



Release Notes for Release 7.4.2
February 11, 2014

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1 Shipped Product and Version

Open-Xchange AppSuite backend 7.4.2-rev6

Open-Xchange OX6 backend 7.4.2-rev6

Open-Xchange AppSuite frontend 7.4.2-rev6

Open-Xchange OX6 frontend 6.22.6-rev6

Open-Xchange USM 7.4.2-rev6

Open-Xchange OXtender 2 for Microsoft Outlook 7.2.5

Open-Xchange OXtender for Business Mobility 7.4.2-rev6

Open-Xchange Notifier 1.0.6

Open-Xchange Client Updater 6.18.25

Open-Xchange Text frontend 7.4.2-rev6

Open-Xchange Text backend 7.4.2-rev6

Open-Xchange Documentconverter 7.4.2-rev6

Open-Xchange Readerengine 7.4.2-rev6

2 General information

Open-Xchange encourages administrators to update regularly to the latest available release. An overview of the latest supported Major, Minor and Public Patch Releases can be found in the Knowledgebase at http://oxpedia.org/wiki/index.php?title=AppSuite:Version_Support_Committment. In order to ensure a stable and up to date environment please note the different supported versions.

When updating from backend version 7.4.1 to 7.4.2 within a cluster environment using distributed session storage, live session migration is possible since the relevant parts of the application are compatible with both versions.

When updating from an earlier backend version to 7.4.2 during operation, exceptions and errors might be logged to open-xchange-osgi.log. This is caused by replacing the existing logging framework (log4j or commons-logging) by LogBack. Libraries that are actively in use are replaced by the update mechanism. While the error messages are expected and unavoidable, this handling may negatively influence log results. Please consider

to shut down nodes before updating or restart them as soon as possible after updating to the latest packages. Existing commons-logging or log4j configuration will be migrated to the new central logging configuration, log-back.xml, automatically. Please review this file after updating to ensure all customised parameters have been migrated successfully.

Note that by introducing a LogBack implementation, the backend logging syntax has been improved with 7.4.2. While the new syntax is being used when setting up a machine from scratch, existing nodes will get a compatibility-mode configuration by default. Existing log analysis scripts or pattern may need to get adjusted for new machines. To use the advantages of the new logging syntax, it's recommended to switch to the new log pattern. Please refer to the documentation, how to modify log pattern configuration: http://oxpedia.org/wiki/index.php?title=AppSuite:OX_Logging#Log_File_Format

This release contains various schema-blocking database update tasks that may take some time to execute, depending on database resources, type, amount and complexity of stored data. While these tasks are running for a schema, login to contexts within this database schema is not possible.

With OX App Suite v7.4.2, the name of the "OX Files" app is changed to "OX Drive". As part of our product strategy we developed clients for different desktop and mobile devices to provide improved file handling and synchronization. During development it became clear that a change of name would better reflect customer functionality provided by OX Drive and provide greatest consistency and clarity for users across devices.

Open-Xchange will discontinue Connector for Business Mobility support for Windows Mobile 6, 6.5, Symbian (Mail for Exchange 3.x), Apple iPhone iOS 5 and Blackberry with the major release of OX App Suite v7.6.0, planned for Q2 2014. Further information about the supported platforms are available at http://oxpedia.org/wiki/index.php?title=AppSuite:OX_System_Requirements#Mobility_Solution_-_Supported_Platforms.2C_Features_and_Devices

Open-Xchange will discontinue Support for AJP based communication between the HTTP server and the OX backend server with the next major release of OX App Suite v7.6.0, planned for Q2 2014. Open-Xchange already provides a new HTTP connector, which is based on the Grizzly project. Download and configuration instructions are available at <http://oxpedia.org/wiki/index.php?title=AppSuite:Grizzly>. Starting with the release in Q2 2014, the current AJP based communication will no longer be supported. We encourage administrators to update to the latest Grizzly implementation.

Open-Xchange will discontinue OX App Suite web frontend support for Internet Explorer 9 with the major release of OX App Suite v7.6.0, planned for Q2 2014. Starting with the release v7.4.2, Open-Xchange officially supports Internet Explorer 11.

Open-Xchange will discontinue Open-Xchange Server 6 and OX App Suite calendar and contact synchronization (CalDAV/CardDAV) support for Mac OS X 10.6 (Snow Leopard) and Mac OS X 10.7 (Lion) with the major release of OX App Suite v7.6.0, planned for Q2 2014.

3 Bugs Fixed with this Release

This document provides a summary of bugfixes and changes that have been applied subsequently to shipping Release 7.4.1. Some of the announced bugfixes may have already been fixed at the existing code-base via Patch Releases.

30616 Incorrect information on password length

When configuring a maximum password length of "0" for the OX6 frontend "Change password" plugin, the frontend responded with an error message. This has been fixed to match the documentation where "0" means "not checking the length".

30042 Configuration / Updater window only partly translated

The "trademark" character at Outlook led to some issues regarding file encoding at the download page for the OXUpdater package. This has been fixed. Also, these strings have been translated.

30762 New appointments within Outlook show as new and did not get matched

In certain cases, appointments with Outlook are shown as duplicate when confirming them. This has been solved.

30389 Outlook does not synchronize mails in INBOX

New Mails have not been synchronized to Outlook because of temporary disabled folders if error status 17 (success, some objects not exported) was returned by usm. Syncing worked fine after a restart of Outlook. This has been fixed by not stopping the sync when status code 17 is returned.

30399 Document conversion fails with unclear error

When reaching a timeout of 60 seconds while converting a document (e.g. Word), a non-descriptive error message has been thrown. This has been changed to a more concrete message.

30246 Printing E-Mail attachments like pdf does not work from "View document"

Trying to print an Mail attachment right after adding it to a Mail failed. This has been solved.

30202 Asian language documents are not rendered completely

Some asian characters have not been rendered correctly at document preview. This has been fixed by updating the corresponding IPA font package.

30006 Editing documents with multiple users led to "read-only" mode

Certain characters are not correctly detected as user-identifiers which led to unexpected loses of synchronization when editing a document as a group. This has been solved by also considering special characters as user identifier

29973 Missing icons for OX Text frontend on RPM based distributions

Incorrect paths to OX Text icons have been supplied by RPM packages. This has been solved by updating the RPM spec file.

29910 Shutting down OX wipes the documents preview cache

Document previews are generated once and get cached for better performance. These cached images had been removed when stopping the open-xchange service. This has been solved by maintaining the preview cache.

29132 ConfigJSlobService complains about Illegal config-tree path

Some warnings have been printed to the log file regarding the settings tree "modules/com.open-xchange.documents". This has been solved by removing the unnecessary entry at /opt/open-xchange/etc/paths.perfMap

28789 File- and Icon-Preview is broken for PDF-files

If a client (e.g. Webbrowser) uploaded a document with a unknown or incorrect MIME type, no preview images had been created. This has been solved by not just taking the supplied MIME type into consideration but also scanning for known file extensions. Additionally, existing broken MIME types can be cleaned using the new "sanitizefilemimetypes" command line tools.

31009 Integration of MSN accounts not possible

When trying to subscribe to MSN/Live.com accounts via oAuth, an error message got reported and integration was not possible. The cause for that are additional, mandatory, parameters for the Live.com oAuth Provider. This has been solved by providing these API parameters during the oAuth process.

30895 Error when forwarding an E-Mail

In certain cases, image attachments were signalled as octet-stream content type. This led to issues when forwarding messages with image attachments. The solution is to accept binary content-types for images as well and not relying on image/*.

