

UCS 3.1-1 Release Notes



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1 Release highlights

With Univention Corporate Server 3.1-1, the first point release for Univention Corporate Server (UCS) 3.1 is now available. It provides several improvements and bugfixes:

- The Univention App Center has been extensively improved.
- Several improvements have been made to the web proxy support (based on Squid and Dansguardian)
- The usability of UMC on mobile devices (especially tablets) has been improved
- Samba 4 has been updated to Version 4.0.3
- The Linux kernel has been updated to 3.2.39, which includes a range of bug fixes and improved hardware support.
- The Debian Squeeze update 6.0.7 has been integrated.

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 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.

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. Alternatively, the update can be initiated using the Univention Management Console.

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.

4 Postprocessing of the update

Following the update, new or updated join scripts need to be executed. This can be done in two ways: Either using the UMC module **Domain join** or by running the command `univention-run-join-scripts` as the user **root**.

Subsequently the UCS system should be restarted.

4.1 Migration to Grub 2

Starting with UCS 3.0, 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 Migration of PostgreSQL 8.3 to PostgreSQL 8.4

As of UCS 3.0, PostgreSQL 8.4 is also available in addition to PostgreSQL 8.3. When systems with PostgreSQL 8.3 are updated to UCS 3.0, however, the installed PostgreSQL version is retained.

The update to PostgreSQL 8.4 is described in the SDB article <http://sdb.univention.de/1220>.

4.3 Updating the database schemas of the Horde web mailer

After the update the database schemas of the Horde webmailer should be updated in the Horde administration interface. For that a login using a Horde administrator - i.e. a user, whose email address is specified in the Univention Configuration Registry variable `horde/auth/admins` - must be performed.

After logging in, it must be navigated to the URL <http://IPADDRESS/horde4/admin/config> and the option **Update all DB schemas** needs to be selected.

5 Further notes on selected packages

5.1 Collection of usage statistics when using the free-for-personal-use version

Anonymous usage statistics on the use of the Univention Management Console are collected when using the **free for personal use** version of UCS (which is generally used for evaluating UCS). The modules opened are logged in an instance of the web traffic analysis tool Piwik. This makes it possible for Univention to tailor the development of the Univention Management Console better to customer needs and carry out usability improvements.

This logging is only performed when the free-for-personal-use license is used. The license status can be verified by clicking on the cog symbol in the top righthand corner of the Univention Management Console and selecting **License**. If **Free for personal use edition** is listed under **LDAP base**, this version is in use. When a regular UCS license is used, no usage statistics are collected.

Indendepend of the licence used, the statistics generation can be deactivated by setting the Univention Configuration Registry variable `umc/web/piwik` to **false**.

5.2 Bootproblems when using the UEFI installation DVD

As of UCS 3.1, in addition to the standard installation DVD there is also a medium with support for the Unified Extensible Firmware Interface standard (UEFI) available for the amd64 architecture.

It can be used instead of the standard DVD on systems which only support a UEFI boot.

5.3 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.

5.4 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 10
- Internet Explorer as of version 9

5 Further notes on selected packages

- 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].

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5.5 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 (in UCS@school selective replication is implemented through the listener/notifier replication mechanism).
- 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].

5.6 Installation in VirtualBox

During the installation of UCS in the virtualization solution VirtualBox, a bug may appear which has been corrected in version 4.2: if UCS has been successfully installed and the DVD is still in the disk drive, the installation DVD offers the option **Boot from first harddisk partition**. If you select this option, VirtualBox freezes.

For Linux distributions which still use Virtualbox 4.0 or 4.1, either the installation DVD can be taken out of the drive settings of the VirtualBox VM or F12 pressed when starting the virtual instance and the hard drive selected as a boot partition as a workaround before starting the UCS VM. UCS will then start successfully.

5.7 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=Migration_from_Samba_3_to_Samba_4.

5.8 Xen

If the Xen hypervisor is used and the memory limit for the Dom0 has been configured using the Univention Configuration Registry-Variable `grub/xenhopt`, the value should be updated to include the `,max:` part as well. See the [UVMM Quickstart guide](#) for further details.

6 Changelog

Listed are the changes since UCS 3.1-0.

