Release Notes for Release 7.6.1

October 15, 2014

1 Shipped Product and Version

Open-Xchange AppSuite backend 7.6.1-rev5

Open-Xchange OX6 backend 7.6.1-rev5

Open-Xchange AppSuite frontend 7.6.1-rev5

Open-Xchange OX6 frontend 6.22.8-rev5

Open-Xchange USM 7.6.1-rev5

Open-Xchange OXtender2 for Microsoft Outlook 7.2.11

Open-Xchange OXtender for Business Mobility 7.6.1-rev5

Open-Xchange Documentconverter 7.6.1-rev5

2 General information

Open-Xchange encourages administrators to update regularly to the latest available release. In order to ensure a stable and up to date environment please note the different supported versions. 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`

Important, Please Note

Changes to default object quota

We have changed the default quota for the number of allowed items per context from `-1` (unlimited) to `250000`. These new values will be used on new installations of 7.6.1.

On existing installations that are updated to 7.6.1, the new values will only be used if the file `/opt/open-xchange/etc/quota.properties` has never been changed. If specific quotas have already been defined in `quota.properties`, these values will not be overwritten during the update.

Please review the configuration in `quota.properties` after updating to 7.6.1. We strongly recommend using the new default values for context-level quotas unless you have specific reasons to configure higher (or unlimited) quotas.

Resource usage for "updating themes"

When installing or updating frontend code (javascript and/or CSS files) which is delivered by the Open-Xchange backend and has a dependency on available themes, some CSS files have to be (re)generated using Javascript. This process takes up to 60 seconds and is run for each package containing such code, and for each theme present.

We've identified this way of dealing with CSS generation to be too expensive, especially if many themes and frontend customizations are used, and we are working on a better solution. However 7.6.1 still relies on this method. Caused by a growing amount of CSS code to be compiled and very inefficient resource usage of the native Javascript compiler in Java (Rhino), more system resources are required. In detail, we propose at least 2GB of free memory when updating, otherwise the update process may fail. As a work-around, you may install NodeJS for much quicker compilation. If installed, it gets detected and automatically used instead of Rhino. Note that use of NodeJS is currently not officially supported by Open-Xchange, and only used during installation for the generation of CSS files.

Log entries when updating

OX AppSuite 7.6.1 ships some updated third-party libraries. When updating, existing libraries get exchanged with new libraries. If the backend service is running during the update, this may lead to unexpected failures for users and log entries, especially at `open-xchange-osgi.log`. This is expected behaviour during the update. To avoid this, please shutdown the backend service prior to updating.

Cluster compatibility

When updating from an earlier backend version to OX App Suite 7.6.1 please note that there is a major Hazelcast library update with v7.6.1, meaning session migration is not possible between versions. Due to the upgraded library, it is not possible to form a cluster of nodes running a previous version of Hazelcast, i.e. exiting volatile data in the cluster gets lost during the update. This usually affects all user sessions that are stored in a distributed map, and will require the users to re-login after the update. Running incompatible versions of Hazelcast within the cluster will result in log entries showing the conflicting node and version information.

Third party component and API support announcements

Open-Xchange will discontinue support for Debian Squeeze (Debian 6) with the next major release of OX App Suite v7.8.0, planned for Q2 2015. We encourage administrator to update to the latest operating system version of Debian.

Also with v7.8.0, planned for Q2 2015, Open-Xchange will discontinue support for the Random Token login method (sometimes also called Easy Login). In detail, this means that the `login?action=redirect` call (see `http://oxpedia.org/wiki/index.php?title=HTTP_API#Redirect`) will be removed. Furthermore, the `com.openexchange.ajax.login.randomToken` setting will be removed from the `login.properties` file, and the `login?action=login` call will not contain the `random` token anymore. We strongly encourage users of the Random Token login method to change their custom login implementations and use one of the supported methods.

Starting with release v7.6.1, Open-Xchange supports Apple iOS8 for smartphone and tablet devices. Open-Xchange will discontinue support for Apple iOS6 with the next minor release of OX App Suite, v7.6.2, planned for Q1 2015.

Starting with release v7.6.1, Open-Xchange supports Apple Mac OS X 10.10 Yosemite for Calendar, Task, Contact synchronization and OX Drive as well as Safari 8. Open-Xchange will discontinue support for Apple Mac OS X 10.8 Mountain Lion with the next minor release of OX App Suite, v7.6.2, planned for Q1 2015.

Open-Xchange has discontinued support of all vendor supplied stock browsers on Android smartphone and tablet devices with the release of OX App Suite v7.6.1. For such devices, OX App Suite supports the Google Chrome browser, available free of charge for every current Android device.

3 Bugs fixed with this Release

This document provides a summary of bugfixes and changes that have been applied subsequently to shipping Release 7.6.0. Some of the announced bugfixes may have already been fixed at the existing code-base via Patch Releases.

28693 Importing a non-ical into Calendar results in empty error dialog
If response array is empty UI says 'There was no appointment data to import' now.

28918 "collected Addresses" is not created
Custom session creation was implemented bypassing invocation of login handlers.
This has been fixed by using common LoginPerformer to create the UAS session.

29269 tasks reminder time differs between two devices configured against the same account
Added support for "Time" types for task start- and end-dates along with "full_time" flag.

30106 Network Activities not displaying for Linkedin on Portal
The HTTP request performed against LinkedIn-Service do not have any timeouts applied (neither connect nor read timeout). Meaning, a non-responding LinkedIn-Service will block requesting thread undefinitely.
Requests have a reasonable timeout set. Thus the user will at least see an error in affected portal widget.
This is not a fix for the customer as it does not make the LinkedIn data appear in portal widget, but only ensures that at least the affected tile does not stay unresponsive.

30599 Exporting calendar offers a .js file for download
When exporting a specific calendar folder, the exported CSV contains a corrupted format. It is not possible to track down this issue to a particular object, therefor corrupted recurring appointments get skipped and and logging has been extended to track down the bad object.

30903 Auto saved drafts are not removed when sending an email
The message reference id was not set for autosave if present.

30921 Landscape format of App Suite UI on iPad does not fit the screen correctly
This bug was caused by a Safari bug which reports different values for inner- and outerHeight. This 20px difference causes the overflow.

31253 "OK" at the beginning of a line in a sieve script leads to error in mail filter parser
Wrong behaviour during parsing of SIEVE script to stop at any "OK" at the beginning of a line caused the problem.
Solution: Quote-aware parsing of SIEVE script content.

31612 Error while creating a database
Heavy load on the config database during context creation may lead to a closed connection while the code still tries to use it. If this happens during context creation and for this new context a new schema is created, then the check if this new schema is still empty may fail. The code does not recover then and the newly created and empty schema is not deleted. On the other hand the identifier for that schema created from the config database is rolled back by the database because the connection is broken. This leads to the problem that further context creations fail because the schema is then in the way and code checks for an existing schema.
We use a new connection to the config database now to check if the schema did not get any other contexts assigned in the mean time. This should avoid the problem:

31743 Added IMAP mailbox shows endless tree
7.6.1 contains a refactored folder API and refactored tree views.

31834 Missing dependencies for jolokia-munin
Dependencies for JMX::Jmx4Perl are impossible to be loaded automaticly. We use LWP and json instead.

32075 Rename a folder from Samsung S3 Mini EAS is not synchronized
USM was setting an empty tree parameter to the folder update request because the new persistant fields engine delivers empty string for non existing fields instead of null as before.
This has been fixed by setting the tree parameter only if the field is really set (length >0).

32132 Address Book Settings Usability Issue
Moved button to "Basic settings". Also fixed layout for "Edit password" button on this page.

32396 Webservices URLs to show wrong URLs
The endpoint address gets manipulated after accessing it. If a host has multiple aliases, or if there

is a load balancer in-front of a cluster, then upon accessing an endpoint, the original endpoint's address is rewritten and therefore displayed incorrectly. This is a know side-effect of the third party lib CXF (https://issues.apache.org/jira/browse/CXF-5737).
This has been fixed by introducing a new property 'disable-address-updates' which prevents the URL manipulation.

32634   MailNotifyPushListener not pushing Events to EAS-clients when USM running in a different JVM
Push events received on the node that holds the Groupware session were not remotely distributed to other cluster nodes.

32642   Xing contacts import fails because of too short database field length "Profession"
Ensure no database boundaries are exceeded when converting a XING user to a contact entry.