30892 Missing translation for "Settings" tour items

The guided tour items at the "Settings" area were lacking translation to several languages. This has been solved by providing the according translation files.

30757 Importing external address books fails if data exceeds a certain limit

If external contact data (e.g. through subscriptions, vCards) exceed the filed size of the corresponding data field at the MySQL database, a SQLException

is raised. This has been solved by checking for a valid size before transferring the information to the database

30721 Error message returned on mailbox access

In cases where the connection to the mail backend has been interrupted, the code still tried to access the mail root folder for certain tasks. This has been solved by checking the status of the mail store instance prior to accessing the folder.

30710 Cannot add a Twitter account

Due to an API change at Twitter, accessing the API is no longer possible in plain-text. This has been solved by using HTTPS. See <https://dev.twitter.com/discussions/24239>

30684 High CPU load when switching to Grizzly HTTP connector

USM not always removed enough old SyncStates when a new one is stored. Now USM make sure that computation which SyncStates need to be removed is performed completely before removing them (will automatically delete old SyncStates in DB if the limit was exceeded by previous USM versions)

30680 Wrong message header: Expected ", got ",," and similar

Several bogus "Content-Disposition" header values causes parse errors inside 3rd party JavaMail library. This has been fixed by gracefully handling such parsing errors.

30636 Publication template "infostore_gallery.tmpl" sensitive to case of file extension

The "Gallery" template expected file names to be lowercase in order to display them within a image gallery. This has been solved by taking all sorts of upper/lowercase filenames into consideration.

30633 Mailfilter edit dialog missing German translation for "Select folder"

The "Select folder" link at mailfilters has not been translated to other languages. This has been fixed by applying the correct l10n tag.

30626 "Collected Addresses" can be renamed

The folder "Collected Addresses" is created by the backend and will be re-created if it gets deleted. Renaming the folder has not been rejected so users that changed that folders name got unwanted folders. This has been fixed by marking this folder as "special folder", rejecting renaming.

30619 Pressing enter with the cursor at the signature name box closes the dialog box

Some browsers modified the button-click attribute by using autodetection. This led to issues when confirming text inputs at dialogs that triggered a "Cancel" rather than "Save" operation. This has been solved by setting an appropriate event-handler.

30584 "getpublication" does not find existing Files publications

Running the "getpublication" command line tool did not returned any Files/ Drive/Infostore publications. This has been solved by accepting such publication types.

30571 Signature title gets garbled using Hindi characters

When using some Hindi characters at mail signatures, the signature title got garbled in the process. This has been solved by using a default MIME type rather than trusting the client.

30552 WebDAV locks are easily predictable

Since WebDAV lock "secrets" are generated by incrementing a number, those could be easily guessed. Also, every user was allowed to remove such locks using the WebDAV protocol. This has been solved by restricting unlock capabilities to the context administrator and the user that did create the lock.

30540 Server crashing after some days of operation

Several actions have been performed to enhance scalability and resource usage on high-load scenarios.

30520 Saving mail as Draft creates duplicate mails

When (auto-)saving a Mail as draft, the previous draft of the mail did not get removed. This has been caused by a flaw at the HTTP API documentation and has been solved by describing/implementing the correct API call.

30516 "Settings" cannot be opened anymore

When using AppSuite on a Smartphone device and following a certain pattern, the "Settings" area could not be opened. This has been solved.

30489 Signatures can be added more than once

Selecting a mail signature repeatedly led to duplicate signatures that got added to the composer. This has been solved by checking for existing signatures prior to add one.

30488 Signatures saved with HTML tags are listed with the tags in composer page

When using HTML tags within mail signatures, these tags have been shown at the signature "preview". This has been solved by just displaying the plain text of the signature but adding the HTML representation to the composer.

30470 Adding attachments with slashes in filename returns incorrect stats

When uploading or adding files to OX Drive that contain slashes within their name (e.g. from mail attachments), a success message is shown despite the operation fails. Now, the correct response is returned if the filename syntax check fails

30469 Adding attachments with slashes in filename returns incorrect stats

When uploading or adding files to OX Drive that contain slashes within their

name (e.g. from mail attachments), a success message is shown despite the operation fails. Now, file names of attachments get sanitised prior to storing them.

30449 Unexpected string visible when synchronizing contacts

When synchronizing contacts with Mac OSX and CardDAV, a CTYPE property is added to the "notes" section of the contact. The OSX Address Book client moves all attributes starting with "X-" to the notes section. This has been solved by not transferring such attributes to the client.

30441 Increased filestore usage related to mail attachments

The preview cache feature (e.g. for mail attachments) stores certain data to the filestore to speed up rendering. This mechanism was broken in case long filenames were used that did not fit a database table that holds reference to the stored file. This led to orphaned files and has been solved by correctly implementing the caching and rollback mechanism.

30439 Missing default trash folder on server

In certain cases, the stored default mail folder paths (e.g. for "INBOX/Trash") were incorrect. This led to IMAP related errors while trying to access folders that don't exist at the existing namespace. This has been solved by recovering from such errors and update the folder name to its correct value.

30437 Birthday widget at the portal just shows entries for one name

If users or contacts share the same name, the birthday of only one of them has been shown at the portal. This may happen for contacts that share the same first- and lastname. The issue has been resolved by re-working a check for duplicate entries to distinguish by birthday, not by name.

30436 Print option available while selecting two distribution lists

When selecting more than one distribution lists at the Address Book, the "Print" option was available but not working as expected. This has been solved by disabling printing if more than one distributionlist is selected.

30431 "Unread" styling does not change in expanded conversation view

When expanding a mail thread, the read/unread status has not been updated correctly for single mails within the thread. This has been solved by refreshing the thread list when modifying such status.

30428 Difference in database tables after upgrading

The DB schema of a new installation differed from that schema of an upgraded version. This has been caused by inconsistent integration of database update scripts. This difference did not have any functional influence. The solution has been to align the updated DB schema to match the one on new installations

30423 Browsercheck shows different result when using Formlogin

Browser detection (for supported/unsupported browsers) cannot be used when logging in using FormLogin which effectively cuts the login page from

the process. This has been solved by offering the `isBrowserSupported()` function to `appsuite/src/browser.js` for usage within alternative login pages.

30418 Missing EN_GB section in AdminUser.properties

British english was missing from the default mail folder definition list. This has been solved by adding the corresponding language section and translation.

30417 Broken error message when uploading large profile picture

In certain cases, the response code of error messages has been incorrectly handled by the frontend if "error_parms" was set and not empty. This has been solved.

30404 Incorrect day and month representation for GMail and Facebook contacts

When importing contacts from GMail or Facebook, their birthday is incorrectly mapped. This has been solved by adjusting to the monthly-mapping and taking timezone differences into consideration.

30400 Accepted appointment invitations are not visible at the calendar immediately

When accepting appointment invitations from external (non-OX) users, that appointment did not show up at the Calendar instantly. This has been solved by triggering the corresponding API refresh call if appointments get accepted.

30398 Dutch translation does not fit to the birthday widget

The chosen dutch translation for "Next birthdays" did not match the header of the birthday widget with typical screen resolutions. This has been solved by using a shorter translation.

30397 Quota widget text takes away space from quota bars

On low screen resolutions, the text describing the existing and used quota overlapped the corresponding quota bar. This has been solved by merging the text with the bar.

30391 Incorrect dutch translation for guided tours

Some strings at the dutch guided tours have been corrected.