6.1 General

- The Debian Squeeze 6.0.7 point update has been integrated. It provides many bugfixes ([Bug #30438](#)). The update also fixes some security issues:
 - dbus-glib ([CVE-2013-0292](#)) ([Bug #30496](#))
 - nss ([CVE-2013-0743](#)) ([Bug #29939](#))
 - elinks ([CVE-2012-4545](#)) ([Bug #29186](#))
 - exim4 ([CVE-2012-5671](#)) ([Bug #29182](#))
 - emacs23 ([CVE-2012-3479](#)) ([Bug #29146](#))
 - gnupg2 ([CVE-2012-6085](#)) ([Bug #29928](#))
 - bacula ([CVE-2012-4430](#)) ([Bug #29170](#))
 - openssh ([CVE-2010-5107](#), [CVE-2011-5000](#)) ([Bug #29137](#))
 - tiff ([CVE-2012-4564](#), [CVE-2012-5581](#)) ([Bug #29187](#))
 - libproxy ([CVE-2012-4505](#), [CVE-2012-5580](#)) ([Bug #29178](#))
 - postgresql-8.4 ([CVE-2013-0255](#)) ([Bug #30372](#))
 - libssh ([CVE-2012-4559](#), [CVE-2012-4561](#), [CVE-2012-4562](#), [CVE-2012-6063](#), [CVE-2013-0176](#)) ([Bug #29348](#))
 - dbus ([CVE-2012-3524](#)) ([Bug #29176](#))
 - proftpd-dfsg ([CVE-2012-6095](#)) ([Bug #30073](#))
 - ffmpeg ([CVE-2012-0858](#), [CVE-2012-2777](#), [CVE-2012-2801](#), [CVE-2012-2783](#), [CVE-2012-2784](#), [CVE-2012-2788](#), [CVE-2012-2803](#)) ([Bug #29153](#))
 - perl ([CVE-2012-5195](#), [CVE-2012-5526](#), [CVE-2012-6329](#)) ([Bug #29180](#))
 - wireshark ([CVE-2013-1582](#), [CVE-2013-1586](#), [CVE-2013-1588](#), [CVE-2012-4296](#), [CVE-2012-4048](#), [CVE-2013-1590](#)) ([Bug #29171](#))
 - gnupg ([CVE-2012-6085](#)) ([Bug #29896](#))
 - nagios3 ([CVE-2011-1523](#), [CVE-2012-6096](#)) ([Bug #29126](#))
 - openssl ([CVE-2013-0166](#), [CVE-2013-0169](#)) ([Bug #30570](#))
 - apache2 ([CVE-2013-1048](#), [CVE-2012-4557](#), [CVE-2012-3499](#), [CVE-2012-4558](#)) ([Bug #29184](#))

- ghostscript ([CVE-2012-4405](#)) ([Bug #29174](#))
- The errata updates issued for UCS 3.1-0 have been integrated ([Bug #30178](#)).
- For UCS 3.1-1 an independent installation DVD is available so that all new installations already include bugfixes from the point and errata updates up to 3.1-1 ([Bug #30506](#)).

6.2 Univention Installer

- The description of some keys has been corrected (this only applies to the English version) ([Bug #30528](#)).

6.3 Upgrade provisions (preup and postup scripts)

- The update scripts *preup.sh* and *postup.sh* have been adjusted to UCS 3.1-1 ([Bug #30622](#), [Bug #30757](#)).
- The preup script now saves the Univention Configuration Registry settings before the actual update ([Bug #19369](#)).
- The filesystem check error message in the preup script has been fixed ([Bug #30100](#)).

6.4 Basic system services

6.4.1 Boot loader

- The bootsplash background will be redrawn when a message is printed. This fix avoids black lines during the boot ([Bug #29768](#)).

6.4.2 Linux kernel and firmware packages

- The Linux kernel and associated tools and firmware packages have been updated to version 3.2.39 ([Bug #30505](#)). The update also fixes a number of security issues ([CVE-2012-0957](#), [CVE-2012-4398](#), [CVE-2012-4461](#), [CVE-2012-4508](#), [CVE-2012-4530](#), [CVE-2012-4565](#), [CVE-2013-0190](#), [CVE-2013-0216](#), [CVE-2013-0217](#), [CVE-2013-0228](#), [CVE-2013-0871](#)) and an issue with cloud instances ([Bug #29124](#), [Bug #30369](#)).
- The following packages have been backported to UCS 3.1-1 to provide support with Linux 3.2 kernels ([Bug #28978](#), [Bug #30643](#)):
 - Virtualbox 4.1.18
 - OpenAFS 1.6.1
 - iscsitarget 1.4.20.2-10
 - ndiswrapper 1.57-1
 - tp-smapi 0.41

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- kbuild 0.1.9998
- scsitools 0.12-2.1
- A dependency to **univention-kernel-headers** has been added to the package **dkms** ([Bug #30785](#)).

6.4.3 Univention Configuration Registry

- **config-registry.replug** now also contains the replaced value ([Bug #29855](#)).

6.4.3.1 Internal changes

- Fixed the setting of apt options in the PackageManager class and add a function to mark packages as automatically installed ([Bug #29805](#)). Also the handling of dpkg output through pipes was corrected ([Bug #30370](#)) and dependency problems when installing multiple packages at once are now correctly resolved ([Bug #30279](#)).

6.4.4 Network interface configuration

- The file `resolv.conf` is now recreated if `dhclient` has overwritten the file. On a domain controller the nameserver provided via DHCP is configured as a DNS forwarder ([Bug #29999](#)).

6.4.5 Univention Firewall

- Firewall scripts in `/etc/security/packetfilter.d/` may not contain a `.` in their name, however, they may end on `.sh` ([Bug #29706](#)).
- Packetfilter exceptions have been added for Bacula ([Bug #25392](#)).

6.5 Domain services

- A regression was fixed in `univention-backup2master`, which prevented the transfer of Samba 4 FSMO roles ([Bug #29508](#)). The steps performed are now logged to `/var/log/univention/backup2master.log` ([Bug #29085](#)). If more than one backup domain controller existed in the domain, the forward and reverse lookup zones are now correctly set ([Bug #29242](#)).

6.5.1 OpenLDAP

- The attributes ***aRecord***, ***associatedDomain***, ***employeeNumber***, ***macAddress***, ***name***, ***ou***, ***pTRRecord***, ***relativeDomainName***, ***univentionInventoryNumber***, ***univentionOperatingSystem***, ***univentionSyntaxDescription***, ***univentionUDMPropertyLongDescription*** and ***univentionUDMPropertyShortDescription*** have been added to the recommended ldap substring index ([Bug #29509](#)).

- The handling of additional LDAP servers configured through the Univention Configuration Registry variable `ldap/server/addition` was fixed in **univention-python** (Bug #30436).
- A LDAP schema registration has been added which is still valid even after the package uninstallation (Bug #30596).

