UCS 3.0-2 Release Notes

Inhaltsverzeichnis

1 Release highlights

With Univention Corporate Server 3.0-2, the second point release for Univention Corporate Server (UCS) is now available. It provides several improvements and bugfixes:

- Ubuntu clients can now be managed in the Univention Management Console with their own computer role. The network properties for DNS/DHCP can also be managed via the Univention Management Console. Some configuration adjustments need to be performed on Ubuntu systems; these are documented in the Univention Wiki. [1].

- There is a separate installation DVD available for UCS 3.0-2 so that all the bug fixes from the point and errata updates are directly available in new installations.

- The Debian Squeeze point update 6.0.5 has been integrated. In addition to important error corrections, the Linux kernel has also been updated. It is now based on the long-term kernel 2.6.32.59 and includes a range of bug fixes.

- Browser-based configuration of UCS is now also possible in appliance mode. This simplifies the use of UCS as a cloud image. In addition, the individual menus can now also be more extensively configured. This makes it possible for third-party integrators to adapt the images better.

- The network settings of server systems can now also be configured via DHCP. This is required for use with some cloud providers.

- The NTLM authentication on the Squid proxy server is now performed via an independent authentication module, which accesses the LDAP directory directly instead of Winbind. This allows single-sign-on in combination with Samba 4.

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 [2]), 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, the command `univention-run-join-scripts` should be run as the user ***root*** and the UCS system 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 Removal of sambaPwdMustChange attributes

Starting with UCS 3.0-1 the attribute ***sambaPwdMustChange*** is no longer set by the Univention Directory Manager modules. Existing attributes should be removed by running the script `/usr/share/univention-directory-manager-tools/remove_sambapwdlastset`.

4.3 Deactivating the generation of LM hashes

In Samba 3 user password hashes are stored as LM hashes. These hashes are no longer needed in environments using UCS 3.0. If no services are in use, which required LM hashes, the generation of the hashes can be avoided by setting the Univention Configuration Registry-Variable `password/samba/lmhash` to ***false***.

4.4 Mail address check

Starting with UCS 3.0-1 the UDM checks the domain part of (primary/alternative) mail addresses. If the domain part is not configured as valid mail domain, the mail address will be rejected. Thus it should be checked if mail addresses without configured mail domain object are in use. Please check user, group, mailing list and shared folder objects.

The old behaviour may be restored by setting the following UCR variables on all systems with UDM to the value ***emailAddress*** (Bug #23525):

- `directory/manager/web/modules/users/user/properties/mailPrimaryAddress/syntax`
- `directory/manager/web/modules/users/user/properties/mailAlternativeAddress/syntax`

- `directory/manager/web/modules/groups/group/properties/mailAddress/syntax`

- `directory/manager/web/modules/mail/list/properties/mailAddress/syntax`

- `directory/manager/web/modules/mail/folder/properties/mailPrimaryAddress/syntax`

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 Recommded 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 [3].

5.3 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 [2].

5.4 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.

5.5 univention-management-console-frontend

Since UCS 3.0-2 the UMC frontend performs further checks on the translations. English and German are automatically defined. If the Univention Configuration Registry variable `locale` is set to a value not defined in `umc/server/languages/*`, the configuration needs to adapted.

6 Changelog

Listed are the changes since UCS 3.0-1.

6.1 General

- The Debian Squeeze 6.0.5 point update has been integrated. It provides many bugfixes (Bug #27119).

- The errata updates 30–93 for UCS 3.0 have been integrated (Bug #27141).

- Several packages have been rebuilt to ensure that the version number of the UCS 3.0 package is higher than the version number in UCS 2.4 (Bug #26911).

- For UCS 3.0-2 an independent installation DVD is available so that all new installations already include bugfixes from the point and errata updates up to 3.0-2 (Bug #27409).

6.2 Univention Installer

- Ext4 and ext2 filesystems are now created with the mount option *acl* by default (Bug #27466).

- A traceback during display of a help text in the password module has been fixed (Bug #26439).

- The default ramdisk size for the Univention Net Installer has been increased to 209272 Byte (Bug #25416).

- The valid length of a hostname has been reduced to 13 characters to avoid problems during operation with Samba 4 (Bug #27307).

- A warning has been added, if the hostname and the windows domain are equal (this is not allowed in an Samba 4 environment) Bug #27809).

6.3 Upgrade provisions (preup and postup scripts)

6.3.1 Preup script

- The update scripts have been updated to UCS 3.0-2 (Bug #27840).

- It is now checked, whether a valid machine account exists, before proceeding with the update (Bug #27619).

- A reference to a 3rd party product has been removed (Bug #27097).

- The package *php5-curl* is now purged, if it has already been removed (Bug #27666).

- The Mysql configuration file `/etc/mysql/my.cnf` is now checked for manual modifications and the deprecated option ***skip-bdb*** (Bug #27686).

- Directives to prevent the restart of UMC server components have been removed from the preup script (Bug #25033).

6.3.2 Postup script

- The obsolete cron job `/etc/cron.d/univention-shares` is now removed (Bug #24610).

- The Univention Configuration Registry variables `repository/online/errata/start` and `version/erratalevel` are now both updated in the postup script instead of the postinst script of Univention Updater (Bug #27835).

6.4 Basic system services

6.4.1 Boot loader

- The new Univention Configuration Registry variable `grub/grub1root` allows to configure a separate root device for the auto-generated `/boot/grub/menu.lst` (Bug #26559).

