

UCS 3.0-2 Release Notes



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Inhaltsverzeichnis

1	Release-Highlights	5
2	Empfohlene Update-Reihenfolge für Umgebungen mit mehr als einem UCS-Server / Update von Systemen mit UCS-Komponenten	7
2.1	Hinweise zu Umgebungen mit anderer Dritt-Software	7
3	Vorbereitung des Updates	9
4	Nachbereitung des Updates	11
4.1	Migration auf Grub 2	11
4.2	Entfernen von sambaPwdMustChange-Attributen	11
4.3	Deaktivierung der Generierung von LM-Hashes	11
4.4	Prüfung von Mailadressen	11
5	Hinweise zum Einsatz einzelner Pakete	13
5.1	Umfang des Sicherheits-Supports von Webkit, Konqueror und QtWebKit	13
5.2	Empfohlene Browser für den Zugriff auf die Univention Management Console	13
5.3	Einschränkungen im Samba 4-Betrieb	13
5.4	Migration einer Samba 3-Umgebung auf Samba 4	14
5.5	univention-management-console-frontend	14
6	Changelog	15
6.1	General	15
6.2	Univention Installer	15
6.3	Upgrade provisions (preup and postup scripts)	15
6.3.1	Preup script	15
6.3.2	Postup script	16
6.4	Basic system services	16
6.4.1	Boot loader	16
6.4.2	Linux kernel and firmware packages	16
6.4.3	Univention Configuration Registry	16
6.4.3.1	Internal changes	17
6.4.4	Network interface configuration	17
6.4.5	Univention System Setup	17
6.4.6	Univention Firewall	19
6.4.7	PAM	19
6.5	Domain services	19
6.5.1	OpenLDAP	19
6.5.2	Listener/Notifier domain replication	19
6.5.3	Domain joins of UCS systems	20

Inhaltsverzeichnis

6.5.4	Univention Backup2Master	20
6.6	Univention Management Console	20
6.6.1	Univention Management Console web interface	20
6.6.2	Univention Management Console web server	21
6.6.2.1	Internal changes to widgets and interfaces	21
6.6.3	Univention Management Console server	22
6.6.4	Online update module	23
6.6.5	Univention Directory Manager modules	23
6.6.5.1	User / group modules	23
6.6.5.2	DNS / DHCP modules	24
6.6.5.3	Mail module	24
6.6.5.4	Printers module	24
6.6.5.5	Computers module	24
6.6.5.6	Shares module	25
6.6.5.7	Containers and organisational units	25
6.6.5.8	Extended attributes	25
6.6.5.9	Other UMC modules	25
6.6.6	Univention Directory Manager command line interface	25
6.7	Software deployment	26
6.7.1	Repository handling	26
6.7.2	Local repository management	26
6.7.3	Software deployment command line tools	26
6.8	Univention Library	26
6.9	System services	27
6.9.1	DHCP	27
6.9.2	DNS	27
6.9.3	Cyrus	27
6.9.4	Postfix	27
6.9.5	Spam/virus detection and countermeasures	28
6.9.6	Printing services	28
6.9.7	Kerberos	28
6.9.8	Proxy services	28
6.9.9	Apache	29
6.9.10	Other services	29
6.10	Virtualisation	29
6.10.1	Univention Virtual Machine Manager	29
6.11	Services for Windows	30
6.11.1	Samba 3	30
6.11.2	Samba 4	30
6.11.3	Univention S4 Connector	32
6.11.4	Univention Active Directory Connector	33
6.12	Other changes	33
	Hinweise auf weitere Dokumentation	35

1 Release-Highlights

Mit Univention Corporate Server 3.0-2 steht das zweite Point-Release für Univention Corporate Server (UCS) zur Verfügung. Es umfasst diverse Detailverbesserungen und Fehlerkorrekturen:

- Ubuntu-Clients können nun mit einer eigenen Rechnerrolle in der Univention Management Console verwaltet werden. Die Netzwerkeigenschaften für DNS/DHCP können dabei ebenfalls über die Univention Management Console verwaltet werden. Auf den Ubuntu-Systemen müssen einige Konfigurationsanpassungen vorgenommen werden, die im Univention Wiki dokumentiert sind. [1].
- Für UCS 3.0-2 ist eine eigenständige Installations-DVD verfügbar, so dass bei Neuinstallationen direkt alle Bugfixes aus den Point und Errata-Updates verfügbar sind.
- Das Debian Squeeze Point-Update 6.0.5 wurde integriert. Neben wichtigen Fehlerkorrekturen wurde auch der Linux-Kernel aktualisiert. Er basiert nun auf dem Long-Term-Kernel 2.6.32.59 und bringt viele Bugfixes mit.
- Die Konfiguration von UCS im Appliance-Modus kann nun auch Browser-basiert erfolgen. Dies vereinfacht den Einsatz von UCS als Cloud-Image. Außerdem können die einzelnen Menüs nun weitergehend konfiguriert werden und z.B. einzelne Einstellungen ausgeblendet werden. Das ermöglicht Third Party Integratoren eine bessere Anpassung der Images.
- Die Netzwerk-Einstellungen von Server-Systeme können nun auch per DHCP konfiguriert werden. Dies ist für den Einsatz bei einigen Cloud-Providern benötigt.
- Die NTLM-Authentifizierung am Squid-Proxyserver erfolgt nun über ein eigenständiges Authentifizierungsmodul, das anstelle von Winbind direkt auf das LDAP-Verzeichnis zugreift. Dies ermöglicht ein Single-Sign-On in Verbindung mit Samba 4.

2 Empfohlene Update-Reihenfolge für Umgebungen mit mehr als einem UCS-Server / Update von Systemen mit UCS-Komponenten

In Umgebungen mit mehr als einem UCS-System muss die Update-Reihenfolge der UCS-Systeme beachtet werden:

Auf dem Domänencontroller Master wird die maßgebliche (authoritative) Version des LDAP-Verzeichnisdienstes vorgehalten, die an alle übrigen LDAP-Server der UCS-Domäne repliziert wird. Da bei Release-Updates Veränderungen an den LDAP-Schemata auftreten können (siehe Kapitel 3.4.1 des Handbuchs [2]) muss der Domänencontroller Master bei einem Release-Update immer als erstes System aktualisiert werden.

Generell ist es empfehlenswert alle UCS-Systeme möglichst in einem Wartungsfenster zu aktualisieren.

2.1 Hinweise zu Umgebungen mit anderer Dritt-Software

Bei der Verwendung von 3rd-Party-Software ist generell **vor** dem Update mit dem Hersteller/Vertriebspartner der Software zu klären, ob diese mit der neuen Version von Univention Corporate Server weiterhin uneingeschränkt einsetzbar ist.

Die Hersteller/Vertriebspartner von auf Univention Corporate Server basierenden Produkten sorgen eigenständig für die Veröffentlichung. Updates müssen daher von dort bezogen werden.

Falls Ihnen von Univention angepasste Paketversionen bereitgestellt wurden, so sollte geprüft werden, ob durch die Aktualisierung angepasste Pakete überschrieben werden — vorzugsweise in einer Testumgebung. Sollten Sie hier Probleme feststellen, so wenden Sie sich bitte an Univention.

3 Vorbereitung des Updates

Es sollte geprüft werden, ob ausreichend Festplattenplatz verfügbar ist. Eine Standard-Installation benötigt min. 6 GB Speicherplatz. Das Update benötigt je nach Umfang der vorhanden Installation mindestens 1 GB weiteren Speicherplatz zum Herunterladen und Installieren der Pakete.

Für das Update sollte eine Anmeldung auf den Console mit dem Benutzer **root** durchgeführt und das Update dort gestartet werden. Alternativ kann das Update über die Univention Management Console durchgeführt werden.

