



**Release Notes for Release 7.10.2**  
2019-05-16

## Copyright notice

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# 1 General Information

## OX App Suite v7.10.2

OX App Suite is a modular platform designed for Telco's, Hosters, and other Service Providers and delivers a wide range of cloud-based services. These include email, file sharing, collaborative document editing, document management, time management, cloud storage and metrics for monitoring end-user behavior. Enhancements to the OX App Suite platform in this release include:

- **Next Generation Calendar Improvements**  
Organizers can now specify if participants can change an appointment or not. Additionally, the organizer role can be moved/reallocated to other participants. It is now also possible to download multiple attachments from appointments. Users now also have a new option that lets them define which shared, or public, calendars are to be synced with CalDAV to other devices.
- **Edit Documents in New Browser Tabs**  
To allow simultaneous document editing, and multitasking, documents are now edited in a separate browser tab. The different browser tabs can now easily be arranged so that they can be viewed side by side. This makes editing an email and/or different documents together much easier.
- **Multi Factor Authentication**  
With this new release Open-Xchange introduces a new multi-factor authentication framework. This provides an additional method of verifying a user's authenticity. The ability to request additional authentication, such as SMS messaging, Yubikey security devices, or mobile authenticator applications, can be configured by the customer.
- **Additional File Handling Support**  
OX Drive now supports the display of additional Exif data of photos. In addition OX Drive always keeps track of all file versions. Users can always view, download, delete or revert to a prior version of a file at any time. In this version it is now possible to delete all previous versions of a file, in one step. Finally, with this version, administrators can configure how many file versions should be saved as well as their maximum age.
- **Background Uploading of Attachments**  
Open-Xchange has modified the behavior for attaching attachments to an email. Now, as soon as you attach an attachment the upload process starts in the background. The user can see the progress of the upload of each attachment with a small gauge on each attachment. This optimizes the user experience. A very useful side effect of this is that once uploaded the user can see a preview of the attachment.
- **Security - Virus Scanning of Files**  
Open-Xchange improves the security for end users by enabling OX App Suite to perform a virus scan on a file before it is downloaded. Now, if enabled, when a user selects to download a file OX App Suite will scan the file for viruses. If the scan is successful, and there are no viruses, the download will start.

## OX Documents v7.10.2

For service providers looking to attract customers, OX Documents is the perfect hook. Fully integrated into OX App Suite, OX Documents now includes the following new features:

- **New Alignment Guides in OX Presentation**  
With the new alignment guides in OX Presentation it is now easier to create more professional looking presentations. The new guides help to place objects on slides more precisely and with better alignment.
- **Check Spelling in a Different Language**  
OX Text can check spelling in different languages. Now if a document contains texts in different languages, other than the one that is normally used, there is now an easy way to change the spelling language via a context menu.

- **Color Toolbar Icons Show Last Used Color**  
The toolbar icons to change the color of text, cells, borders, etc. has been updated. The toolbar icon now shows the last used color and not the color of the cursor selection. With this change, the user can easily apply the same color without having to use the dropdown.
- **Preview Improvements**  
Office documents are now pre-converted to a PDF format automatically on upload. This means that viewing a document is now even faster, because the conversion to PDF is already done. Additionally, office documents sent as email attachments are also pre-converted to PDF. This allows for the faster viewing of attachments.

### What's New in General and Feature Overviews

- Open-Xchange now provides more detailed overviews and Feature Overview documents relating to new product releases. These can be found at <https://www.open-xchange.com/portfolio/whats-new/>.

### General Information – Please Note

- Open-Xchange encourages administrators to regularly update to the latest available release. To ensure a stable and up to date environment please note the different versions supported. 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](http://oxpedia.org/wiki/index.php?title=AppSuite:Version_Support_Committment)
- We would like to remind you that support for the following products are already discontinued from the 31st. March 2019. Open-Xchange Server 6, OX Hosting Edition, OX Server Edition, OX Mobile Web Interface and OX Notifier. Please note: Open-Xchange Server 6 packages will still be available on our software repositories and will work with the middleware version v7.8.4. but we will not provide any support and maintenance activities. Of course, Open-Xchange is going to keep the Open Source software of those products available to the public.
- We would like to remind you, up until now Open-Xchange has provided support for installations of OX App Suite 7.10.x on Debian Jessie. OX App Suite 7.10.x requires OpenJDK 8; OpenJDK 8 is a backport on Debian Jessie and Debian Jessie is currently in LTS (Long Term Support). As already communicated, we have found out that the support for this backport in Debian Jessie has now been discontinued. This means that Debian Jessie no longer supports the required OpenJDK 8. Due to the above situation we regrettably have to inform you that support of OX App Suite v7.10.x and any future version on Debian Jessie was discontinued from the 2019-03-31. Open-Xchange encourages administrators to regularly update to the latest available platform releases. To ensure a stable and up to date environment please note the different versions supported. An overview of the latest supported platform release can be found in the OXpedia at: [http://oxpedia.org/wiki/index.php?title=AppSuite:OX\\_System\\_Requirements#Linux\\_Distributions](http://oxpedia.org/wiki/index.php?title=AppSuite:OX_System_Requirements#Linux_Distributions)
- As a result of customer feedback, Open-Xchange will extend the active support commitment for OX App Suite v7.8.4 until 2019-12-31. Open-Xchange wants to allow extended upgrade time to OX App Suite v7.10.x for its customers. Please note, after 2019-12-31, Open-Xchange won't provide any new patches for OX App Suite v7.8.4 version.

## 2 Shipped Product and Version

Open-Xchange AppSuite backend 7.10.2-rev4  
Open-Xchange AppSuite frontend 7.10.2-rev3  
Open-Xchange AppSuite usm 7.10.2-rev2  
Open-Xchange AppSuite eas 7.10.2-rev1  
Open-Xchange AppSuite documentconverter-api 7.10.2-rev2  
Open-Xchange AppSuite documentconverter 7.10.2-rev4  
Open-Xchange AppSuite office 7.10.2-rev3  
Open-Xchange AppSuite office-web 7.10.2-rev3  
Open-Xchange AppSuite readerengine 7.10.2-rev2  
Open-Xchange AppSuite imageconverter 7.10.2-rev3  
Open-Xchange AppSuite open-xchange-pdftool 7.10.2-rev2  
Open-Xchange AppSuite hazelcast-enterprise 7.10.2-rev2  
Open-Xchange AppSuite driverrestricted 1.0.0-rev1

Find more information about product versions and releases at [http://oxpedia.org/wiki/index.php?title=AppSuite:Versioning\\_and\\_Numbering](http://oxpedia.org/wiki/index.php?title=AppSuite:Versioning_and_Numbering) and <http://documentation.open-xchange.com/>.

## 3 Vulnerabilities fixed with this Release

This section provides a summary of security related bug fixes that have been applied subsequently to shipping Release 7.10.1. Solutions for vulnerabilities have been provided for the existing code-base via Patch Releases.

**47790 CVE-2016-6849**  
CVSS: 7.1

**61771 CVE-2019-7159**  
CVSS: 4.1

**62465 CVE-2019-11806**  
CVSS: 3.3

**63411 CVE-2019-9739**

**64680 CVE-2019-11521**  
CVSS: 6.5

**64682 CVE-2019-11522**  
CVSS: 5.4

**64703 CVE-2019-11522**  
CVSS: 5.4

## 4 Bugs fixed with this Release

This section provides a summary of bug fixes and changes that have been applied .

**55298 Maximum configured sized needs to be fixed for Japanese Error message**  
Response format was strangely encoded HTML.  
This has been solved by forcing response format to be correct HTML with JSON data.

**55916 After creating an event in korganizer, the cal-dav agent crash**

We adjusted this now to properly respond with the CALDAV:no-uid-conflict precondition, see <https://tools.ietf.org/html/rfc4791#section-5.3.2.1> for details. With these changes the client at least no longer crashed in our tests. However, creating different calendar object resources with the same UID value is still not allowed.

**59957 Mail selected after login, might not be visible to user**

Selected mail not scrolled into view.

Now scroll selected mail into view to have this mail displayed.

**60826 Sharing is not fully capable to deal with "segmented updates"**

The `LOCATED_IN_ANOTHER_SERVER` exception was not properly handled in the `ShareServlet`. This has been fixed by handling the exception properly, i.e. redirect the client to the appropriate node. Introduced a new `migrationRedirectURL` property for the servlet to use in order to send a redirect to the correct node.

**61017 Messages in Create new rule window for filter is not intuitive**

Editing the size condition is not intuitive since there is no hint how to handle different units.

This has been solved by adding the possible units next to the comparison dropdown.

**61167 Mail folder could not be found: confirmed-spam**

Spam/ham information advertised mail account data even though no spam handler was available or concrete spam handler tells to not create such folders.

This has been fixed by suppressing spam/ham information in mail account data if spam is disabled or no such folders are supposed to be created according to spam handler specification.

**61388 Signatures not above quoted text**

If in 'Settings -> Mail -> Signatures' the option "Add signature above quoted text" is selected, the signature in forwarded mail is not above, it's placed at the bottom of mail.

Solution: Added `"com.openexchange.mail.forwardUnquoted"` setting to JSlob under path `"io.ox/mail//forwardunquoted"` and use different 'selector' in forwarding context when mail are forwarded unquoted.

**61412 Expires on check box is not getting edited when user tries editing for an existing calendar folder**

When a second modal dialog is opened, the focusin-listener of the second dialog is registered before the listener of the previous dialog is removed. Since the `keepFocus` function is bound to the prototype of the dialog, the unregistration removes the listeners for all instances. Therefore, the `keepfocus` function is not correctly registered and will not keep the dropdown open when the dialog loses focus. That leads to the problem, that no click events are triggered on the elements of the dropdown and therefore, no model updates are triggered.

This has been solved by adjusting focusin events, so they are also correctly registered for the second (or third or fourth) modal dialog. Therefore, bind `keepFocus` to the current this value and make it unique.

**61427 Wrong hint in the Settings page for reload or relogin**

Adjusted reload/relogin hint and added translations.

**61525 Small glitch in mail counter for unread messages**

Detail view set mail to read although the selection did not change.

After manually setting to unread keep unread state until selection changes to solve this issue.

**61645 No weekdays name are shown when printing Calendar**

When a language with a different start of the week than sunday was selected, the loop to generate the days was not generic enough.

This has been fixed by creating week-days more generic depending on the start of the week.

**61660 Add a google calendar for `com.openexchange.oauth.modules.enabled.google=calen-`**

**dar not working**

The reason for this is that the default implementation of the google calendar is a read only provider and therefore requires an activated calendar\_ro module. You can find the info here: [https://documentation.open-xchange.com/7.10.1/middleware/components/calendar/implementation\\_details.html#google-calendar](https://documentation.open-xchange.com/7.10.1/middleware/components/calendar/implementation_details.html#google-calendar). Even though it is stated that the 'calendar\_ro' module is required, it isn't clear that the 'calendar' module is not applicable here. Therefore improved the documentation on this part.