6.4.2 Linux kernel and firmware packages

- The Linux kernel package has been updated to the 2.6.32-45 kernel from Debian Squeeze 6.0.5. Among many bugfixes (the new kernel is based on long-term kernel 2.6.32.59), this update also fixes several security vulnerabilities: (Bug #27431)

    - A race condition in ecryptfs allowed information disclosure (CVE-2011-1833)

    - Denial of service in parsing ext3/ext4 filesystems (CVE-2011-3638, CVE-2012-2100)

    - Denial of service in jbd2 (CVE-2011-4086)

    - Missing restriction checks in KVM (CVE-2011-4347)

    - Denial of service in KVM (CVE-2012-0045, CVE-2012-1097, CVE-2012-1601)

    - Denial of service through invalid reference counting in CLONE_IO (CVE-2012-0879)

    - Denial of sercice in the CIFS implementation (CVE-2012-1090)

    - Incorrect dropping of file capabilities (CVE-2012-2123)

    - Use-after-free in the quota code of hugetlbfs (CVE-2012-2133)

6.4.3 Univention Configuration Registry

- Help messages have been added to the scripts `univention-install-config-registry`, `univention-install-config-registry-info` and `univention-install-service-info`. They will be displayed when `--help` or `-h` are passed to them (Bug #19853).

- Stdout is no longer redirected to `/dev/null` when scripts are excuted (Bug #26840).

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6.4.3.1 Internal changes

- The file `/etc/univention/templates/scripts/full_path_to_file` is now also executed for multifile templates (Bug #27510).

- A circular package build dependency has been fixed (Bug #27836).

6.4.4 Network interface configuration

- The DHCP client handling for UCS servers has been overhauled. When a server receives its IP via DHCP, the new IP will be registered in Univention Configuration Registry and the LDAP directory (Bug #26416). If the server provides DNS services, the nameservers given by DHCP will be converted to DNS forwarders. If the system is not a DNS server the nameservers given by DHCP will be used directly (Bug #25769).

- The DHCP client configuration template `dhclient.conf` has been moved from `/etc/dhcp3/` to `/etc/dhcp/` (Bug #26601).

- The use of Dynamic DNS in `/etc/dhcp/dhclient.conf` is now supported through the new Univention Configuration Registry variables `dhclient/options/ddns` and `dhclient/options/ddns/zone` (Bug #24282).

- GDM is no longer automatically restarted after network changes (Bug #27598).

6.4.5 Univention System Setup

- The appliance mode can now also be fully configured remotely using a web browser, e.g. for environments at cloud providers where no access to the console is available (Bug #26283, Bug #27822).

- The selection of the server role is now only shown on an unjoined DC master (Bug #26262, Bug #27935). The base system role can no longer be configured (Bug #27633).

- The recreation of all SSL certificates in the appliance mode is now only done on the DC Master (Bug #26270). The email address set in the certificate will be updated when the domain name changes (Bug #25710).

- When changing the IP configuration of an interface in appliance mode, the old configuration is retained as a virtual interface (Bug #26338). Nameservers and the gateway can now be unset/left blank (Bug #26330). Problems with virtual network devices in the appliance mode have been corrected (Bug #27847). The nameserver and the gateway are now correctly set if the network settings were queried through a DHCP request (Bug #26365).

- Univention System Setup now provides a reference on the command line login to the UMC initial configuration if the system has not been joined and `univention-system-setup-boot` is installed (Bug #26413).

- In appliance mode the locally started Firefox will be terminated even if the configuration was done remotely (Bug #24807). A problem with exiting the X session has been corrected (Bug #27632).

- Several message texts have been improved (Bug #26067, Bug #26326, Bug #26327).

- The Univention Configuration Registry variables `system/setup/boot/pages/whitelist` and `system/setup/boot/pages/blacklist` can now be used to customise the modules that should be displayed when running appliance mode (Bug #26730).

- Host names are now limited to 13 characters to avoid problems with Samba 4 (Bug #27307).

- Errors during the installation/configuration of software components are now reported to the user (Bug #26331). After removing packages in the software selection, `apt-get autoremove` is now executed (Bug #26135) to remove obsolete packages.

- When entering an empty (no) root password, a warning dialogue is shown, which needs to be confirmed (Bug #26734).

- The language of the setup wizard in appliance mode can now be chosen on the start page (English, German) (Bug #26732). This selection presets timezone, keyboard and default locale (Bug #26732). The chosen keymap is applied immediately (Bug #26733).

- The dependency to Firefox in **univention-system-setup-boot** has been removed. The package is now recommended (Bug #26403). In addition **xinit** and **kde-window-manager** have been added to Recommends, since they are required for the graphical setup mode (Bug #27616, Bug #27694).

- The package **univention-system-setup-boot** can now only be installed on a DC Master (Bug #26404, Bug #26408).

- Several details in the layout of dialogues and the display of some layout elements have been fixed (Bug #26671, Bug #25071, Bug #26409, Bug #27240).

- A deprecation warning has been added to the command line tool `univention-system-setup` (Bug #26061).

- Appliance hooks can now be placed in `/usr/lib/univention-system-setup/appliance-hooks.d/` and will be executed at the end of the join process via `run-parts` (Bug #27725).

- The PAM templates and the web start page of the system are now rewritten at the end of the initial configuration (Bug #26846, Bug #27596).

- In appliance mode the network setup dialogue will now only be shown if the X session exited without running system setup (Bug #26907).

- The Univention Management Console is now restarted at the end of the configuration (Bug #26316).

- The Univention Configuration Registry `ldap/translogfile` is no longer set unless the system is a master domain controller (Bug #27834).