32733   Inconsistent UI preview when minimized
Fixed issue in folderview for small devices.

32860   Increased database load (most likely) after update to 7.4.2 Rev20
Some clients write the same values for user attributes again and again. This resulted in writing the same values again and again in the database causing useless write load.
Solution: Detect in the user caching layer unchanged values for user attributes and do not touch the storage layer at all.

32942   App suite does not honor altnamespace for user all the time
Open-Xchange Server does not support to have different NAMESPACEs on one IMAP server as it assumes it's the same for accounts on that server.
This has been fixed by supporting separate namespaces for different IMAP users (do not globally cache root subfolder capability per IMAP server anymore).

32952   "tmp" partition fills up with EAS mail attachments
apache.james.mime4j TempFileStorageProvider does not automatically remove temp-files

32994   import of gmail csv don't honor job title
Map "Job Title" to field "position" for import of Outlook-style .csv-files.

33004   global address book entrys can not be changed anymore in the future once the context was created while ENABLE_INTERNAL_USER_EDIT=FALSE
Check if user has more permissions than to write own objects in global address book.

33028   Moved folder will re-appear at old location after next sync
Move of a mail causes implicit folder changes that conflicted with move of that folder.
Now USM automatically marks the folder hierarchy as modified when mail item is moved between folders.

33036   Unknown setting path folder/blacklist" error seen in logs when GAB is disabled using key io.ox/core//folder/blacklist/6=true
This problem has been fixed and there will be no error message.

33043   Complete Folder name is not displayed when emptying it
The name of the folder while deleting is now shortened.

33044   Header parsing incorrect when subject is base64 encoded over multple lines
The decoded and folded Subject header was not properly encoded as folding was only assumed to happen for values exceeding 75 character (the max. length of a RFC 2047 style encoded word).

33103   No error shown when trying to create private appointments at shared folders
Missing check for response param

33141   Typo in German online documentation
Typo is fixed with this version.

33145   Not possible to download a mail attachment which contains a "/" in name
Missing character replacement for URI param, slashes are now replaced by underscores.

33201   checkconsistency does not repair missing and/or unassigned items
Provide usage information if parameter is missing.

33229   Emails are not displayed on Sony Z1 Compact with Android 4.4.2
Command ItemOperations did not handle request elements CollectionId & ServerId.
Solution is: Command ItemOperations has been extended with request elements CollectionId & ServerId.

33242   Error when deleting individual appointments in appointment series
User must not be a participant as he is a member of the group. Therefore, the removeUser operation will fail. Handle the case where the user is not a participant and remove him accordingly.

33254   Reordering of autoforward rule in mail filter should not be allowed
The sort functionality for autoforward and vacation notice has been disabled. A warning is displayed when the user tries to reorder these rules.

33261   Downloaded attachments can't be placed by Drag n Drop
Force wrong attribute value in datatransfer event object to one of the allowed values.

33273   Uploading another chunk to a drive file with drive client fails with s3 storage
The S3 implementation was designed to separate the data of each context in a separate S3 bucket. A unique bucket naming restriction as well as a limit of 100 buckets per account break this concept. This has been fixed by switching to a root bucket name per S3 filestore registration and separate context data using fixed prefixes and delimiters.

33286   Capital letters overlapped in addressbook
Fixed the calculation of the label height.

33290   Switching email folders is not working on 10" displays using 1024x600 resolution
Fixed issue in folderview for small devices.

33314   changeuser –access-rss-bookmarks –access-rss-portal without function
Unused access definitions still mentioned in command line tools. Removed obsolete defintions (rssbookmarks, rssportal, forum, pinboardWrite).

33354   Generic error message when creating a mail folder with special characters without any information howto solve the issue as an enduser
The needed error message was missing.

33368   Handling of inline images from within web UI unintuitive and buggy
Fixed with new little bit more intuitive inline image dialog.

33369   dialogue box after adding images to an eMail shows unneeded URL and missing entrys
Using a new inline image dialog for TinyMCE now.

33383   On iPad: New twitter account page does not display
Now the server responds with a redirect if "redirect=true" is provided by client, the UI directly opening popup with standard URL now, relies on redirect=true and proper redirecting.

33386   Documentation improvements for Jolokia Munin
When allowing access to localhost, also allow access to 127.0.0.0/8 and 0:0:0:0:0:0:0:1

33389   Updating from 7.4.2 to 7.6.0 breaks whole OXtender synchronization
Synch states for folders with long IDs that still use old DB-mapping was deleted on Synch of folder hierarchy.
This has been fixed by not deleting synch states for folders that use old DB-mappings for long IDs.

33394   Message count is different in message list and selected pane when select all messages
This has been fixed by changing the calculation of selected messages.

33395   No confirmation when saving settings for a few itens
Changed handling and also the notification text to be more consistent.

33396   ERRORs im groupware.log: MSG-0020 Categories=ERROR Message='Invalid content type value: ?windows-1252?q?application/pdf
Corrupt Content-Type caused a parsing error in turn making affected message unreadable for the user.
Now try to recover from malformed Content-Type value like: "=?windows-1252?q?application/pdf

33401   listfilestore crashes when context is deleted while collecting data
While listing file stores and their usage some context may have been deleted. This happens especially for large installations because reading the real file store usage for every context is a long running operation.
The solution is to not try to get a database connection only with the first context identifier of the file store block. Instead try it for every context identifier in the file store block. For deleted contexts the usage is not read and the default zero value is used.

33402   Distribution lists cannot be printed
Now distribution lists can be printed. First io.ox/contacts//features/printList=list must be set in appsuite.properties.

33412   Your proposed upload is smaller than the minimum allowed object size
For multipart uploads, the S3 API defines a minimum allowed size per uploaded part of 5MB. This was not cosidered by the implementation.
This has been fixed by using larger chunks when performing multipart uploads to S3 stores.

33415   Firefox only: print calendar prints a blank page
Firefox opens every window with about:blank, then loads the url. In some cases the Appsuite UI is to fast and just print a blank pages.
This has been fixed by waiting until it's completely loaded.

33418   Data too long for column "login_info" invalid error
Open-Xchange introduced a feature (based on the open source tool Liquibase) to be able to easily adapt the schema. For further information have a look at `http://oxpedia.org/wiki/index.php? title=AppSuite:DBMigration`

33430   Mailfilter put action stop as first action if other actions are added later, leaving a broken filter rule
If there is a stop action, it is now always at the last position.

33446   Session obtained via TokenLogin can not autologin
Cookie open-xchange-session-... missing

33447   Address book search does not show results from folders other than the global address book
The exclusion of the context administrator for search results was implemented using an appropriate SQL clause, however, the used condition also filtered out any other potential match without an internal user ID.

This has been fixed by correcting the 'exclude context admin' condition in the search term passed down to the storage layer.

33460   Update-themes-rhino.js does not generate theme
Definitions.less and ⟨themeName⟩/definitions.less would have been mapped to definitions.less only, so the custom definitions.less was never loaded with this code.
Solution is to try to load the file directly and if that fails, try to load the file without the directory part.

33478   Lots of expectations after a context has been deleted
AttachmentCleaner started with a delay up to 60sec, in which the context was already deleted.
This has been fixed by starting AttachmentCleaner without delay.

33489   Password shows up in clear text while viewing personal error logs as user
If a user checked the "Error Logs" section of the UI, some requests may expose clear text passwords that the user has entered before. This information is not exposed to any external party, however to ensure privacy and remove unnecessary output, this has been fixed by replacing all (top-level) properties that contain the word "password" by "****".

33500   On phones, when the due date is before the start date for a task, we get the error message, but it persists even if we clear the date
Validation was missing, so the message was not removed.
This has been fixed by adding the validation for the clear button.

33502   On phones, 'Show Completed Tasks' sorting option remains checked even when we uncheck it
A variable was not set correctly.
This issue has been fixed.

33505   WebDAV Userstore is not accessible
A previous bugfix lead to a wrong changing date being inserted for the parent folder upon deletion of a subfolder via the WebDAV interface. This wrong changing date causes problems with the built-in WebDAV client of the Windows operating system.

33522   Locked databases and failing updatetask "MakeUUIDPrimaryForUserAttributeTable" after updating to 7.6.0
Wrong table was referenced in SQL statement to prepare table "user_attribute" to have UUID as primary key.
Fixed affected SQL statement to properly prepare that "user_attribute" table.