**61726 Properties in Tasks-Burger-Menu is missing**

Properties menu was disabled for tasks and extension points where not working with tasks. This has been solved by reenabling properties menu and adjusted extension points to support tasks again.

**61756 Calendar: Sunday day name in year view not in red color**

Index overflow (day 8 instead of 1) led to a non-red marked Sunday. Now using correct modulo to display the Sunday in red.

**61777 Out of office information in Mail module not wrapped**

The three dots shown at the end of the shortened message were hidden by the close icon. This has been solved by adjusting the padding to prevent the overlapping.

**61784 Using OX with Dovecot XOAUTH / OAUTHBEARER seems to be broken**

Proper check if mail account can be connected to with respect to possible OAuth authentication type has been added.

**61799 Sending email to participants with only second email not possible**

It was not possible to send an email to an appointment participant if he had only a secondary email address entered inside the address book. This has been fixed by using provided data instead of fetching everything.

**61823 Drive shows main folder content instead of content from selected folder**

Wrong root folder selected after removing a folder. This has been solved by removing superfluous event trigger and fixed regular expression.

**61859 CardDAV: weird / unexpected behaviour when entering / syncing CardDAV addresses**

The EMAIL mapping for vCards ignored a third email address in case there are others explicitly marked as HOME or WORK. This has been fixed by using first non work/home/other address as fallback if no distinguishing email type found.

**61884 Date search results displaying results of a search DAY and DAY+1**

Parsed date wrong for IMAP results. Now just one date is used for results. This is just a partial fix. A full solution would be to request a longer timeframe and to do the slicing manually. But this rather requires a larger change to the search module and can not be handled inside a patch.

**61887 Relative dates (today, yesterday) in search facet are only evaluated once**

Cache generated smart date catalogue only for current day.

**61893 Guard Guest Accounts gives Timeout or Mails are not shown**

This was caused by a timeout because guest sessions were not synced between servers. Now guest sessions are synced between hazelcast server.

**61989 Imported contacts are not shown in contact picker**

This was caused by using of cached data. This has been solved by clearing cache on import.

**61998 Not able to change access control in emClient**

The OX permission model requires the "DAV:read-acl" and "DAV:read-current-user-privilege-set" privileges to be granted in each ACE. When attempting to set an ACE without those privileges, a "DAV:not-supported-privilege" error is raised.

This has been solved by automatically assume "DAV:read-acl" and "DAV:read-current-user-privilege-set" if missing instead of throwing an error.

**62034 Appointment series ends one day to early**

UNTIL in the recurrence rule has been interpreted as a date value by the UI, whereas it should be a datetime value.

The UNTIL part of the recurrence rule now contain as a datetime value. Therefore, the zulu timestamp in UNTIL is now after the startdate of the last occurrence.

**62076 Replies to Guard emails broken**

When replying to an encrypted email, the compose dialog shows the ENCRYPTED mail rather than the proper decrypted content. This also breaks the Guest replies. This is limited to Customer that have the feature setting `io.ox/mail/features/fixContentType=true`.

Now it is possible to reply to Guard emails also `io.ox/mail/features/fixContentType` is "true".

**62106 Ical import fails with 503 error**

Out Of Memory when importing large iCal files.

This has been solved by reducing the used heap space. Detailed informations about the import limit "com.openexchange.imort.ical.limit" are available here:

See <https://documentation.open-xchange.com/components/middleware/config/7.10.1/index.html#mode=features&feature=Import/Export>.

**62160 adding configurable autoCleanup implementation for stateful resources, allocated in #beginConvert**

There persistent and runtime memory leaks in some kind of user environment, related to stateful requests, for which the final endConvert call is not performed. A new mechanism has been added to the DC server code base in order to be able to automatically finalize stateful beginConvert/getPage/./endConvert call sequences in cases, the final endConvert is not called at all (e.g. routed to the wrong DC server node. a broken HTTP connection, ...

**62163 Italian translation issue in Calendar search**

Adjusted translation for place.

**62178 Translation issue for "autoforward" in Filter Rules**

The rule title was missing the translation capability.

This has been solved by adding the translation capability.

**62201 Unable to determine next update task**

The defined dependency of the update task (com.openexchange.groupware.update.tasks.ContextAttributeConvertUtf8ToUtf8mb4Task) might be excluded and could not be solved.

This has been fixed by setting dependency to com.openexchange.groupware.update.tasks.CreateIndexOnContextAttributesTask.

**62205 Using poppler-data path when building/using PDFTool package and packaging of poppler-data within PDFTOOL package under GPL liense**

Running the PDFTool, the internally used poppler library had no access to externally provided poppler-data character classes. By adding poppler-data content to the open-xchange-pdftool package and using the correct data path, appropriate unicode code points can be displayed when rendering PDF pages. The package license has been changed to GPL in order to be compliant.

**62212 All day event uses multiple days when printed from monthly view**

Not considered the special case for all-day events which were then printed the day before they started and the day after.

This has been solved by filtering correctly for all-day appointments.

**62216 Task section > progress bar doesn't work on Chrome, Opera and Safari**

CSS background-size's implicit height value 'auto'.

Solution: Use 100% as value for height.

**62218 Basic Accounts can still use Drive as a Standard App although it is disabled**

Settings considered all apps which were rendered in the launcher and did no dedicated capability check.

Filter for apps, which are disabled by capabilities but might be visible due to upsell to solve this issue.

**62222 Send / reply not possible for some users, blank page, loads forever**

UI waits for timeout of the middleware which might take a lot of time.

This has been solved by introducing a timeout for snippets which aborts the request after 15 seconds. Nevertheless, this is still a workaround since the actual issue is the slow/non-responding S3.

**62237 Maileditor shows '0' as size for drive attachments**

Size calculation was not correctly taking external files into account.

This has been fixed by changing the calculation to respect all sizes of the attached files including external files.

**62240 Creating tasks while on a different time zone with a yearly or monthly repeat leads to wrong dates**

Too generic approach in the recurrence view. All timezones with negative offset are affected. In detail, the timezone of a task (utc) wasn't considered when creating the recurrence rule.

This has been solved by considering different timezones when using calendar or task. StartDate of calendar knows its timezone whereas tasks are always in utc.

**62243 Inconsistent sort order between address book and distribution list**

Missing sortname for list members.

Address picker issue has been fixed, Distributionlist issue is still there, because backendpart cannot be backported, this will be available with 7.10.2.

**62258 ics file can't be imported from attachment if mail was encrypted**

Added support for importing encrypted ical files.

**62263 Add mail account on mobile: buttons hide text field for input**

Removes button 'manual' cause is it used as fallback in case autodiscover fails and should not be handled as a separate option for ux reasons.

**62281 Appointment time incorrectly displayed in Japanese**

The Moment and moment-interval framework used inconsistent time formats in japanese. Update locales in moment-interval plugin to be consistent.

**62282 Max sessions exceeded while real usage is much lower**

Config option "com.openexchange.servlet.maxInactiveInterval" is not orderly applied to spawned HTTP sessions and therefore they don't get removed.

This has been fixed by orderly setting timeout for HTTP sessions.

**62294 Login rate limiter does not work com.openexchange.ajax.login.maxRate**

Root cause: Long overflow during calculation of the rate limit window.

Solution: Don't always double the window on each consecutive login attempt.

**62300 C&P from a mailaddress includes OX AppSuiteURL**

This has been solved by changing the href property to 'mailto:' in the from widget (mail compose) and the participants widget (calendar, tasks) so only the mail address gets pasted.

**62305 Vacation alias settings are broken and no autoresponder for all mail addresses**

The "select all" button has no effect on the vacation notice model due to a wrong naming.

This has been fixed by changing the attribute name accordingly so the model can be handled correctly.

**62345 Html part of mail always shown**

UI accidentally used 'noimg' or 'trusted' as value for api parameter 'view'. In case 'Allow html formatted emails' is disabled the only valid value is 'text', this was adjusted to fix this issue.

**62360 Disabling/enabling contexts in environments with hazelcast shards**

Disablecontext throws exception if context was already disabled.

Solution: Idempotent handling of disablecontext which means each call results in a db statement like "UPDATE context SET enabled = 0, reason\_id = 42 WHERE cid = 1".

**62378 Document with japanese / korean / chinese characters is not displayed in Viewer due to missing font resources for PDF.js**

Adobe external CMaps were not copied to the build folder and pdf.js was not configured to use them. This has been fixed by adding CMaps folder to the thirdparty copy script and configured pdf.js to use them.

**62393 Sieve validation with 2 pgp keys not possible**

When the arguments of the action commands 'enotify', 'vacation' and 'pgp\_encrypt' are extending over multiple lines and those action commands have more than one arguments, then only the first argument was considered while counting.

Solution: Iterate over all arguments of the previous mentioned action commands.

**62452 Spelling issue for Dutch language**

Two wrong translations were adjusted to fix this.

**62453 Failed deletecontext leaves context in an inconsistent state**

Invoke a "post deletion" call-back to reseller plug-in to let reseller information being cleared when context has been successfully removed, to solve this issue.

**62463 NPE on changing mapping default folders**

In case the account details for the internal is hidden default values (null) were send to validate call. This is fixed by extending the list of properties that do not have to be verified by all folder-fullname properties

**62525 No Connection Available to Access Mailbox**

Caused by trying to access IMAP via an unconnected socket due to a previous I/O error (socket closed unexpectedly by remote host/IMAP).

Now a re-connect to IMAP server on unexpected socket closure is done.

**62572 Outlook for android causes runaway mysqlbinlogs**

Outlook-App uses EAS-protocol version 14.0: <FilterType> inside <Option> ; does not use <CertificateRetrieval> within <ResolveRecipients> , but EAS expected it (is allowed in 12.1).

This has been solved by improving parsing of <ResolveRecipients> (according to 12.1) and <GetItemEstimate> (according to 14.0).

**62605 Contact Print Action 'details' option is displaying City and Postal code in the same line**

Print used own format of address where it was not possible to internationalize the address.

This has been fixed by using internationalization approach which is already used to display the address in the contacts detail pane.

**62608 Tasks changing start and due time for a tasks changes date**

Always used UTC as the timezone to calculate the recurrence position of an task.

This has been solved by using server default timezone instead.

**62666 Error message "Unable to save draft, due to exceeded quota." even quota is not**

**reached**

The causing exception was hidden, which has been changed to find the root cause of this bug.

**62704 Unable to click on Save button in Create new rule window with right click pasting**

Pasting a value into an input field triggered no validation and may result in a disabled save button.

**62730 Wrong weekly view with appointments over several days**

Only checked weekdays and not if it's the same week.