6.5.2 Listener/Notifier domain replication

- Fixed a segmentation fault during retrieval of binary attribute values from the cache (Bug #30165).
- If the IP address was changed from DHCP to a fixed IP address in appliance setup mode, the listener and the notifier now correctly use the new address (Bug #30408, Bug #30412).
- The debug level of several messages in the **univention-directory-replication** package related to cache vs LDAP checks has been lowered (Bug #26562, Bug #30521).
- The replication handler is now always run (Bug #29475).

6.5.3 Domain joins of UCS systems

- Various join scripts have been updated to use the library for join scripts (Bug #28993, Bug #29424):
 - `univention-apache`
 - `univention-directory-listener`
 - `univention-directory-notifier`
 - `univention-directory-policy`
 - `univention-heimdal`
- The join script library now tests for the directory `/var/univention-join/joined` instead of a compatibility symlink (Bug #28991).
- **univention-run-join-scripts** no longer prints its header when called with parameters **-dcaccount** and **-dcpwd** (Bug #29432). Also, the redirected file descriptor during join script execution is now correctly closed. Otherwise it is possible that a running Python parent process won't return (Bug #30245).
- **univention-join** now logs if it was started with the option **-disableVersionCheck** (Bug #30492). The new option **-verbose** enables verbose logging of the join process to `/var/log/univention/join.log` (Bug #30154).
- The execution order of the join scripts in `univention-join`, `univention-run-join-scripts` and `univention-check-join-status` has been fixed (Bug #30168).
- `univention-run-join-scripts` has been extended to run specific join scripts with parameter `-run-scripts` and to force the execution of already executed scripts with the parameter `-force` (Bug #30112).
- Support for unjoin scripts has been added (Bug #30596).
- An invalidation of the `nscd` hosts cache has been added to `univention-join` (Bug #30886).

6.6 Univention Management Console

6.6.1 Univention Management Console web interface

- The usability of UMC on mobile devices (especially tablets) has been improved ([Bug #30167](#), [Bug #30749](#), [Bug #29622](#))
- The menu structure has been improved with new icons in the top right corner ([Bug #25753](#)).
- A link for feedback about UCS has been added ([Bug #25753](#)).
- The version of the Dojo toolkit has been updated to 1.8.3. Related JavaScript packages has been updated to their latest release as well ([Bug #30167](#), [Bug #30625](#), [Bug #29210](#)).
- An expired password can now be changed directly in the UMC login dialogue ([Bug #29971](#)).
- Changed the link to the documentation to <http://docs.univention.de> ([Bug #29779](#))
- The items on the start page are now sorted differently ([Bug #26858](#), [Bug #29468](#))
- Properly detect values that are automatically changed when editing an LDAP object ([Bug #29635](#)).
- Icons of older UMC modules are now correctly displayed again ([Bug #29861](#)).
- If logged in as **root**, a note is displayed recommending to log in as the **Administrator** instead ([Bug #26507](#)).
- If the license is exceeded, a note is now displayed in the UMC overview page ([Bug #30355](#)). In addition a warning is shown if join scripts have not been executed or if the system has not been joined so far ([Bug #29489](#)).
- Problems with permanently timed out sessions, especially with Internet Explorer, have been fixed ([Bug #30318](#)).
- Support for anonymous user statistic has been added and can be controlled via Univention Configuration Registry variable `umc/web/piwik` ([Bug #30563](#), [Bug #30574](#), [Bug #30577](#), [Bug #30741](#)).
- The width parameter in the URL query string had been ignored and is now applied to the UMC layout again ([Bug #30664](#)).
- The UMC progressbar widget now uses fewer requests to update the progress information ([Bug #30151](#)).
- The handling of disabled items in grids has been improved ([Bug #30795](#)).
- The handling of validating widgets has been improved ([Bug #30109](#)).

6.6.2 Univention Management Console server

- Fixed UMCP responses which do not have a status because they are not in JSON format ([Bug #29957](#)).
- Raised the log level of UMC (server and modules) to 2 (= PROCESS) as some important notifications are suppressed otherwise – notably App Center installations and all tracebacks ([Bug #30033](#)).
- The server debug output was extended ([Bug #29989](#)).

6.6.3 Univention Management Console / Univention Directory Manager modules

6.6.3.1 Basic settings / Univention System Setup

- The display of the progress bar in case of IP address changes has been corrected ([Bug #29435](#)).
- Member servers are now again selectable as the system role in the appliance mode ([Bug #29759](#)).
- A problem in the processing of locales was fixed, which could lead to an unusable language selection menu ([Bug #29569](#), [Bug #29970](#), [Bug #29770](#)).
- Update the list of recommended web browsers ([Bug #29771](#)).
- If not using DHCP, the netmask of a network interface is set to 255.255.255.0 by default ([Bug #29722](#)).
- Log the dpkg output when (un)installing software components ([Bug #29239](#)).
- Fixed a typo in the German translation ([Bug #29944](#)) and the title of the confirmation dialogue ([Bug #29817](#)).
- The textmode fallback mode has been removed ([Bug #29718](#)).
- If software components are selected to be installed on a system where no components are installed yet, no empty list of removed components will be added to the confirmation dialog anymore ([Bug #30603](#)).
- The certificate page is now displayed only on the master domain controller ([Bug #30780](#)).
- Enhanced the usability of the network page. It supports displaying of bridges, bonding and vlan devices now ([Bug #28389](#)).

