellers of products based on Univention Corporate Server are responsible for the publication themselves. Updates must thus be procured from them.

If you were provided with modified package versions by Univention, you must check whether the update will overwrite the coordinated packages - preferably in a test environment. If you identify any problems here, please contact Univention.

2 Recommended update order for environments with more than one UCS server / Updating systems with UCS components

3 Preparation of update

It must be checked whether sufficient disk space is available. A standard installation requires a minimum of 6 GB of memory. Depending on the scope of the existing installation, the update will require at least another 1 GB of memory for the downloading and installation of the packages.

For the update, a login should be performed on the console with the **root** user and then the update started there.

Remote updating via SSH is not recommended as this may result in the update procedure being cancelled if the network connection is interrupted, for example, and this can affect the system. If updating should occur over a network connection nevertheless, it must be verified that the update continues despite disconnection from the network. This can be done, for example, using the tools `screen` and `at`, which are installed on all system roles.

3 Preparation of update

4 Postprocessing of the update

Following the update, the command `univention-run-join-scripts` should be run as the user **root** and the UCS system restarted.

4.1 Migration to Grub 2

In a new installation, the Univention Installer writes Grub 2 in the boot sector directly.

In an update, Grub 1 remains installed in the master boot record (MBR). Grub 2 sets up a “Chainload into Grub” entry, which then loads the actual Grub 2.

Documentation explaining how to write Grub 2 directly in the MBR on updated systems will be provided at a later date ([Bug #23544](#)).

4.2 Restrictions in Samba 4 operation

The versions of Samba 4 currently published by the Samba project are undergoing more intensive changes in their further development than Samba 3. For this reason, some functions are not yet completely available:

- Microsoft Windows domain controllers cannot be joined in a Samba 4 domain currently.
- Selective replication is not possible with Samba 4 as this is not supported by Active Directory in principle.
- File and print services should be provided in a Samba 4 environment via the use of member servers and thus on the basis of Samba 3.
- Samba 4 does not currently support forest domains.
- Samba 4 does not currently support trust relationships.

Further information can be found in Chapter 8 of the UCS manual [1].

4.3 Migration of a Samba 3 environment to Samba 4

There are two basic procedures for migrating Samba 3 to Samba 4:

- Setup of a parallel Samba 4 domain. Both domains use different NetBIOS names and SIDs. The clients then join the Samba 4 step by step.
- Migration of all systems within one maintenance window.

Both procedures are documented in detail in the Univention Wiki: http://wiki.univention.de/index.php?title=Update_to_UCS_3.0_Samba_4.

4 Postprocessing of the update

4.4 Use of opportunistic TLS for authentication on mail relays

The Postfix integration packages by default now use opportunistic TLS for authentication when sending mail. The behaviour from UCS 3.0-0 can be restored by setting the Univention Configuration Registry variable `mail/postfix/tls/client/level` to ***none***.

5 Further notes on selected packages

5.1 Scope of security support for Webkit, Konqueror und QtWebKit

Webkit, Konqueror and QtWebKit are shipped in the maintained branch of the UCS repository, but not covered with security support. Webkit is primarily used for displaying HTML help pages etc. Firefox should be used as the web browser.

5.2 Recommended browsers for the access to the Univention Management Console

Univention Management Console uses numerous Javascript and CSS functions to display the web interface. Cookies need to be permitted in the browser. The following browsers are recommended:

- Chrome as of version 14
- Firefox as of version 7
- Internet Explorer as of version 8
- Safari (on the iPad 2)

Users with older browsers may experience display or performance problems. The installation of a current Firefox version on UCS 3.1 is documented in the Univention Wiki [\[2\]](#).

5 Further notes on selected packages

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6.1 General

- The Debian Squeeze 6.0.4 point update has been integrated. It provides many bugfixes ([Bug #25673](#)).
- The errata updates 1-29 for UCS 3.0 have been integrated ([Bug #25832](#)).

