

Release Notes for Release 7.10.3 2019-12-04

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1 General Information

OX App Suite v7.10.3

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, document management, time management, cloud storage and metrics for monitoring end-user behavior. Enhancements to the OX App Suite platform in this release include:

- GDPR Compliant Export Functionality
 To comply with GDPR, organizations have to provide users with the ability to export personal
 data that they have given to a provider. The export should be in a structured, commonly used,
 machine-readable and interoperable format that enables them to be able to move to another
 provider.
- Re-Designed Contact Dialog
 This redesign provides a more structured and cleaner display of a users contact lists. It also includes a new edit dialog that is cleaner and provides better usability.
- Improved Quick Launch Icon Handling Based on user feedback Open-Xchange has enhanced the Quick Launch functionality. OX App Suite v7.10.3 now lets users set up 5 Quick Launch Icons.
- Increased Flexibility in User Regional Settings In OX App Suite v7.10.3 the regional setting in the web frontend have been significantly enhanced. A new dropdown has been added to the General Settings section that lets users create a more customized regional setup for their OX App Suite.

OX Documents v7.10.3

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:

- Threaded Comments in OX Spreadsheet and OX Presentation
 This new comment feature in OX Spreadsheet and OX Presentation allows users to respond
 to comments. It is now possible to have a conversation with other people about a point within
 a spreadsheet or a slide within the document itself.
- Better Navigation in OX Text
 Users can now see the current, and total number of pages, in OX Text as they scroll through
 the document.
- Shapes with Transparencies in OX Presentation
 This version of OX Presentations introduces a new dialog for formatting line and fill attributes of shapes. This new dialog also includes the transparency.

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 OXpedia at: https://oxpedia.org/wiki/index.php?title=AppSuite:Version_Support_Commitment
- With 7.10.3 the Documents Collaboration Service has been introduced. The Documents Collaboration Service needs to be installed, configured and run. It supports collaboration across middleware nodes but is also mandatory for a small (even single node) environments. For upgrades from earlier versions than 7.10.2 the Hazelcast Cluster requires a complete shutdown, since the internal OX Documents data has changed. A rolling upgrade is not possible. Please note: For OX Documents, Apache version 2.4.10 or newer is required. Further information can be found at: https://oxpedia.org/wiki/index.php?title=AppSuite: Documents Installation Guide 7103#Documents Collaboration Service
- In accordance with the supported platform policy, Open-Xchange announces the discontinuation of support for SUSE Linux Enterprise Server 12 (SLES 12), Red Hat Enterprise Linux 6 and CentOS 6 with the next upcoming release of OX App Suite, planned for the next release. Additionally, Open-Xchange announces the discontinuation of support for Kerberos. With OX App Suite v7.10.3, Open-Xchange official supports the new Debian 10 (Buster). We encourage administrators to update to the latest operating system version. For details of all supported platforms and databases please refer to the requirements page at: https://oxpedia.org/wiki/index.php?title=AppSuite:OX_System_Requirements#Server_Platforms
- As a result of customer feedback, Open-Xchange will extend the active support commitment for OX App Suite v7.8.4 until 2020-06-30 once more. Open-Xchange wants to allow extended upgrade time to OX App Suite v7.10.x for its customers. Please note, after 2020-06-30, Open-Xchange won't provide any new patches for OX App Suite v7.8.4 version. Additionally, Open-Xchange extends the official support of 7.10.2 until 2020-06-30. More details and an overview of the versions currently supported can be found at: https://oxpedia.org/wiki/index.php? title=AppSuite:Version_Support_Commitment.



2 Shipped Product and Version

Open-Xchange App Suite backend 7.10.3-rev3

Open-Xchange App Suite frontend 7.10.3-rev3

Open-Xchange USM 7.10.3-rev3

Open-Xchange EAS 7.10.3-rev3

Open-Xchange Documents 7.10.3-rev3

Open-Xchange Documents Frontend 7.10.3-rev3

Open-Xchange Readerengine 7.10.3-rev2

Open-Xchange Documentconverter 7.10.3-rev3

Open-Xchange Documentconverter API 7.10.3-rev3

Open-Xchange Imageconverter 7.10.3-rev3

Open-Xchange Pdftool 7.10.3-rev2

Open-Xchange Documents Collaboration 7.10.3-rev3

Find more information about product versions and releases at 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 7.10.2. Solutions for vulnerabilities have been provided for the existing codebase via Patch Releases.

65132 CVE-2018-9997

CVSS: 5.4

65584 CVE-2019-12738

CVSS: 2.2

65722 CVE-2019-14226

CVSS: 2.2

65799 CVE-2019-14226

CVSS: 3.1

65805 CVE-2019-14226

CVSS: 3.1

66025 CVE-2019-14227

CVSS: 5.4

66081 CVE-2019-14227

CVSS: 5.4

66094 CVE-2019-14225

CVSS: 6.4

66538 CVE-2019-16716

CVSS: 2.2

66594 CVE-2019-16717

CVSS: 2.2

67097 CVE-2019-16717

CVSS: 3.1



67871 CVE-2019-18846

CVSS: 6.5

67874 CVE-2019-18846

CVSS: 5.0

67931 CVE-2019-18846

CVSS: 5.0

67980 CVE-2019-18846

CVSS: 5.0

67983 CVE-2019-18846

CVSS: 5.0

68136 CVE-2019-9853

CVSS: 7.7

68252 CVE-2019-18846

CVSS: 5.0

68258 CVE-2019-18846

CVSS: 5.0

4 Bugs fixed with this Release

This section provides a summary of bug fixes and changes that have been applied subsequently to shipping Release 7.10.2. Some of the announced bug fixes may have already been fixed at the existing code-base via Patch Releases.