Eine Remote-Aktualisierung über SSH wird nicht empfohlen, da dies beispielsweise bei Unterbrechung der Netzverbindung zum Abbruch des Update-Vorgangs und zu einer Beeinträchtigung des Systems führen kann. Sollte dennoch eine Aktualisierung über eine Netzverbindung durchgeführt werden, ist sicherzustellen, dass das Update bei Unterbrechung der Netzverbindung trotzdem weiterläuft. Hierfür können beispielsweise die Tools `screen` oder `at` eingesetzt werden, die auf allen Systemrollen installiert sind.

4 Nachbereitung des Updates

Nach dem Update sollte auf allen Systemen der Befehl `univention-run-join-scripts` als Benutzer `root` aufgerufen werden und das UCS-System neu gestartet werden.

4.1 Migration auf Grub 2

Bei einer Neuinstallation ab UCS 3.0 wird vom Univention Installer direkt Grub 2 in den Bootsektor geschrieben.

Bei einem Update bleibt Grub 1 im Master Boot Record (MBR) installiert. Grub 2 richtet einen Eintrag "Chainload into Grub" ein, der dann das eigentliche Grub 2 lädt.

Eine Dokumentation, um auch auf aktualisierten Systemen Grub 2 direkt in den MBR zu schreiben wird später bereitgestellt ([Bug #23544](#)).

4.2 Entfernen von `sambaPwdMustChange`-Attributen

Ab UCS 3.0-1 wird das Attribut **`sambaPwdMustChange`** in den Univention Directory Manager-Modulen nicht mehr gesetzt. Weiterhin bestehende Attribute sollten durch Aufruf des Skripts `/usr/share/univention-directory-manager-tools/remove_sambapwdlastset` entfernt werden.

4.3 Deaktivierung der Generierung von LM-Hashes

In Samba 3 wurden die Passwörter von Benutzern im LM-Hashverfahren gespeichert. In Umgebungen mit UCS 3.0 sind diese Hash-Einträge nicht mehr nötig.

Wenn keine Dienste im Einsatz sind, die LM-Hashes benötigen, kann durch Setzen der Univention Configuration Registry-Variable `password/samba/lmhash` auf **`false`** die Generierung von LM-Hashes unterbunden werden.

4.4 Prüfung von Mailadressen

Ab UCS 3.0-2 wird vom UDM der Domänenanteil von Mailadressen geprüft. Sollte der Domänenanteil nicht vorab als gültige Maildomäne konfiguriert sein, wird die eMail-Adresse abgewiesen. Es sollte daher geprüft werden, ob bereits Mailadressen an Benutzern, Gruppen, Mailinglisten oder Shared Foldern in Verwendung sind, für die noch kein notwendiges Maildomänen-Objekt im LDAP angelegt wurde.

Das alte Verhalten kann wiederhergestellt werden, indem auf allen Systemen mit UDM die folgenden UCR-Variablen auf den Wert **`emailAddress`** gesetzt werden ([Bug #23525](#)):

4 Nachbereitung des Updates

- `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 Hinweise zum Einsatz einzelner Pakete

5.1 Umfang des Sicherheits-Supports von Webkit, Konqueror und QtWebKit

WebKit, Konqueror und QtWebKit werden in UCS im maintained-Zweig des Repositorys mitgeliefert, aber nicht durch Sicherheits-Updates unterstützt. Webkit wird vor allem für die Darstellung von HTML-Hilfeseiten u.ä. verwendet. Als Web-Browser sollte Firefox eingesetzt werden.

5.2 Empfohlene Browser für den Zugriff auf die Univention Management Console

Univention Management Console verwendet für die Darstellung der Web-Oberfläche zahlreiche Javascript- und CSS-Funktionen. Cookies müssen im Browser zugelassen sein. Die folgenden Browser werden empfohlen:

- Chrome ab Version 14
- Firefox ab Version 7
- Internet Explorer ab Version 8
- Safari (auf dem iPad 2)

Auf älteren Browsern können Darstellungs- oder Performanceprobleme auftreten. Die Einrichtung einer aktuellen Firefox-Version unter UCD 3.1 ist im Univention Wiki [\[3\]](#) dokumentiert.