33525   Locked databases and failing updatetask "AddMD5SumIndexForInfostoreDocumentTable" after updating to 7.6.0
There is a bug in the MySQL version [Server version: 5.1.72-2-log (Debian)] that is used by affected customer: http://bugs.mysql.com/bug.php?id=61146
The chosen index name "md5sum" for index ('cid', 'file_md5sum') on table "infostore_document" seems to somehow arise conflicts within MySQL, but shouldn't.
By changing index name to be "md5sumIndex" the ALTER TABLE statement is executed w/o problems.
Changed index name to be "md5sumIndex"
" ALTER TABLE 'infostore_document' ADD INDEX 'md5sumIndex' ('cid', 'file_md5sum')

33535   server max upload size not respected for mail attachments
The max. upload size for the InfoStore module wasn't respected while publishing mail attachments.

33544   signature with html isn't displayed correct
4th generation of TinyMCE blocks data-URL-based images by default. Enabled now. Anyway, support of HTML signatures, especially embedded images is very limited.

33552   javax.mail.internet.AddressException: Contains non-LDH characters
Decode RFC2047 headers first to ensure personal name and email address gets parsed correctly.

33577   Wrong HTML code in signature breaks composing of new email
Sanitizing was not applied if there are closed html/body tags.

33600   Sorting tasks by status is not working correctly
We renamed the old status sorting to urgency sorting which worked fine but caused misunderstandings. Added a real status sort which is using the backend.

33602   Draft gets saved multiple times
When editing a document, in some cases the draft message got saved multiple times. The issue was a race condition.
This has been fixed by waiting for next msgref before saving a draft message.

33620   CVE-2014-5235
CVSSv2: 5.7

33626   Tagging a user needs aliases for changeuser-command
When changes happened and defaultsenderaddress or primary_mail was missing inside the alias list, the change command was failing even if the alias list was not in the focus of the current change. This has been fixed by repairing the alias list by providing the primary_mail and defaultsenderaddress excactly like create user does.

33653   USM internal error "No cached DataObjects for client available"
False behavior by USM was that on a "SlowSyncRequiredException" the returned status code should be "11 = Unknown SyncID" instead of "4 = Internal Error".

33658   Correct Spam translation for Polish language
Changed translation to spam.

33685   hidden folder foldertree will not be displayed in folder pane unless at least one public/shared/subscribed folder exists
This has been fixed meanwhile. The entire folder API was refactored with 7.6.1.

33697   Moving appointments from shared folder only possible into main calendar, now: Unable to move appointments at all
When moving an appointment into a private calendar folder the target folder was hardcoded to the private calendar folder of each user/participant.
Solution: When moving an appointment into a private calendar folder the target is now either a users private calendar or the chosen target folder if the user is the owner of the chosen folder.

33706   Task in shared folder can not be moved
Moving action is now disabled for shared folders.

33711   Warnings: Early gettext calls
Problem was in window.assert().
Removed the console trace entirely, since in practice, it's much less useful than anticipated and causes the most problems with the amount of logs.

33713   Sorting tasks does not work at all
A variable was not set correctly.
This issue has been fixed.

33715   EAS fetches the mail twice instead of only one time
EAS clients fetched a mail twice because the mail source was not available on first fetch. This has been solved by completely providing the mail including source on the first request.

33727   E-Mail folder option 'mark all mails as read' only works the first time
This has been fixed in the meantime.

33729   hidden links in topbar when no documents is installed
The UI now ignores apps that cannot be resolved.

33748   CSV-Import fails - java.lang.StringIndexOutOfBoundsException: null
Depending on the detected encoding, the CSV import tried to skip the byte order mark in the underlying stream. Due to a programming error, the offset of the skipped bytes was not subtracted from the number of bytes to read, which lead to an uncaught runtime exception.

33815   Drop down list closes immediately on mouse down when selecting from auto complete list
The selected name is now added immediately as participant.

33818   Foreign key constraint fails ('ox002_479'.'delDateExternal', CONSTRAINT 'delDateExternal_ibfk_1'
Update task dependencies were mixed up, so in some cases foreign keys in tables 'dateExternal' and 'delDateExternal' were not dropped.
This has been fixed by adding update task to check these foreign keys and drop them if necessary.

33821   BatchUpdateException: Duplicate entry '51065357-2201–1358751067-5' for key 'PRIMARY'
There was the possibility of duplicate entries for participants in arrays. Changed datatype to Set.

33848   PIM-Attachment introduced with 7.6 backendquota does not display proper error message when over quota
Use the same error handling for attachment uploads as for other errors.

33869   changecontext help does not list 'attachment' as valid quota value
Added missing description in CLT for quota module 'attachment'.

33891   New users cannot login since Rev12
Problem was that superfluous line in the code always throwing an exception.
This has been fixed by removing that superfluous line.

33894   Hyperlinks not working in Task module
Recognize links in task description.

33897   adding a contact to the address book from mail module will only copy the email address
The app suite client does not show an already present display name upon contact creation that was triggered from the halo view. This irritates users, as the additional display name information appears to be lost.
Added basic decomposition of display- to first- and lastname for halo contact investigations, so that the client is supplied with more name properties.

33898   automatic address book prefilling uses the From: field as surname <eMail Address>when adding the entry
The app suite client presents a contact's display name as last name in case there's no distinct first- and lastname properties present, which irritates users. This happens quite often for automatically collected contacts from e-mails, since they usually only contain an e-mail address and display name.
Added basic decomposition of display- to first- and lastname for collected contacts.

33914   Cannot drop more than a user capability with a single RMI call
The batch statements to drop the +/- variants of user capabilities used a wrong parameter index. Therefor, just the first supplied capability got dropped when provisioning users via the RMI or SOAP

interface. The parameter index when dropping the +/- variants of user capabilities has been corrected.

33915   Cannot insert more than a user attribute with a single RMI call
Setting more than one user_attribute element (e.g. alias or configuration cascade) at the same time resulted in an error.
This has been fixed by correcting the corresponding SQL statements.

33918   I18n service for locale <locale>has no translation
The names of subscription sources have been passed to I18nService regardless if they were LocalizableStrings or not.
This has been fixed by introducing a new flag to selectively translate subscription sources names.

33920   MySQL slow queries and possibly queries without proper index
Missing indices lead to slow queries when looking up contacts by e-mail addresses. Introduced update task to ensure required indices on 'prg_dates' exist.

33921   Thumbnails are not loaded after changing filestore storage path using changefilestore
Previews for image files are fetched through a caching layer that keeps track of known physical file stores. After filestores are changed, i.e. their URI is no longer valid, the caching layer still kept the obsolete references.
Don't cache filestore references in image preview cache now.

33928   Sort option is not getting ticked on mobile devices
Fixed issue in sort mode.

33931   Moved contacts from shared folder are deleted when the user is deleted which shared the contact folder
When deleting a user (who is not the context administrator), a delete listener kicks in to clean up contacts in non-public folders that were created by the deleted user. This also includes contacts (originally created by the user being deleted) that were moved into other private- or shared folders. Fixed by adjusting the "created by" and "modified by" properties of contacts in shared folders to the ID of the context administrator in case the user who created those contacts is deleted.

33936   Displayname with ampersand not displayed correctly
Caused by incorrect usage of _.escape.
This has been fixed.

33941   com.openexchange.passwordchange.showStrength property not applied
Added appropriate entries for password settings to "paths.perfMap" file.

33956   No valid SMTP error message in the WebUI
The SMTP server in question closes established connection on its own in case a rejected recipient appears. The backend performs a final "flush" on socket output stream safely to not prevent reading returned SMTP return code if SMPT server closes associated connection on its own immediately.

33966   sanitize for OpenSans-Light takes too much time
Apply string normalization only to non-ascii characters. Total time of over 60sec gets down to some milliseconds.

33967   Sent-mails folder is not beeing synced. Unknown USM status 17
102 Processing interim responses were responded to requesting USM client although not needed. Such interim responses breaks response parsing with used HttpClient instance.
This has been fixed by avoiding 102 Processing interim responses for requests executed by USM component Such requests are identified by having the "User-Agent" header set to "Open-Xchange USM HTTP Client".

33992   not all possible parameters of mailto links seem to work
Checked and fixed support for all parameters.

34003   Unable to add MSN oAuth account "The provided request must include a 'code' input parameter"
MSN switched to OAuth 2.0, the server has been adopted.

34009   return receipt option name is completely misleading
Renamed settings to "Show requests for read receipts".

34010   Getting started boxes are not displayed correctly
Tour framework doesn't support smart positioning, missing horizontal offset.