56042 Got exception during upload

Middleware's Sproxyd connector refused to store an empty file to Sproxyd end-point and Hard fail when trying to delete a non-existing file.

This has been solved by allowing to store an empty file to Sproxydend-point and Do not fail when trying to delete a non-existing file from Sproxydend-point.

56038 Name of attachment with Japanese characters not correctly displayed

"ISO-8859-1" charset is assumed for every string value in MAPI properties of a TNEF-encoded attachment.

This has been solved by detecting proper charset (e.g. by code page attribute) and use that to get the string value.

59445 As a user I can customize regional settings

Regional settings (e.g. decimal separator) were bound to login language. Regional settings can be changed manually in user settings.

63699 Feedback Module: When Skyscraper Advertisement is Collapsed the Expand Icon is Obfuscated by the Feedback Icon

Feedback button was located in io-ox-core.

This has been fixed by moving Feedback button to io-ox-screens.

64383 Printing in Drive in Chrome 72+ Fails With Blocked Pop-Up

Chrome blocked blankshield plugin. Do not use blankshield in chrome (supports noopener so it's not needed).



64815 [object] Object on session timeout

Callback function was expecting a string.

This has been solved by making it work with strings and error objects.

64958 no warning when removing organizer from appointment during creation of appointment

This fix has been reverted because as a user I can create appointments without organizer in public calendars now.

64979 Sharing links don't translate object names correctly

Folder names were translated based on the locale of the sharing user.

Now they are translated based on the local of the guest user instead.

65175 Wrong timestamp for shared Items in Drive

Requested date was converted by the backend and also a second time by frontend.

Now the UTC date is requested from the backend.

65279 can't delete appointment, foreign key constraint fails

Reordered delete statements in the Update Tasks.

65304 IE11 compose window stays blank

Internet explorer lacks the function.name property and therefore tries to compute the function name out of source code. If the function has no name due to minified code, this regex will fail and therefore has no result.

This has been solved by increasing robustness of code to work minified and not minified.

65318 SELECT COUNT on filestore2user table is exhausting database

Added an index for column "filestore_id" to "filestore2user" table to not examine every row of the column.

65349 Signature with an image without text will not display

Also signatures with whitespaces were filtered.

This has been solved by adjusting the filter for signatures.

65366 JVM creates huge amount of WARN+ERROR loglines and 100% CPU for several hours 100%

Growing inconsistencies in general cache causing a massive amount of log messages keeping CPUs constantly busy.

Improved general caching to use a single map instead of trying to manage two resources (map & queue) for implementing LRU behavior.

65372 Disable the Birthdays Calendar

Setting to disable the birthday calendar did not check capabilities.

65389 String index out of range: 78

Avoid possible java.lang.StringIndexOutOfBoundsException when parsing SIEVE script.

65408 Guard guest cannot access mails

When mail.loginSource=name, the userLoginInfo is returned for mailConfig.login, which for Guests is null, which throws Missing error.

Fixed by null value allowed for Guests.

65410 Calendar items in shared / public calendar are always using the calendar color for other users but the owner

Appointment color was only considered if the user is the owner of an event such that the user can select the color for the whole public folder.

Now the appointment colors are considered for organizers and organizers_on_behalf.



65515 Failed to load email message content in UI

Corrupted mail with invalid multipart delimiters and invalid charset name quoting leads to failure when parsing/displaying the affected mail.

Solution: Deal with possibly quoted charset names on charset look-up. This fixes the exception when looking-up charset by charset name, but does not display reasonable content since multipart delimiters are corrupt in mail's source. The user sees: This mail has no content.

65533 Attachment from external ics invite not present in Calendar meeting

CID URLs in iMIP were not encoded and decoded correctly, so that the referenced MIME part could not be looked up successfully.

This has been solved by correcting encoding and decoding of "cid" URLs in invitation mails.

65537 java.lang.StringIndexOutOfBoundsException: String index out of range: 1

Avoid possible StringIndexOutOfBoundsException when URL-decoding a string.

65552 Invalid recipient in Drivemail leads to inconsistent behavior

In case multiple transport mails are supposed to be sent, the whole operation fails in case send attempt for one mail fails.

Solution: Do not abort sending multiple transport mails if send attempt for one mail fails.

65581 Refused to display in a frame because it set 'X-Frame-Options' to 'sameorigin'

Regular expression in link parser was too greedy which led the parser to not append the appropriate attributes target and rel attributes to the link.

This has been solved by fixing the regular expression.

65614 Active clients unknown with token login

Allow change and overwrite user agent when using tokenlogin.