- If the initial join of a system failed in appliance, it can now be retried (Bug #25805).

- After the join process, a cleanup step is required. UMC keeps the session alive until the corresponding dialog is answered and executes it even if the browser was closed without answering the dialog (Bug #27919).

- The timeout handling in the domain join for long-running join scripts has been fixed (Bug #27693).

- In appliance mode a popup is now shown when the hostname is equal to the windows domain (Bug #27810).

- The interface informations will be read from Univention Configuration Registry whether not all informations have been changed for one interface in the network module (Bug #27928).

- The system setup software installation progress bar now ignores all messages that are not of type ***pmstatus*** (Bug #27951).

6.4.6 Univention Firewall

- The init script now uses the shell function ***is_ucr_true*** from the Univention Library (Bug #27003).

6.4.7 PAM

- The path of subfile `etc/pam.d/common-session.d/20system-setup-login-message` was corrected (Bug #27798).

- The entry ***pam_lastlog*** has been removed from the sshd PAM configuration to display the last login message only once (Bug #27759).

6.5 Domain services

6.5.1 OpenLDAP

- The database consistency checks in slapd init script have been improved (Bug #23962, Bug #27228).

- When removing the package ***univention-ldap-server*** the subdirectories below `/var/lib/univention-ldap/` are now only removed if they belong to the package ***univention-ldap-server***. Apart from this, only the subdirectory `/var/lib/univention-ldap/schema` is removed (Bug #26269).

- The handling of multiple space-separated servers in the Univention Configuration Registry variable `ldap/server/addition` was fixed in the Univention Configuration Registry templates for `/etc/libnss-ldap.conf`, `/etc/pam_ldap.conf` and `/etc/ldap/ldap.conf` (Bug #27050).

- The package ***univention-ldap-overlay-memberof*** has been revised (Bug #24433).

6.5.2 Listener/Notifier domain replication

- A segmentation fault was fixed in the Univention Directory Listener (Bug #26548). An unused debug line with a hard-coded DN has been removed (Bug #26547). A potential crash through incorrect memory handling (double free) and a crash during shutdown after incomplete initialization have been fixed (Bug #27313, Bug #15019).

- Manual pages were added for the command line tools of Univention Directory Listener (Bug #25663).

- Univention Directory Notifier now works correctly on systems that have IPv6 disabled (Bug #26469).

- The robustness of the script `server_password_change` has been improved by checking for errors and rolling back changes as long as it is safe to do so. The scripts invoked by the server password change will leave the server in a consistent state, even if the password change failed at some stage (Bug #27577).

6.5.3 Domain joins of UCS systems

- The Univention Management Console module ***Domain join*** now asks for join credentials on systems other than master domain controller (Bug #26720).

- A shell quoting issue in the Kerberos realm detection was fixed in `univention-join` (Bug #26475).

- Improved error-checking and reporting in the script `univention-server-join` (Bug #16214).

6.5.4 Univention Backup2Master

- `univention-backup2master` now accepts several command line parameters.

- The LDAP is now searched for more references to the DN of the previous master domain controller (Bug #5774, Bug #10038, Bug #16789, Bug #27144, Bug #26211).

- More safety checks have been added, e.g. whether the old master is still reachable.

- Added special treatment for file shares; any references there will be reported and interactive change or removal will be offered

- The package ***univention-server-backup*** with now replaced with ***univention-server-master*** (Bug #14568).

- The Samba 4 roles are now transferred as well (Bug #26986).

6.6 Univention Management Console

6.6.1 Univention Management Console web interface

- Problems with the behaviour of the web frontend in case of an invalidated user session (e.g., via UMC server restart) have been corrected (Bug #26347).

- Several display and layout problems have been corrected:

  - Duplicated entries in the grid (Bug #26564)

  - The length of tracebacks is now limited (Bug #26538)

  - Displaced logout button in Internet Explorer compatibility mode (Bug #26264).

  - Fixed Chrome showing the background of disabled input elements in the same color as the text in it, rendering it unreadable (Bug #26541).

  - The title in umc.dialog.alert() is now displayed correctly (Bug #26874).

  - The size of tooltips is now limited (Bug #25822).

  - A traceback in the **About UMC** dialogue has been fixed (Bug #27037).

  - The error message of a failed file upload is now correctly displayed in Internet Explorer (Bug #25031).

- Various spelling mistakes in several modules have been corrected and descriptions overhauled (Bug #26287, Bug #26967, Bug #27208).

- A locale suffix was added to the link to Univention Management Console on the overview page (Bug #23861, Bug #17659). The old static site can be set by setting the Univention Configuration Registry variable `apache2/startsite` to `/ucs-overview/de.html`.

- The default captions and descriptions on the overview page can now be customized (Bug #27032).

- A dialogue for an optional restart of UMC server components has been added in the following UMC modules after updating or installing software components: System setup, Online updater, Domain join, Package management (Bug #26235).

6.6.2 Univention Management Console web server

- The new Univention Configuration Registry variable `umc/http/interface` can be used to specify the host on which the UMC web server listens for network connections (Bug #26470).

- The Univention Management Console console server now also works if IPv6 has been disabled in the Linux kernel (Bug #26470).

- A deadlock situation has been fixed that could occur during restarts of Univention Management Console (Bug #26884).

- File uploads can now be limited with the Univention Configuration Registry variable `umc/server/upload/max`. The variable `umc/server/upload/min_free_space` can be used to prevent file uploads if not enough disk space is available (Bug #27415).