6.2 Basic system services

6.2.1 Boot loader

- Add a new Univention Configuration Registry variable `grub/generate-menu-1st` (set by default), which generates a `/boot/grub/menu.1st` in the Grub 1 format. This is needed to boot virtualised Xen UCS instances on Xen installation with an old PyGrub. Existing `/boot/grub/menu.1st` files, which do not contain the string ***auto-generated through univention-grub-generate-menu-1st*** are not modified (usually present from updated systems using chainloading). `grub2` has been patched to regenerate the `menu.1st` when running `grub-update` ([Bug #25981](#)).

6.2.2 Linux kernel and firmware packages

- The Linux kernel package has been updated to the 2.6.32-41 from Debian Squeeze 6.0.4. Among many bugfixes (the new kernel is based on long-term kernel 2.6.32.54), this update introduces a backport for the iSCSI driver. This update also fixes several security vulnerabilities: ([Bug #25908](#))
 - Local information Disclosure in the TPM driver (CVE-2011-1161, CVE-2011-1162)
 - Local information disclosure in `/proc/taskstats` (CVE-2011-2494)
 - Local denial of service in the HFS filesystem (CVE-2011-2203)
 - The IP fragmentation on IPv6 was partly predictable (CVE-2011-2699)
 - Memory Corruption in the XFS filesystem (CVE-2011-4077)
 - Local denial of service in the ext3/ext4 journaling code (CVE-2011-4132)
 - NULL pointer dereferences in the crypto key management (CVE-2011-4110)
 - Denial of service in the UDP fragmentation offload code for IPv6 (CVE-2011-4326)
 - Buffer overflow in parsing HFS partitions (CVE-2011-4330)
 - Missing access checks in the SG_IO ioctl (CVE-2011-4127)
 - Denial of Service in KVM (CVE-2011-4622)
 - Heap overflow in the XFS filesystem (CVE-2012-0038)
 - Integer overflow in the DRM code (CVE-2012-0044)

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- Buffer overflow in ROSE (CVE-2011-4914)
- An ext4 file system corruption has been fixed when using asynchronous IO on sparse files ([Bug #26192](#)).
- The i686-optimised version of glibc is now installed on all i686-based systems ([Bug #25303](#)).

6.2.3 Univention Configuration Registry

6.2.3.1 Internal changes

- The permissions of the `config-registry.repllog` log file will now be set to 0640 ([Bug #25206](#)).

6.2.4 Network interface configuration

- The NTP daemon is now correctly restarted when reconfiguring the interface ([Bug #25785](#)).

6.2.5 Univention System Setup

- Added a close button to the basic settings dialogue and improve several buttons ([Bug #24928](#)).
- The list of available software packages is now translated and a typo has been fixed ([Bug #24819](#)).
- The warning message that appears when changing SSL certificate settings has been extended with a link to the Univention Support Database containing detailed information about updating certificate settings ([Bug #25350](#)).
- When the connection to the system fails while applying changes a link to the new IP address is shown ([Bug #24425](#)).
- A progress bar is now displayed when changes are applied ([Bug #24399](#)).
- dc components (instead of cn) are now suggested when generating the LDAP base ([Bug #25731](#)).
- Multiple IPv6 addresses can now be configured ([Bug #25080](#)).
- The specified LDAP base is now correctly applied, a previous error has been corrected ([Bug #25484](#)).

6.2.6 Univention System Setup Appliance mode

- The handling of the **Back** button on the software page has been corrected ([Bug #25481](#)).
- The UMC session will use the language settings based on the default locale of the system ([Bug #25092](#)).
- An information page about the configuration process is now displayed. This page can be customized via UCR variable `system/setup/boot/help` ([Bug #24398](#)).
- The UCR variables `kerberos/realm` and `mail/alias/root` are now set ([Bug #25682](#)).
- On master domain controller systems the field for the domain nameserver is hidden and set to the external nameserver if given ([Bug #25738](#)).
- If the system has not been joined yet, the switch to a different system role is offered ([Bug #25980](#)).
- The package *univention-system-setup-appliance* has been replaced by *univention-system-setup-boot* ([Bug #26057](#)).