This has been solved by adding check if it overlaps into next week.

**62746 Changes in custom theme #2**

Added a workaround for IE11 in the appcontrol.

**62755 Guided Tours for document apps called two times without any user interaction**

Backend writes configuration for recently opened documents while the tour is running. This (wrongly) deletes the "shown" flag of the tour. After the tour has been finished, the "shown" flag will be saved again to the configuration.

**62761 Moving an appointment from an invitation to a private calendar is not possible**

UI was too restrictive regarding move action.

This has been solved by enabling move action but grey out unsupported folders.

**62764 Settings - security - active clients shows "unknown application / unknown device" for Android Device using \*DAV**

Some \*DAV-clients were not detected and used wrong fallback.

This has been fixed by improving detection of \*DAV-clients and set correct fallback by checking session's origin.

**62770 In IE11 opening multiple compose windows can make subject field uneditable**

Web accessibility steals the focus on clicking into the subject field on Internet Explorer.

Do not apply refocus on click because this should only happen with keyboard navigation to solve this issue.

**62773 NullPointerException with checkcountconsistency**

There was no check to determine whether the 'contexts\_per\_dbschema' table contained any schemata of a database object, before beginning with the insertion of the schemata tied to that database object.

This has been fixed by performing a check to determine whether the 'contexts\_per\_dbschema' table contains any schemata of a database object before blindly beginning with the insertion.

**62794 No drag and drop of pictures while composing a new mail**

Dropping images to an iframe caused the browser to reload the whole view which might lead to data loss. Since no easy fix was found, we disabled drag and drop.

Reenable drag and drop by attaching listeners inside the iframe which will prevent reload of the page with the dropped content on the one hand and on the other hand correctly uploads image based on the previous mechanisms.

**62800 Documentation for Mail Authentication Configuration Incomplete**

Updated the User Docu to have all needed informations.

**62835 Edit Copy Button in Draft folder does not work as expected for externally linked accounts**

The unified mail storage returned normal mail ids instead of unified ones for copy/move commands.

Solution: Return proper unified mail ids.

**62862 Guided tour compose window doesn't display**

The security attribute is always reapplied even if there is no previous object.

This has been solved by making sure that at least an empty object as previous object exists.

**62883 compatibility changes to make DC server available for DC clients, using prior API versions**

By adding poppler-data content to the open-xchange-pdftool package and using the correct data path, appropriate unicode code points can be displayed when rendering PDF pages. The package license has been changed to GPL in order to be compliant.

**63027 Set given name to '\*' for user in same context returns an error**

User input was translated to SQL wildcard.

This has been solved by avoiding wildcard in special contact search.

**63126 Draft mail opened after migration**

Savepoints were created in old versions (7.8.3), that were not supposed to be created.

Solution: Cleanup savepoints once in any higher version than 7.8.3

**63135 Tasks not working correctly**

The reminder was not parsed properly since a recent change.

**63184 Recipient disappears if double-clicked then click away**

Bundling original tokenfield file (static) lead to loading it's content twice and custom 'prototype' fixes in our tokenfiled.js was overwritten by the second load.

Solution: Clean up bundle.

**63211 Expired Vacation notice shows up "active" within the popup of the settings area**

In contrast to the main activation button the little toggle is considering the date range.

The little toggle now only depends on the active state of the rule.

**63216 Update task fails: UPD-0014 Duplicate key name action**

UpdateTask was missing an index exists check.

Solution: Added an index exists check.

**63222 Not possible to switch appointment visibility from private to secret**

Fixed wrong comparing on server side.

**63240 Cannot open newsletters with new google chrome 72**

Links opened by blankshield are blocked due to security reasons.

Solution: Open links with rel="noopener" directly in chrome 72 and above. Note that this is just an intermediate fix and will be replaced as soon as the issue is fixed in blankshield.

**63298 HTML mail throws console error**

Broken encoding in style tag caused js error.

This has been fixed by making sanitizer more robust so no error occurs.

**63331 Redirection if schemata is disabled**

In case context-associated server does not match the server associated with target node a CTX-0012 error is thrown, which initiates automatic redirection to another node (as configured through "com.openexchange.server.migrationRedirectURL" property).

Solution: Do not throw CTX-0012 error in case context is disabled to avoid automatic redirection to another node. Instead, outer logic recognizes that context is disabled through authorization service.

**63333 Periodic Cleaners triggers update tasks**

Update process is triggered automatically when loading a context and context-associated DB schema has pending update tasks.

Solution: Do not trigger update if context is disabled.

**63357 Customer sees errors after restarting - attempting autologin or destroying session**

Remote parameter names were not correctly initialized when fetching a session representation

from Hazelcast IMDG.

This has been solved by orderly initializing remote parameter names when fetching a session representation from Hazelcast IMDG.

#### **63360 Joplin app not working with appsuite**

Conditional headers have only been matched on resources with an entity tag present (i.e. not for collections that have no body).

Solution: Also match conditional headers against resources without entity.

#### **63386 Google calendar 410 gone**

The root cause seems to be a bad token used for list query against the google api. Now a full sync as fallback is done in case of bad sync tokens.

#### **63387 Additional empty line on signature**

This is just an improvement for signatures: Signature with empty content (only whitespace) will not be added anymore.

#### **63392 Recurring appointment can't changed to "Never ends"**

For initial values or changes of recurrence type, the other field does not need to be explicitly set to null. In fact, the middleware throws an error if it is set.

Solution: Only set these values to null if the recurrence type is set to never.

#### **63435 Vacation notice cannot be changed after migration to 7.10**

This was caused by a vacation notice which makes use of the date range (current date test) and the zone option in this test is missing. This happens if the vacation notice was created with a older appsuite version. A missing zone option will now be compensated based on the current values.

#### **63443 Feedback Module: Text message is not aligned properly when the mouse is hovered on the rating/selecting rating icon in IE browser**

Some misinterpretation of CSS from IE 11 caused this issue.

This has been solved by adding a CSS fix only for IE11 to handle this issue.

#### **63452 Sharing Links / What's New Tour Errors**

The menu entry for "What's new" and "Guided Tour" wasn't disabled for guest.

#### **63470 Encoding wrong in plain text mails**

All html entities below 255 do not require a semicolon. Therefore " &times; &pound etc. are encoded.

This has been fixed by encoding ampersand to prevent encoding of html entities.

#### **63477 About model shows old copyright date**

The default copyright is now displayed correctly.

#### **63482 Address picker displays incorrect items for "All folders"**

During the closing process the Address Picker was not properly reseted.

Now the folder selection is reseted during the closing of the address picker.

#### **63611 ics import fails from attachment**

This was caused by a combination of invalid data and unnecessary email address parsing.

Invalid data cannot be fixed by OX, but we disabled the check for mail addresses.

#### **63677 A lot of FETCHes from middleware kills dovecot backend**

The contents of all message-mapped file attachments were queried that matches a client-given search expression.

Solution: Try to map given sort criteria to an IMAP sort term to perform a filtered sort command. Extract the requested chunk (...&limit=10) from that sorted result set to only fetch the content of relevant messages.

**63867 Import of .ics file wrong with daylight setting**

Java's date format parsing routine does not work when a partial timezone definition is used. Retry parsing using a built-in timezone definition in case of parsing errors as a workaround.

**63876 Moving appointment to another calendar sends an email to the event creator**

Move only updates are not ignored within itip handling. This has been fixed by ignoring move only updates within itip handling.

**63951 Save signature fails with 'An error occurred: No known registration name for: ...'**

External images are erroneously considered during content id extraction. Now ignore external images to solve this..

**63965 SQLException: Duplicate entry for key 'PRIMARY' after upgrade to the latest version**

Ensure no duplicate entries are left in "filestore2user" table when trying to change its PRIMARY KEY to prevent this issue.

**64086 Calendar-query request is returning several etags for the same uri**

In certain CalDAV reports, calendar object resources consisting of multiple events were listed multiple times in responses. Only include a calendar object resource once in responses.

**64119 Appointment can not be accepted on appointment change from external (insufficient permissions)**

If an attendee removes himself from one occurrence of an externally organized event series, and a consecutive organizer update to the series is applied later on, a check preventing from reinstantiating previously deleted occurrences kicks in and a permission denied error is raised. This has been fixed by taking over delete exception dates from externally organized events as-is.

**64146 Forwarded message cannot be opened**

Duplicate re-parsing of the corrupt message avoid further processing. Re-parse a message only one time to prevent this error.

**64217 Customer unable to accept meeting invite sent from outlook with IMAP to OX mailbox**

When an iMIP request is received whose organizer can be resolved to an internal user within the current context, he was treated as internal entity. As creating events such events is forbidden, an error was raised when replying to such an event. This has been solved by not resolving organizer when importing event from iTIP message.

**64337 Broken address book layout**

Race condition during app start. The app was initialized and resumed at the same time. Do not resume apps that are currently starting anyway to solve this issue.

**64407 Unable to retrieve updates for timezone, unexpected EOF at net.fortuna.ical4j.data.CalendarParserImpl**

Ensure to follow redirects when retrieving updated timezone definitions to solve this.

**64421 When creating a new task with reminder-time < local-time + (local-time - gmt-time) then immediately the notification is shown**

Local timestamp was used in one check. This has been solved by using correct utc timestamp.

**64467 Delete appointment in Portal doesn't work**

If model was not in pool, it was not requested by the API. Fixed boolean expression for filter.

**64482 Creation of subfolders throws "NO Public namespaces have no owner"**

IMAP server advertises multiple public namespaces, but Open-Xchange Middleware only checks for

one.

This has been solved by paying respect to possibly multiple public namespaces when determining proper ACL identifier.

#### **64670 Timestamp of file in drive does not get set via webDAV**

The last-modified / timestamp handling for WebDAV documents in the middleware could not be used reliably by some clients to detect if a file contents was changed.

This has been solved by considering sequence number during ETag generation / Map {DAV;}get-lastmodified to the sequence number property / Write out "Last-Modified" HTTP header in GET/HEAD responses by default / Actively set "last-modified" during updates unless overridden by client / Added support for commonly used {DAV;}lastmodified to read/write an infostore document's last modified property.

#### **64674 Error while trying to copy users to different context**

The copy task for events failed in case there is an event without an organizer.

Adjusted the behavior to make copy possible for this scenario.

#### **64722 With categories, Drag and Drop from one tab to another doesn't update unread count**

This has been solved by fixing broken collection invalidation.

#### **64811 Stopping synchronization due to an db error**

Different checks for folder name equality may cause the INSERT statement to fail during folder creation under certain circumstances.

This has been fixed by using lowercased binary collation when comparing names during folder creation.