30388 Errors thrown when calendar is disabled

If users were not allowed to use the Calendar app, errors have been thrown at the backend log file. This has been solved by considering absent Apps when refreshing automatically.

30387 Outdated user objects got cached

In case a user object changed on one cluster node, the outdated version of the object was still in use by other nodes. This has been solved by using the distributed JCS cache for up-to-date user objects rather than using a local cache.

30384 High load and GC pauses on certain hosts

Several actions have been performed to enhance scalability and resource usage on high-load scenarios.

30376 "Auto Forward" mail filter rule does only apply for "To"

When enabling a mail filter rule that contains a SIEVE "redirect" statement in combination with a header check for "To", the check was applied against "To" only, but not against CC, BCC. This has been solved by also adding these fields to the rule.

30363 Login issues with Chrome on iPad

Using Chrome on iOS is unsupported. However, this browser did not get checked on iPad devices. Now a generic message will be shown for unknown Browser/OS combinations.

30359 Local file inclusion/path traversal via WebDAV

Using forged WebDAV requests, it was possible to obtain locally stored files from the server. This has been solved and published as CVE-2013-7140.

30358 XSS at oAuth accounts servlet

Adding script code to oAuth calls enabled cross-site scripting. This has been published as CVE-2013-7142.

30357 XSS with HTML attachments

Adding certain tags to HTML E-Mails enabled a cross-site scripting vulnerability specific to Internet Explorer 9. This has been published as CVE-2013-7141

30354 Issues when refreshing the grid on multi-select

On mobile devices, refreshing the mail grid was not possible when performing multi-selects. This has been solved.

30351 Impossible to discard new task

When access to Drive was disabled, it was not possible to discard the task creation dialog. This was caused by a check regarding task attachments which failed in this case since the attachment list was not added to the dialog if Drive has been disabled. The corresponding check has been fixed.

30344 Contact subscription message contains service names

The description text for contact subscriptions contained references to certain services. These references have been removed.

30343 CSV contact import from Outlook fails on some systems

When importing dutch CSV files, some entries match the german CSV mapper while other match the dutch mapper. Depending on what matches first, the mapper is chosen. This led to issues importing CSV contact files from outlook. A new mapping has been introduced, specifically for files generated by dutch Office 2007.

30339 Facebook subscription imports wrong address

When importing contacts from Facebook, the "hometown.location" location is used to generate the current "home address". This has been changed to use "current.location" instead.

30338 Using select/de-select all items in confuses bottom bar

When performing select/de-select all items on a smartphone multiple times, the bottom bar shows unexpected elements. This has been solved.

30332 "More" link shown in empty calendar list view

If no appointments are listed at the calendar list view, a link named "More" showed up. This has been solved by enhancing empty list views.

30331 "To" field gets populated unexpectedly

In some rare cases, an extra "To" field is added and filled with the previously entered mail address. This happens when switching to the Subject field at the mail composer. As a solution, the input field now explicitly gets cleared.

30329 Error message contains productname

Some error messages contained hard-coded product names. These have been removed or replaced by branded product names.

30328 "My contact data" does not show "Discard" and "Save" buttons

On iOS based smartphones, the "My contact data" dialog lacked the Save and Discard buttons. This has been worked around and will be completely fixed with the update of the Bootstrap library

30326 Grid view not scrollable in multi-select mode

On some iOS based devices, grid view could not be scrolled once multi-select mode had been enabled. This has been fixed by changing the corresponding event handler.

30322 Unexpected characters are shown if mail subject gets very long

If mails contain very long subjects, Internet Explorer 9 added incorrect characters to the end of the visible subject line. This has been solved by a markup change to prevent issues with this browser in combination with the font awesome library.

30308 Permission issue blocks login

In rare cases, updating a custom theme led to incorrect file permissions. Therefor theme-specific files could not get delivered to the user which effectively blocked the login. This has been solved.

30298 No ability to mark a thread as "unread"

While it's possible to mark an entire thread as "read", the possibility to mark the thread as "unread" has been missing. This has been solved by adding that possibility.

30294 Spamhandler buttons are not available

The detection algorithm for certain "spam handler" plugins was incorrect.

This led to missing functionality when using such handlers. The issue has been fixed by correctly checking for availability of spam handlers.

30292 "undefined" added to folder names

When creating folders with trailing underscore characters, these characters get transformed to "undefined" as string. This has been fixed by handling such characters.

30289 Widget background colours are not applied

When using a smartphone and custom themes, some background colours of Portal widgets were not correctly applied. This has been fixed.

30288 Links get indistinguishable

Link colours of a custom theme matched the colour of the corresponding background element. This has been solved by modifying the links colour.

30287 Increasing load over runtime

Several measures have been applied to ensure more stable operation in environments with lots of concurrent users.

30276 Fluctuating load on idle USM hosts

With earlier releases, compression of the USM in-memory SyncStates has been introduced to avoid long GC runtimes. This led to higher CPU load in return. It has been decided that the load penalty is too high compared to the gains in memory conservation. Therefore, the change has been revoked.

30274 Some mails are unreadable when using Outlook

USM depended on the content-transfer-encoding header to determine the encoding of a mail message. If this header was missing, certain mails could not be transferred correctly. This has been solved by falling back to quoted-printable if no such header is present.

30272 Sent mails are moved along with a thread

When moving a whole thread to a new folder, not only received mails are moved but also mails from the "Sent" folder. This has been solved by ignoring mails from special folder when deleting, copying or moving mail threads.

30271 Modification to default logout URL

For a customer specific package, the default logout URL has been modified.

30262 Upload progress bar gets confused by parallel uploads

When uploading files using drag&drop and the legacy upload dialog at the same time, the upload progress bar acts unexpectedly. This has been solved by using a shared upload queue for both methods.

30248 Online documentation missing email send confirmation

The product documentation did not mention the "Delivery Receipt" feature. This has been solved along with implementing the feature.

30245 "usercopy" reports wrong user ID if copying fails

In cases of incorrectly provisioned users, the "usercopy" command returned an incorrect user id if copying that user failed. This has been solved by adjusting the lookup method.

30218 Incorrect task priority is shown on hover

When hovering over a medium priority task, the information field displays "Low priority". This has been solved by adjusting the string to existing and translated values.

30206 Spaces at titles are not considered at task/appointment list

When saving a task or appointment using a preceding space character, this space is not considered when creating the task list, leading to unexpected results. This has been fixed by adding a own class for whitespace titles.

30205 Increased load

Several actions have been performed to enhance scalability and resource usage on high-load scenarios.

30203 CSS injection issue

Using certain wildcard locators in CSS allowed to override the default stylesheets. This has been solved and published as CVE-2013-6997

30199 Multipart related messaging errors

When handling multipart content, that content could yet be unparsed binary data that needs to be parsed subsequently. This has been solved by correctly parsing binary data.

30191 Unable to create contexts due to MySQL index size limitation

At certain MySQL setups, a specific index has been created in a way that it could exceed the maximum allowed key size since there is no byte restriction applied. In almost all cases, this got auto-corrected by MySQL. As a result, actions like creating contexts could fail if the auto-correction has not been applied. This has been solved by adding the byte restriction to the corresponding table creation and and update task as well as honouring this limit at the backend code.

30186 Unencrypted transfer of credentials with Hazelcast

When using Hazelcast for distributed session storage, user credentials are transferred in plain-text over the network. In almost all cases, this is a secure network. However, to enable a additional line of defence, encryption has been added. This is based on `com.openexchange.sessiond.encryptionKey` value.