6.2.7 Univention Firewall

- Univention firewall rules have been adjusted to allow replies to Netbios broadcasts needed for windows trust relations ([Bug #25243](#)).

6.3 Domain services

6.3.1 Listener/Notifier domain replication

- A bug in the handling of binary attribute values has been fixed ([Bug #25858](#)).
- If an object has been renamed with `modrdn`, the old object will be removed from the listener cache ([Bug #26069](#)).
- The ***univention-directory-listener*** now performs the checks for `listener/memberuid/skip` and `listener/unique/member/skip` only if activated ([Bug #25958](#)).

6.3.2 Domain joins of UCS systems

- A problem during the join process that was caused by specific umasks has been corrected ([Bug #21587](#)).
- ***univention-join*** now uses ***ldapsearch-wrapper*** to support a user join DN with more than 74 characters ([Bug #26019](#)).

6.3.3 Univention Backup2Master

- The priority for the ldap and kerberos DNS service records is now set to 100 instead of 0 ([Bug #24935](#)).
- The S4 Connector is now reconfigured if the S4 connector was used on the old master domain controller ([Bug #25398](#)).
- The tool ***univention-backup2master*** will now check for the local server role and ask before starting the reconfiguration ([Bug #26048](#)).

6.4 Univention Management Console

6.4.1 Univention Management Console web interface

- The URLs for the manual and the additional documentation have been localized ([Bug #25426](#)).
- The internal mechanism for handling timeouts has been adapted in order to avoid problems when the system time is being changed (e.g., via `rdate` [Bug #24943](#)).
- Long-polling requests are now paused as soon as the login dialogue is shown, and they are restarted upon successful login ([Bug #25108](#)).
- The layout of input fields for Safari on iPad has been adapted ([Bug #25325](#)).
- Internet Explorer can now detect the end of a session ([Bug #25036](#)).

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- A notice will be displayed on the overview page if updates are available or the system needs to reboot ([Bug #24999](#))
- The UMC help text has been updated ([Bug #25294](#))
- The buttons are now labeled with the object type when creating an object, e.g. **Create user** instead of **Save changes** ([Bug #25797](#))
- The error handler detects tracebacks and displays them in an expendable panel. There is also a feedback link to send a mail to Univention with detailed information about the error ([Bug #25675](#)).
- Improved the visibility of error message on failed authentications ([Bug #25249](#)).
- The login dialogue is no longer animated. Web browsers are now able to save the credentials for the login dialogue. This works for all browsers (Firefox, Chrome, IE8/9) except the iPad. Warnings are displayed when logging in over plain HTTP and if Javascript is disabled in the browser ([Bug #25020](#), [Bug #23654](#), [Bug #24627](#), [Bug #23850](#)).
- The UCR variables for auto search (**`directory/manager/web/modules/autosearch`** and **`directory/-manager/web/modules/MODULENAME/search/autosearch`**) are evaluated again ([Bug #25250](#)).
- Do not cache settings for default groups and default object containers. This allows for example to use newly created defaults containers directly within the same UMC session ([Bug #25147](#)).
- The grid widget in the navigation module can now be used to walk through the LDAP directory like in any file browser. This provides for devices like the iPad (without a right mouse button) the possibility to edit or remove containers ([Bug #25218](#)).
- Shared subnet objects can now be created with the DHCP wizard ([Bug #25387](#)).