34033   mail-detail <TD>gets padding
Fixed CSS flaw for nested tables.

34067   mail compose and reply does not work when language set to chinese (never-ending loading UI)
The old used TinyMCE in version 3 had language files written like "zh-cn" and with the new TinyMCE 4 this changed to "zh_CN", the legacy mapping caused TinyMCE to try to load a file that does not exist.

34069   Focus lost after pressing delete key on a mail
onSort() now stores active element, sorts nodes, refocuses active element.

34072   Hidden calendar, task or contact folder is unavailable once a public folder is deleted
Refactored all tree views for 7.6.1.

34075   copied contacts are getting the same UID
The UID from the original contact was taken over when creating a copy.

34082   Subfolder behavior on sent items is unexpected
Actual and expected results was mixed up.
"Sent items" and subfolders of "Sent items" now show TO instead of FROM.

34085   Moving RSS widget before first logout removes URL from settings
This bug has been fixed in the meantime.

34201   User cannot confirm task participation if participant added as group user
Users in groups should be able to change their confirmation status now.

34219   Missing "equals" sign in HTML code
Added missing "=".

34222   Text is losing format after replying to an email
The UI code removes text color within blockquotes to keep them simple and legible. At least that's the idea. Now we maintain original colors (to avoid irritation).

34248   runupdate fails
Cache entries for all contexts and login mappings in a schema need to be invalidated once a blocking, schema-level database update is executed. This in turn leads to event invalidations being distributed among different listeners, each of them processed by a different task. All those tasks are executed within the backend's threadpool, which portentially spawns new threads for each task. For a large number of contexts in a schema, the high amount of invalidation processing may lead to so many threads being spawned until finally the resources are exhausted.
Introduced batch cache invalidations targeting such a scenario where thousands of cache entries need to be invalidated at once, which leads to only a single task being executed.

34281   Read_Stream calls on Facebook shows warning about non-approval
Facebook made access to permissions more restrictive since April 30th 2014.
This has been fixed by removing these permissions, because they were unused.

34283   OX server stops responding to requests and needs a restart
An account containing 7.5M contacts was attempted to be synchronized via CardDAV. The re-
sponse generation for listing all E-Tags of the corresponding CardDAV resources consumed a huge
of amount of memory, leading to the Java process no longer responding.
Introduced a hard limit when marshalling the XML elements of a WebDAV response with a depth
>= 1 recursively, defaulting to 250000. In case this limit es exceeded, a "HTTP/1.1 507 Insufficient
Storage" error element is inserted into the response, and further processing is stopped.

34322   Sieve / Filter - Error while communicating with the sieve server
Consider the OK keyword inside a comment in the quote-aware parsing of SIEVE script content.

34341   com.openexchange.admin.user.defaultLanguage not used when creating new user
Added service tracker for ConfigViewFactory and fixed broken userId-check in UserConfigProvider.

**34346   Layout issue (german language settings) for folder settings within external email
accounts**
Markup wasn't correct. Had just one form-group for all rows.
Using <div class="form-group">for each row now.

**34361   Appointment create/delete/update events not fired when primary mail address con-
tains upper case characters**
Case sensitive check for organizer mail address where the storage only contains the lower case
version.
This has been fixed by making the check case insensitive.

34365   SVL-0011 Categories=ERROR Message='Unexpected error: Can't convert from null'
Use native converter for null values.
Please be aware that we cannot definitely say if the mentioned change was really the culprit for the
observed error messages. We just got a stacktrace, without any further information about reprod-
ucability, and this is where the changes were based on.

**34381   "Today" Button in calendar without function when creating a Task with start/due
date**
Changed configuration so that the today button inserts the date everytime.

34462   Sort by colour not working
UI used a color spectrum-oriented order for flags. UI also used a client-side sorting so that drop-
down and order in the list view match. With the introduction of pagination, however, we can no
longer do client-side sorting. That's why the drop-down looks different now.
We now have a new order of colors. The UI also triggers a reload whenever the user changes the
color flag (also required due to pagination, UI doesn't have a full list at hand). Might cause some
load but changing colors is rather a rare use case.

34470   Timezone incorrect in mail search results
Use the client-provided time zone for conversion of mail dates.

**34484   Some translations for "Automatically wrap plain text after character" do not con-
tain "plain text"**
This was fixed by changing german text to "Automatischer Zeilenumbruch in Klartextnachrichten
nach Zeichen:"

34494   Marked email as SPAM is not moved to the SPAM folder immediately
UI only sets a particular bit, it doesn't move the messages. This is up to the server-side spam
handler. UI removes messages from the client-side folder collection now, visually they disappear

instantly. There will be no further reload of the folder. The spam folder will be marked as "expired", so it will be reloaded if the user selects it. From the end-user perspective it only makes sense to assume that "Mark as spam" implies to move the message to the spam folder. Likewise, "Not spam" moves it to the inbox. Also added "Spam" and "Not spam" to the upper toolbar (requires capability (spam), not visible by default).

34495   error message from sieve server is missing in open-xchange logs
SIEVE error messages have been extracted via a simple REGEX that was not sufficient to cope with quoted substrings. Implemented more sophisticated parsing of SIEVE response errors.

34499   csv import stops in case of an invalid email address instead if ignoring it
.csv files exported from Outlook may contain legacy Echange Distinguished Names as e-mail address, which prevents them from getting imported by the backend as e-mail validation fails.
Don't fail on invalid e-mail addresses, instead add a warning to the import result.

34510   Invalid content type in response: text/javascript
charset=utf-8;Respond with common JavaScript call-back snippet for USM user agent.;

34525   Missing fi_FI translation in the mobile view Mail ->Search in app selection dropdown
Fixed/Added translation.

34532   Error when using Facebook
Do not silently swallow necessary information in case a conversion error occurs.

34541   misleading error message for wrong password in external mail configuration
If the validation process for a new account is not successful, now the error message delivered by the server is shown.

34547   Folder permissions hides while scrolling
Disable handler causing focus change when autocomplete input is used in dialog widget (modal dialog)

34551   removal of xing account leaves subscription
Attached a delete listener that correctly removes all Xing subscriptions bound to the Xing OAuth account that gets removed

34552   Portal setup not persistent
This bug has been fixed in the meantime.

34581   fql is deprecated for version 2.1 and higher
Facebook announced deprecation for FQL and REST API. Support for FQL queries will only be available for Graph API v2.0. Therefore stick to use Graph API v2.0 through changing basic API URL to contain "/2.0/" path portion.

34583   Sender address changes to default when editing Draft
This bug has been fixed in the meantime.

34613   collect contacts related menu items still present in UI when disabled for user
Code used strings instead of real booleans. In JavaScript, the string "false" is true. Use real booleans now.

34617   OXSE4UCS - personal data cannot be changed by editing my contact data
Wrong write permission has been signaled to client in case "ENABLE_INTERNAL_USER_EDIT" is set to "false".

34623   Sending mails without SMTP Authentication not possible
Orderly pass null references for user/password arguments in case SMTP authentication is explicitly disabled. This makes JavaMail to properly interpret transport operation being performed w/o any

authentication.

34625   EAS Push does not work on Windows Mobile 8.1
Implementation of Sync element Wait (ActiveSync protocol 12.1).

34633   ClassNotFoundException "UserPermissionBits cannot be found by com.openexchange.caching 7.6.0
Added missing configuration section for "UserPermissionBits" cache region to 'cache.ccf' file to orderly align to cache usage and to disable lateral distribution of its cache elements.

34635   exclamation mark in tasks module not displayed correctly directly after creating task
Priority was represented a string instead of a number, which is parsed now to make it a valid number again.

34656   ClassNotFoundException "DoubleKeyMap cannot be found by com.openexchange.caching 7.6.0"
Wrong cache region name was used in application code. Instead of "OXMessageCache" the identifier "MailMessageCache" was used. As such a cache region is not configured, the default cache region utilizing lateral TCP-based serialization/deserialization was used accidentally.

34662   fi_fi vacation translation wrong
Change 'From' to 'Start' in the vacation settings.

34668   Login not working with IE11 after update to 7.6
In case "com.openexchange.cookie.hash" is set to "calculate" (default) the changing User-Agent string for Windows IE 11 Browser lead to session expiry.
Solution: Special handling for Windows IE 11 Browser in session management.

34669   SVL-0011 Categories=ERROR Message='Unexpected error: null' for Facebook
Added appropriate check for non-existing E-Mail address.