## **5 Changes relevant for Operators**

### **5.1 Changes of Configuration Files**

#### **Change #SCR-218 Enable new Browser Tab behaviour with property**

We need to support a property which can be configured in the as-config.yml file called "openInSingleTab" to disable the default multi-tab behaviour. This property has to be part of the yml-file as the value must be available on the login-page. This is a lean property that must only be set if the customer wants to disable the default behaviour (multi-tab support). Due to this requirement the setting based property "io.ox/office//windowHandling/openInTabs" cannot be used and will be removed.

#### **Change #SCR-316 Microsoft Graph OAuth API properties**

Introduced new properties for the Microsoft Graph API. Please see [https://documentation.open-xchange.com/7.10.2/middleware/3rd\\_party\\_integrations/microsoft.html](https://documentation.open-xchange.com/7.10.2/middleware/3rd_party_integrations/microsoft.html)

#### **Change #SCR-322 Removed publication related properties**

With v7.8.0 the old publication mechanism was replaced with the guest mode. Now, with 7.10.2, the leftover are dropped. Therefore removed the property files

- `publications.properties`
- `publish.microformats.properties`
- `microformatSubscription.properties`
- `microformatWhitelist.properties`

Removed all related properties in files:

- `excludedupdatetasks.properties`
- `ModuleAccessDefinitions.properties`

- `server.properties`

Removed those properties from the online documentation, too.

#### **Change #SCR-325 Removed publication related entries from examples**

With v7.8.0 the old publication mechanism was replaced with the guest mode. Now, with 7.10.2, the leftover are dropped. Therefore removed publications related entries in example apache config:

- `/com.openexchange.server/doc/examples/proxy_http.conf`
- `/com.openexchange.test.performance.setup/scripts/proxy_ajp.conf`

#### **Change #SCR-329 Added lean option to enforce configured core pool size regardless of the rule "Minimum core pool size is: number of CPUs + 1"**

Added new lean option `com.openexchange.threadpool.corePoolSize.enforce` (default is false) to enforce configured core pool size (regardless of the rule "Number of CPUs + 1"). The purpose of this setting is to reflect that in containers (Docker, Solaris Zones, FreeBSD jails, etc.) all CPU's are usually visible for the application but the application can't use them all. Newer Java versions have flags to make 'availableProcessors' respect these boundaries but most JVM's support that yet.

#### **Change #SCR-334 Purge the `excludedupdatetasks.properties` file**

The file `excludedupdatetasks.properties` will NOT be maintained anymore and it will be purged. The purged file will only contain a pointer to the release notes where new updatetasks and tooling will be listed/described.

#### **Change #SCR-338 Changed the default value for 'CONTEXT\_STORAGE' in `hosting.properties`**

With the renaming of packages the location of the context storage implementation moved. Therefore the value "`com.openexchange.admin.storage.mysqlStorage.OXContextMySQLStorage`" of the property `CONTEXT_STORAGE` in file `/opt/open-xchange/etc/plugin/hosting.properties` needs to be adjusted. The new default value is:

```
CONTEXT_STORAGE=com.openexchange.admin.plugin.hosting.storage.mysqlStorage.OXContextMySQLStorage
```

#### **Change #SCR-353 Added lean options to S3 storage to configure connect and socket read timeout (in milliseconds) and maximum number of allowed open HTTP connections as well**

Added lean options to S3 storage to configure connect and socket read timeout (in milliseconds) and maximum number of allowed open HTTP connections as well.

- `com.openexchange.filestore.s3.[filestoreID].connectTimeout`
- `com.openexchange.filestore.s3.[filestoreID].readTimeout`
- `com.openexchange.filestore.s3.[filestoreID].maxConnectionPoolSize`

#### **Change #SCR-361 Added setting `io.ox/mail//usePrimaryAccountNameInTree`**

Added a new feature toggle to explicitly use the string "My Folders" for private mail folders in the folder tree section in mail. This solves an issue for customers where the account name is generated during provisioning and may not match the real user name/mail or is very cryptic by default.

Setting: `io.ox/mail//features/usePrimaryAccountNameInTree` Defaults to "true".

#### **Change #SCR-363 Configuration for tombstone table cleanup**

Tombstone tables will be cleaned up by default. It is possible to disable this feature and to define a timespan of data that will be kept:

- `com.openexchange.database.tombstone.cleanup.enabled`
- `com.openexchange.database.tombstone.cleanup.timespan`

**Change #SCR-369 New property to configure the value of the shard cookie**

The new lean property is part of the server configuration and should be located inside the server.properties file.

- Property Name: `com.openexchange.server.shardName`
- Property Default value: `default`

This property is lean and reloadable and sets the shard cookies value.

**Change #SCR-374 New autoCleanupTimeoutSeconds property in documentconverter.properties**

A new mechanism has been added to the DC server code base in order to be able to automatically finalize stateful `beginConvert/getPage/./endConvert` call sequences in cases, the final `endConvert` is not called at all (e.g. routed to the wrong DC server node. a broken HTTP connection, ...). This config item specifies the timeout after inactivity for a stateful `beginConvert` session on DC server side, after which the stateful request is automatically terminated by calling `endConvert` internally.

**Change #SCR-375 New DC client autoCleanupTimeoutSeconds property in documentconverter-client.properties**

A new mechanism has been added to the DC client MW related code base in order to be able to automatically finalize stateful `beginConvert/getPage/./endConvert` call sequences in cases, the final `endConvert` is not called at all (e.g. routed to the wrong DC server node. a broken HTTP connection, ...). This config item specifies the timeout after inactivity for a stateful `beginConvert` session on DC server side, after which the stateful request is automatically terminated by calling `endConvert` internally.

**Change #SCR-378 Introduced the possibility to allow organizer changes**

With v7.10.2 it is possible as an organizer to hand an appointment over to another calendar user (CU), efficiently making the other CU the new organizer. The feature is deactivated by default and can be activated by setting the property `com.openexchange.calendar.allowChangeOfOrganizer` to "true". Transmitting of an event is only supported when only internal users are attending the event. The new organizer needs to be an internal user, too. The feature is announced via "chronos/allowChangeOfOrganizer" within the JSlob to the UI.

**Change #SCR-388 New lean configuration property 'com.openexchange.showAdmin'**

Introduced a new lean property `com.openexchange.showAdmin` that forces to remove the ox admin user/contact from all HTTP-API responses where users/contacts are requested without using their explicit identifier. In case the admin user is explicitly requested by using its user/contact identifier she will be returned.

Its default is true and that option is reloadable as well as config-cascade aware.

**Change #SCR-389 Add new lean config option to specify a comma-separated list of those host names, to which it is allowed to redirect to in case a login fails**

Add new lean config option `com.openexchange.ajax.login.allowedRedirectURIsOnLoginError` to specify a comma-separated list of those host names, to which it is allowed to redirect to in case a login fails.

If nothing is set (default) every redirect is allowed. Accepts wild-card notation. That new property is neither reloadable nor config-cascade aware.

**Change #SCR-391 Added an entry for Matroska video format to known MIME types**

Added the following line for Matroska video format to known MIME types managed in `/opt/openexchange/etc/mime.types`:

- `video/x-matroska mkv`

**Change #SCR-392 Removed Drive properties**

File `drive.properties` has been dropped. All properties are lean now.

**Change #SCR-393 Added several lean configuration options for new mail compose**

Added the following lean configuration options for new mail compose:

- `com.openexchange.mail.compose.maxSpacesPerUser` Specifies the max. number of concurrently opened composition spaces that are allowed for a single user. Default value is "20"
- `com.openexchange.mail.compose.maxIdleTimeMillis` Defines the time span in milliseconds a composition space may be idle before it gets deleted. If zero or less than zero is specified, composition spaces may be idle forever. Can contain units of measurement: D(=days) W(=weeks) H(=hours) M(=minutes). Note that a look-up for expired composition spaces is performed on every login. Default value is "1W" (1 week)
- `com.openexchange.mail.compose.security.encryptionEnabled` Specifies whether encryption of user-sensitive mail data should be performed, when user has capability "guard" enabled. Default value is "true"

**Change #SCR-400 Add lean configuration for actions that require recent multifactor authentication**

Some very security sensitive actions may require a recent multi-factor authentication. These actions will require that the user re-authenticate against the multi-factor device if it hasn't been done within a configurable timeframe, or if the Browser has been reloaded/auto-login. Lean configurations to be added include:

- `com.openexchange.multifactor.recentAuthRequiredList` of urls that require a recent multi-factor authentication. If user has a multi-factor device set up, must have authenticated within the `recentAuthenticationTime` as well as since this Browser session was set up. Default value "multifactor/device?action=delete, multifactor/provider?action=startRegistration"
- `com.openexchange.multifactor.recentAuthenticationTimeTime`, in minutes, that a multi-factor authentication is considered as recent. Default value 10

Both options are neither reloadable nor config-cascade aware

**Change #SCR-405 Added a new configuration file serialkiller.xml**

To perform a proper blacklisting of dangerous java deserialization classes a config is required which contains those blacklisted entries. For this purpose the default configuration of the serialkiller library is used, because it can easily be replaced with an updated version in the future. Therefore the `com.openexchange.serialization` bundle provides now the `serialkiller.xml` config file.

**Change #SCR-406 The configuration file from the SerialKiller library is used to provide a proper blacklist**

To avoid the need of maintaining a blacklist of dangerous deserialization classes, the config file from the SerialKiller library is used. See <https://github.com/ikkisoft/SerialKiller>.

**Change #SCR-422 Added an entry for heic/heif image format to known MIME types**

Added the following lines for heic/heif image format to known MIME types managed in `/opt/openexchange/etc/mime.types`:

- `image/heic heic`
- `image/heif heif`

**Change #SCR-423 Introduced new property to make display name uniqueness configurable**

With v7.10.2 of the Open Xchange Server offers the possibility to configure the display name uniqueness for users within a context.

Per default every user has a unique display name. This uniqueness mainly was needed because the display name is used as the default folder name for a users personal folder. Uniqueness had to be there to avoid equally named folders on the same level. With the changes done in last release (v7.10.2) the server handles duplicate folder names automatically, thus display names must not be unique anymore.

To allow the same display name for multiple users, simply set the property `com.openexchange.user.enforceUniqueDisplayName` to the value `false`.

Hint: The property `com.openexchange.folderstorage.database.preferDisplayName` should then be set to `false`, too.

### **Change #SCR-426 Changed the generic description of some ui properties to more specific ones**

Changed the generic descriptions of some properties in the `ui.properties` file to more specific ones.

- `ui/global/windows/mode/configurable=true`
- `ui/global/toolbar/mode/configurable=true`
- `ui/mail/showContactImage/configurable=true`

### **Change #SCR-427 Added property that controls whether pending update tasks are triggered**

Introduced lean property `com.openexchange.groupware.update.denyImplicitUpdateOnContextLoad` accepting a boolean value, which controls whether pending update tasks are triggered for context-associated database schema when a context is loaded from database. If this property is set to `true` no pending update tasks are scheduled for execution.