6.4.2 Univention Management Console server

- Increase stability of the UMC server when receiving invalid messages and when sockets are closed by the client unexpectedly ([Bug #25231](#), [Bug #25237](#))
- The UMC web server port is now configurable by the new UCR variable `umc/http/port` UCR variable. The default value is set to 8090 ([Bug #25406](#)).
- The development package **`univention-management-console-dev`** now contains the tool **`umc-create-module`** that is able to generate new, empty UMC modules automatically. This tool eases the development of UMC modules ([Bug #23876](#)).
- An XML file with category description may now have a separate i18n domain ([Bug #25998](#))
- The process environment of the UMC server and its child process is now reset ([Bug #24197](#)).

6.4.3 Univention Directory Manager modules

- The `univention-object-type-migrate` tool does not show warnings for obsolete pre-UCS 3.0 objects. Warnings are also suppressed for TCS objects but can be shown with the parameter **`-verbose`**. Duplicate matches are now correctly detected ([Bug #25450](#)).
- The detection of LDAP object types that do not contain an attribute `univentionObjectType` has been corrected ([Bug #25409](#)).
- A search request for UDM objects when using superordinate objects is limited to objects below the superordinate object itself ([Bug #25205](#)).

- An error when removing user or group ACLs from **mail/folder** objects has been corrected ([Bug #25407](#)).
- When removing group members the matching for the `memberUid` attribute is now case-insensitive ([Bug #25838](#)).
- Removing all host entries from a **nagios/service** object is now possible ([Bug #25403](#)).
- The syntax for the `ldapservers` policy has been changed to **DomainController** ([Bug #25594](#)).
- A syntax bug has been fixed that caused an assignment of a home share to a user object on any change to the user object ([Bug #26098](#)).

6.4.3.1 User/template module

- Fixed the layout description ([Bug #25312](#)).

6.4.3.2 User module

- A user with only the object classes **mail** and **personallinformation** will no longer be accounted to the license ([Bug #26047](#)).
- Fixed a bug when creating a user only with the **pki** option ([Bug #24851](#)).
- The attribute **sambaPwdMustChange** is no longer used in the UDM modules. We recommend to remove the attribute with the following tool:
`/usr/share/univention-directory-manager-tools/remove_sambapwdlastset` ([Bug #13199](#)).

6.4.3.3 DNS module

- The syntax of **dns/forward_zone** has been changed to only allow valid DNS names ([Bug #19557](#)).
- A dot is automatically appended to the **nameserver** attribute of **dns/reverse_zone** entries ([Bug #19557](#)).
- The **dns/forward_zone** and **dns/reverse_zone** code has been improved for stricter syntax checking ([Bug #19557](#)).

6.4.3.4 Computers module

- An error which occurred when removing DHCP entries from computer objects has been corrected ([Bug #25124](#)).
- It is now possible to enter common formats for the MAC address when creating or editing computer objects ([Bug #25463](#), [Bug #25203](#)).
- All MAC addresses can now be removed from a computer object ([Bug #26079](#)).
- The identify function of managed clients will no longer identify **ipmanagedclient** objects ([Bug #25488](#)).
- An error which occurred when modifying the network attribute of computer objects on the command line has been corrected ([Bug #25173](#)).

6.5 Software deployment

6.5.1 Software deployment modules of Univention Management Console

- Prevent the restart of the UMC server and Apache during updates ([Bug #25271](#)).
- Missing scrollbars in the updates overview and settings pages were added ([Bug #25779](#)).
- Polling of logfiles was optimized to only poll new content instead of the whole logfile ([Bug #25068](#)).
- When changing repository display a notification if the server was not found or does not contain a repository ([Bug #24878](#)).
- The UMC module now displays if further release updates are available but cannot be installed due to a required component that is not available for newer release versions ([Bug #25513](#)).
- The scripts `enable-apache2-umc` and `disable-apache2-umc` have been adapted to make sure that executable rights are correctly added/removed even for a changed umask. The UMC updater module uses now internally these scripts to ensure that UMC server and web server are not restarted during updates ([Bug #25810](#)).