34694   changing "Your Name" in Mail Settings back to 'Givenname Surname' will sends "null" on update
"personal" was reset to "displayname" if not available after a refresh, this has been fixed.

34704   mailfilter rules not displayed
Escaped double quotes weren't parsed correctly and Octet strings were parsed as literals instead of being converted to their ASCII/Unicode representations.

34706   SVL-0011 Categories=ERROR Message='Unexpected error: Thread pool is overloaded
The used login method triggers synchronous update of a session's local IP address, client identifier and hash string through cluster. Such a behavior causes many threads to await that cluster-operation to terminate, while being prone to increasing number of stalled threads.
This has been fixed by using timeout-aware operations to distribute either change of local IP address, client identifier or hash string throughout cluster to prevent the system from increasing number of stalled threads.

34710   links in publication url not created via hostname service
Respect HostnameService while generating publication site.

34727   Mail folder could not be found when using search for unified mail account
Wrong full-name was generated for subfolders in Unified Mail.

34728   ClassNotFoundException CapabilitySet cannot be found by com.openexchange.caching 7.6.0
Fixed wrong start-up order inside capabilities bundle. Ensure cache configuration is done prior to registering capabilities service.

34741   Documentation within quota.properties isn't very clear
Improved description for the quota properties.

34765   CVE-2014-7871
CVSSv2: 7.6

34831   Finnish translation improvement for Spam
Fixed/Added translation.

34835   A protocol exception occurred during execution of IMAP request "CREATE Drafts (USE (\Drafts))". Error message: A21 BAD expected end of data
The standard folder checker that pays respect to "SPECIAL-USE" IMAP extension did not honor "CREATE-SPECIAL-USE" capability string when using the "USE" IMAP CREATE command extension.

4   Changes relevant for Administrators

4.1   Changes of Configuration Files

Change #2025   Avoiding URL manipulation of SOAP endpoints in cluster setups
The URLs listed at `/webservices` are getting manipulated/updated after accessing the endpoint address of a SOAP service via an alias host. If a host has multiple aliases, or if there is a load balancer in-front of a cluster, then upon accessing an endpoint, the original endpoint's address is rewritten and therefore supplied incorrectly to the client. This is a know side-effect of the third party lib CXF (https://issues.apache.org/jira/browse/CXF-5737). The new property `com.openexchange.soap.cxf.disableAddressUpdates` has been introduced at `soap-cxf.properties` to prevent such URL manipulation.

Change #2037   Introduced possibility to specify the names of parameters that are supposed to be taken over from session to stored session representation
The file 'sessiond.properties' has been enhanced by the property `com.openexchange.sessiond.remoteParameterNames` that provides a colon-separated list of such names. By default that property is empty/non-existent. The parameter names MUST NOT contain the ':' colon character since it serves a delimiter.

Change #2041   Added new config item `com.openexchange.documentconverter.urlLinkLimit` to `documentconverter.properties`
The external URL link limit specifies the maximum amount of valid external internet URLs (filtered by blacklist and whitelist before), that are tried to get resolved by the engine when loading a document. When this limit is reached, no more external internet URLs are resolved for the current document.
Please note, that this limit is not directly related to the amount of visible linked objects within the document. The code itself often needs to resolve one URL more than once or even twice to finish loading of the objects' content.

In addition, the URL link limit not only affects the amount of URLs, resolved within the viewer but also the amount of resolved URLs when printing or downloading a document, so that the appearance of a viewed and of a printed/downloaded document is similar in general. Set to `-1` for no upper limit or to `0` to disable the resolving of internet URLs completely. Default value: `200`.

Change #2052   `useLocalStorage` can be used to save OX Text documents in local browser storage for performance reasons
If the property `useLocalStorage` (Default: `true`) at `settings/office.properties` is set, the OX Text application tries to save documents in the local browser storage and to load it from there. This leads to a performance improvement during loading the document.

Change #2053   `templatePath` to define the absolute path to document templates
The parameter `templatePath` (Default: `/opt/open-xchange/templates/documents`) at `settings/office.properties` has been introduced for the new documents portal for text and spreadsheet to

locate default templates.

Change #2060   The ability to turn of specific setting pages
Introduced optional server-side setting to provide custom off-switch for available settings panes (comma-separated list).

For example: `io.ox/core/disabledSettingsPanes ='errorlog, io.ox/core/downloads'` will disable the error log and downloads settings pages.

Change #2061   New properties `bucketName` and `pathStyleAccess` for S3 file storage
The configuration file `filestore-s3.properties` that is installed along with the package `open-xchange-filestore-s3` is extended with two new template properties:

- `com.openexchange.filestore.s3.[filestoreID].bucketName`

- `com.openexchange.filestore.s3.[filestoreID].pathStyleAccess` (Default: `true`)

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Change #2063   Increase the size for JSON BLOBs held in database
Changed the column `data` at table `jsonStorage` from type BLOB (64KB) to MEDIUMBLOB (16MB). The associated update task `com.openexchange.jslob.storage.db.groupware.DBJSlobIncreaseBlobSizeTask` is therefore added to `excludedupdatetasks.properties` file as a comment.

Change #2064   Added mapping for default message compose type to `paths.perfMap` mapping file
Added mapping for default message compose type to `paths.perfMap` JSlob-to-config mapping file.

Mail section is enhanced by the line:

- `modules/mail/msgformat > io.ox/mail//messageFormat`

.

Change #2065   Added mapping for display of receipt notifications to `paths.perfMap` mapping file
Added mapping for display of receipt notifications to `paths.perfMap` JSlob-to-config mapping file.

Mail section is enhanced by the line:

- `modules/mail/displayReceiptNotification > io.ox/mail//sendDispositionNotification`

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Change #2074   Removed obsolete `rssbookmarks`, `rssportal`, `forum` and `pinboardwrite` feature from `ModuleAccessDefinitions.properties`
The access definitions `rssBookmarks`, `rssPortal`, `forum` and `pinBoardwrite` module were removed from the code because it was never completely implemented and cannot be used. Therefore deleted above mentioned definitions from `ModuleAccessDefinitions.properties` otherwise it will be identified as an unkown feature. This may require changes at provisioning tools.

Change #2079   New properties to configure allowed characters in passwords
The properties `com.openexchange.passwordchange.allowedPattern` and `com.openexchange.passwordchange.allowedPatternHint` are added to the configuration file `passwordchange.properties`. Additionally, the description of all other properties in this file have been rendered more precisely.

Change #2081   Dropped `minIdle` parameter from `configdb.properties`
It does not make any sense anymore to create resources and let them lay around for a possible usage. It is more efficient to create these resources - database connections - on demand when

they are necessary.

Change #2083   Support full logininfo with default LDAP auth bundle
Added the new property `useFullLoginInfo` to `ldapauth.properties` (Default: `false`).

Change #2085   Config file `contextSets/quota.yml` has been adjusted to serve as an example only
The default content of `contextSets/quota.yml` has been changed to bind to a tag that does likely not exist in productive environments. This avoids unwanted unlimited quotas for every user that has the `infostore` permission set.

Change #2086   Add additional hazelcast maps for tracking client, groups mappings and cleanup
Added config files:

- `rtCleanupLock.properties` to decide which cluster member starts a cleanup, auto-evicts entries after one day

- `rtGroupMapping.properties` to keep track of groups SelectorChoice mappings. Multimap that is cleaned when resources are evicted or removed from the already existing HazelcastResourceDirectory.

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Change #2093   Added property to control `NAMESPACE` caching
Introduced property `com.openexchange.imap.namespacePerUser` (Default: `true`) to file `imap.properties`. This option controls whether there it is expected to have a dedicated `NAMESPACE` per user or not. In case of `true`, each mailbox account on associated IMAP server is allowed to have its own `NAMESPACE` set. This might be `""` (root) or `"INBOX."`. Otherwise for `false` every mailbox is assumed to have the same `NAMESPACE` set.

This influences the way Open-Xchange Server detects and caches `NAMESPACE` information; either on a per user basis (more IMAP traffic) or globally (only requested once).

This setting should not be changed our touched unless the IMAP server behavior is well know.

Change #2094   Added property to specify optional image host
Added property to define an optional image host to prevent a certain class of Cross-Site-Scripting attacks. The property allows to specify a separate domain that is used in constructing image URLs.

File `mail.properties` is enhanced by property `com.openexchange.mail.imageHost` (Default: `(empty)`, no image host used).