6.6.3.2 Users module

- The empty value for the mail home server is appended, not prepended: The first server will be chosen by default while still allowing to set an empty value ([Bug #29635](#)).
- The descriptions for locked login methods have been fixed ([Bug #19662](#)).
- The labels of certain attributes in the certificate tab have been corrected and reordered ([Bug #30461](#)).
- Setting the expiry interval (pwhistory policy) to 0 will deactivate the POSIX password expiry ([Bug #29918](#)).

6.6.3.3 License module

- The license import and check is now case insensitive ([Bug #29883](#)).
- A typo in the detailed description of licenses has been corrected ([Bug #29862](#)).
- The import of a license with a non-breaking space has been fixed ([Bug #30098](#)).

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6.6.3.4 System services module

- The Cyrus service can now be administrated with the services module. For that, the Univention Configuration Registry variable `mail/cyrus/initscript` has been added. To keep the service administratable, it has to contain the name of the cyrus init script. At installation, it defaults to ***cyrus-`imapd`***. If the init script of your Cyrus version has another name, you will have to change the variable ([Bug #29806](#)).
- Bacula can now be managed ([Bug #17346](#)).
- Squid can now be managed ([Bug #30295](#)).
- Dansguardian can now be managed ([Bug #30296](#)).
- The NFS kernel server can now be managed ([Bug #27783](#)).
- ClamAV and Freshclam can now be managed ([Bug #13814](#)).
- The Univention Virtual Machine Manager Daemon can now be managed ([Bug #29531](#)).
- Fetchmail can now be managed ([Bug #30782](#), [Bug #30781](#)).

6.6.3.5 Domain join module

- The join module has been revised with some new features ([Bug #27792](#), [Bug #30112](#)):
 - A progressbar is now shown during the join process.
 - A system can be rejoined.
 - The execution of already executed join scripts can be forced now.

6.6.3.6 Univention App Center

- The user ***root*** can no longer access the App Center ([Bug #30292](#)).
- Added hardware requirements for an application: Currently only a check for sufficient memory is available ([Bug #29113](#)).
- Conflicts between packages found before installing an application are prompted to the user ([Bug #29598](#)). The removal of packages when uninstalling an application must now be confirmed ([Bug #29273](#)).
- Allow an Apache restart during the installation of an application ([Bug #29808](#), [Bug #29809](#), [Bug #29810](#)).
- Correctly display links to README and LICENSE of applications ([Bug #29875](#)).
- Connect to a remote App Center instance over HTTPS ([Bug #29446](#)).
- Propagate the actual traceback in case an internal error occurs during the test whether an app can be installed/upgraded ([Bug #30777](#)).
- Changed the message above the progressbar during App Center operations ([Bug #29761](#)).
- Log the `dpkg` output ([Bug #29239](#)).
- Check the signature of packages before installing them ([Bug #29797](#)).

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- Track an upgrade of an application as **update**, not **install** (Bug #29638).
- Allow requesting a new license when unable to **upgrade** (Bug #30169).
- Fixed an error when searching for packages apt knows about but which do not have a candidate in any repository (Bug #29899).
- The start of the App Center was speeded by caching files locally (Bug #30204).
- A new module was added showing details of every installed application (Bug #30249, Bug #30561, Bug #30758).
- The details of an application were always the one of the newest version on the server, even when an older version was installed. This has been fixed (Bug #30027).
- `univention-add-app` now removes previously added versions of an app (Bug #30384). Installed applications are now tracked (Bug #30433). The correct app is now used (Bug #29734).
- Whether an application can be upgraded was not checked accurately enough (Bug #30385, Bug #30637).
- The automatically included **-errata** repository is no longer needed and no longer included (Bug #30406).
- When an application is installed that includes an extension of the LDAP schema the corresponding packages are installed automatically on the master domain controller and backup domain controllers by connecting to them via HTTPS (Bug #30503, Bug #30663).
- Improved the confirmation dialog before installing an application by listing also packages that will be updated via automatic errata updates and all package changes that will be done on remote hosts (Bug #30172, Bug #30769).
- If two App Center modules in the same domain have a significant version difference and connect to each other via HTTPS, a warning is written to the logs (Bug #30662).
- The Univention Configuration Registry variable `repository/app_center/server` is now set in `postinst` (Bug #30264).
- The license request dialogue got an emphasised headline because it was confused with an error dialog (Bug #30199).
- The App Center now removes all default packages during the deinstallation even if the packages are part of the default master packages (Bug #30787).

6.6.3.7 Online update module

- An inner scrollbar in the dialogue listing the packages to be updated was removed. It was only displayed when too many packages were listed (Bug #30171).

6.6.3.8 Computers module

- Fixed a failure in assigning DHCP objects to computers when the MAC address has a certain format (Bug #30140).
- The host name of an IP managed client object can now be modified after initial creation (Bug #7016).

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- Nagios support can now be enabled for Mac OS X, Linux and Ubuntu computers ([Bug #30615](#)).
- The Samba password is now set as well when the password is set via UDM/UMC ([Bug #30183](#)).
- The search filter for Mac OS X clients has been fixed ([Bug #15729](#)).

6.6.3.9 Printers module

- The syntax for the **sambaName** Attribute has been changed. There are only letters, digits, dots and spaces allowed ([Bug #2857](#)).

6.6.3.10 DHCP module

- Fixed displaying the selectbox for object types in the advanced search ([Bug #29748](#)).
- The syntax for the server identifier attribute of the DHCP statements policy has been changed to **hostname or ip** ([Bug #19665](#)).