6.5.2 Repository handling

- The UCR variable `repository/online/errata/start` is introduced to control the first errata version to include in the generated apt source file. All errata updates are mirrored when operating a local repository ([Bug #25616](#)).
- To prevent an infinite loop with broken proxy servers the major, minor, patchlevel and deprecated security update versions are limited to 99, while the errata level is limited to 999 ([Bug #25619](#)).
- Link maintained with unmaintained version numbers ([Bug #25865](#)).
- The comparison of errata levels was corrected ([Bug #25779](#)).
- `apt-get update` is now executed after modifying repositories or components ([Bug #25332](#)).
- Errata updates for components are now supported ([Bug #24347](#)).
- The update scripts have been adjusted to UCS 3.0-1 ([Bug #26157](#), [Bug #26298](#)).

6.5.3 Local repository management

- A trailing newline was added to the output of `univention-repository-update` ([Bug #25495](#)).
- A bug was fixed in `univention-repository-update` when updating from a CD-ROM ([Bug #25496](#)).
- Several bugs were fixed in `univention-repository-create` when symbolic links were created ([Bug #25508](#)).

6.5.4 Software deployment command line tools

- A spelling mistake has been fixed in the help output of `univention-upgrade` ([Bug #26164](#)).
- Two wrong paths to programs called by an internal updater script have been fixed ([Bug #26165](#)).
- A stall was fixed in the APT tools when downloading many packages ([Bug #25546](#)).

6.6 System services

6.6.1 DHCP

- The DHCP service does not crash anymore when linking empty DHCP DNS policies ([Bug #25939](#)).

6.6.2 Cyrus

- User mailboxes are now automatically renamed if the UCR variable `mail/cyrus/mailbox/rename` is **true** and the `mailHomeServer` has changed ([Bug #25314](#)).

6.6.3 Postfix

- Mail quota support will now be activated by default and can be deactivated by setting the UCR variable `mail/cyrus/imap/quota` to **no**. Additionally the automatic quota policy evaluation during POP/IMAP login has not been working. This bug has been fixed ([Bug #25419](#)).
- The new UCR variable `mail/postfix/tls/client/level` has been introduced to manage the default SMTP TLS security level for the Postfix SMTP client. The default for the UCR variable `mail/postfix/tls/client/level` is **may** and therefore Postfix now tries a TLS connection if possible. To restore the old behavior set the UCR variable `mail/postfix/tls/client/level` to **none** ([Bug #25337](#)).
- A bug in the evaluation of the Postfix lookup tables has been fixed, which led to an incomplete LDAP configuration if `univention-mail-server` was not installed ([Bug #25836](#)).

6.6.4 Printing services

- **`univention-printserver-pdf`** now sets the proper permissions for the CUPS PDF backend ([Bug #25371](#)).
- **`cups-pdf`** no longer creates a pdf printer during installation ([Bug #25005](#)).

6.6.5 Kerberos

- The **`salt_krb5Keys`** now copes with missing Kerberos keys ([Bug #26099](#)).

6.6.6 Proxy services

- Squid is now build with SSL support ([Bug #18756](#)).
- Kerberos authentication against Squid proxies run in Samba 4 domains can be enabled by setting `squid/krb5auth` to **yes**. It is advisable to run **`univention-run-join-scripts`** once after the update to ensure that the necessary HTTP proxy service account is created ([Bug #24277](#)).
- Options for a **`cache_peer`** connection can now be configured with the UCR variable `squid/parent/options` ([Bug #25806](#)).

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- The authorization on the basis of group membership can be disabled with `squid/auth/groups` regardless of the authentication method ([Bug #25806](#)).
- The UCR variable `squid/redirect` allows to use Squidguard as a `url_rewrite_program` ([Bug #25806](#)).
- The Squid authentication helpers `squid_ldap_auth` and `squid_ldap_group` now use the port from `ldap/server/port` to connect to the LDAP server ([Bug #25895](#)).