### **Change #SCR-429 New autoCleanupTimeoutSeconds property in documentconverter.properties**

A new mechanism has been added to the DC server code base in order to be able to automatically finalize stateful `beginConvert/getPage/./endConvert` call sequences in cases, the final `endConvert` is not called at all (e.g. routed to the wrong DC server node, a broken HTTP connection, ...). This config item specifies the timeout after inactivity for a stateful `beginConvert` session on DC server side, after which the stateful request is automatically terminated by calling `endConvert` internally;

```
### Documentconverter auto cleanup###
# The timeout in seconds, after which stateful requests (e.g. #beginConvert)
# are automatically finalized, in order to cleanup resources, not needed anymore.
# Each subsequent stateful request (e.g. #getPage). updates the timestamp for the
# appropriate session, assigned to a stateful conversion sequence. In case no final
# #endConvert request is made, this call is made internally after the specified timeout;
# set to 0 to disable the automated cleanup handling.
# Default value: 900
com.openexchange.documentconverter.autoCleanupTimeoutSeconds=900
```

### **Change #SCR-435 Added multifactor configuration options**

Several lean configuration options added to control the behavior of multifactor-authentication.

### **Change #SCR-438 Adding watchdog timeout for external image conversions to imageconverter.properties**

External ImageMagick tool might run into endless loop, filling up internally created temp. file.;

```
# Specifies the timeout in milliseconds, after which the conversion of a single image is
terminated
```

```
# Default value: 15000 => (15 seconds)
```

```
com.openexchange.imageconverter.convertTimeoutMillis=15000
```

### **Change #SCR-439 Adding error directory config item for erroneous conversions to imageconverter.properties**

External ImageMagick tool might run into endless loop, filling up internally created temp. file.

```
# Specifies the path to the directory, where the ImageConverter should
```

```
# save input files to, that cannot be converted.
# Default: n/a
com.openexchange.imageconverter.errorPath=
```

### Change #SCR-446 Introduced lean configuration options to control caching behaviour for conversation threads

Introduced lean configuration options to control caching behaviour for conversation threads derived from an IMAP mailbox:

- `com.openexchange.imap.refthreader.cache.enabled`
- `com.openexchange.imap.refthreader.cache.prefillCache`

### Change #SCR-458 Added new target format `auto:1920x1080~cover` to existing `com.openexchange.imageconverter.targetFormats` config item of `imageconverter.properties`

The `com.openexchange.imageconverter.targetFormats` config item of `imageconverter.properties` file contains the following entries now, after adding image format `'auto:1920x1080~cover'` to the existing config item:

```
# Default: "auto:200x150, auto:200x150~cover, auto:480x320,auto:640x480, auto:800x600, auto:1280x720
auto:1920x1080, auto:1920x1080~cover"
com.openexchange.imageconverter.targetFormats=auto:200x150, auto:200x150~cover, auto:480x320,
auto:640x480, auto:800x600, auto:1280x720, auto:1920x1080, auto:1920x1080~cover
```

## 5.2 Changes of Database Schema

### Change #SCR-311 Table 'ical\_ids' is dropped

The table 'ical\_ids' is no longer in use. Therefore the table will be removed with the Open-Xchange Server version 7.10.2. This includes the removal of the following UpdateTasks:

- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/IcalVcardConvertToUtf8mb4.java`
- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/CreateIcalIdsPrimaryKeyTask.java`
- `com.openexchange.admin/src/com/openexchange/admin/mysql/CreateIcalVcardTables.java`

The table 'ical\_ids' will be removed by the UpdateTask `'com.openexchange.server/src/com/openexchange/groupware/update/tasks/DropIcalIds.java'`

### Change #SCR-312 Table 'ical\_principal' is dropped

The table 'ical\_principal' is no longer in use. Therefore the table will be removed with the Open-Xchange Server version 7.10.2. This includes the removal of the following UpdateTasks:

- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/IcalVcardConvertToUtf8mb4.java`
- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/CreateIcalPrincipalPrimaryKeyTask.java`
- `com.openexchange.admin/src/com/openexchange/admin/mysql/CreateIcalVcardTables.java`

The table 'ical\_principal' will be removed by the UpdateTask `'com.openexchange.server/src/com/openexchange/groupware/update/tasks/DropIcalPrincipal.java'`

### Change #SCR-313 Table 'vcard\_ids' is dropped

The table 'vcard\_ids' is no longer in use. Therefore the table will be removed with the Open-Xchange Server version 7.10.2. This includes the removal of the following UpdateTasks:

- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/IcalVcardConvertToUtf8mb4.java`
- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/AddPrimaryKeyVcardIdsTask.java`

- `com.openexchange.admin/src/com/openexchange/admin/mysql/CreateIcalVcardTables.java`

The table 'vcard\_ids' will be removed by the UpdateTask 'com.openexchange.server/src/com/openexchange/groupware/update/tasks/DropVCardIdsTableTask.java'

#### **Change #SCR-314 Table 'vcard\_principal' is dropped**

The table 'vcard\_principal' is no longer in use. Therefore the table will be removed with the Open-Xchange Server version 7.10.2. This includes the removal of the following UpdateTasks:

- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/PrgContactsLinkageAddPrimary`
- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/AddPrimaryKeyVcardPrincipal`
- `com.openexchange.admin/src/com/openexchange/admin/mysql/CreateIcalVcardTables.java`

The table 'vcard\_principal' will be removed by the UpdateTask 'com.openexchange.server/src/com/openexchange/groupware/update/tasks/DropVCardPrincipal.java'

#### **Change #SCR-315 Table 'prg\_contacts\_linkage' is dropped**

The table 'prg\_contacts\_linkage' is no longer in use. Therefore the table will be removed with the Open-Xchange Server version 7.10.2. This includes the removal of the following UpdateTasks:

- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/PrgContactsLinkageAddPrimary`
- `com.openexchange.server/src/com/openexchange/groupware/update/tasks/PrgContactsLinkageAddUuidUpd`

Furthermore the UpdateTasks

- `com.openexchange.admin/src/com/openexchange/admin/mysql/CreateContactsTables.java`

is touched.

The table 'prg\_contacts\_linkage' will be removed by the UpdateTask 'com.openexchange.server/src/com/openexchange/groupware/update/tasks/DropPrgContactsLinkage.java'

#### **Change #SCR-330 Table 'del\_task\_eparticipant' is dropped**

The table 'del\_task\_eparticipant' is no longer in use. Therefore the table will be removed with the Open-Xchange Server version 7.10.2. This includes the removal of the following UpdateTasks:

- `com.openexchange.server/src/com/openexchange/groupware/tasks/database/RemoveUselessExternalParti`
- `com.openexchange.server/src/com/openexchange/groupware/tasks/database/CreateTaskTables (create statement)`

The table 'del\_task\_eparticipant' will be removed by the UpdateTask:

- `com.openexchange.groupware.tasks.database.RemoveUselessExternalParticipantsV2`

#### **Change #SCR:339 Migrate the serviceld names of MSLive contact subscriptions**

Database update task that migrates i.e. renames the sourceld of the old MSLive subscriptions `com.openexchange.oauth.mslliveconnect.contact` and/or `com.openexchange.subscribe.msllive.contact` to the new Microsoft Graph serviceld `com.openexchange.oauth.microsoft.graph`.

#### **Change #SCR-340 Extends Drive table by some media related fields**

The table "infostore\_document" is enhanced by the following columns:

- `capture_date int8 DEFAULT NULL`

- geolocation POINT DEFAULT NULL
- width int8 UNSIGNED DEFAULT NULL
- height int8 UNSIGNED DEFAULT NULL
- camera\_iso\_speed int8 UNSIGNED DEFAULT NULL
- camera\_aperture DOUBLE DEFAULT NULL
- camera\_exposure\_time DOUBLE DEFAULT NULL
- camera\_focal\_length DOUBLE DEFAULT NULL
- camera\_model VARCHAR(128) DEFAULT NULL
- camera\_make VARCHAR(64) DEFAULT NULL
- media\_data MEDIUMBLOB DEFAULT NULL
- media\_status VARCHAR(16) CHARSET=utf8mb4 COLLATE=utf8mb4\_unicode\_ci DEFAULT NULL

#### **Change #SCR-349 Added column salt to tables 'user', 'del\_user', 'subadmin' and 'guest2context'**

Enhanced the tables that contain password information by the column 'salt' to allow salting of passwords in a later version. To be backward compatible the release 7.10.2 will only provide database changes related to salting (and of course possible handling of salts). The 'salt' column will have the following definition:

```
VARBINARY(128) DEFAULT NULL.
```

#### **Change #SCR-354 Add timestamp column to calendar\_alarm table**

Added the following column to the 'calendar\_alarm' table:

- timestamp BIGINT(20) NOT NULL DEFAULT 0

The column has a default value and is not part of any key so it is downwards compatible. Adding a column happens "in place" thus being quite fast.

#### **Change #SCR-355 Added table principalUseCount**

Added new table principalUseCount;

#### **Change #SCR-362 Cleanup for tombstone tables**

The update task "com.openexchange.database.tombstone.cleanup.update.InitialTombstoneCleanupUpdateTask" will remove all entries from tombstone tables that are older than a defined timespan. The default timespan the data will be kept is 12 weeks ("com.openexchange.database.tombstone.cleanup.timespan").

It is possible to disable the cleanup by setting "com.openexchange.database.tombstone.cleanup.enabled" to "false" (default: "true"). In this case the update task won't be registered.

The following tables will be cleaned up:

- del\_attachment
- calendar\_attendee\_tombstone
- calendar\_event\_tombstone
- del\_contacts
- del\_contacts\_image
- del\_oxfolder\_tree
- del\_oxfolder\_permissions

- del\_groups
- del\_infostore
- del\_infostore\_document
- del\_object\_permission
- del\_resource
- del\_task
- del\_task\_folder
- del\_task\_participant

Note that the cleanup has to be disabled (by setting "com.openexchange.database.tombstone.cleanup.enabled = false") before the first login happens. Otherwise the tombstone tables for this schema will be cleaned up by default.

#### **Change #SCR-370 Correct wrong folder references in table calendar\_alarm\_trigger**

Due to a previous bug, the folder identifier in table calendar\_alarm\_trigger has not been updated when moving the underlying event from one folder into another. This causes problems when attempting to lookup the events again when the alarm trigger is resolved.

#### **Change #SCR-411 Introduced "attendeePrivileges" column to "calendar\_event"**

Due to the new attendee privilege concept, a new property has been added for calendar events. To reflect the change in the DB the new column attendeePrivileges has been added to the table calendar\_event.

The column is added with the task com.openexchange.chronos.storage.rdb.groupware.CalendarEventAddAttendeePrivilegesColumnTask.