- An UMC session is now restricted to a single IP address (Bug #26635).

6.6.2.1 Internal changes to widgets and interfaces

- Added a widget ***ProgressInfo*** to display information about an ongoing operation (Bug #26274).

- Added support for labels to the widget ***MultiObjectSelect***. Each entry may consist of an id and a label (Bug #26363).

- Fixed handling of values of boolean widgets that could lead in special cases to a wrongly interpreted value (Bug #27058).

- Wizard now accepts deferred objects returned by the functions `next()` and `previous()` (Bug #26604).

- Only a single module icon will now be shown even if there are other modules with the same flavor (Bug #27719).

- Wizard pages are now also shown if there are only buttons defined and no widgets (Bug #26749).

- ***umc.widgets.Form.clearFormValues()*** also resets the internally cached ID of the entry which has been loaded via ***umc.widgets.Form.load()*** (Bug #26540).

- Action columns of the grid widget can now be connected to data columns to support updating the content (Bug #26611).

- The return value of ***umc.tools.isEqual*** has been fixed (Bug #26691).

- Some misplaced indentation in ***umc-create-module*** have been fixed (Bug #26406).

- Added API documentation for the UMC Javascript source code (Bug #23197).

- Added the events **onShowDescription** and **onHideDescription** that can be used when defining action columns for a Grid (Bug #26699).

- Added a CSS class **umcIconLoading** (Bug #26697).

- Added a **validate** method to the Form widget (Bug #26525).

- Added the two events **onCreateDialog** and **onShowDialog** to the widget **MultiObjectSelect** (Bug #27025).

- Added option **multiActionsAlwaysActive** to **umc.widgets.Grid**. It allows to keep multi actions enabled if no item is selected (Bug #27072).

- A widget for the upload of multiple files has been added (Bug #26374).

- The form widget (**umc.widgets.Form**) has been extended such that either `store.put()` (for modifying an existing object) or `store.add()` (for adding a new object) is called automatically (Bug #26543).

- A widget for selecting the time has been added. The widget **DateBox** has been extended to accept JavaScript date objects (Bug #26546).

- The method **credenticals()** of the class **console.auth.Auth** has been removed (Bug #27699).

- The widget **MultiObjectSelect** now offers a parameter to specify the title of its popup dialog (Bug #27258).

- A Javascript function for mapping values to true and false has been fixed (Bug #27055).

- The JavaScript translation function now ensures that the returned value is a string. This resolves the error message **str.slice is not a function** on FireFox (Bug #27280).

6.6.3 Univention Management Console server

- The handling of UMCP messages with MIME types other than JSON has been fixed (Bug #26268).

- Loading of multiple XML definitions for each module is now supported. This enables UMC to use 3rd party UDM modules (Bug #24260).

- Flavours can now get disabled by additional XML definition (Bug #26831).

- The XML definition of a module may define that any of the given flavours overwrites others (Bug #26381).

- Added support for using a different notifier implementation (Bug #26703).

- The order of modules and categories (as displayed in the overview page) can now be specified using a **priority** property (Bug #26350).

- The member method `destroy()` has been added to the UMC module base class. It is called upon destruction of the module process (Bug #26374).

- A problem with a non-UTF-8 default encoding type has been corrected (Bug #27256).

- The upload functionality of the server (and the upload widgets) has been extended to allow for sending additional options along with the file data (Bug #27413).

- The Univention Configuration Registry variables `umc/server/languages/en_US` and `umc/server/languages/de_DE` have been registered and predefined. They provide information about UMC localisation (Bug #24551).

- The tool `univention-management-console-client` can now read the password from a file (Bug #26600).

- File uploads are restricted to */var/tmp/univention-management-console-frontend* (Bug #26635).

- Request options are not returned in the UMCP response anymore (Bug #26635).

6.6.4 Online update module

- The modules now provide an API for third party software to e.g. display messages after module startup (Bug #26774).

- Problems with the installation of components have been corrected (Bug #27078).

- The overview page is now correctly refreshed during the installation of errata updates (Bug #26245).

- The simplified update mechanism now shows the errata level currently installing in the log file (Bug #27011)

- The logs missed one newline after each request from the server. Corrected with Bug #27912

6.6.5 Univention Directory Manager modules

- The Apache site configuration is now properly updated with removing the package ***univention-management-console-module-udm*** (Bug #26280).

- Optimized the UDM computer modules to pass on the given LDAP attributes to the base class when constructing the object (Bug #26454).

- UDM properties can now be hidden by defining Univention Configuration Registry variables (Bug #26947).

- Two issues have been corrected, which caused wrong results for concurrent calls to udm/syntax/choices (Bug #26994)

- Corrected error messages when objects could not be modified, created, moved or removed (Bug #27087, Bug #24841).

- The Python UDM modules are now only built for Python 2.6 (Bug #27328).

- The license type handling has been updated (Bug #26914).

- The consistency check script `univention-sync-memberuid` has been improved (Bug #23601).

- A possible name error has been fixed in the complex syntax (Bug #26850).

- When hosts are assigned to Nagios services, only hosts with Nagios support are now shown (Bug #26065).

6.6.5.1 User / group modules

- The LDAP attribute ***jpegPhoto*** is now saved as binary data in LDAP (instead of base64-encoded data). A new tool `convert-user-base64-photos` to convert-base64 encoded entries for the LDAP user attribute jpegPhoto has been added. JPEG picture that have been previously saved in base64 format are automatically converted during the update (Bug #26872).