6.6.7 Nagios

- The nagios service **UNIVENTION_NTP** is now applied only to domain controllers ([Bug #25128](#)).
- **univention-nagios-squid** now uses the correct Squid configuration file ([Bug #25283](#)).
- **univention-nagios-libvirt-d-xen** now uses a local connection to libvirtd ([Bug #25125](#)).

6.6.8 Other services

- In **univention-postgresql** a hook script for machine password changes was added ([Bug #25085](#)).
- **univention-fetchmail** can now also be used on non-master systems, but only once in the UCS domain ([Bug #25629](#)).
- The **time** service is now also provided via IPv6 ([Bug #25456](#)).
- The new UCR variable `ntp/signed` offers the option to configure the **time** service (NTP) to issue signed NTP packages ([Bug #24953](#)).

6.7 Virtualisation

6.7.1 libvirt

- Xen implements a different real time clock (RTC) behaviour since Xen-3.1 for HV domains, which went unnoticed by libvirt. Both libvirt and UVMM have been patched to support the `offset='variable'` mode, which allows the guest operating system to manage RTC changes themselves (for example: RTC running in local time including doing daylight saving changes) ([Bug #16554](#)).

6.7.2 Univention Virtual Machine Manager

- Fixed a typo displaying the number of snapshots to be deleted ([Bug #25057](#)).

6.8 Services for Windows

6.8.1 Samba 3

- A bug in Samba 3 has been fixed which prevented saving downloaded files from Internet Explorer 9 to a Samba 3 fileserver ([Bug #23808](#)).

- The maximum number of open files in Samba 3 can now be configured. This configuration parameter has been made configurable by the new UCR variable `samba/max_open_files` with an increased default value of 32808 ([Bug #24165](#)).

6.8.2 Samba 4

- DRS replication in IPv6-only domains has been fixed ([Bug #25364](#), [Bug #26136](#)).
- Now all Samba domain controllers allow remote management of users and computers with the Active Directory tool and show a uniform Active Directory behaviour version ([Bug #25345](#)).
- Groups without a description are now migrated during the Samba 3 to Samba 4 update ([Bug #26090](#)).
- A bug in the Samba 4 file and print services resulting in wrong printer driver paths has been fixed ([Bug #24832](#)).
- The possibility of schema updates is now disabled by default to protect Samba 4 domain controllers from denial of service attacks due to injection of invalid schema data. The new UCR variable `samba4/schema/update/allowed` can be set to **yes** temporarily for schema updates ([Bug #24630](#)). A restart of the Samba 4 process is necessary to let the configuration change take effect.
- Samba 4 now allows NT hash values in older keys sections of the **supplementalCredential Attribute** ([Bug #25972](#)).
- Error reporting in `univention-s4search` has been improved ([Bug #26016](#)).
- Allow DRS client service and DRSUAPI server endpoint deactivation ([Bug #25989](#)).
- The Univention Configuration Registry template `95univention-samba_local_config` was removed from the package **univention-samba4**. It is included in **univention-samba-local-config**, which now is installed automatically as a dependency of **univention-samba4** ([Bug #25978](#)).
- Support for SID modification over the restricted LDAP interface has been added ([Bug #26051](#)).
- A denial of service vulnerability in connection handling was fixed (CVE-2012-0817) ([Bug #26008](#)).
- During Samba 4 domain join the current machine password stored in `/etc/machine.secret` is now set directly also in the Samba 4 directory. This simplifies searching the Samba 4 directory using the machine account as well as obtaining a Kerberos ticket for the machine ([Bug #24989](#)).
- A bug in the DNS-Setup Scripts for Samba 4 has been fixed to support DNS-domains with more than one dot ([Bug #26285](#)).
- The debugging tool **s4search-decode** now supports supplementalCredentials ([Bug #24846](#)).