6.6.3.11 UCR module

- The description of a Univention Configuration Registry variable is now shown in the module ([Bug #23223](#)).

6.6.3.12 Policies

- Policies are now sorted by their names ([Bug #24643](#)).

6.6.3.13 LDAP directory browser

- If only one LDAP object is to be (re)moved, show it in the dialog to avoid confusion; when right-clicking on the LDAP tree, act on the container under the cursor ([Bug #26062](#)).
- The **UDM object** options were renamed to **LDAP object** ([Bug #30529](#)).
- After removing or moving a folder in the navigation tree, the next available parent node is now selected ([Bug #29400](#)).

6.6.3.14 Other modules

- Fix setting the password in the VNC module ([Bug #29951](#)).
- Fixed a typo in the process overview ([Bug #27818](#)). Processes are now sorted by default ([Bug #30715](#)).
- A bug in the computer and nagios modules has been fixed that could lead to a Nagios config mismatch ([Bug #30614](#)).
- The descriptions for valid/invalid users/groups for file shares have been fixed ([Bug #7849](#), [Bug #30714](#)).

- When an user successfully changed his password using the **Change password** module, a notification will be displayed ([Bug #29251](#)).
- Corrected button name and fixed quoting in the system info module ([Bug #29503](#)).

6.6.4 Univention Directory Manager command line interface and related tools

- **univention-license-check** will now additionally print the base DN ([Bug #29100](#)).
- Bash completion for `univention-directory-manager ... list` has been extended ([Bug #15245](#)).

6.6.5 Development of modules for Univention Management Console

- A bug in the MultiUploader widget has been corrected ([Bug #29960](#)).
- The size and default value of the TimeBox widget have been corrected ([Bug #30093](#)).
- Added generic support for widgets folding out in a confirmation dialogue ([Bug #30791](#)).
- Fixed several errors in module templates ([Bug #29993](#), [Bug #30164](#)).

6.7 Software deployment

- A deprecated call to **univention-errata-update** has been removed from the **univention-maintenance** cronjob ([Bug #29367](#)).
- The repository path used by **univention-repository-create** is now correctly determined from CDROM/ISO information ([Bug #29626](#)).
- The package **univention-errata-level** has been rebuilt so that the Univention Configuration Registry variable `version/erratalevel` will be set to 0 ([Bug #30802](#)).

6.7.1 Repository handling

- The Univention Configuration Registry variable `repository/online/maintained` has been deprecated and is now enabled by default. The Univention Configuration Registry variable `repository/online/component/*/parts` has been deprecated in favour of the new Univention Configuration Registry variable `repository/online/component/*/unmaintained`, which can be used to explicitly includes the unmaintained section of the package; the default is inherited from Univention Configuration Registry variable `repository/online/unmaintained`. The previous settings are automatically migrated to the new variables ([Bug #30261](#)).
- The **univention-updater** now always configures `http://updates.software-univention.de/` as the initial repository server, because some external DNS servers always return a valid address for **univention-repository.\$domainname**. If a local repository is used, the Univention Configuration Registry variable `repository/online/server` must be changed manually, best through a Repository Policy ([Bug #30409](#)).
- The packages

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- *python-yaml*, *open-vm-dkms*, *open-vm-tools*, *php5-pspell*, *php5-intl*, *aspell-en*,
- *ttf-liberation*, *graphviz*, *libauthen-sasl-perl*, *libcarp-clan-perl*, *libbit-vector-perl*, *libdate-pcalc-perl*,
- *libnet-domain-tld-perl*, *libemail-valid-perl*, *libmime-perl*, *libunicode-string-perl*, *libdbd-pg-perl*,
- *libgd-gd2-noxpm-perl*, *libgd-text-perl*, *libgd-graph-perl*, *libpdf-api2-perl*, *libxml-parser-perl*,
- *libnet-ssleay-perl*, *libio-socket-ssl-perl*, *libnet-imap-simple-perl*, *libnet-imap-simple-ssl-perl*,
- *libtext-glob-perl*, *libnumber-compare-perl*, *libfile-find-rule-perl*, *libdata-compare-perl*,
- *libconvert-asn1-perl*, *libnet-ldap-perl*, *libtext-csv-xs-perl*, *libcommon-sense-perl*,
- *libjson-xs-perl*, *libio-pty-perl*, *libipc-run-perl*, *libxml-twig-perl*,
- *libparse-recdescent-perl*, *libgraphviz-perl*, *libfont-afm-perl*, *libhtml-format-perl*,
- *libio-socket-inet6-perl*, *libnet-libidn-perl*, *libtie-ixhash-perl* and *libxml-xpathengine-perl*
- *libcdt4*, *libcgraph5*, *libgraph4*, *libpathplan4*, *libxdot4*, *libgvc5*
- *libgvpr1*, *libxml-xxpathengine-perl*

have been added to the maintained section of the repository ([Bug #29867](#), [Bug #30068](#), [Bug #30039](#), [Bug #30173](#)).

6.7.2 Software deployment command line tools

- The updater now uses an individual user agent string for the interaction via HTTP ([Bug #25489](#)).
- `univention-upgrade --check` no longer updates a local repository ([Bug #30315](#)).

6.7.3 Software monitor (univention-pkgdb)

- The system's errata level is now saved in the package database ([Bug #30739](#)).

6.8 Univention Library

- The exception handling when searching for DNSs via the python interface has been improved ([Bug #29499](#)).