- The Samba RID can now be changed for domain controllers, Windows computers, member servers, groups and users (Bug #27111).

- `proof_uniqueMembers` now also adds missing **memberUid** entries to groups in addition toonly setting **uniqueMember** entries (Bug #27775).

- The Univention Configuration Registry-Variable `password/samba/lmhash` has been added to define whether the Samba LM hash should be stored or not. The script ***/usr/share/univention-directory-manager-tools/remove_sambalmpassword*** has been added to remove the Samba LM hash from LDAP objects (Bug #26512).

6.6.5.2 DNS / DHCP modules

- Fixed a traceback which occured when removing DNS attributes from host objects (Bug #25923).

- DHCP options can now be set via the UDM CLI interfaces for DHCP service, server and subnet objects (Bug #26838)

6.6.5.3 Mail module

- The descriptions for the attributes restricting the senders to mail groups and mailing lists have been changed (Bug #24029).

- The shared mail folder object has been changed to search for IMAP services instead of SMTP services (Bug #26438).

- The UDM modules for users, groups, mailinglist and shared folders now check the entered (primary/alternative) mail addresses. If the domain part of the entered mail addresses does not match with any of the existing mail domain objects in LDAP, the mail address will now be rejected. The old behaviour may be restored by setting the following UCR variables to the value **emailAddress** (Bug #23525):

  - `directory/manager/web/modules/users/user/properties/mailPrimaryAddress/syntax`

  - `directory/manager/web/modules/users/user/properties/mailAlternativeAddress/syntax`

  - `directory/manager/web/modules/groups/group/properties/mailAddress/syntax`

  - `directory/manager/web/modules/mail/list/properties/mailAddress/syntax`

  - `directory/manager/web/modules/mail/folder/properties/mailPrimaryAddress/syntax`

6.6.5.4 Printers module

- Fixed handling of printer URIs in the printer module (Bug #25976).

- PDF printers can now be created without specifying a destination URL (Bug #25370).

6.6.5.5 Computers module

- Support for Ubuntu 12.04 LTS clients has been added. An example configuration for Ubuntu clients is described in the Univention Wiki `http://wiki.univention.de/index.php?title=Ubuntu` (Bug #27830, Bug #27581).

- Additional cleanup logic upon removal of a computer object has been implemented; service and host records as well as aRecords of the corresponding forward zone are cleaned up now Bug #26400.

- A problem with the release of MAC / IP address locks for computer objects has been fixed (Bug #27272).

- Managed clients with set kerberos but without posix option will no longer be displayed twice in the UMC search. Mobile clients without the posix option will now also be shown in search results. It is no longer possible to create managed clients without setting at least one of the options posix or kerberos. Managed clients which have been created before this change and neither have set posix nor kerberos option will no longer be displayed in the UMC (Bug #26853).

- The global policy **default-server-umc** has been split into **default-slave-umc**, **default-backup-umc**, and **default-computers-umc** in **univention-management-console-module-ipchange** (Bug #26786).

6.6.5.6 Shares module

- Univention Configuration Registry variable descriptions have been added for `listener/shares/rename` and `listener/shares/rename/fstypes` (Bug #26536).

6.6.5.7 Containers and organisational units

- A new UDM module **container/msgpo** has been added to handle MS GPOs (Bug #26926). A new extended attribute (**gplink**) has been added to save the MS GPO link at container objects (Bug #26926).

6.6.5.8 Extended attributes

- Extended attributes can now be hidden the UMC web interface, i.e. they are only editable through the command line interface (Bug #26921).

- An traceback that occurred in specific settings with extended attributes and custom UDM syntaxes has been corrected (Bug #26080).

6.6.5.9 Other UMC modules

- Univention Configuration Registry values are now directly reloaded in the UMC module after changes have been made(Bug #26243).

- The system-info directory has been moved to `/usr/share/univention-management-console-frontend` to prevent package conflicts (Bug #27781).

6.6.6 Univention Directory Manager command line interface

- An explicit error message has been added to the script `univention-object-type-migrate` in case LDAP schema extensions were not installed correctly (Bug #26304).

- A traceback was fixed in the script `check_group_recursion` (Bug #26104).

- A misplaced warning that has been displayed when emptying certain attributes with the `--set` option has been removed (Bug #18702).

- A formated message will be displayed instead of the full traceback when an error occurs due to invalid options (Bug #7389).

6.7 Software deployment

6.7.1 Repository handling

- A bug in the detection of component errata updates was fixed, which could lead to wrongly detected and long running updates (Bug #27098).

- The handling of component repositories without an explicit architecture sub-directory was fixed (Bug #27149).

- Empty Packages files are now skipped from the repository lists (Bug #26983).

- In case of an error, a detailed traceback is now written to the `/etc/apt/sources.list*` files (Bug #23345).

6.7.2 Local repository management

- Extended the notice in `univention-repository-create` that `update/secure_apt` needs to be disabled on all hosts using that local repository (Bug #26668).

- The **univention-repository** DNS CNAME has been updated to point to the fully qualified domain name of the repository server (Bug #26765).

6.7.3 Software deployment command line tools

- The check mode for errata updates in `univention-upgrade` has been fixed (Bug #26451).

- The installation of errata updates for disabled components has been disabled (Bug #26524).

- The check for updates returned a wrong value, when the repository server was unreachable (Bug #26257).

6.8 Univention Library

- A new module for handling at jobs has been added to the Python library (Bug #26528)

- The functions **get_default_ipv4_address** and **get_default_ipv6_address** have been added to the shell library (Bug #27154).