The column is defined as INT4 UNSIGNED DEFAULT NULL. The default value reflects the internal default privileges for attendees on an event

#### **Change #SCR-414 Added several tables for new Mail Compose**

Several tables were added for the new Mail Compose:

- compositionSpace - A table for storing a mail's meta and header data as well as textual content
- compositionSpaceAttachmentMeta - A table for storing attachment meta data
- compositionSpaceAttachmentBinary - A table for optionally storing attachments' binary data
- compositionSpaceKeyStorage - A table for storing references to keys

#### **Change #SCR-417 Removing parameters from the database urls in the db\_pool table**

Parameters of database URLs are ignored and new entries in the db\_pool table are added without parameters as well. Therefore we are going to remove those parameters from old entries as well, to avoid confusion and have clean installations.

#### **Change #SCR-432 Added a new update task which removes old and unsupported subscriptions**

Added the new update task com.openexchange.groupware.update.tasks.UnsupportedSubscriptionRemoverTask which removes the following subscriptions and their configurations:

- com.openexchange.subscribe.crawler.facebook
- com.openexchange.subscribe.socialplugin.facebook
- com.openexchange.subscribe.crawler.googlemail
- com.openexchange.subscribe.crawler.gmx

- `com.openexchange.subscribe.crawler.gmx.de`
- `com.openexchange.subscribe.crawler.google.calendar`
- `com.openexchange.subscribe.google.contact`
- `com.openexchange.subscribe.socialplugin.linkedin`

**Change #SCR-434 Added the new bundle `com.openexchange.fragment.properties.loader`**  
Added the new bundle `com.openexchange.fragment.properties.loader` to the `open-xchange-core` package. The bundle is used to load properties from fragments (e.g. for drive-restricted).

### 5.3 Changes of Commandline Tools

#### **Change #SCR-247 CloseSessions Command Line Tool**

Introduced an RMI service for all life cycle operations of sessions. The MBean is retained for now. Adjusted the 'closesessions' command line tool accordingly.

#### **Change #SCR-248 ConsistencyCheck Command Line Tool**

Replaced the MBean of ConsistencyCheck with an RMI service. Adjusted the 'checkconsistency' command line tool accordingly.

#### **Change #SCR-249 DBMigration Command Line Tool**

Replaced the MBean of DBMigrations with an RMI service. Adjusted the 'dbmigrations' command line tool accordingly.

#### **Change #SCR-250 DeduplicateContacts Command Line Tool**

Replaced the MBean of DeduplicateContacts with an RMI service. Adjusted the 'deduplicatecontacts' command line tool accordingly.

#### **Change #SCR-251 DeleteRegisteredPushUser, ListPushUser and ListRegisteredPushUsers Command Line Tools**

Replaced the MBean of PushUsers with an RMI service. Consolidated all three command line tools under one namely 'pushusers'.

#### **Change #SCR-252 FileChecksums Command Line Tool**

Replaced the MBean of FileChecksums with an RMI service. Adjusted the 'calculatefilechecksums' command line tool accordingly.

#### **Change #SCR-253 ListShares and RemoveShares Command Line Tools**

Replaced the MBean of Shares with an RMI service. Consolidated both command line tools under one namely 'shares'.

#### **Change #SCR-254 ConfigDiff Command Line Tool**

Changed the command line tool to inherit from the AbstractCLI. No usage changes.

#### **Change #SCR-255 IncludeStackTrace Command Line Tool**

Replaced the MBean of LogbackConfiguration with an RMI service. Adjusted the 'includestacktrace' command line tool accordingly.

#### **Change #SCR-256 Logback Command Line Tool**

Replaced the MBean of LogbackConfiguration with an RMI service. Adjusted the 'logconf' command line tool accordingly.

#### **Change #SCR-257 CheckLoginMappings Command Line Tool**

Replaced the MBean of logging mappings with an RMI service. Adjusted the 'checkloginmappings' command line tool accordingly.

**Change #SCR-258 PreviewCacheTool Command Line Tool**

Replaced the MBean of ResourceCache with an RMI service. Adjusted the 'clearpreviewcache' command line tool accordingly.

**Change #SCR-259 SanitizeFileMimeTypes Command Line Tool**

Replaced the MBean of ResourceCache with an RMI service. Adjusted the 'sanitizefilemimetypes' command line tool accordingly.

**Change #SCR-260 GetMissingServices Command Line Tool**

Replaced the MBean of GetMissingServices with an RMI service. Adjusted the 'getmissingservices' command line tool accordingly. Also the tool was renamed from DeferredActivatorCLT to GetMissingServicesCLT.

**Change #SCR-261 LastLoginTimestamp Command Line Tool**

Introduced an RMI service for the the login counter MBean. Adjusted the 'lastlogintimestamp' command line tool accordingly.

**Change #SCR-262 GABRestorer Command Line Tool**

Replaced the MBean of GABRestorer with an RMI service. Adjusted the 'restoregabdefaults' command line tool accordingly.

**Change #SCR-263 ConvertJUL2Logback Command Line Tool**

Changed the command line tool to inherit from the AbstractCLI. No usage changes.

**Change #SCR-264 ExtractJULModifications Command Line Tool**

Changed the command line tool to inherit from the AbstractCLI. No usage changes.

**Change #SCR-265 ExtractLog4JModifications Command Line Tool**

Changed the command line tool to inherit from the AbstractCLI. No usage changes.

**Change #SCR-266 XMLModifier Command Line Tool**

Changed the command line tool to inherit from the AbstractCLI. No usage changes.

**Change #SCR-267 LoginCounter Command Line Tool**

Adjusted command line tool to inherit from the AbstractMBeanCLI

**Change #SCR-335 Introduced a new command line tool for listing executed, pending and excluded update tasks**

Introduced the listUpdateTasks command line tool to list all executed, pending and excluded update tasks (either via the properties file excludedupdatetasks.properties or via namespace). The switch -e is used to list all executed update tasks and obsoletes the command line tool listExecutedUpdateTasks. The later is deprecated and will be removed by the next release.

**Change #SCR-382 Command line tool for initialising/updating the ip2location database**

The command line tool is named "maxmind"

**Change #SCR-383 Command line tool for initialising/updating the maxmind database**

The command line tool is named "maxmind"

**Change #SCR-396 New commandline tool to set an organizer for an event**

Introduced new commandline tool seteventorganizer.

**Change #SCR-397 Introduced a new command line tool "getUpdateTaskStatus" for querying the status of an update task job**

Retrieves the status of a running or completed job. If the job already finished and its status has not yet retrieved, then its status will be returned and it will be removed from the pool. A further invocation of this tool will yield no results for the same job identifier. If the job is still running then

its invocation will return its current status.

#### **Change #SCR-441 Introduced new command line tools for managing multifactor authentication devices**

Introduced two new, REST-based, command line tools for managing multi-factor authentication devices. An administrator can use "listmultifactordevice" to list devices and "deletemultifactordevice" to delete devices.

## **5.4 Changes of Behavior**

#### **Change #SCR-323 Deprecated publication related fields and constants**

With v7.8.0 the old publication mechanism was replaced with the guest mode. Now, with 7.10.2, publications are removed. Therefore deprecated all fields that still related to publications in our code. E.g.

- `com.openexchange.groupware.userconfiguration.Permission.PUBLICATION`
- `com.openexchange.admin.console.BasicCommandlineOptions.SYSEXIT_NO_SUCH_PUBLICATION`
- `com.openexchange.file.storage.FileStorageFolder.CAPABILITY_PUBLICATION`

#### **Change #SCR-365 Tombstone tables will be cleaned up**

With 7.10.2 most tables containing tombstone data will be cleaned up by default. The cleanup will run once a day (per cluster, not configurable). Dedicated logging will give some information about the number of removed rows. All not considered tombstone data tables are either not used or cleaned up by a dedicated implementation.

Before the daily cleanup task starts the initial cleanup update task has to be executed (see SCR-362). It is possible to disable the cleanup and to define a timespan of data which will be kept. (see SCR-363).

If the cleanup won't be disabled the following tables are affected:

- `del_attachment`
- `calendar_attendee_tombstone`
- `calendar_event_tombstone`
- `del_contacts`
- `del_contacts_image`
- `del_oxfolder_tree`
- `del_oxfolder_permissions`
- `del_groups`
- `del_infostore`
- `del_infostore_document`
- `del_object_permission`
- `del_resource`
- `del_task`
- `del_task_folder`
- `del_task_participant`

**Change #SCR-366 New parameter pushToken for parts of the folders api**

As the new drive client for iOS directly uses the HTTP API, he receives push events for changes that he performed on his own. To prevent that, a new optional parameter "pushToken" is introduced for each modifying request in the "folders" and "infostore"/"files" module of the HTTP API which is then parsed before sending a push message.

The following actions of the folders api are affected:

- ClearAction
- DeleteAction
- CreateAction
- RestoreAction
- UpdateAction

**Change #SCR-367 New parameter pushToken for parts of the infostore/file api**

As the new drive client for iOS directly uses the HTTP API, he receives push events for changes that he performed on his own. To prevent that, a new optional parameter "pushToken" is introduced for each modifying request in the "folders" and "infostore"/"files" module of the HTTP API which is then parsed before sending a push message.

The following actions of the infostore/files api are affected:

- CopyAction
- DeleteAction
- DetachAction
- MoveAction
- NewAction
- RestoreAction
- RevertAction
- SaveAsAction
- UpdateAction
- UploadAction

**Change #SCR-368 New sharding cookie with configurable value to assign a shard identifier to a node**

To route HTTP requests to their correct App Suite shard, a mechanism is needed to determine the shard per request. The easiest and cheapest way to do so would be an additional cookie. As most requests are authenticated and coupled to a session, the sharding cookie must be aligned with usual session cookies as much as possible. Especially it is not desirable to have the cookie managed alone by a proxy in front of App Suite, as that would need to inspect each response for Set-Cookie headers to align the sharding cookie with other session cookies. Therefore, the lifecycle of sharding cookies should lie within MW.

The new shard cookie is set and deleted alongside the secret cookie. Its existence and value is evaluated on every request and corrected if a valid session is present. That means that it is recreated with the configured value.

- Cookie name: open-xchange-shard

- Cookie value: <shard-identifier> (configured with property `com.openexchange.server.shardName` with a default value of 'default')
- Expiry: Same as secret cookie
- Domain: Same as secret cookie
- Path: Same as secret cookie

**Change #SCR-371 Allow http.POST to contain url parameters and payload**

By now, http.POST has a `params` attribute, which will be send as request payload. The `data` attribute is ignored. This change will update this such that http.POST can receive `params` and `data` as well and `params` will be attached as url parameters and `data` will be send as request payload. This requires adjustments of any http.POST usage.