6.9 System services

6.9.1 DNS

- Change the owner for `/etc/bind/rndc.key` to **root** if Samba 4 is used as the Bind backend. This allows the use of the control interface (rndc) ([Bug #25358](#)). Enabled rndc control in `named.conf.samba4` and restart Bind if `dns/backend` is set to **samba4** and the rndc reload fails ([Bug #30321](#), [Bug #30657](#)).
- UCR variables for the Bind debug level have been added (`dns/debug/level` and `dns/dlz/debug/level`) ([Bug #29562](#)).

6.9.2 Spam/virus detection and countermeasures

- Renamed the Univention Configuration Registry variable `mail/antivir/clamav-daemon/autostart` to `clamav/daemon/autostart` and the Univention Configuration Registry variable `mail/antivir/clamav-freshclam/autostart` to `clamav/freshclam/autostart`, which are now used in the Clamav init scripts ([Bug #29980](#)).

6.9.3 Printing services

- A bug in the evaluation of printer quota policies has been fixed ([Bug #29715](#)).
- The creation of print groups in the Cups listener module has been fixed ([Bug #29742](#)).
- Output redirection in the Cups init script has been fixed ([Bug #17663](#)).
- The description of the Univention Configuration Registry variable `cups/cups-pdf/anonymous` has been fixed ([Bug #17549](#)). A description for `cups/autostart` has been added ([Bug #29669](#)).
- Changed the default value for the Univention Configuration Registry variable `cups/server` to ***localhost*** ([Bug #29699](#)).
- `univention-lpadmin` now uses ***-h localhost*** as server if no server parameter was provided ([Bug #28476](#)).
- If the new Univention Configuration Registry variable `cups/include/local` is set to ***true***, the Cups configuration includes `/etc/cups/cupsd.local.conf` for custom configurations ([Bug #19552](#)).

6.9.4 Kerberos

- Log messages from any abort are now printed ([Bug #29342](#)).
- Starting with UCS 3.0 the Heimdal Kerberos `kadmin` tool and the server assumed a default password lifetime of one year for all Kerberos principals that have a ***sambaPwdLastSet*** in LDAP, overriding ***krb5PasswordEnd***. Heimdal Kerberos is now patched in order to honour ***krb5PasswordEnd*** ([Bug #30589](#)).
- A realm section for the NETBIOS domain has been added to `/etc/krb5.conf` on a Samba 4 domain controller ([Bug #28819](#)).
- The version number of the package ***univention-python-heimdal*** has been increased to avoid conflicts with old packages incorrectly versioned ([Bug #29747](#)).

6.9.5 Proxy services

- The Univention Configuration Registry variable `squid/allowfrom` can now be set to ***all*** ([Bug #27523](#)).
- Added the new Univention Configuration Registry variable `squid/append_domain` ([Bug #10390](#)).
- Authentication based on group memberships now supports groups with spaces in their names ([Bug #11819](#)).

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- Use CIDR masks in **always_direct** rule definitions ([Bug #25268](#)).
- The Univention Configuration Registry variable `squid/auth/groups` has been removed, group authentication is handled by the Univention Configuration Registry variable `squid/auth/allowed_groups` ([Bug #30553](#)).
- Renamed the Univention Configuration Registry variable `squid/ldapauth/groups` to `squid/auth/allowed_groups`, which is by default empty ([Bug #30553](#)).
- Corrected the Univention Configuration Registry variable description for `dansguardian/groups` ([Bug #25311](#)).
- Set all UCR variables in `postinst` before restarting Dansguardian ([Bug #29494](#)).
- Removed templates and ucr variables for **banneduser** and **exceptionuser** ([Bug #25327](#)).
- Removed groupbased ip address ban and exceptionlists and added global settings in `dansguardian/bannedipaddresses` and `dansguardian/exceptionipaddresses` ([Bug #25321](#)).
- Unused group config files are now deleted ([Bug #30270](#)).
- The Dansguardian default group has been renamed from **www-access** to **defaultgroup** ([Bug #30553](#)).

6.9.6 Apache

- Added the Univention Configuration Registry variable `apache2/ssl/ca` to managed the **SSLCertificateFile** and `apache2/ssl/certificatechainfile` to manage the **SSLCertificateChainFile** configuration options ([Bug #26171](#), [Bug #29374](#)).

6.9.7 Nagios

- Updated the plugins **check_univention_squid** and **check_univention_dansguardian** to check for currently supported auth methods ([Bug #29506](#)).

6.9.8 PAM / Local group cache

- The template for `/etc/nsswitch.conf` was fixed to handle the Univention Configuration Registry variable `nss/group/cachefile` correctly, which can be used to disable group caching ([Bug #29916](#)).
- A bug was fixed in the **extrusers** NSS module, which caused groups to disappear from the cached LDAP data ([Bug #29915](#)).
- The option **maxent** was added to **pam_access** to configure the maximum buffer size needed to check group membership in large environments. The limit can be changed using the Univention Configuration Registry variable `pamaccess/maxent` ([Bug #29393](#)).
- `pam_ldap` is no longer used for password changes, only `pam_krb5` and `pam_unix` ([Bug #29438](#)).
- A join script has been added to **univention-pam** ([Bug #25368](#)).

6.9.9 Other services

- Server and client backups are now discerned correctly, errors are now handled based on backup type ([Bug #25386](#)).
- In case of an error remote-backup now writes information to stderr. A new variable **BWLIMITKBPS** controls the maximum bandwidth used by rsync, default unlimited; rsync now compresses files during transmission ([Bug #5318](#)).
- As a workaround for Windows w32tm time service behaviour the local stratum of the NTP server on an master domain controller and on other UCS roles was lowered to 5 and 9 respectively ([Bug #30198](#)).
- The Univention Configuration Registry variable `ntp/tinker/panic` has been added. It can be used to configure the maximum time difference to the NTP server in seconds which is still synchronised. Default: 0 seconds, which means that any time difference is synchronised no matter how big it is ([Bug #25752](#)).