30179 String "Open-Xchange" not replaced in legal notice

Legal notices at folder publication texts did contain references to Open-Xchange. This has been removed to support branding/whitelabeling.

30168 Unable to login as webmail user

I rare cases when modifying user permissions on the fly, loading of applica-

tion settings for default folders crashed the web application. This has been solved.

30154 Fetching large address books from Google fails

When fetching contact images, batch processing is not possible. Sequentially loading that information may easily result in temporary rate limiting the OX application, stopping the import process. This has been solved by continuing the import on temporary rate limiting.

30146 Warnings about too big HTML content

Sanitizing and parsing HTML content (e.g. within E-Mails) is limited to a specific size to avoid performance penalty. This limit has been extended to potentially avoid large but still typical HTML messages.

30144 Unable to create contexts when using autocontextid

When using the "autocontextid" extension, under certain circumstances, creating multiple contexts was not possible. This has been solved by ignoring "null" values for LoginMappings and deal with it rather than adding it as a LoginMapping.

30135 Exception when calling OXUserService.getData via SOAP

When calling the SOAP OXUserService.getData method and transferring "nil" values, a NullPointerException was raised. This has been solved by dealing with nil/null values at this point.

30125 HTTP 502 responses after login

When logging in, superfluous write operations to the database backend are initiated by the JSlob implementation. This can lead to high write-load on the database subsystem and subsequently errors that get returned back to the user. The issue is diminished by checking if a parameters value differs from it's current value before actually writing data.

30123 Session invalidation not correctly working on clusters

When modifying a users password, that event did not get distributed within a cluster of OX machines. This has been solved by remotely distributing such events.

30122 Flickr sideview is missing content

CSS for the certain flickr streams has been adjusted to display content in a better way.

30120 Adding mail attachments incorrect with IE10

When adding and removing a attachment file, adding another attachment will add the original attachment as well. This has been solved by updating the corresponding object reference.

30118 Removing single appointment from a series is not possible

If a appointment series contains appointment occurrences that take longer than 24h each, removing them is only possible on the second try. This has been solved by correcting calculation for such long-lasting appointments.

30117 Duplicate IDs not filtered by MAL bundles

Within a custom MAL bundle, duplicate mail IDs have not been filtered, leading to issues when processing such responses later on. This has been solved by filtering duplicate IDs at the MAL.

30107 Mail composer offers "Files" although module is unavailable

When composing mail, the composer still shows "Files" even though the corresponding module has been disabled. This has been solved by correctly applying permission checks to the composer.

30106 Network Activities not shown for LinkedIn

The sidebar for LinkedIn did not show Network activities for a certain user. This has been caused by incorrectly handling JS strings at this location.

30104 Re-setting due date for tasks results in unexpected date

When setting the due date for tasks to a value which is more than one day in the future, the incorrect date got set. This happened when using the "Change due date" quick-link but not when using the ordinary modification dialog. Correctly using UTC timestamps solved the issue.

30094 Password-change dialog does not check for matching passwords

When using built-in authentication and using the "User data" widget to change passwords, passwords are not checked for matching values. The password change fails silently. This has been solved by adding a corresponding message.

30076 Newly created task folders don't show up in "move task" dialog

When creating a new task folder within a modal dialog (e.g. Move task), the new folder does not show up. This has been solved by removing such buttons from modal dialogs. Folder creation is now restricted to the folder tree area.

30074 Search options not showing up for contact folders

When selecting search options for contacts, in some cases no options were shown. This has been fixed by adding a missing function call.

30073 Exporting calendars is not possible

Exporting calendar ics files from existing calendars was not possible with certain browsers. This has been solved by using a dedicated call at the export API.

30068 Saving distribution lists from appointments does not add external contacts

When working with external participants within an appointment, these participants are not added to a distribution list when using the corresponding feature. This has been solved by honouring external participants at such actions.

30067 Mouseover on "next/previous day" buttons are incorrect

When using mouse-over on the next/previous day buttons in calendar, "next/previous week" is shown. This has been solved by using the correct strings at the corresponding view.

30065 Failure message on every access of the login page

When accessing the login page without valid session/cookie information, a error message is created at the backend. This is intended to signal the client to log in. However, the wording was a bit drastic since this is real failure. When accessing the login page the wording "No session created" is used now.

30060 "Public Folder" shows upload button

When accessing the virtual "Public Folder" root folder, a no-op upload button is shown. This has been solved by not adding the button to virtual root folders.

30046 Auto-forward rule cannot be modified

Within certain environments, auto-forwarding mailfilter rules could not be disabled or modified once they're active. This has been solved by taking care of the corresponding rule ID, which could be "0".

30040 Firefox adds images as inline image

When using Firefox and composing mail, attachments that get added from the desktop via drag&drop are added as inline images. Instead, they should be added as attachments. This has been solved by suppressing this specific Firefox capability.

30028 Misleading german Twitter buttons

Some Twitter buttons (e.g. "Folgen") have been ambiguous with regards to their meaning. This has been solved by adapting to more common wording.

30017 Saving mails as files failed

Downloading mails as files failed in certain scenarios. This has been solved by using the correct download action (save instead of zip_messages).

30015 "Task completed" is shown for open future tasks

Recurring tasks showed a "task completed" date even though future tasks of the task series have not yet been completed. This has been fixed by removing the appropriate attribute when creating a new task occurrence.

30009 "Remind me" uses timezone dependent calculation

When using the "Remind me" feature for tasks, certain options like "late in the evening" depended on the local time zone. This could lead to issues if the local (client) and configured user timezone (within OX) did not match. This has been solved by only using one of these settings.

30008 Sending Mail does not update "Sent" or "Drafts" instantly

When composing or sending mail, the message is not instantly added to

the "Drafts" or "Sent" folder. This has been solved by refreshing the corresponding folder after executing such actions. A low delay still exists which is required for the frontend to fetch updated messages within these folders.

29967 SMTP authentication fails if SMTP credentials differ from IMAP credentials

When providing a different user/password combination for SMTP than providing for IMAP, authenticating against SMTP fails. This has been caused by overriding the SMTP credentials. These are now correctly used when authenticating SMTP.

29954 FolderNotFoundException thrown for some folders

The Exchange ActiveSync favourite folder setting has not been considered. This led to errors regarding folder access. The solution is to provide support for such folders if the corresponding setting `com.openexchange.usm.eas.allow_folder_selection` is enabled.

29925 High memory usage on specific hosts using Grizzly

A setting for keep-alive was configured to "infinite" timeout which yields growing number of `DelayedExecutor` instances. This has been solved by resetting the keep-alive setting to its default and exchanging the corresponding library from upstream.

29914 Loader constraint violations

Dependent on OSGi initialization order, Hazelcast might attempt to load a `log4j`-related class that has already been loaded before at another location. This condition will throw a `java.lang.LinkageError` which are treated as fatal in JVM. This was related to a specific environment and has not been noticed again after updating to the last version of the corresponding library.

29906 Incorrect shortcut to AppSuite on iOS

When creating a shortcut to AppSuite in iOS, the page title is used as default shortcut name. This is problematic since the title may vary to signal new mails or the current module. This has been disabled for mobile devices since tabbed browsing is very rarely used in a way it's used on desktop browsers.

29990 Time gap between IMAP and USM mail synchronization

Within certain environments, synchronizing mail can lag significantly if establishing IMAP connections fails. To provide more information about the root cause, debugging options have been added (`com.openexchange.push.imapidle.ImapIdlePushListener`).