**Change #SCR-373 Tables for the autocontextid and reseller bundles are now automatically created**

Tables for the autocontextid and reseller bundles are now automatically created. So there is no need to manually run sql files for them anymore.

**Change #SCR-385 Write operations on contacts in folders with subscriptions are now forbidden**

Folders within the contact module can have a subscription to an external source. In this case the content of the folder is regularly overwritten with changes from this external source. This causes changes to the contacts in the folder to be lost. To prevent this, all write operations on objects in this folder are now forbidden. This includes creation, update and delete operations.

**Change #SCR-409 Drive push configuration from open-xchange-drive-restricted package now used as fallback**

With `config-cascade-aware` Drive configuration, the Drive push configuration from `open-xchange-drive-restricted` is now used as fallback only if no push configuration per user/context/server was found.

**Change #SCR-413 Introduced the concept of attendee privileges**

With v7.10.2 a new concept of attendee privileges per event is introduced. With this change an organizer of an event can enable attendees to modify event data that normally would be out of scope as per RFC 6638, section 3.2.2.1.

**Change #SCR-415 Store externally organized events per user**

In order to cope with contradicting meeting requests being sent to different internal users from an external organizer, such group scheduled events are now stored and handled on a per-user basis.

**Change #SCR-445 Session parameters regarding multifactor are added during session creation, requiring change of AddSessionParameter**

Handling multifactor session enhancements requires more than one session enhancement tracked in `AddSessionParameter`.

**Change #SCR-451 Change of "last modified" handling in WebDAV**

When accessing the InfoStore via WebDAV, a document's last modification date has been used as value for the `"DAV:getlastmodified"` property (read/write).

This may cause problems for clients that use this property instead of the ETag to detect whether the contents of a file have been changed or not, as an infostore document's last modified property can actively be set by clients, and does not necessarily reflect the last write time of the resource.

## 5.5 Changes of Packaging

### Change #SCR-318 Removed open-xchange-publish

With v7.8.0 the old publication mechanism was replaced with the guest mode. Now, with 7.10.2, the publication mode is removed on code level. Therefore removed bundles:

- `com.openexchange.publish`
- `com.openexchange.publish.basic`
- `com.openexchange.publish.json`
- `com.openexchange.publish.microformats`
- `com.openexchange.publish.online.infostore`

with depended bundles:

- `com.openexchange.admin.console.publication`
- `com.openexchange.subscribe.microformats`

and the package:

- `open-xchange-publish`

### Change #SCR-337 Renamed packages within 'c.o.admin.plugin.hosting'

The bundles named 'com.openexchange.admin' and 'com.openexchange.admin.plugin.hosting' both exported the same packages 'com.openexchange.admin.rmi.impl' and 'com.openexchange.admin.storage.interfaces'.

Therefore packages within bundle 'com.openexchange.admin.plugin.hosting' were renamed and now all start with 'com.openexchange.admin.plugin.hosting' prefix to reflect the package they are located in.

### Change #SCR-350 New bundle com.openexchange.password.mechanism

A new bundle `com.openexchange.password.mechanism` has been introduced which provides the base implementation of password hash mechanisms that might be used. Creating a new bundle was necessary to solve dependencies issues and to have clear separation of concerns. The bundle is contained in `open-xchange-core`.

### Change #SCR-356 Added new principal use-count bundles to the core package

Added new bundles "com.openexchange.principalusecount" and "com.openexchange.principalusecount.impl" to the "open-xchange-core" package.

### Change #SCR-364 New bundle 'com.openexchange.database.tombstone.cleanup'

The tombstone table cleanup implementation is bundled in "com.openexchange.database.tombstone.cleanup". This bundle will be shipped with "open-xchange-core" package.

### Change #SCR-372 Changed autocontextid and reseller db handling to liquibase

Changed how autocontextid and reseller bundles create their tables to use liquibase. The old sql files (reseller.sql & autoid.sql) have been removed and liquibase xml files have been added instead.

### Change #SCR-380 Rename package open-xchange-geoip to open-xchange-geoip-maxmind

We decided to include yet another geo location source, namely ip2location, alongside our default implementation of MaxMind. Note that both sources are mutually exclusive. Therefore, we need them on separate packages. At the moment the default implementation (the one that utilises the MaxMind source) lies within the 'open-xchange-geoip' package. The new source (ip2location) will be packed in 'open-xchange-geoip-ip2location' (see SCR-381 for this). To stay consistent to our naming scheme, we would like to rename the package 'open-xchange-geoip' to 'open-xchange-geoip-maxmind'.

**Change #SCR-381 New package for IP2location service**

The new package is called open-xchange-geoip-ip2location.

**Change #SCR-403 Less build dependencies and therefore new versioning for open-xchange-drive-restricted**

With this change, the code for loading and providing secrets was moved to the middleware and the open-xchange-drive-restricted package only contains the secrets itself and no code any more. This makes these packages independent from the AppSuite middleware version and we only need to build one package for distributing new secrets.

To conform to this new different release cycle, the version number of the package is now 1.0.0. We use packaging epochs to instruct the package manager to upgrade the package from version 7.x to 1.0.0.

**Change #SCR-404 Less build dependencies and therefore new version of open-xchange-mobile-api-facade-push-certificates**

With this change, the code for loading and providing secrets was moved to the middleware and the open-xchange-mobile-api-facade-push-certificates package only contains the secrets itself and no code any more. This makes these packages independent from the AppSuite middleware version and we only need to build one package for distributing new secrets. To conform to this new different release cycle, the version number of the package is now 2.0.0.

**Change #SCR-416 Added new bundle "com.openexchange.metadata" to open-xchange-core package**

Added new bundle "com.openexchange.metadata" to open-xchange-core package.

**Change #SCR-419 Add com.google.zxing libraries to multifactor.totp package**

Add com.google.zxing libraries to multifactor.totp package

**Change #SCR-420 Yubico's U2F core library added to multifactor.u2f package**

u2flib-server-core-0.19.0.jar

**Change #SCR-421 Added a new bundle com.openexchange.serialization**

Added a new bundle com.openexchange.serialization to the open-xchange-core package which provides a factory service which lets you create FilteringObjectInputStreams.

**Change #SCR-447 New bundles for multifactor authentication**

Introduced several new bundles for multi-factor authentication functionality. All are part of open-xchange-multifactor package.

## 6 Changes relevant for Developers

### 6.1 Changes of external APIs

**Change #SCR-283 Moved method from MBean to RMI**

The MBean method `List<Object[]> getLastLoginTimeStamp(int userId, int contextId, String client)` was moved to its counter part RMI service `LoginCounterRMIService`.

**Change #SCR-320 Removed publication related components in RMI**

With v7.8.0 the old publication mechanism was replaced with the guest mode. Now, with 7.10.2, the leftover are dropped. Therefore the RMI related classes:

- `com.openexchange.admin.rmi.impl.OXPublication`
- `com.openexchange.admin.rmi.OXPublicationInterface`
- `com.openexchange.admin.rmi.dataobjects.Publication`

were removed.

### **Change #SCR-321 Removed publication related components in SOAP**

With v7.8.0 the old publication mechanism was replaced with the guest mode. Now, with 7.10.2, the leftover are dropped. Therefore removed the following SOAP related classes:

- `com.openexchange.admin.soap.user.soap.OXPublicationService`
- `com.openexchange.admin.soap.user.soap.OXPublicationServicePortType`
- `com.openexchange.admin.soap.user.soap.OXPublicationServicePortTypeImpl`
- `com.openexchange.admin.soap.user.soap.Publication`
- `com.openexchange.admin.soap.user.soap.NoSuchPublicationException`
- `com.openexchange.admin.soap.user.soap.DeletePublication`
- `com.openexchange.admin.soap.user.soap.GetPublication`
- `com.openexchange.admin.soap.user.soap.GetPublicationResponse`
- `com.openexchange.admin.soap.user.soap.NoSuchPublicationException`
- `com.openexchange.admin.soap.user.soap.NoSuchPublicationException_Exception`

In process of this touched:

- `com.openexchange.admin.soap.context.soap.OXContextServicePortTypeImpl.java`
- `com.openexchange.admin.soap.reseller.soap.OXResellerContextServicePortTypeImpl.java`
- `com.openexchange.admin.soap.reseller.soap.OXResellerUserServicePortTypeImpl.java`

### **Change #SCR-341 Enhanced the Infostore end-point by additional fields for media resources (images, videos, etc.)**

The Infostore end-point (`/infostore?`) is enhanced by additional fields for media resources. All fields are read-only and therefore cannot be changed by client.

- `"capture_date"` (713) Date and time when media file was captured/recorded
- `"geolocation"` (714) The geo location associated with the media resource as latitude and longitude pair; e.g. `"(45 23)"`
- `"width"` (715) The width of the media resource
- `"height"` (716) The height of the media resource
- `"camera_make"` (717) The name of the manufacturer
- `"camera_model"` (718) The name of the camera or device associated with the media resource
- `"camera_iso_speed"` (719) The ISO speed value of a camera or input device associated with media resource
- `"camera_aperture"` (720) The aperture used to create the photo (f-number)
- `"camera_exposure_time"` (721) The length of the exposure, in seconds.
- `"camera_focal_length"` (722) The focal length used to create the photo, in millimeters.
- `"media_meta"` (723) Contains metadata extracted from the media resource
- `"media_status"` (724) Represents the status for the process of extracting metadata from a media resource

- "media\_date" (725) A special field, which prefers the capture date and falls-back to last-modified date if absent

**Change #SCR-357 Added new "usedGroups" parameter to Chronos API**

Added new parameter "usedGroups" to Chronos actions, which allows the client to send a list of comma-separated groups that has been used. E.g. because the group has been resolved into single users for a create action.

**Change #SCR-384 Added sort\_name field to DistributionListMember**

Each members of a distribution list now contains an additional field sort\_name which provides a name which can be used for sorting. This field works similar to the sort\_name field of the contact itself. Additionally the members are also sorted according to this field.

**Change #SCR-390 Query param 'admin' for some actions of the 'contacts' module has been deprecated**

The parameter admin (from the documentation: "Specifies whether to include the contact representing the admin in the result or not. Defaults to 'true'.") has been deprecated and will be removed in one of the upcoming releases. Instead of leaving the client the option to show the ox admin the administrator should use the newly introduced property com.openexchange.showAdmin (see SCR-388) to define if the enduser should be able to see/use the ox admin or not.

The following actions are affected:

- /contacts?action=advancedSearch
- /contacts?action=all

**Change #SCR-398 Introduced a new REST interface for closing sessions**

The new REST interface is registered under the /admin path. It supports three methods for closing sessions:

- /admin/v1/close-sessions/by-context
- /admin/v1/close-sessions/by-id
- /admin/v1/close-sessions/by-user

**Change #SCR-399 Accept new URL parameter "pregenerate\_previews" for /mail?action=get end-point**

Accept new boolean URL parameter "pregenerate\_previews" for /mail?action=get end-point. If set to "true" preview generation is triggered in the background for all file attachments of the referenced mail message.