6.10 Virtualisation

- **open-vm-tools** version 8.8 has been backported to provide VMware support with Linux 3.2 kernels ([Bug #29991](#)).

6.10.1 libvirt

- A bug in the Runit script of **univention-libvirt** has been fixed, which prevented **libvirtd** from being automatically restarted ([Bug #29667](#)).
- A memory corruption issue has been fixed when snapshots are created or deleted ([Bug #30052](#)).
- A crash in message dispatching on error paths was fixed ([Bug #30213](#)).
- Snapshots of VMs with writeable raw images are no longer allowed, because by default the raw image is opened read-write, which is not snapshotable. Because of that floppy images are now by default attached read-only, which is changeable in the image settings. Empty drives are allowed for snapshots, too. Removing empty drives no longer asks for deleting the volume. Snapshot operations are still accessible even when non-snapshotable images are attached ([Bug #30472](#)).
- In 32 bit environments **libvirtd** failed to start the default storage pool ([Bug #29380](#)).
- On upgrades of **univention-virtual-machine-manager-node-kvm** the default network bridge for virtual machines was shutdown, which disconnects the interfaces of all running VMs. This is no longer done on upgrades ([Bug #30590](#)).
- Certificates still using the MD5 algorithm - which is cryptographically broken and considered insecure - were rejected by libvirt. They are now allowed again ([Bug #30702](#)).

6.10.2 Univention Virtual Machine Manager

- UVMM failed to start when its internal cache files were truncated. This has been fixed ([Bug #30174](#)).

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- The usage of certain terms has been standardised ([Bug #22582](#), [Bug #23427](#)).
- A bug in the join script of **univention-virtual-machine-manager-schema** has been fixed ([Bug #30757](#)).
- The description field of a virtual machine in **UVMM** is now displayed in a machine tooltip on the overview page ([Bug #24682](#)).
- iSCSI storage pools are now supported ([Bug #19804](#)).

6.10.3 Xen

- The Linux kernel module **xen-gntdev** is now automatically loaded by `/etc/init.d/xencommons` ([Bug #29581](#)).

6.11 Desktop packages

- It is now possible to login in GDM as **root**. A warning will be displayed as the root user should only be used for administrative purpose ([Bug #28372](#)).
- Added support for writing an empty device section in `xorg.conf` with the Univention Configuration Registry variable `xorg/device/driver` ([Bug #30799](#)).

6.12 Services for Windows

- A bug in the Samba 3 to Samba 4 migration in combination with very long LDAP DNs has been fixed ([Bug #29335](#)).
- According to the Samba Team there have been cases, where Samba 3 to Samba 4 migration failed to set **userPrincipalName**, this has been fixed ([Bug #30013](#)).

6.12.1 Samba 3

- The Netlogon path can now be adjusted using the Univention Configuration Registry variable `samba/share/netlogon/path` ([Bug #29801](#)).
- Fixed the order of UCR variable initialization, making a manual Samba restart after initial installation of the **univention-samba** package unnecessary ([Bug #30271](#)).
- Fixed a quoting error while parsing credential options in the join script ([Bug #28814](#)).
- More Winbind logfiles are now covered by Logrotate ([Bug #29953](#)).
- Added a new Univention Configuration Registry variable `samba/max_log_size` (defaults to 0) ([Bug #29542](#)).
- Added a description for the Univention Configuration Registry variable `samba/interfaces` ([Bug #28014](#)).

- The Samba 3 idmap secret file is now also changed after server password rotation ([Bug #30170](#)). In addition, the new machine password is now also saved to the local samba internal password store. The Samba internal weekly password rotation is now replaced by the regular periodic **server_password_change** which runs every 21 days by default (controlled by Univention Configuration Registry variable `server/password/interval`) ([Bug #30539](#)).
- A duplicate UCRWARNING header was removed in the `smb.conf` template subfile ([Bug #28426](#)).

6.12.2 Samba 4

- Samba has been updated to Version 4.0.3. The security fix for [CVE-2013-1863](#) is included ([Bug #29755](#)).
- During reinstallations of previously joined Samba 4 domain controllers the `98univention-samba4-dns` join script could abort due to an **objectSid** conflict ([Bug #29083](#)). For installations made with the new UCS 3.1-1 DVD this works directly. If a UCS 3.1-0 Samba 4 DC needs to be reinstalled the `sam.ldb` in the directory `/var/lib/samba/private` on that domain controller must not contain any data at the time of join. This condition can be fulfilled by moving the directory out of the way on that domain controller before initiating the domain join.
- The join script now also removes leftover Samba 4 DNS alias records pointing to the FQDN of the joining DC ([Bug #29504](#)).
- During the join of a Samba 4 DC with `samba4/role` set to **RODC** the `98univention-samba4-dns` join script failed ([Bug #29537](#)).
- Fixed the `ntpsignsocket` path in `ntp.conf` and file permissions to `/var/lib/samba/ntp_signd` ([Bug #29688](#), [Bug #29688](#)).
- The Samba 4 `nbt_server` was started even though the Univention Configuration Registry variable `samba4/service/nmb` was set to `nmbd` ([Bug #29865](#)).
- Fixed the misnamed Univention Configuration Registry variable `samba4/service/nbtd` ([Bug #24868](#)).
- Fixed a missing default for the Univention Configuration Registry variable `samba/debug/level` in the `smb.conf` template ([Bug #29961](#)).
- The Netlogon path can now be configured using the Univention Configuration Registry variable `samba/share/netlogon/path` ([Bug #29801](#)).
- Fixed the DRS replication in IPv6-only environments ([Bug #29526](#)).
- Fixed a regression in the performance of the Samba 4 DNS server backend ([Bug #29985](#)).
- Fixed access to file shares with the options **force group** or **valid users = @group** ([Bug #29553](#), [Bug #29983](#)).
- Fixed truncation of large read SMB requests triggering a bug in recent MacOS X clients causing target file corruption ([Bug #30007](#)).
- Fixed a quoting error while parsing credential options in the join script ([Bug #28814](#)).
- More Winbind logfiles are now covered by Logrotate ([Bug #29953](#)).
- Added a new Univention Configuration Registry variable `samba/max_log_size` (defaults to 0) ([Bug #29542](#)).