29873 Synchronization issues after renaming folders

After renaming mail folders within Outlook, synchronization issues could occur. These were related to using a default folder separator instead of using the one that's used at the mail backend. This separator is now also used when renaming folders via Outlook.

29861 High load issue

One optimization to enhance scalability and resource usage is to avoid separating mail addresses at the backend. This is now performed by the web interfaces and not longer required.

29860 User removal not possible when using corrupted file system

If referenced files could not be found at the file store, removing users was not possible anymore. Even though the root cause is a invalid status of the file storage and cannot be fixed, this situation is handled now.

29849 Changing IMAP display name not possible

When configuring to hide IMAP account details, changing the "Your Name" field is no longer possible. This was caused by an invalid check to a setting that's not accessible for the user in this mode and has been solved by just updating the modified field.

29846 MySQL Deadlock when moving appointments

When moving a lot of appointments in parallel, database deadlocks could occur. This has been solved by forcing serial execution on such operations.

29839 Details for predefined filters are shown

Some mail filter settings, e.g. "Spam" are pre-configured by a OX provider. Details of those settings should not be visible to users. This has been solved by adding filter using the "spam" flag to a list of fixed configurations that may not get modified by the user.

29837 Multiple notifications for a single new mail

In certain cases, notifications for new mails have been triggered multiple times. This has been solved by checking for duplicate notifications.

29832 Location of mail filters in settings pane differs

Depending on the browser that's used, the location of "Mailfilter" varies. This has been solved by properly using indices for that pane.

29831 Missing extension points to disable multiple attachment upload

A extension point has been added to disable support for multiple files upload. This may come handy when supporting legacy browsers.

29823 Memory issues with regards to mail

When sending mail, the input stream for MIME parts has been added the a new thread without checking for vacant threads in the thread pool. This has been solved so threads are used more effective.

29818 Notifications for task reminders are shown last in list

Reminders for tasks are added to the bottom of the notification list. Since this list is usually occupied by a lot of mails, it's unclear what got notified. Therefor, task reminders are added prior to mails at this area.

29816 Issue when forcing TLSv1 as protocol for secure SMTP connec-

tions

Some SMTP servers force TLSv1 to be used rather than legacy SSLv2/v3 protocols. This led to issues if the initiated SSL connection gets terminated but TLS is forced instead. Now, failed SSL handshakes are checked and re-initiated with a forced protocol instead.

29815 Impossible to create yearly recurring appointments

When using dutch as language, it's not possible to define a yearly recurring appointment series. This was caused by an incomplete string containing the corresponding link and has been solved by proper translation.

29801 "Add widget" shown behind a widget

On iOS and Safari, the "Add widget" menu is overlaid by existing widgets. This has been solved.

29797 "Lock" icons get lost when renaming files

When renaming files, the "lock" icon gets removed from the file. This was caused by inconsistent handling of locks when updating a file. Now all views represent the true locking status of the file after renaming.

29774 Default folders may get signalled as deleted

When using USM clients, default folders, such as INBOX or Trash, might get signalled as deleted if the corresponding backend service is no longer available. That breaks several clients that depend on this kind of folder. The issue has been solved by never reporting such folders as "deleted", even if they're temporarily absent.

29759 "undefinedstatusconflict" disables appointment conflicts

Setting `com.openexchange.calendar.undefinedstatusconflict=false` at `calendar.properties` incorrectly disabled all kinds of appointment conflicts. This has been resolved by correctly handling this parameter.

29731 Unhandled responses for /usm-json/ping

When receiving HTTP status 408, some clients did not handle the return code and stopped the synchronization process. This has been solved by retrying after 10 seconds after getting a HTTP408 "Timeout" response.

29704 Task print view shows incorrect date

Print preview for tasks shows incorrect start and end times. This was caused by incorrect timezone calculation of the print template and has been solved.

29676 Mail stays at original folder after moving it

In certain cases, mail messages were still shown at their original folder after moving it to another folder. This has been solved by properly refreshing source and destination folders.

29673 Orphaned popup after closing task recurrence setting

When creating recurring tasks, fragments of the day-picker for weekly tasks stayed visible. This has been solved by refactoring this dialog.

29640 Missing feedback when sending Mail

When sending mail, no explicit feedback is shown anymore. This had been removed since it annoyed some users and consuming the users focus should only happen if interaction is required. Some users however seem to like this kind of feedback so it got re-implemented and can be enabled via `io.ox/mail//features/notifyOnSent=true`.

29597 Different labels used for contact details

Contacts edit and detail view used different labels, for example "mobile" vs. "cell phone". This has been adjusted to be consistent across all dialogs.

29525 Unable to add tasks with PIM permissions

Using the "pim" access combination, some users experienced issues when creating tasks. This has been solved by fixing a runtime error.

29495 Failed external mail account validation for live.com

When configuring a live.com account, port 587 was used as default and despite the API request did not enable secure communication, a SSL connection was established. This connection failed since SSL is not available on this port for the respective service. This has been solved by correctly setting the transport servers encryption protocol accordingly to the API request.

29451 Emoji is garbled in mail list view

Emojis at the mail list view, subject and body have been handled inconsistently. This led to different representation of emotes at these places. The issue has been solved by refactoring the corresponding code.

29371 Missing translation for auto-logout message

When using the auto-logout feature, the associated information message on logout has not been translated correctly. This translation has been provided for various languages and the wording has been optimized.

29350 Global Address Book shown but greyed out when not available

Users that do not have access to the "Global address book" folder did still see the folder but were unable to access it. In order to avoid confusion, this folder is no longer shown at all if a user does not have the appropriate permission set.

29317 Concurrent modification issues on appointment confirmation

When confirming appointments via Outlook, in some cases the confirmation status did not get set correctly. This was caused by concurrent modifications to the calendar object, e.g. by other users also confirming the appointment. Since this was reported to the client as an error, the client acted accordingly and reported an error. Now, USM recovers from this status and tries to update the users confirmation status multiple times before signalling an error.

29307 Moved mail re-appears at original folder

When moving mail in Outlook, the operation succeeded but in some cases

the moved mail re-appears at its original folder. This was caused by a delay when propagating folder-related changes through the OSGi Event System. This delay has been removed in order to return correct data for synchronization.

29272 Search fails for accent characters

When searching for certain accent-characters within the mail body, search did not return the expected result. This has been solved.

28972 Notification messages are sent with incorrect translation

In certain cases, notifications for appointment participants are sent out in english while all participating users have non-english language settings. This has been solved with an earlier release.

28959 Many GC runs

Several actions have been performed to enhance scalability and resource usage on high-load scenarios. In this case, handling IMAPStoreCache has been optimized not to spawn new threads to check if an IMAPStoreContainer has elapsed.

27053 Drag&Drop not reliably working for calendar folders

When using drag&drop to move appointment to another calendar folder, the appointment was not moved. This has been solved by adding a "move" action to the drop-zone handler of folders.

24799 "FB_In_Feed" messages when checking the facebook stream

Certain posts at Facebook have been parsed incorrectly or were not handled before. This has been solved by enhancing and refactoring parsing of posts.

23480 getContext does not fall back to database master if slave fails

Errors have been thrown if the MySQL slave connection fails. Usually such temporary issues get handled by the database pool and the database master is used as a fallback. However, the "autoReconnect" feature did avoid that in certain cases. As a result, the autoReconnect setting at configdb.properties has been set to "false" by default and administrators of MySQL master/slave setups are advised to modify this property at the existing configuration. See Change #1832.