- Fixed the shell function **stop_udm_cli_server** to really kill the running processes (Bug #27274).

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6.9 System services

6.9.1 DHCP

- The DHCP service is now automatically restarted after a server password change (Bug #27771).

6.9.2 DNS

- The DNS join script no longer waits for a local DNS server if the internal nameserver should not be used (Bug #26642).

- Bind can now be restarted using the Univention Management Console (Bug #26482).

- The Univention Configuration Registry variable `dns/fakeroot` is now documented (Bug #26301). This boolean variable is effective only when no `dns/forwarder`s are set, allowing proper DNS service in environments where the standard DNS root servers are unreachable.

- After changing the server password of a server with LDAP backend, the **bind9** service will now be re-started correctly (Bug #27517).

- In the listener module for the DNS name server a timeout was added to no longer wait indefinitely for a blocked `rndc` process used to reload changed zone files (Bug #25868).

- Two Univention Configuration Registry variables `dns/register/srv_records/ldap` and `dns/register/srv_records/kerberos` have been added to control the DNS SRV registration for LDAP and Kerberos, (Bug #27708).

- The template for `/etc/init.d/bind9` was modified to handle the error case, where restarting the DNS service fails when `samba4` is used as the backend (Bug #26560).

6.9.3 Cyrus

- The join script in **univention-mail-cyrus** now restarts Cyrus (Bug #26570).

- The new Univention Configuration Registry variable `mail/cyrus/mailnotifier` allows to configure the Cyrus mailnotifier option (Bug #26773). `mail/cyrus/notifyd` allows configuring the Cyrus notifyd (Bug #26773).

- A bug in the listener module for creating mail folders regarding quota for mail folders has been fixed (Bug #26891).

- A file handle leak has been fixed in Cyrus imapd 2.2 and 2.4 (Bug #27724).

- A memory leak has been fixed in the Cyrus PAM module (Bug #27727).

- The cron.daily script for Cyrusimapd 2.2 and 2.4 has been fixed (Bug #27780).

6.9.4 Postfix

- `/etc/postfix/transport.db` is now updated after the configuration file of the Univention Configuration Registry Template `/etc/postfix/transport` is written (Bug #27000).

- ***univention-mail-postfix*** no longer disables LDAP-based mail delivery during updates if ***univention-mail-server*** is installed (Bug #26339).

6.9.5 Spam/virus detection and countermeasures

- ClamAV has been updated to version 0.97.5. This version also fixes some virus scan evasion bugs concerning Tar/RAR archive and CHM files (CVE-2012-1459, CVE-2012-1458, CVE-2012-1457, CVE-2012-1443, CVE-2012-1419) (Bug #26751).

- For new installation ***univention-antivir-mail*** provides the initial virus signatures for ClamAV (Bug #27881).

- Proxy settings for the freshclam daemon can now be configured with the new Univention Configuration Registry variables `clamav/proxy/http`, `clamav/proxy/port`, `clamav/proxy/username` and `clamav/proxy/password` or via `proxy/http` (Bug #19471).

6.9.6 Printing services

- The package ***univention-printserver-pdf*** is now able to delete old print jobs using a cronjob. The max age (Univention Configuration Registry variable `cups/cups-pdf/cleanup/keep`) for print jobs, the cronjob interval (UCR-Variable `cups/cups-pdf/cleanup/interval`) and whether the cronjob is enabled or not (UCR-Variable `cups/cups-pdf/cleanup/enabled`), is controlled via Univention Configuration Registry variables (Bug #27846).

- The Univention Configuration Registry templates for `/usr/bin/lp` and `/usr/bin/lpr` have been removed (Bug #25472).

6.9.7 Kerberos

- The keytab file for a member server will no longer be created if no Kerberos key is defined for the LDAP object (Bug #26314).

- Security issue CVE-2011-4862 has been fixed. It it not exploitable unless the UCS configuration has been heavily modified: the telnet service is disabled in the Inetd configuration and Univention Firewall filters the service in the default rules (Bug #25672).

6.9.8 Proxy services

- The Squid NTLM authentication is now implemented via an external program, without using winbind, ntlm_auth or other samba components. However, the authentication program can be configured with the Univention Configuration Registry variable `squid/ntlmauth/tool` (Bug #24281).

- The Univention Configuration Registry variables `squid/ipauth/*` have been removed because the corresponding configuration parameters are no longer supported by Squid 3 (Bug #24281).

- Options (e.g. authentication options) for the squid option ***cache_peer*** can now be set with the new Univention Configuration Registry variable `squid/parent/options` (Bug #24281).

- The Kerberos service principal for the HTTP proxy is now created via UDM instead of `samba-tool` (Bug #24281).

- The basic authentication now uses the authentication helper ***squid_ldap_auth***. The Univention Configuration Registry variables `squid/ldapauth/children` and `squid/ldapauth` have been removed. The old values will be converted to the Univention Configuration Registry variables `squid/basicauth` and `squid/basicauth/children` automatically (Bug #24281).

- The default of the Univention Configuration Registry variable `squid/ntlmauth/keepalive` changed from ***on*** to ***off*** (Bug #27401).

- The package ***univention-squid-kerberos*** provides negotiate (Kerberos) authentication for the web proxy in a Samba4 environment (Bug #27278).

6.9.9 Apache

- The mime-type of `http://localhost/cgi-bin/univention-showload.cgi` was changed to text/plain (Bug #21975).

- The Univention Configuration Registry variables `apache2/ssl/certificate` and `apache2/ssl/key` have been registered (Bug #21574).