Exemplary setup:

- Artificially add a host name to /etc/hosts: `127.0.0.1 imageserver.open-xchange.com`

- Enable the `com.openexchange.mail.imageHost` property in `mail.properties`

- Set it to `com.openexchange.mail.imageHost=http://imageserver.open-xchange.com`

- Check a mail with an inline image

As a result, the image shall be delivered through the specified host.

Change #2103   Refactored IMAP IDLE push bundle, including config changes
The following properties have been removed from the `push_imapidle.properties` file:

- `com.openexchange.push.imapidle.errordelay`

- `com.openexchange.push.imapidle.debug`

The following properties have been added to the `push_imapidle.properties` file:

- `com.openexchange.push.imapidle.delay`

- `com.openexchange.push.imapidle.clusterLock`

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Change #2108   Added missing MIME types to `mime.types` **file**
Added missing MIME types to `mime.types` file

- `application/vnd.openxmlformats-officedocument.spreadsheetml.template xltx`

- `application/vnd.openxmlformats-officedocument.presentationml.slideshow ppsx`

- `application/vnd.openxmlformats-officedocument.presentationml.presentation pptx`

- `application/vnd.openxmlformats-officedocument.presentationml.slide sldx`

- `application/vnd.ms-excel.addin.macroEnabled.12 xlam`

- `application/vnd.ms-excel.sheet.binary.macroEnabled.12 xlsb`

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Change #2110   Added `<strike>` **tag to** `whitelist.properties` **file**
Added `<strike>` tag to `whitelist.properties` file through appending following line to HTML tags section:

- `html.tag.strike=""`

.

Change #2116   Introduction of a property that pre-sets the `ALLOWEDITURL` **installation parameter for the updater installer**
`updater.properties` has been extended by a new parameter:

- `com.openexchange.outlook.updater.allowEditUrl` (Default: `true`)

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Change #2130   Added new config item `com.openexchange.documentconverter.blacklistFile` **to** `documentconverter.properties`
The list of external document content URLs that are not allowed to be loaded by the readerengine after loading a document.

The file itself contains a list of (newline separated) regular expressions. Each external URL is first checked against the list of blacklist URL regular expressions. If the external URL matches one blacklist entry, the external URL is then checked against the list of whitelist URL regular expressions.

The behavior in summary is as follows:

- If the URL is not blacklisted and not whitelisted, it is resolved at runtime.

- If the URL is blacklisted but not whitelisted, it is not resolved at runtime.

- If the URL is not blacklisted but whitelisted, it is resolved at runtime.

- If the URL is blacklisted and whitelisted, it is resolved at runtime.

In boolean notation: `valid = (!blacklisted) || whitelisted`.

Please note that the regular expressions need to fully qualify the patterns that the URL should be checked against. Upper/Lower cases need to be handled by the regular expression as well. The file itself needs to be UTF-8 encoded to be read appropriately.

Default: `/opt/open-xchange/etc/readerengine.blacklist`

Change #2131   Added new config item `com.openexchange.documentconverter.whitelistFile`
to `documentconverter.properties`
The list of external document content URLs that are allowed to be loaded by the readerengine after
an external URL matched a blacklist pattern. The file itself contains a list of (newline separated)
regular expressions. Each external URL is first checked against the list of blacklist URL regular ex-
pressions. If the external URL matches one blacklist entry, the external URL is then checked against
the list of whitelist URL regular expressions.

The behavior in summary is as follows:

- If the URL is not blacklisted and not whitelisted, it is resolved at runtime.

- If the URL is blacklisted but not whitelisted, it is not resolved at runtime.

- If the URL is not blacklisted but whitelisted, it is resolved at runtime.

- If the URL is blacklisted and whitelisted, it is resolved at runtime.

In boolean notation: `valid = (!blacklisted) || whitelisted`

Please note that the regular expressions need to fully qualify the patterns that the URL should
be checked against. Upper/Lower cases need to be handled by the regular expression as well. The
file itself needs to be UTF-8 encoded to be read appropriately.

Default value: `/opt/open-xchange/etc/readerengine.whitelist`

Change #2132   Added new config item `com.openexchange.documentconverter.urlLinkProxy` **to**
`documentconverter.properties`
The external URL link proxy config entry specifies a proxy server, that is used by the readerengine
to resolve external links, contained within a document. Such links are e.g. external http:// graphic
links, that are going to be resolved during the filtering process of a readerengine instance.

Set this entry to the address of the proxy server: `host:port`

Recognized protocols for object URLs to be resolved by the proxy are: `http://`, `https://` and `ftp://`

Leave empty, if no proxy server should be used by the readerengine. Default value: `(empty)`

Change #2146   Updating `xingoauth.properties`
Following properties were updated/added after the API matured from beta.

- `com.openexchange.oauth.xing`

- `com.openexchange.oauth.xing.consumerKey`

- `com.openexchange.oauth.xing.consumerSecret`

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Change #2147   Removed XING crawler
Removed XING relevant properties from the `crawler.properties` as well as the definition of the
crawler itself (`xing.yml`). XING is now handled using a native oAuth API, now more crawling re-
quired.

Removed properties:

- `com.openexchange.subscribe.xing`

- `com.openexchange.subscribe.xing.autorunInterval`

Removed file:

- `crawlers/xing.yml`

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Change #2148   Added mail property `com.openexchange.mail.enforceSecureConnection`
Added new property `com.openexchange.mail.enforceSecureConnection` (Default: `false`) to file `mail.properties` that controls whether external mail accounts may only be subscribed if the associated provider supports accessing it by using a secure connection (either SSL or TLS). If neither SSL nor TLS is supported, account subscription is rejected.

Change #2154   Removed old property files `msnoauth.properties` **and** `msnsubscribe.properties`
Bundles `com.openexchange.subscribe.msn` and `com.openexchange.oauth.msn` got replaced by `com.openexchange.subscribe.mslive` and `com.openexchange.oauth.msliveconnect`

Change #2155   New property file `msliveconnectoauth.properties`
Bundles `com.openexchange.subscribe.msn` and `com.openexchange.oauth.msn` got replaced by `com.openexchange.subscribe.mslive` and `com.openexchange.oauth.msliveconnect`

Change #2161   Added property to specify the event delay for push-mail-notify
Added property `com.openexchange.push.mail.notify.delay_millis` (Default: `5000`) to file `push_mailnotify.properties` that specifies the delay time frame in which incoming UDP events are collected and send out as one push event to the OX cluster.

Change #2162   Deny access to documentconverter web-service by default
Deny access to the `/documentconverterws` proxypass via `http://httpd.apache.org/docs/2.2/mod/mod_authz_host.html`. These changes have to get applied manually. Examples can be found at the `proxy_http.conf` distributed as part of the open-xchange-server or at `http://oxpedia.org/wiki/index.php?title=AppSuite:Grizzly#Apache_configuration`

Change #2171   Deny request to REST interface in case basic-auth settings are not configured
Set empty default values for properties `com.openexchange.rest.services.basic-auth.login` and `com.openexchange.rest.services.basic-auth.password`. Keeping those defaults will prevent the REST API to accept connections. Please use a strong username and password combination to secure the interface.

Change #2173   Added new property to specify allowed protocols/schemas for URIs inside HTML content
Added new property `com.openexchange.html.sanitizer.allowedUrlSchemes` (Default: `http, https, ftp, ftps, mailto`) in file `html-sanitizer.properties` to specify allowed protocols/schemas for URIs inside HTML content.

That property specifies a comma-separated list of allowed protocols. This is useful to deny possibly harmful URIs like: `javascript:alert('Evil XSS')` or `vbscript:alert('Evil XSS')`

Change #2177   Add property to enable/disable blocking of thumbnail creation
Browsers limit the number of maximum connections to 6 per domain. Requesting a huge number of thumbnails exceeds that limit quickly. In the meantime, no UI functionality which also needs a server request can be performed. Therefore thumbnails should be created asynchronously and only delivered from cache to make sure the client stays responsive. If there is no cache available we have to decide if we still want to generate thumbnails in a synchronous/blocking fashion.

The property `com.openexchange.preview.thumbnail.blockingWorker` (Default: `false`) has been introduced at `server.properties`.

Change #2186   Added properties file for OX Guard
Added `guard.properties` file for OX Guard providing various new properties. Initially, that properties file provides the `com.openexchange.guard.templateID` (Default: `0`) property to specify the identifier for the default template for being customizable via config-cascade.