4 Changes relevant for Administrators

4.1 Changes of Configuration Files

Change #1747 Introduced property to specify a comma-separated list of error categories that shall not be logged

Added property "com.openexchange.log.suppressedCategories" to 'server.properties' that provides a comma-separated list of those error categories that shall not be logged.

Default value is: USER_INPUT

Change #1754 New documentconverter property to add remote cache server(s) for conversion speedup

In order to get access to the results of other documentconverter nodes, a node must be aware of the location of other converter cache hosts. For this purpose, a new property has been added to the documentconverter.properties configuration file:

```
com.openexchange.documentconverter.RemoteCacheUrls=http://host1[:port]
/documentconverterCachePath [http://host2[:port]/
documentconverterCachePath ...]
```

Note: host cache Urls are white space separated

If a conversion is requested on one node, the local cache is first searched for an appropriate result. By adding one or more configured cache hosts to this property, each entry of of this property is tried to obtain a conversion result from, if no local cache result can be found.

If a result can be obtained from any of the remote cache hosts, the result is also added to the local cache.

If no result could be obtained from any of the remote cache hosts, a local conversion is performed and the result is added to the local cache as well as to the first (!) configured remote cache host, acting as a master cache host.

In order for a documentconverter to act as a remote cache host, the documentconverter-webservice package needs to be installed in addition to the documentconverter package.

The web service itself is registered at the local (OX backend based) web server with the following path:

```
documentconverterws/cache
```

Change #1760 Introduced property to specify an IP-based black-list for mail account hosts

Introduced property "com.openexchange.mail.account.blacklist" in 'mail.properties' to specify an IP-based black-list for mail account hosts.

Default is empty; meaning no black-listing enabled

Change #1772 Added logback configuration file and dropped Java Util and Log4J configuration files

Java Util or Log4J logging frameworks are replaced with Logback.

Due to dropped Java Util and Log4J logging frameworks their configuration files /opt/open-xchange/etc/file-logging.properties and /opt/open-xchange/

etc/log4j.xml are dropped.

The introduced Logback framework is configured through the configuration file `/opt/open-xchange/etc/logback.xml`. This file contains examples how to write logs to log files and how to send logs to a remote syslog daemon. By default writing to local log files is configured.

If Java Util or Log4J logging configuration contained any additional configured log level for classes or packages or modified log level, these are migrated by package post installation scripts to the new logback configuration.

Depending whether `open-xchange-log4j` was installed or not, the package post installation scripts modify the default logback configuration to send logs to a remote syslog daemon.

Change #1773 Socket level encryption for Hazelcast

Since Hazelcast has built-in encryption support, it makes sense to make the configuration available in the `hazelcast.xml` configuration file. Properties related to encryption have been added and documented within the configuration file, please refer to its "Encryption" section.

Change #1786 Added new property to threadpool.properties

Added new property to file 'threadpool.properties' named "com.openexchange.threadpool.keepAliveThreshold".

That property specifies the threshold indicating when a pool should be considered to hold too many threads. If pool size exceeds that threshold, idle worker threads will be released immediately regardless of keep-alive time.

Default is 1000.

Change #1787 Added new .htaccess file to provide custom webclip icons

The htaccess file can be used to solve different requirements around theming.

- 1) Use the htaccess to provide the correct favicons for Safari and IE
- 2) Use the htaccess to handle fallbacks for missing icons, i.e. Apple-touch icons
- 3) Use the htaccess to serve different login themes based on the request URLs

For more informations, please refer to http://oxpedia.org/wiki/index.php?title=AppSuite:Theming#Favicons_and_mobile_homescreen_icons

Change #1795 Added option to enable logging on each message transport providing "Message-Id"-Header of transported message and asso-

ciated account's information as well

Added option "com.openexchange.smtp.logTransport" to 'smtp.properties' to enable/disable logging on each message transport providing "Message-Id"-Header of transported message and associated account's information as well.

Default is `false`

Change #1804 Introduced property 'com.openexchange.publish.legalHosterName' for publications.properties

The name of the company displayed in the disclaimer of the default publication template must be configurable for/to those company which hosts the publications.

Currently it is set to `Open-Xchange`.

Change #1807 Disabled debugging output in default configuration for Kerberos authentication

The shipped configuration examples for the Kerberos authentication configures debug logging output. This should not be the default for shipped components.

The option for debugging the Kerberos implementation of the JDK is now configured to `false` by default. Therefore the property `sun.security.krb5.debug` is now set to `false` in configuration file `/opt/open-xchange/etc/kerberos.properties`.

The option for debugging the two example principals is now configured to `false`. Therefore both properties named "debug" in configuration file `/opt/open-xchange/etc/kerberosLogin.conf` are now set to `false`.

Change #1809 Removed 'com.openexchange.outlook.updater.appsuiteName' from updater.properties

The property is not needed any longer.

Change #1814 Default state of "stay signed in" checkbox is now configurable

The "stay signed in" status on the signin page is now configurable (server config, i.e. `as-config.yml`):

```
staySignedIn=true|false if "staySignedIn" is false, the checkbox is not checked by default.
```

The UI remembers the user's choice using a cookie in the client browser.

Change #1823 ETag based resource caching is deactivatable now.

A property 'com.openexchange.preview.cache.enabled' has been introduced. Excerpt from `/opt/open-xchange/etc/preview.properties`:

```
# The switch to enable/disable the preview cache
# Default is true (enabled)
```

```
com.openexchange.preview.cache.enabled=true
```

The switch enables/disables the cache globally. Additionally the property can be set via config cascade for a more fine-grained control.

Change #1828 Added capability "com.openexchange.capability.alone" to "permissions.properties" file

Added capability "com.openexchange.capability.alone" to "permissions.properties" file that defaults to `false`.

The property "alone" signals that the user is the only user in associated context/tenant. It disables certain collaborative features and that would therefore be useless in such a context/tenant.

Change #1832 Using no autoReconnect=false for MySQL JDBC connection

If MySQL connections fail, the MySQL JDBC driver tries to repair a connection three times. This results in very delayed fall backs to master if slave is failing.

This reconnection tries is controlled by the `autoReconnect` parameter for MySQL JDBC connections.

Changing in `/opt/open-xchange/etc/configdb.properties` the following properties:

```
readProperty.5=autoReconnect=false  
writeProperty.5=autoReconnect=false
```

This needs to be changed in the provisioning client, too, if the URL for databases is prepared there.

To change this for already registered databases execute the following statement on the `configdb`:

```
UPDATE configdb.db_pool SET url=REPLACE(url, 'autoReconnect=true',  
'autoReconnect=false')
```

Change #1846 Added EN_GB section for standard mail folder names in AdminUser.properties

Added `EN_GB` section for standard mail folder names in `AdminUser.properties` since it was missing

Change #1847 crawlers/XING.yml renamed to crawlers/xing.yml

Configuration file `opt/open-xchange/etc/crawlers/XING.yml` is renamed to `opt/open-xchange/etc/crawlers/xing.yml`

4.2 Changes of Database Schema

Change #1748 Extend the size of the 'fname' column in the 'oxfolder_tree' table, as well as the 'name' column in the 'virtualTree' table

The sizes of the 'fname' column in the 'oxfolder_tree' table and the 'name' column in the 'virtualTree' table are extended to allow bigger data to be stored.

Currently, the filename is limited by the column definitions of "varchar(128)" and "varchar(256)", which may not be enough since a character might consume up to 3 bytes in MySQL. This column definition is therefore going to be changed to "varchar(767)".