5.3 Einschränkungen im Samba 4-Betrieb

Die aktuell vom Samba-Projekt veröffentlichten Versionen von Samba 4 unterliegen in der Weiterentwicklung noch stärkeren Änderungen als Samba 3. Einige Funktionalitäten stehen daher noch nicht vollständig zur Verfügung:

- Microsoft Windows Domänencontroller dürfen aktuell nicht in eine Samba 4-Domäne gejoint werden.
- Eine selektive Replikation ist mit Samba 4 nicht möglich, da diese durch Active Directory prinzipiell nicht unterstützt wird.
- Datei- und Druckdienste sollten in einer Samba 4-Umgebung durch Verwendung von Memberservern und somit auf Basis von Samba 3 bereitgestellt werden.
- Samba 4 unterstützt aktuell keine Forest-Domänen.
- Samba 4 unterstützt aktuell keine Vertrauensstellungen.

Weitere Hinweise finden sich in Kapitel 8 des UCS-Handbuchs [\[2\]](#).

5.4 Migration einer Samba 3-Umgebung auf Samba 4

Es existieren zwei grundlegende Verfahren zur Migration von Samba 3 auf Samba 4:

- Aufbau einer parallelen Samba 4-Domäne. Beide Domänen verwenden unterschiedliche NetBIOS-Namen und SIDs. Die Clients treten dann schrittweise der Samba 4-Domäne bei.
- Migration aller Systeme innerhalb eines Wartungsfensters.

Beide Verfahren sind im Univention Wiki ausführlich dokumentiert:
http://wiki.univention.de/index.php?title=Update_to_UCS_3.0_Samba_4.

5.5 univention-management-console-frontend

Ab UCS 3.0-2 wird genauer geprüft, welche Übersetzungen für das UMC Frontend zur Verfügung stehen. Es ist die Schnittmenge aus den systemweit zur Verfügung gestellten Locales (Univention Configuration Registry-Variable `locale`) und den speziell für das Frontend definierten (unter Univention Configuration Registry-Variable `umc/server/languages/*`). Englisch und Deutsch wurden für das Frontend automatisch definiert. Sollte Univention Configuration Registry-Variable `locale` aber Deutsch nicht unterstützen (etwa über `de_DE.UTF-8-UTF-8`), wird Deutsch nicht mehr als Sprache für die Oberfläche auswählbar sein, bis die Konfiguration angepasst wurde.

6 Changelog

Die Changelogs mit den detaillierten Änderungsinformationen werden ab UCS 3.0 nur noch in Englisch gepflegt. Aufgeführt sind die Änderung seit 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](#)).

6 Changelog

- 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 service 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 executed ([Bug #26840](#)).

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](#)).

6 Changelog

- 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](#)).

6 Changelog

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

6 Changelog

- 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 to only 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 occurred 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](#)).

6 Changelog

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

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/forwarders` 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/notifysd` allows configuring the Cyrus `notifysd` ([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](#)).

6 Changelog

- **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 is 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 `ntpd` 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 initial 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 `aAAARRecord` (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 initialisation 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 initialize 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).

6 Changelog

- 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](#)).

Literaturverzeichnis

- [1] Univention. Ubuntu Integration. 2012.
<http://wiki.univention.de/index.php?title=Ubuntu>.
- [2] Univention. Univention Corporate Server - Handbuch für Benutzer und Administratoren. 2011.
http://www.univention.de/fileadmin/download/dokumentation_3.0/ucs-3.0-handbuch.pdf.
- [3] Univention. Univention Wiki - Firefox 7 auf UCD 3.1. 2011.
http://wiki.univention.de/index.php?title=Firefox_7_auf_UCD_3.1.