Change #2190   Added missing configuration section for `UserPermissionBits` **cache region**
Added missing configuration section for `UserPermissionBits`cache region to `cache.ccf` file.

Change #2197   Optimizing caching behavior and settings
Cachine behavior and settings have been reviewed and optimized at `cache.ccf` in order to avoid superfluous querying of the database service.

Change #2199   Added the possibility to exclude certain remote addresses/IPs from being rate limited
Added the possibility to exclude certain remote addresses/IPs from being rate limited through introducing property `com.openexchange.servlet.maxRateLenientRemoteAddresses` (Default: `(empty)`) to `server.properties` file.

That property allows to specify (wildcard notation supported) those remote addresses/IPs which are excluded from the rate limit checks.

Change #2204   New property: `com.openexchange.webdav.recursiveMarshallingLimit`
To protect from potential very large WebDAV responses when marshalling an unusual amount of elements, the `com.openexchange.webdav.recursiveMarshallingLimit` property has been introduced to `server.properties`.

Change #2206   Improved description for `quota properties`
Scarce description for `quota.properties` often led to inadequate settings, so the description got enhanced.

Change #2219   Significantly lowered default rate limit for incoming HTTP requests
Lowered default value from 1500 to 500 requests per rate limit window. Therefore the default value for `com.openexchange.servlet.maxRate` property in file `server.properties` has been changed to 500.

Change #2221   Introduced reasonable default values for `quota.properties` **to prevent from database flooding in the state at delivery**
The default value –1 has been changed to `250000` at `quota.properties` for the following values:

- `com.openexchange.quota.calendar`

- `com.openexchange.quota.task`

- `com.openexchange.quota.contact`

- `com.openexchange.quota.infostore`

- `com.openexchange.quota.attachment`

Note that these settings will be applied automatically to `quota.properties` if they have not been manually changed before. This would effectively introduce quota limitations where it has not been enabled before.

Change   #2226 Added   new `documentconverter.properties` **item** `com.openexchange.documentconverter.enableCacheLookup`
To fine-tune responsiveness of OfficePreviewService, the property `com.openexchange.documentconverter.enableCacheLookup` (Default: `false`) has been added to `documentconverter.properties`.

Change   #2227 Added   new `documentconverter.properties` **item** `com.openexchange.documentconverter.errorCacheTimeoutSeconds`
To fine-tune responsiveness of OfficePreviewService, the property `com.openexchange.documentconverter.errorCacheTimeoutSeconds` (Default: `0`) has been added to `documentconverter.properties`.

4.2 Changes of Database Schema

Change #2057   Re-index file- and directory-checksums tables
Two update tasks are introduced to improve the indices on the mentioned tables:

- `com.openexchange.drive.checksum.rdb.FileChecksumsReIndexTask`: Removes the obsolete (folder, cid) and (checksum, cid) indices and creates the following new ones: (cid, folder) and (cid, checksum)

- `com.openexchange.drive.checksum.rdb.DirectoryChecksumsReIndexTask`: Removes the obsolete (folder, cid) and (checksum, cid) indices and creates the following new ones: (cid, user, folder) and (cid, checksum)

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Change #2062   Increase the size for JSON BLOBs held in database
When storing arbitrary JSON BLOBs in database, those BLOBs easily exceed the size limitation of 64KB that is available for MySQL "BLOB" data type.

Hence that type needs to be changed to "MEDIUMBLOB" that allows up to ~16MB. Therefore changed the column "data" from table "jsonStorage" from type BLOB (64KB) to MEDIUMBLOB (16MB).

Associated update task:

- `com.openexchange.jslob.storage.db.groupware.DBJSlobIncreaseBlobSizeTask`

.

Change #2092   Correct erroneous changing dates in table `oxfolder_tree`
Caused by a bug, wrong changing dates may have been stored in the database for folders. A background database update task name `FolderCorrectChangingDateTask` is triggered to correct such erroneous values in the table `oxfolder_tree`.

Change #2109   Database update task to ensure indices are present in table `prg_contacts`
A database update task is introduced that checks the indices in the table `prg_contacts`, and adds missing ones implicitly if needed. The following indices are added on demand:

- `KEY 'givenname' ('cid', 'field03')`

- `KEY 'surname' ('cid', 'field02')`

- `KEY 'displayname' ('cid', 'field01'(255))`

- `KEY 'email1' ('cid', 'field65'(255))`

- `KEY 'email2' ('cid', 'field66'(255))`

- `KEY 'email3' ('cid', 'field67'(255))`

The database update task is run in blocking mode.

Change #2166   Enhance length of column `login_info` **to** `varchar(255)`
Column `login_info` for table `login2context` on `configdb` does not match size desired by the RFC. The change was implemented based on a new framework announced with Change 2163.

Change #2167   New column `full_time` **for the** `task` **and** `del_task` **tables**
An update task is triggered that adds the following column to the tables `task` and `del_task`:

- `full_time BOOLEAN NOT NULL DEFAULT 1`

All existing tasks will get the `full_time` flag assigned implicitly.

Change #2068   Add column `view` **to the table** `directoryChecksums`
To support stored directory checksums for folders where different users may get a different list of contained files, e.g. caused by custom permissions, a new column is added to store a filter-specific `view` along with each directory checksum. The following column is added:

- `view INT NOT NULL DEFAULT 0`

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Change #2156   Update task to drop all existing MSN OAuth accounts
MS Live switched to OAuth 2.0, therefore a new implementation of the protocol was necessary. This results into dropping all existing OAuth 1.0 accounts, i.e. accounts created with prior versions since they are not going to work property. Advise users to re-create their MSN accounts inside of OX.

4.3   Changes of Command Line Tools

Change #2117   New CLT `listconfigdiff` to show configuration changes that varies from the installation
Execute the diff by running `/opt/open-xchange/sbin/listconfigdiff`. The folder `/opt/open-xchange/bundles` is used to get original configuration files and `/opt/open-xchange/etc` is used for installed configuration files. Calling `-h` will also give you the information. With `-f` or `--file` you are able to define a file in which the output of the diff will be written.

The output of the tool shows:

- Differences in file occurrences below the defined folders (additional files, missing files, duplicate files)

- Additional files that are no configuration files

- Differences (changes values, missing properties, additional properties, ...) for all file types marked as configuration file (properties, yaml, yml, conf, cnf, ccf, xml, sh, perfMap, types, no extension)

- Each configuration file type has its own implementation how to compare original and installed configuration file

- Critical properties such as keys or passwords are obscured

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Change #2164   The possibility to modify the configuration database via the liquibase framework was introduced
A new framework for config database migrations comes along with a new command line tool `configdbmigrations`, contained in the `open-xchange-core` package.

Change #2191   A CLT that dumps a Java heap snapshot to a given file
Introduced the `heapdump` command-line tool that dumps a heap snapshot to a given file. This tool will be used by default in `oxsysreport --heap-dump true` if present and supported by used JVM.

Change #2208   New commandline tool `deduplicatecontacts`
In case a client ran into some kind of synchronization cycle and duplicated contacts in an uncontrolled way, an admininstrator is able to eliminate those duplicates with the `deduplicatecontacts` command-line tool.

4.4   Changes of Behaviour

Change #2115   Update bundle com.hazelcast from hazelcast 3.1.5 to 3.2.4
To benefit from bugfixes and better upstream support we update to the latest stable hazelcast release 3.2.4. Due to the upgraded library, it's not possible to form a cluster of nodes running a previous version of Hazelcast, i.e. existing volatile data in the cluster gets lost during the update. This usually affects all user sessions that are stored in a distributed map, and will require the users to re-login after the update.

Change #2040   Optional configuration for less space between paragraphs in mail compose
Some customers want less space between paragraphs. Space is not zero to avoid confusion with

simple line breaks.

How to configure server-side (property file):

`io.ox/core//features/mailComposeSmallParagraphs=true/false` (default: `false`).

Change #2044   Temporary mail files are now deleted within USM in case of forward and reply
USM is using an external lib to create mails. This lib stores temporary mail files and does not delete them in certain cases. Now these temporary mail files are getting removed more reliable. Existing temporary mail files should get deleted manually on update.

Change #2075   `movecontextfilestore` can handle S3 filestores
`movecontextfilestore` can now handle S3 filestores. No changes in clt usage.

Change #2150   Contacts in other user's folders that were created by a user being deleted are preserved now
Previously, if a user was deleted, all contacts that were created by this user in non-public folders were deleted. This has been adjusted, so that only those contacts are now deleted which are located in the deleted users own personal contact folders.