6.8.3 Univention S4 Connector

- The Samba 4 attribute **homeDirectory** will now be synchronized with the UCS attribute **samba-HomePath** ([Bug #25823](#)).
- The S4 Connector now creates new UCS objects in AD even if the object will be modified later ([Bug #25847](#)).
- Binary attributes are no longer decoded ([Bug #25191](#)).
- The internal configuration file (`s4internal.cfg`) has been converted to SQLite ([Bug #13045](#)).

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- Invalid Kerberos keys in **supplementalCredentials** are now ignored ([Bug #24779](#)).
- The performance of the group synchronisation has been improved ([Bug #25709](#)).
- Paged results are retrieved from the Samba 4 LDAP server ([Bug #25975](#)).
- The S4 Connector can be configured to use a different UCS LDAP server and different credentials for the UCS LDAP server (`connector/ldap/server`, `connector/ldap/binddn` and `connector/ldap/bindpw`). All write operations will be refer to the LDAP master ([Bug #25985](#), [Bug #25986](#)).
- Two UCR variables have been added to configure the SID mapping between Samba 4 and UCS. With `connector/s4/mapping/sid_to_ucs` can be configured if the SID will be written from Samba 4 to UCS (default is true) and with `connector/s4/mapping/sid_to_s4` can be configured if the SID will be written from UCS to Samba 4 (default is false) ([Bug #26005](#)).
- A position mapping for windows computers and domain controllers has been added ([Bug #26121](#)).
- A tool **univention-s4-position-sync** is provided, which can be used after an in-place update from Samba 3 to Samba 4 to check and sync the positions of objects in the Samba directory service according to the positions in the LDAP directory ([Bug #26120](#)).

6.8.4 Univention Active Directory Connector

- The Active Directory connector now creates new UCS objects in AD even if the object will be modified later ([Bug #25847](#)).
- Binary attributes are no longer decoded ([Bug #25191](#)).
- The internal configuration file (`s4internal.cfg`) has been converted to Sqlite ([Bug #13045](#)).
- The performance of the group synchronisation has been improved ([Bug #25709](#)).
- The AD Connector can be configured to use a different UCS LDAP server and different credentials for the UCS LDAP server (`connector/ldap/server`, `connector/ldap/binddn` and `connector/ldap/bindpw`). All write operations will be refer to the LDAP master ([Bug #25985](#), [Bug #25986](#)).

6.9 Other changes

- More error cases are now handled by **univention-debug**, which previously might have crashed an application. The Python binding was also extended to include several new function ([Bug #24173](#), [Bug #25355](#)).
- The **server** entries in `/etc/ntp.conf` file has been corrected ([Bug #25715](#)).
- **php-horde-turba** has been updated to version 3.0.10 ([Bug #25378](#)).
- **libgmime2.4-cil**, **mysql-server** and **ifenslave-2.6** have been added to the maintained section of the repository ([Bug #25567](#), [Bug #25945](#) and [Bug #26169](#)).
- The Univention Directory Policy script `nfsmounts` now checks the size of the new `/etc/fstab` file before renaming it ([Bug #23513](#)).
- **univention.lib.policy_result** now uses the host account or the passed credentials as arguments for **univention-policy-result** ([Bug #25910](#)).

- A referral handling has been added in ***univention.python.ldap*** ([Bug #9139](#)).
- The listener modules in the packages ***univention-samba***, ***univention-samba4*** and ***univention-nfs*** now can optionally rename the share path, instead of creating a new directory, if it is changed via UDM. This can be enabled on the fileserver by setting the UCR variable `listener/shares/rename` to **yes**. After changing `listener/shares/rename` a restart of the ***univention-directory-listener*** is required ([Bug #26025](#)).
- A bug in the PAM configuration, leading to repeated password entry when changing passwords, has been fixed ([Bug #25898](#)).
- ***univention-java*** now depends on `ia32-libs-gtk` on amd64 ([Bug #25673](#)).

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