6.9.10 Other services

- The `/etc/init.d/rdate` script now starts `ntpdate` on the non-privileged port 54321 to avoid collisions with `ntpd` (Bug #22793).

6.10 Virtualisation

6.10.1 Univention Virtual Machine Manager

- The status images on the virtual instances search page does not trigger HTTP 404 errors anymore (Bug #25635).

- The VNC port of virtual machines is now displayed in a tooltip (Bug #24698).

- It is now possible to change the CD/DVD medium on KVM hosts while the domain is running (Bug #25134).

- Snapshots are now disabled for VMs with more than 4 GB RAM (Bug #26645).

- A validation constraint was added to the memory size of domains (Bug #27747).

- A ordering bug during initialization was fixed (Bug #27751).

6.11 Services for Windows

6.11.1 Samba 3

- The Univention Configuration Registry variables `samba/script/*` allow the configuration of Samba scripts (Bug #26814).

- A new add machine script has been added which can be used on Slave PDC systems (Bug #26821).

- The internal Samba join will also try to join against *localhost* if the normal join failed (Bug #26828).

- The permissions for `/var/log/samba/` were tightened so that non-root users cannot read the content anymore (Bug #25164).

- User shares can now be configured in Univention Configuration Registry (Bug #19019). They are disabled by default (Bug #26414).

- The windows profile directories `windows-profiles/default` and `windows-profiles/default.V2` will be created during update (Bug #27373).

- Package conflicts to the *samba4* packages have been added (Bug #27370).

- Added a help output to `univention-newsid` (Bug #25627).

- While installing *samba*, `/etc/samba/smb.conf` will be created if it does not exist (Bug #26135).

- While installing *univention-samba-local-config* `/etc/samba/local.config.conf` is created if it does not exist (Bug #27764).

- The handling of error messages has been improved in `univention-samba/slave-sync` (Bug #23136).

- The script `share_restrictions.py` has been modified to be compatible to Python 2.4 (Bug #27848).

6.11.2 Samba 4

- A new LDB control has been added to Samba 4 allowing to bypass a uniqueness check in UCS@School (Bug #26768).

- The Univention Configuration Registry variable `samba/share/sysvol/readonly` has been added to configure, whether the sysvol share should be read-only (Bug #27030).

- The Samba share is now created correctly if VFS objects are used (Bug #27121).

- The Univention Configuration Registry variable `samba4/disabled`, if set to true, prevents the execution of the join scripts of *univention-samba4* (Bug #27122).

- The sysvol synchronisation tool and its configuration have been moved into a separate package *univention-samba4-sysvol-sync* (Bug #27249).

- A bug has been fixed in the postinst (Bug #26303).

- The join script now adds the necessary ACL mount options also to ext2 partitions (Bug #27466).

- The retrieval of the machine password in `univention-s4search` has been fixed (Bug #27478).

- Avoid LDAP redirects for `ldapmodify` during DC Slave provision (Bug #27498).

- User shares can now be configured in UCR (Bug #27525). They are disabled by default (Bug #27524).

- The logfiles `log.samba`, `log.smbd` and `log.nmbd` are now rotated (Bug #26376).

- Included basic support for creating and joining Samba 4 sites (implemented for UCS@school) (Bug #26835, Bug #26510).

- After upgrade from Samba3 to Samba 4 replace the inital random machine account password in Samba 4 by the value in `/etc/machine.secret` (Bug #27479).

- Printer access can now be deactivated with the Univention Configuration Registry variables `samba/printmode/usergroup/*` and UCR-Variable `samba/printmode/hosts/*` (Bug #26899).

- `s4search-decode` now also decodes Kerberos keys and **replpropertymetadata** blobs (Bug #27752).

- The default value of `samba/debug/level` has been set to 1 (Bug #26755)

- If `/etc/samba/shares.conf.d` does not exist, it is created when setting up a new share (Bug #26146).

- The Univention Configuration Registry variable `samba/share/netlogon` will be set to **yes** on a Samba 4 DC in the join script of the package **univention-samba4** (Bug #26305).

- The script `/usr/share/univention-samba4/scripts/create-keytab.sh` for recreating the file `/etc/krb5.keytab` has been added. This script will be called during the installation and configuration of **univention-samba4** (Bug #27426).

- The package **samba4** now depends on **samba4-clients** (Bug #26855).

- The new Univention Configuration Registry variable `samba4/provision/primary` has been added. It is used for the migration from Samba 3 to Samba 4 in UCS@school 3.0 (Bug #27513).

- Check if the DC Master is running Samba 4 before attempting to create a site definition there (Bug #27497).

- On the first domain controller updated from Samba 3 to Samba 4, set the Samba 4 machine password to `/etc/machine.secret` as well (Bug #27479).

- Fixed the LDAP service record for the Samba4 domain GUID (Bug #26325).

- Create a Kerberos service principal for DNS updates on domain controllers joined to the domain just like it is done by the Samba 4 provision scripts (Bug #26641).

- Package conflicts to the **samba** packages have been added (Bug #26756).

- The Univention Configuration Registry variable `ldap/server/port` can be used to configure the OpenLDAP passdb backend during Samba 3 to Samba 4 upgrade (Bug #27539).

- Preserve the SID during domain controller joins (Bug #27886).

- Obsolete system startup links will now be removed after the upgrade from **univention-samba** to **univention-samba4** (Bug #26087).

- The password of the Samba 4 DC will be checked while updating to UCS 3.0-2. If the password is not correct, the password of the DC will be reset (Bug #26641).