Contacts in other contact folders that were created by the user being deleted are now kept, while the "created by" and "modified by" properties are transferred to the ID of the context administrator.

Change #2145   Using OAuth 2.0 for subscribing to Google Calendar and Contacts
The OX server is no longer able to subscribe to Google Calendar and Contacts via the current crawler-based implementation. Instead, oAuth based access to Google APIs has been implemented. Several new bundles have been added:

- `com.google.api.client` (provides all the necessary Google OAuth libs)

- `com.google.gdata`

- `com.openexchange.google.api.client` (provides a utility class for the actual Google API client)

- `com.openexchange.subscribe.google` (provides two subscription services for Google Calendar and Google Contacts)

Along with the bundle `c.o.subscribe.google` comes a configuration file `googlesubscribe.properties` which is used to fine tune the amount of objects that will be fetched in a single request from Google.

The `GoogleCalendar.yml` and `GoogleMail.yml` files have been removed from the `/opt/openexchange/conf/crawlers` folder and the `crawler.properties was updated`, i.e. the Google relevant properties

- `com.openexchange.subscribe.crawler.google.calendar`

- `com.openexchange.subscribe.crawler.googlemail`

- `com.openexchange.subscribe.crawler.googlemail.autorunInterval`

- `com.openexchange.subscribe.crawler.google.calendar.autorunInterval`

have been removed.

4.5   Changes of Packaging

Change #2153   New package open-xchange-system
Some open-xchange software components share the same operating system specific integration requirements like init-script helper functions, but do not depend on other stuff like java code. For this reason, a separate package has been created that can be commonly used.

5 Changes relevant for Developers

5.1 Changes of the HTTP API

Change #2070   New parameter `max_size` to define the size of mail content
The client is able to define the size of mail content returned for the mail related request `get`, `forward`, `reply` and `replyall`.

Behaviour by providing `max_size`

- `max_size`<10000: content will be trimmed around 10000 characters.

- `max_size`>= 10000 this value will be used for trimming the content.

- If `max_size` is not provided the whole content of the mail will be returned.

The `max_size` parameter is just a rough value because

- HTML mails will be trimmed at the provided value but all at this point open tags will be closed.

- Text mails will be trimmed after the current sentence.

The response will tell the client (by providing "truncated":true/false) if the content was trimmed so that the client is able to deal with it (e. g. ask for the whole content).

Change #2088   New `get` action in module `quota`
The `get` action in the module `quota` has been introduced allowing to retrieve all or specific quotas of a user. The action is documented at: `http://oxpedia.org/index.php?title=HTTP_API#Get_quota_information_.28Since_7.6.1.2C_Preliminary.29`.

Change #2102   Accept new parameter `attach_src` for `/ajax/mail?action=get`
Accept new parameter `attach_src` for `/ajax/mail?action=get` request to let the client signal RFC822 source is supposed to be attached to generated JSON mail representation. This avoids the need for the USM connector to query a certain mail two times to retrieve its RFC822 representation along with JSON data. This behaviour is already documented at: `http://oxpedia.org/wiki/index.php?title=HTTP_API#Get_a_mail`.

Change #2144   New action in module `contacts`: `autocomplete`
A generic auto-complete action is introduced, where the underlying storage will decide which optimized methods are used to fulfill the request based on the user's input.

For clients using the HTTP API, this functionalyity is exposed in a new action named `autocomplete` in the module `contacts`. Details are available at: `http://oxpedia.org/wiki/index.php?title=HTTP_API#Auto-complete_contacts_.28Since_7.6.1.2C_Preliminary.29`

Change #2149   Changed mail account HTTP-API
Introduced a new field `transport_auth` that indicates the source for mail transport (SMTP) credentials. See `http://oxpedia.org/wiki/index.php?title=HTTP_API#MailAccountData` for the meaning (usage of this new mail account field).

Change #2151   Added request to get a ZIP archive containing all infoitems of a denoted folder
Added request to get a ZIP archive containing all infoitems of a denoted folder. Having that requests a user can easily download photo albums or other folder of his/her choice. See `http://oxpedia.org/wiki/index.php?title=HTTP_API#Get_a_ZIP_archive_containing_the_infoitems_of_a_denoted_folder_.28available_with_v7.6.1.29`

Change #2168   Support both "Date"- and "Time"-types for tasks start- and end-date.
The following new fields are introduced for tasks:

- `full_time`: type "Boolean", column ID 401 (moved from "detailed appointment data" to "detailed task and appointment data"

- `start_time`: type "Date" or "Time", column ID 316

- `end_time`: type "Date" or "Time", column ID 317

Together, those fields have the same semantics as the properties `full_time`, `start_date` and `end_date` of appointments in the Calendar module:

- In case `full_time` is `true`, `start_time` and `end_time` are treated as of type `Date`, i.e. they are transmitted as the number of milliseconds between 00:00 UTC on that date and 1970-01-01 00:00 UTC.

- If `full_time` is `false`, `start_time` and `end_time` are treated as of type `Time`, i.e. they are transmitted as the number of milliseconds since 1970-01-01 00:00 UTC plus the offset between the user's or request's timezone and UTC at the time in question.

The previous fields `start_date` and `end_date` are kept for backwards compatibility, and behave in the same way as before, i.e. they're assumed to be of type `Date`, and so the values are transferred "as is" without timzone corrections. However, if a legacy client sets the `start_date` and/or `end_date` property of a task, the task adopts the `full_time` flag implicitly.More information is available at the HTTP API, especially:

- `http://oxpedia.org/index.php?title=HTTP_API#Date_and_time`

- `http://oxpedia.org/index.php?title=HTTP_API#DetailedTaskAndAppointmentData`

- `http://oxpedia.org/index.php?title=HTTP_API#DetailedTaskData`

5.2   Changes of the Java API

Change #2143   New method in `com.openexchange.contact.storage.ContactStorage`
The `autoComplete` method is added to the ContactStorage interface: `SearchIterator<Contact>` `autoComplete(Session session, List<String> folderIDs, String query, AutocompleteParameters` `parameters, ContactField[] fields, SortOptions sortOptions) throws OXException`. A default implementation is added to DefaultContactStorage, which falls back to a corrseponding call to `com.openexchange.contact.storage.DefaultContactStorage.search(Session, ContactSearchObject,` `ContactField[], SortOptions)`, so that existing storages inheriting from the abstract class will continue to work.

5.3   Changes to the Frontend API

Change #2030   Mail folder view has optional support for folder icons
Icons for E-Mail default folders can now be enabled by using the following setting at appsuite.properties

`io.ox/core//features/folderIcons=true`

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 changes have been checked for potential side-effects and effect on behavior. Unless explicitly stated within this document, we do not expect any side-effects.

7 Fixed Bugs

28693, 28918, 29269, 30106, 30599, 30903, 30921, 31253, 31612, 31743, 31834, 32075, 32132, 32396, 32634, 32642, 32733, 32860, 32942, 32952, 32994, 33004, 33028, 33036, 33043, 33044, 33103, 33141, 33145, 33201, 33229, 33242, 33254, 33261, 33273, 33286, 33290, 33314, 33354, 33368, 33369, 33383, 33386, 33389, 33394, 33395, 33396, 33401, 33402, 33412, 33415, 33418, 33430, 33446, 33447, 33460, 33478, 33489, 33500, 33502, 33505, 33522, 33525, 33535, 33544, 33552, 33577, 33600, 33602, 33620, 33626, 33653, 33658, 33685, 33697, 33706, 33711, 33713, 33715, 33727, 33729, 33748, 33815, 33818, 33821, 33848, 33869, 33891, 33894, 33897, 33898, 33914, 33915, 33918, 33920, 33921, 33928, 33931, 33936, 33941, 33956, 33966, 33967, 33992, 34003, 34009, 34010, 34033, 34067, 34069, 34072, 34075, 34082, 34085, 34201, 34219, 34222, 34248, 34281, 34283, 34322, 34341, 34346, 34361, 34365, 34381, 34462, 34470, 34484, 34494, 34495, 34499, 34510, 34525, 34532, 34541, 34547, 34551, 34552, 34581, 34583, 34613, 34617, 34623, 34625, 34633, 34635, 34656, 34662, 34668, 34669, 34694, 34704, 34706, 34710, 34727, 34728, 34741, 34765, 34831, 34835,