**Change #SCR-401 Accept new "no\_nested\_message" parameter for /mail?action=get end-point**

Accept new boolean "no\_nested\_message" parameter for /mail?action=get end-point. If set to "true" nested messages are handled as regular attachments.

**Change #SCR-402 Added new end-points to download a ZIP archive for PIM attachments**

Added new end-points to download a ZIP archive for PIM attachments:

- /attachment?action=zipDocuments
- /chronos?action=zipAttachments

**Change #SCR-407 Add rest api call the check if user has multifactor enabled**

If a user sets up multifactor authentication, access to IMAP or other user sensitive information may also need to be restricted. A method to check if the user has multifactor authentication setup is required. This could be used by AntiAbuseShield, for example. This call, however, should be restricted to local machines, only, and not public facing.

**Change #SCR-412 Introduced "attendeePrivileges" parameter to calendar events**

Due to the new attendee privilege concept, a new property has been added for calendar events. To reflect the change on HTTP-API layer all event objects has been enriched by the property attendeePrivileges.

At the moment DEFAULT and MODIFY are known values for the field.

**Change #SCR-424 Added "metadata" format as option for action=document action**

The files?action=document end-point now accepts "metadata" as value for the "format" URL parameter. If set, it retrieves an image's metadata information (EXIF directory, etc.) as a JSON structure. If there are no metadata available (e.g. infoitem document is not an image) 404 Not Found is returned.

**Change #SCR-448 Multifactor HTTP API**

Added new API endpoints "multifactor/provider", "multifactor/device" for accessing multifactor authentication functionality. The new API is documented at <https://documentation.open-xchange.com/>.

## 6.2 Changes of internal APIs

**Change #SCR-326 Removed getDownloadUri from MailAttachmentStorage**

With v7.8.0 the old publication mechanism was replaced with the guest mode. Now, with 7.10.2, the leftover are dropped. Therefore the DownloadUri getDownloadUri(String id, Session session) throws OXException; function was superfluous and removed from the interface MailAttachmentStorage.

**Change #SCR-336 Removed obsolete and no longer required lib backport-util-concurrent-3.1**

The library mentioned above that provides a backport of java.util.concurrent API will be removed as this meanwhile can be used by our supported Java versions.

The following packages (formerly exported by bundle com.openexchange.common) will no longer be available:

- edu.emory.mathcs.backport.java.util
- edu.emory.mathcs.backport.java.util.concurrent
- edu.emory.mathcs.backport.java.util.concurrent.atomic
- edu.emory.mathcs.backport.java.util.concurrent.helpers
- edu.emory.mathcs.backport.java.util.concurrent.locks

See for more details: <http://backport-jsr166.sourceforge.net/>

**Change #SCR-342 Update libraries in com.google.api.client**

All libraries in com.google.api.client have been updated to the latest versions. The libraries are (with version tag of the new libraries):

- jackson-core-asl-1.9.13
- protobuf-java-3.6.1
- google-api-client-1.27.0
- google-api-client-appengine-1.27.0

- `google-api-client-gson-1.27.0`
- `google-api-client-jackson2-1.27.0`
- `google-api-client-java6-1.27.0`
- `google-api-client-protobuf-1.27.0`
- `google-api-client-servlet-1.27.0`
- `google-api-client-xml-1.27.0`
- `google-http-client-1.27.0`
- `google-http-client-appengine-1.27.0`
- `google-http-client-gson-1.27.0`
- `google-http-client-jackson-1.27.0`
- `google-http-client-jackson2-1.27.0`
- `google-http-client-jdo-1.27.0`
- `google-http-client-protobuf-1.27.0`
- `google-http-client-xml-1.27.0`
- `google-oauth-client-1.27.0`
- `google-oauth-client-appengine-1.27.0`
- `google-oauth-client-java6-1.27.0`
- `google-api-services-calendar-v3-rev361-1.25.0`
- `google-api-services-oauth2-v2-rev141-1.25.0`
- `google-api-services-gmail-v1-rev96-1.25.0`

### **Change #SCR-343 Upgraded Google Drive library to version 3**

The Google Drive library in `com.google.api.client` was upgraded from version 2 to version 3. To be more precise, the library `google-api-services-drive-v2-rev224-1.21.0` was replaced with the latest version `google-api-services-drive-v3-rev136-1.25.0`.

### **Change #SCR-351 Several changes on Java API that are required for salting**

Dropped static definition of available password mechs: `com.openexchange.passwordmechs.IPasswordMech` and enhanced the following interfaces/classes/methods to handle 'salt's:

- `com.openexchange.groupware.ldap.User`
- `com.openexchange.admin.reseller.rmi.dataobjects.ResellerAdmin`
- `com.openexchange.admin.rmi.dataobjects.Credentials`
- `com.openexchange.admin.rmi.dataobjects.PasswordMechObject`
- `com.openexchange.admin.rmi.dataobjects.User`
- `com.openexchange.guest.GuestAssignment`
- `com.openexchange.guest.GuestService.addGuest(String, String, int, int, String, String, String)`

**Change #SCR-352 Enhanced com.openexchange.session.Session interface**

Enhanced com.openexchange.session.Session interface by an additional method getOrigin() that indicates a session's origin. The origin reflects the application interface that was used to create a session. For instance HTTP/JSON or CalDAV/CardDAV.

That origin might then be used to add checks to application code to verify that a session is only used to enter application modules that are allowed. E.g. a CalDAV session must not be used to query arbitrary application data, but only calendar data.

**Change #SCR-358 Extended 'com.openexchange.group.GroupService' by new methods**

Added new methods to the com.openexchange.group.GroupService.

**Change #SCR-376 Added new methods to the GroupService**

Added two new methods to the group service which can be used to retrieve Groups sorted by use count:

- `public Group[] searchGroups(Session session, String pattern, boolean loadMembers) throws OXException;`
- `public Group[] getGroups(Session session, boolean loadMembers) throws OXException;`

**Change #SCR-377 Added new methods to the ResourceService**

Added two new methods to the ResourceService which can be used to retrieve Resources sorted by their use count:

- `public Resource[] searchResources(Session session, String pattern) throws OXException;`
- `public Resource[] searchResourcesByMail(Session session, String pattern) throws OXException;`

**Change #SCR-387 Streamline mail-compose send and save actions**

Based on the new mail-compose-api, the order of some extensions of the extension-points 'io.ox/mail/compose/actions/save' and 'io.ox/mail/compose/actions/send' will change their position. Additionally, some new extensions are going to be added and some old extensions are not needed anymore.

**Change #SCR-394 Remove flexbox-specific mixins**

Removed flexbox-specific mixins as every supported browser has full flexbox support since years.

**Change #SCR-395 Updated several 3rd party libraries**

Updated several 3rd party libraries:

- Updated Apache Commons CSV from v1.4 to v1.6
- Updated Apache Fontbox from v2.0.9 to v2.0.13
- Updated Apache Pdfbox from v2.0.12 to v2.0.13
- Updated Apache Tika from v1.19.1 to v1.20

**Change #SCR-428 Removed support for MSISDN**

With this change also extension point 'io.ox/core/http/mappings' was removed.

**Change #SCR-430 Renaming of module 'io.ox/backbone/mini-views/help' to 'io.ox/backbone/mini-views/helplink'**

Changed the module name from 'io.ox/backbone/mini-views/help' to 'io.ox/backbone/mini-views/helplink'

in order to distinguish the link from the actual help to prevent confusion.

**Change #SCR-431 Updated Jackson libraries**

Updated Jackson libraries from v2.9.7 to v2.9.8 due to a BlackDuck finding (CVE-2018-19362)

**Change #SCR-437 Updated several 3rd party libraries**

Updated several 3rd party libraries:

- Upgraded commons-fileupload from v1.3.3 to v1.4
- Updated GSON from v2.8.4 to v2.8.5
- Upgraded Apache HttpClient (from v4.5.6 to v4.5.7) and HttpCore (from v4.4.10 to v4.4.11) respectively
- Upgrade Apache Jackrabbit WebDAV from v2.15.6 to v2.19.1
- Upgraded Logback from v1.2.2 to v1.2.3 and slf4j counterparts respectively from v1.7.25 to v1.7.26

**Change #SCR-440 Bouncy Castle Packages updated to latest release version**

Updated Bouncy Castle libraries from 1.6.0 to 1.6.1

**Change #SCR-449 Upgraded to Grizzly v2.4.4 to benefit from latest security fixes and performance improvements**

Upgraded Grizzly from v2.4.3.1 to v2.4.4 to benefit from latest security fixes and performance improvements

**Change #SCR-450 Extended com.openexchange.user.UserServiceInterceptor**

To be able to pass down different properties after user creation, the interface `com.openexchange.user.UserServiceInterceptor` changed. The default function `afterCreate(Context context, User user, Contact contactData, Map<String, Object> properties)` was added.

**Change #CR-452 Updated some Apache Commons libraries**

- Update Apache Commons-Codec from v1.11 to v1.12
- Apache Collections4 from v4.2 to v4.3
- Added Apache Commons Math3 v3.6.1

## 7 Tests

Not all defects that got resolved could be reproduced within the lab. Therefore, we advise guided and close monitoring of the reported defect when deploying to a staging or production environment. Defects which have not been fully verified, are marked as such.

To avoid side effects, the shipped packages have gone through automated regression test on both, a Continuous Integration System and a dedicated server set-up 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.

## 8 Fixed Bugs

55298, 55916, 59957, 60826, 61017, 61167, 61388, 61412, 61427, 61525, 61645, 61660, 61726, 61756, 61777, 61784, 61799, 61823, 61859, 61884, 61887, 61893, 61989, 61998, 62034, 62076, 62106, 62160, 62163, 62178, 62201, 62205, 62212, 62216, 62218, 62222, 62237, 62240, 62243, 62258, 62263, 62281, 62282, 62294, 62300, 62305, 62345, 62360, 62378, 62393, 62452, 62453, 62463, 62525, 62572, 62605, 62608, 62666, 62704, 62730, 62746, 62755, 62761, 62764, 62770, 62773, 62794, 62800, 62835, 62862, 62883, 63027, 63126, 63135, 63184, 63211, 63216, 63222, 63240, 63298, 63331, 63333, 63357, 63360, 63386, 63387, 63392, 63435, 63443, 63452, 63470, 63477, 63482, 63611, 63677, 63867, 63876, 63951, 63965, 64086, 64119, 64146, 64217, 64337, 64407, 64421, 64467, 64482, 64670, 64674, 64722, 64811, 47790, 61771, 62465, 63411, 64680, 64682, 64703,