6.11.3 Univention S4 Connector

- The Univention Configuration Registry variable `connector/s4/mapping/dns/syncmode` has been added to configure the DNS synchronisation (Bug #26464).

- The password last set attributes will only be set if the password was changed (Bug #26466.

- The synchronisation user ***ucs-s4sync*** is no longer created (Bug #26197).

- A typo in the DNS zone removal function was fixed, which prevented a deletion of a DNS zone (Bug #26343).

- The S4 connector will now be restarted when the log files are rotated (Bug #26060).

- The object ***CN=RID Set*** for a DC will be removed if the DC has been removed (Bug #26210)

- The S4 connector now ignores conflicting objects (Bug #27749).

- The parameters ***binddn*** and ***bindpwd*** have been added to the S4 connector join tools. This prevents errors during the join if a DC slave is the first Samba 4 DC (Bug #26505, Bug #26203).

- If an user was added in UCS, the primary group setting will be synced from UCS to S4 as expected. This means the user will no longer be automatically added to the group ***Domain Users*** (Bug #26808).

- The GPO settings are now synchronized through the connector (Bug #26926).

- The SID attribute has been added to the attribute mapping (Bug #26055).

- The primary group will now be set while adding an user (Bug #27157).

- Two Univention Configuration Registry variables have been added to overwrite the aRecord (IPv4) and aAAARecord (IPv6) for a DNS forward zone (`connector/s4/mapping/dns/forward_zone/ZONE/static/ipv4` and `connector/s4/mapping/dns/forward_zone/ZONE/static/ipv6`) (Bug #27156).

- The LDAP connection to the UCS directory will be reopened if it was closed while searching for all S4 changes (Bug #27173).

- NT hashes and Kerberos keys in the Samba 4 directory are only changed if the corresponding UCS object provides an NT hash or at least a ***sambaPwdLastSet*** timestamp (Bug #26569).

- The connector listener handler now writes group objects into a global list. This is a performance improvement which was added with Bug #18619 in UCS 3.0. This global group list is only needed in the the initalisation phase. It is now considered (Bug #24273).

- The match filter for DCs has been amended so that ***computers/windows_domaincontroller*** objects are also synchronized (Bug #26174).

- The restart function in the init script waits now briefly before the service will be started again (Bug #27408).

- Univention Configuration Registry variables have been added, which allow to overwrite SRV record locations through the S4 connector, for example `connector/s4/mapping/dns/srv/_ldap._tcp.test.local/location` (Bug #27706).

- A bug in the synchronisation of DNS CNAME objects from Samba 4 to OpenLDAP has been fixed (Bug #26346).

6.11.4 Univention Active Directory Connector

- If an user was added in UCS, the primary group setting is now synched from UCS to AD as expected. Previously the user was automatically added to the group **Domain Users** (Bug #26809).

- Univention Configuration Registry variables have been added to handle which objects will be ignored by the S4 connector, `connector/s4/mapping/*/ignorelist` (Bug #26860).

- The connector listener handler now writes group objects into a global list. This is a performance improvement which was added with Bug #18619 in UCS 3.0. This global group list is only needed in the the initalize phase. It is now considered (Bug #24273).

- The AD connector will ignore conflicting objects (Bug #26710).

6.12 Other changes

- **imapsync**, **lsb-core**, **ifenslave-2.6**, **attr**, **xserver-xorg-input-vmmouse**, **php5-curl**, **mysql-server-5.1**, **mysql-server**, **libboost-filesystem1.42.0**, **libboost-system1.42.0**, **libgc1c2**, **libxslt1.1**, **catdoc**, **w3m**, **xsltproc**, **freeradius** and **python-suds** have been added to the maintained section of the repository (Bug #27600, Bug #26550, Bug #26444, Bug #26169, Bug #26147, Bug #26735 and Bug #25946), Bug #26390, Bug #27295, Bug #26762).

- Always insert the content of `locale/default` as first entry into `/etc/locale.gen` (Bug #26322).

- The package **python-notifier** was updated to version 0.9.5 (Bug #26701).

- The test framework **ucslint** now checks for incorrect spellings of "univention" (Bug #17290).

- The init script of univention-runit is now started earlier. This prevents failing service startups of Bind and Univention Directory Notifier when running under VMWare ESX (Bug #26848).

- The package **open-vm-tools** has been added to the unmaintained software repository (Bug #26041).

- When using the option `--help` with the tool `univention-scp` the parameter **timeout** is now listed in the right order before the parameter **pwd_file** (Bug #19642).

- In package **univention-base-files** the script `nfsmounts.py` now reports the failed execution of `univention_policy_result` with a proper message instead of aborting with a traceback (Bug #23639).

- The documentation generator Sphinx has been updated to version 1.0.8 (Bug #27578).

- The script `univention-skel` now uses the Python library **hashlib** instead of **md5**. Further cleanups have been made (Bug #23116).

- The tool `univention-policy-result` now accepts the new options `-W` and `-p`. The handling and reporting of errors in the options were also improved (Bug #23189).

- Hard and soft limits in `/etc/security/limits.conf` can now be specified together using the '-' type (Bug #27709).

- The copyright of all packages has been updated to 2012 (Bug #27297).

- The file `/etc/motd.tail` will be diverted during the upgrade (Bug #27759).

- The unused file `univention-nfs.univention-config-registry` has been removed from the package **univention-nfs** (Bug #24153).

- A non-free icon file in **php-horde** has been removed, instead it will be downloaded (Bug #27379).

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