Note that the 'del_oxfolder_tree' and 'virtualBackupTree' tables are not touched since the affected columns are no longer used and are going to be removed in a future release anyway. Related UpdateTask: com.openexchange.groupware.update.tasks.FolderExtendNameTask

Change #1768 Added column 'meta' to folder tables which contains a JSON BLOB

Due to support appending arbitrary information to a folder, a "meta" column was added to both table "oxfolder_tree" and "del_oxfolder_tree". Thus a folder can be marked to have a special meaning, e.g. used as trash folder for certain clients. Related UpdateTask: com.openexchange.groupware.update.tasks.AddMetaForOXFolderTable

Change #1785 Add primary key to snippetAttachment table

Added primary key to snippetAttachment table, as needed for running OX with a Galera cluster. Related UpdateTask: com.openexchange.groupware.update.tasks.AddSnippetAttachmentPrimaryKeyUpdateTask

Change #1861 Limit indexes with VARCHARs to max. size of 255 bytes for MySQL v5.6 server support

With MySQL v5.6 and above VARCHAR fields used in an INDEX/KEY need to be explicitly limited by the amount of bytes used for the INDEX/KEY. This behaviour has been implemented to the 'mail' index. Moreover, the affected INDEX has been corrected to also include the context identifier. Related UpdateTask: com.openexchange.groupware.update.tasks.UserAddMailIndexTask

Change #1866 Added update task to get aligned to a DB scheme after a fresh v7.4.1 installation

DB schemes differ if they are either freshly installed on a v7.4.1 basis or evolved through several release upgrades. Therefore an update task is introduced that performs the necessary changes to get aligned to a fresh DB schema. Related UpdateTask: com.openexchange.groupware.update.tasks.DropFKTaskv2

4.3 Changes of Command Line Tools

Change #1769 New CLTs for handling XML configuration files in package post installation scripts

Java Util or Log4j logging frameworks are replaced with Logback.

Logback needs configuration written in XML. For migrating additional logger level configurations from either Java Util or Log4j logging framework configuration files new command line tools are necessary to accomplish this task during package upgrade.

Four additional CLTs have been added to realize the migration of the logging configuration:

1. `extractLog4jModifications` reads the Log4j XML configuration file `log4j.xml` and extracts additionally configured logger levels. This CLT writes these extracts as Java Util logging configuration properties.
2. `extractJULModifications` reads the Java Util logging configuration file `file-logging.properties` and extracts additionally configured logger levels. The output format of this CLT is the same as the input format, the CLT just extracts additionally configured logger levels.
3. `convertJUL2Logback` converts logger levels defined in Java Util logging configuration properties format and converts that to logger levels in Logback XML configuration file format.
4. `xmlModifier` is a general CLT that allows to modify XML configuration files. In this specific case it reads the Logback XML configuration file and adds into that file the additional logger levels written with the `convertJUL2Logback` CLT. Later this tool can be easily extended with further CLT options to do other modifications on XML configuration files.

Change #1771 Added CLI to retrieve the name of the database schema in which a specified context is located

Added CLI `"getschemaname"` to retrieve the name of the database schema in which a specified context is located.

Documentation available at: http://oxpedia.org/wiki/index.php?title=AppSuite:Context_management_7_2#getSchemaName_.28since_v7.4.2.29

Change #1784 Introduced a new command line to tool to dynamically change the log levels of the server, create/remove log filters that enable/disable trace logging for specific sessions, users and contexts and suppress specific exception categories

Introduced a new command line to tool to dynamically change the log levels of the server, create/remove log filters that enable/disable trace logging for specific sessions, users and contexts and suppress specific exception categories.

The CLT is named `logconf` and communicates with the server via a JMX bean (`LogbackConfigurationMBean`).

Change #1793 Added CLI to sanitize those file entries that hold a broken/corrupt MIME type information

Added CLI `sanitizefilemimetypes` to sanitize those file entries that hold a broken/corrupt MIME type information

Documentation available at: http://oxpedia.org/wiki/index.php?title=AppSuite:Context_management_7_2#sanitizefilemimetypes_.28since_v.7.4.2.29

Change #1801 crawlerupdate CLT removed because crawler update feature is removed

Removed the CLT for updating the crawler from remote url.

Change #1867 "closesessions" now requires administrative permissions on execution

Added `-A` option to 'closesessions' CLI to require administrative permissions upon execution.

4.4 Changes of Behaviour

Change #1777 Logging implementation was replaced

There have been a lot of requirements to the logging which results in this change. They can be summed up as follows: make it more configurable and get more information more structured. We tried to have no change regarding the current behavior but if there is one, we apologize!

Change #1778 The login and the logout location might differ. So far it impossible to configure that use-case

The login and the logout location might differ. So far it impossible to configure that use-case.

There are two locations to configure this:

1. Server configuration (`as-config.yml`); just add "loginLocation" (similar to `logoutLocation`)
2. Hard-coded `ox.loginLocation` (for very special use-cases)

Default is "signin" page.

Change #1820 Show folder tree and turn off thread-view by default

Existing OX6 users might be confused by a hidden folder tree and don't understand the concept of a thread-view. Users might think that all folders are lost and that particular emails are missing.

Affected settings:

```
io.ox/mail//threadView=false
```

```
<app>//folderview/visible/large=false  
<app>//folderview/visible/medium=false
```

4.5 Changes of Packaging

Change #1728 Guided tours moved from core to separate package

Guided Tours are now found in the separate package open-xchange-guidedtours instead of being part of the core.

Change #1732 open-xchange-updater-drive provides OXDrive client for Windows via OXUpdater

A new package open-xchange-updater-drive has been introduced. It provides the necessary extensions to make OXDrive available via OXUpdater.

Change #1775 New bundles and removed bundles/packages due to logging change

Java Util or Log4J logging frameworks are replaced with Logback.

The following bundles will be introduced with the change:

```
com.openexchange.logback.configuration  
com.openexchange.logback.extensions  
com.openexchange.logback.clt  
com.openexchange.configuration.clt  
com.openexchange.oxscripts.clt
```

The following package will become obsolete with the change:

```
open-xchange-log4j
```

The following bundles will be removed with the change:

```
org.apache.log4j.configuration  
org.apache.commons.logging.log4j  
com.openexchange.logging.tracking
```

Change #1805 Font-Package to display compatible fonts in the Documentpreview

The package open-xchange-documents-fonts include for rendering chinese, japanese, thai, arabic and hebrew charcters:

```
Droid Serif  
Noto Sans Hebrew  
Noto Sans Symbols  
IPAexGothic  
IPAexMincho  
KACStone  
Arundina
```

For improved compatibility for Microsoft Fonts:

Caladea
Carlito

Change #1848 New package open-xchange-appsuite-help-common

Language-independent files from the online help have been consolidated into a separate package: open-xchange-appsuite-help-common. All language-specific online help packages depend on it.

Custom online help packages can also depend on this package if they reuse the same files. If a custom online help package provides its own versions of these files (at the same locations), then it must conflict with the new package

Change #1851 New frontend language: Finnish

AppSuite frontend and OX Text have been translated to Finnish. This language is provided by the open-xchange-appsuite-l10n-fi-fi package

Change #1852 New backend language: Finnish

AppSuite backend has been translated to Finnish. This language is provided by the open-xchange-l10n-fi-fi package

5 Changes relevant for Developers

5.1 Changes of the HTTP API

Change #1743 Modification of the JSON response for errors

(1) The "error_params" parameter now always holds an empty JSON array, mainly for compatibility reasons with clients expecting something here

(2) The "error_desc" field is newly introduced and contains a technical error message (always English), useful for debugging the problem or putting it into a client-side log

(3) If configured, the "error_stack" parameter provides the stack trace of the associated Java exception

A potential issue might arise if clients directly access the "error_params" array, since they can no longer rely on the presence of replacement parameters there, e.g. for the data size parameters (http://oxpedia.org/wiki/index.php?title=HTTP_API#DataSizeParameters). Therefore, client applications should check their compatibility with the new handling.