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- Add a description for the Univention Configuration Registry variable `samba/interfaces` ([Bug #28014](#)).
- Duplicate UCRWARNING header removed in `smb.conf` template subfile ([Bug #28426](#)).
- Fixes for `check_essential_samba4_dns_records` were made ([Bug #28891](#)).
- New script `purge_s4_computer.py` to manually remove a computer account from Samba 4 ([Bug #29460](#)).
- Improve resilience of `s4search-decode` against broken `supplementalCredentials` ([Bug #28931](#)). Also print Active Directory timestamps in a human-readable format ([Bug #29992](#)).
- Fix unreliable `nmbd` restart ([Bug #30135](#)).
- Unused GPOs are now moved to `/var/lib/samba/sysvol_backup` every night with the new tool `/usr/share/univention-samba4/scripts/sysvol-cleanup.py` ([Bug #27468](#)).
- At least one Samba 4 domain controller should be configured as domain master browser. With UCS 3.1-1 it can be configured via the Univention Configuration Registry variable `samba/domain/master`. On a master domain controller this option will be enabled during the update ([Bug #30132](#)).
- A segfault in the Bind DLZ module has been fixed ([Bug #30716](#)).
- Iteration over DCs and sites has been fixed in the `check_essential_samba4_dns_records.sh` script ([Bug #30784](#)).

6.12.3 Univention S4 Connector

- The connector got stuck for a few minutes if the process used a network interface, which was shut down. The running connector will now be restarted if a network device is shutdown ([Bug #30119](#)).
- The daemon function was called too late which could result in a crash of the connector. This issue has been fixed ([Bug #30149](#)).
- The group membership synchronisation could lead to an inconsistent state. This issue has been fixed ([Bug #30317](#)).
- A really fast import could overwrite the changes just made to an object due to concurrent processes. This issue has been fixed ([Bug #30651](#)).
- The connector now synchronizes the following computer objects: Mac OS X, Ubuntu, Linux and UCC ([Bug #29872](#)). Windows computer objects are changed to Mac OS X computer objects if the operating system LDAP attribute is set to **Mac OS X** ([Bug #29998](#)).
- The S4 connector network ifdown script has been moved from `/etc/network/ifdown.d` to `/etc/network/if-post-down.d` ([Bug #30414](#)).

6.12.4 Univention Active Directory Connector

- The group membership synchronisation could reach an inconsistent state. This issue has been fixed ([Bug #29874](#)).
- A really fast import could overwrite the changes just made to an object due to concurrent processes. This issue has been fixed ([Bug #30652](#)).

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- If the `/var/lib/univention-connector/ad` runtime directory was stored on a `ext2/ext3/ext4` partition, tracebacks could occur ([Bug #18125](#)).
- The connector will only try to become a daemon once at start up ([Bug #30150](#)).
- A warning that the LM hash could not be synced will only be logged if the Univention Configuration Registry variable `password/samba/lmhash` is set to **true** ([Bug #29294](#)).

6.13 ucs-test framework

- Added new test `00_base/25check-permissions-etc-secret` which looks for `*secret` files in `/etc` that are readable by group `other` ([Bug #29477](#)).
- `26check_logfiles_general` now ignores `/var/log/dpkg.log` ([Bug #30718](#)).
- `90change_user_pwd_via_udm` no longer checks if the master domain controller is reachable via SSH ([Bug #30733](#)).
- The `uniquemember` test case has been adapted to UCS 3.1 ([Bug #12081](#)).
- The `https logging` test case has been adapted to UCS 3.1 ([Bug #30734](#)).
- Several **ucs-test** cases concerning `faillog` have been corrected ([Bug #19016](#)).

6.14 Other changes

- Fixed an erroneous handling of the Python Notifier with command output. In certain cases this could lead to the loss of some output data ([Bug #29549](#)).
- A package dependency to **univention-config** has been added to the package **univention-ssh** ([Bug #28079](#)).
- Unnecessary log messages in the listener modules `gencertificate.py` and `replication.py` have been removed ([Bug #9819](#), [Bug #15567](#)).
- A dependency to **ldap-utils** has been added in **univention-config** ([Bug #28851](#)).
- The usage message of the **univention-runit** init script, which erroneously contained `univention-dhcp` instead of its own name, has been corrected ([Bug #29383](#)).
- A dependency to **ntp** has been added to **univention-server-member** ([Bug #30041](#)).
- **parted** now supports handling of the boot flag of the protective MBR partition ([Bug #29449](#)).

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