The complete format of the response body is documented at http://oxpedia.org/wiki/index.php?title=HTTP_API#Low_level_protocol.

Change #1761 New module "capabilities"

Capabilities indicate which modules or features are available on the back-

end and a user has access to.

The web interface already gets the capabilities inside of another request. Other clients need an easy way to query the available capabilities, too.

Documentation:http://oxpedia.org/wiki/index.php?title=HTTP_API#Module_.22capabilities.22_.28available_with_v7.4.2.29

Change #1810 Log entries belonging to one operation can be tracked

For every request a tracking id is generated and printed out with every log entry:

```
com.openexchange.request.trackingId=1b13e0222f7c4e0a9170d9301462b856
```

For clients it is possible to override this id. That enables aggregating log entries for operations that span multiple requests. Therefore a generic request parameter 'trackingId' can be set for every API call.

Example:

```
GET 'http://example.com/appsuite/api/mail?action=get&id=1&folder=default0%2FINBOX&session=12345&trackingId=<custom identifier>
```

Change #1827 Additional Servlet paths added to HTTP-API

Added Servlet paths to HTTP-API to obtain access to Drive (aka Files aka Infostore) module:

```
/drive  
/files
```

These paths need to be added to Apache configuration in order to enable access

Change #1830 Changed the HTML response for the Ajax callback mechanism

Changed the HTML response for the Ajax callback mechanism to offer a more robust handling towards possible XSS injection.

Please see modified callback pattern at:http://oxpedia.org/wiki/index.php?title=HTTP_API#File_uploads

Change #1860 Added upcoming pgp.encrypt sieve extension

The dynamic part of the mail filter HTTP API is enhanced by a new action "pgp". A detailed description for the JSON format of this new action can be found in http://oxpedia.org/wiki/index.php?title=HTTP_API_MailFilter#Table_27

5.2 Changes of the Java API

Change #1750 HTTP session no longer added by Grizzly request filter

Previously, each HTTP request was enhanced by a HTTP session implicitly at a very early stage in the stack when handling the request ("com.openexchange.http.grizzly.servletfilter.WrappingFilter#doFilter").

This implicit initialization of the HTTP session is now removed. Instead, each servlet needs to take care on it's own to add a HTTP session if needed, typically by calling "javax.servlet.http.HttpServletRequest#getSession(true)" inside the servlet's override of "javax.servlet.http.HttpServletRequest#service".

Since usually all servlets in the backend derive from "com.openexchange.ajax.AJAXServlet" which already did so before, there's no further action required in most cases. For other custom servlets that rely on the HTTP session, one should check that the session is initialized on demand as described above.

Change #1751 New method in com.openexchange.file.storage.FileStorageFolderAccess

In addition to the current method to move a folder to a new location:

```
String moveFolder(String folderId, String newParentId) throws OXException
```

A new overload is introduced that allows passing a new name for the folder:

```
String moveFolder(String folderId, String newParentId, String newName)
throws OXException
```

Change #1776 New org.slf4j.LoggerFactory to obtain a logger

org.slf4j.LoggerFactory should be used to obtain a Logger instead of org.apache.commons.logging.LogFactory and com.openexchange.log.LogFactory.

With that an interface of org.slf4j.Logger will be returned instead of org.apache.commons.logging.Log.

There are bridges which will still support the current behaviour but it is recommended to change the factory. For that com.openexchange.log.LogFactory and its methods are marked as deprecated.

Change #1822 Some method signatures in com.openexchange.groupware.Idap.UserStorage changed

The method signatures for

```
public static User getStorageUser(int uid, Context context)
```

```
public static User getStorageUser(int uid, int contextId)
```

```
public static User getStorageUser(Session session)
```

have been changed to throw com.openexchange.exception.OXException from

now on. Formerly they returned NULL in case of a missing user object. Now an according exception is thrown.

Additionally those methods have been marked as deprecated. User objects should always be loaded via `com.openexchange.user.UserService`.

5.3 Changes to the Frontend API

Change #1836 New JavaScript Library canvas-js
Implemented canvas-js library for displaying charts

Change #1837 Changed URL of online help files
Since image files in online help do not depend on the language, they were consolidated in their own directory `help/images/`. To avoid treating this directory as another language (like e.g. `help/en_US/`), the language directories were moved to their own subdirectory, i.e. `help/en_US/` became `help/l10n/en_US/`.

Custom online help packages need to move the HTML files accordingly. Relative paths to images and external CSS files need to be adapted by adding `../`

Paths in the `.spec` file need to be adapted for packaging. Debian packaging does not need to be adapted, unless it was modified and now explicitly contains the help paths.

Change #1856 AppSuite UI's browser detection can be used as standalone JS component

Customers may want to use a custom login form and the `formlogin`. This `loginform` skips the build-in browser detection of AppSuite UI and redirects the user directly into the UI. Therefore the UI's browser detection was moved to own script that can now be included via `script-tag` into any external login page to perform a browser detection outside of AppSuite.

6 Tests

The Open-Xchange QA team has successfully verified all bug fixes that could be reproduced within a lab environment.

To avoid side effects, the shipped packages have gone through automated regression test on both, a Continuous Integration System and a dedicated server setup for system and integration testing.

All bug fixes have been checked for potential side effects and changed behavior. Unless explicitly stated within this document, we do not expect any side-effects.

7 Fixed Bugs

30616, 30042, 30762, 30389, 30399, 30246, 30202, 30006, 29973, 29910, 29132, 28789, 31009, 30895, 30892, 30757, 30721, 30710, 30684, 30680, 30636, 30633, 30626, 30619, 30584, 30571, 30552, 30540, 30520, 30516, 30489, 30488, 30470, 30469, 30449, 30441, 30439, 30437, 30436, 30431, 30428, 30423, 30418, 30417, 30404, 30400, 30398, 30397, 30391, 30388, 30387, 30384, 30376, 30363, 30359, 30358, 30357, 30354, 30351, 30344, 30343, 30339, 30338, 30332, 30331, 30329, 30328, 30326, 30322, 30308, 30298, 30294, 30292, 30289, 30288, 30287, 30276, 30274, 30272, 30271, 30262, 30248, 30245, 30218, 30206, 30205, 30203, 30199, 30191, 30186, 30179, 30168, 30154, 30146, 30144, 30135, 30125, 30123, 30122, 30120, 30118, 30117, 30107, 30106, 30104, 30094, 30076, 30074, 30073, 30068, 30067, 30065, 30060, 30046, 30040, 30028, 30017, 30015, 30009, 30008, 29967, 29954, 29925, 29914, 29906, 29990, 29873, 29861, 29860, 29849, 29846, 29839, 29837, 29832, 29831, 29823, 29818, 29816, 29815, 29801, 29797, 29774, 29759, 29731, 29704, 29676, 29673, 29640, 29597, 29525, 29495, 29451, 29371, 29350, 29317, 29307, 29272, 28972, 28959, 27053, 24799, 23480,