65640 The output file for the webmail feedback labels the "Inbox" application as "Mail" , Instead of "Inbox""

It was not possible to map feedback app names to custom names.

This has been improved by adding new extension point to process feedback data, now it can be added in customizations.

65647 GAL Contacts are empty on Samsung EAS Android 8+

The search in USM was restricted to three fields.

Added more fields to search for: email1, email2, email3, nickname, second_name.

65659 The output file for the webmail feedback comments module does not recognize Edge browser

Edge recognized as IE with higher version.

This has been fixed by improving the browser check.

65682 Replies to appointments always in English on OUTLOOK and not in current language

If the organiser is no attendee (Outlook), the locale for the notification recipient was not set.

This has been fixed by adding the acting users locale in this case.

65688 Mail forwarded to gmail receives delivery failure

Incorrect initialization of in-memory byte array when transferring nested message's data to new message. The generated byte array contains a 0-byte remainder.

Solution: Proper initialization of in-memory byte array, which prevents from 0-byte remainder.

65742 Token login not working anymore after upgrade to 7.10.2

A mismatch between the derived and registered class definitions may lead to a serialization error when using the Hazelcast-backed token login container.

Use defined order of field definitions during (de-)serialization of portable sessions.



65776 Customer's footer isn't shown and too much empty space in the DEM

Table height:100% breaks mail detail view.

This has been fixed by adding style to reset table height in mail detail view.

65812 Wrong translation: Vacation notice / Afwezigheidsmelding

Changed translation to solve this.

65815 Vacation notice, show advanced options

According to RFC 822 the local part needs to be quoted in some cases. Since this was only done in the mw the value could not be interpreted correctly.

If the local part needs to be quoted this is now also considered in the Appsuite UI.

65821 Access to Customer app is sometimes very slow

Threads piling up in push registration framework due to excessive locking in turn leading to unresponsiveness of the system.

This has been solved by removing that lock by using higher level concurrency mechanisms and optimized to avoid unnecessary remote session look-up.

65899 Unable to open new text or presentations from template on Android 9 with FF67

Added platform specific and version agnostic alert texts for supported browsers.

65928 Wrong HTML parsing

No delimiting CRLF when appending successive plain/text content.

Fixed by properly append successive plain/text content.

65935 No "Move dialog for folders in subscribed IMAP accounts

Besides moving external rootfolders also moving subfolders was prevented.

The query has been modified to allow moving of external subfolders.

65941 Removing ro from db safely

A superfluous check led to the "unregisterdatabase" utility reporting that also read-only schemas are possibly "in use".

This has been solved by performing "in use" check during "unregisterdatabase" for master database only.

65943 Umlauts not correctly synced via CalDAV with iOS devices

A problem in the serialization logic for extended properties of calendar components caused non-ASCII characters being corrupted during saving.

Properly encode extended properties of calendar components during saving to solve this issue.

65953 Portal calendar widget can't find calendar

Due to a bug in the folder clear logic that is invoked when a folder with many events is deleted, some entries were not deleted from the database. Those orphaned events with stale references to no longer existing folders cause problems whenever all events of a user are requested, e.g. from the portal widget of the App Suite client.

The folder clear logic was fixed, an update task cleans those orphaned entries up in the database.

66007 Wrong font is pre-selected when replying a mail

Fix used default color.

66064 Change Google selection UI appearance to conform with their branding guidelines

Adjusted appearance like described in ""Google" Text" in the branding guideline.

66088 Mail - Compose - Request read receipt flag checked by default

This has been solved by ensuring a valid address is passed to "Disposition-Notification-To" header and that only a valid E-Mail address is accepted for "disp_notification_to" in JSON field.



66130 lang:DE - browser title bar changes from "Kalender" to "Calendar - Kalender" Fixed a wrong choosen folder title.

66133 Settings - Accounts - Editing the primary E-Mail account not fully documented Fixed user documentation.

66139 Android login page wrong button color

It was used screensize instead of "real" smartphone detection.

This has been solved by switching to .smartphone class.

66162 Basic user can not create a new calendar by uploading an ics

This was caused by wrong root folder.

This has been solved by always using the default (personal calendar) folder as root folder.

66169 Not possible to connect HiDrive with Windows 10 and Edge

Runtime error in Edge when using popup.close() stopped code execution.

This has been fixed by closing popup at the very end to limit any impact on the promise chain itself.

66184 Quite a lot long running threads hanging in mail compose via sproxyd

Uploaded files are directly streamed to destination storage with the consequence that reading from stream blocks possible file storage resources (e.g. connection in connection pool) for the time the actual upload is in progress. That behavior leads to more and more threads stacking up awaiting connections from connection pool. That huge amount of threads lets "VM Thread" run permanently leading to constant "stop the world" pauses making machine unresponsive.

Solution: Spool uploaded files to temporary file to not block storage resources (e.g. connection pool) by possibly slow upload. Introduced a timeout (default is 30 seconds) when waiting for an available connection in HTTP connection pool. Changed filestore connectors to be responsive to ConnectionPoolTimeoutException.

66238 Messages from a particular sender disappear in the UI

Not a real fix, but added null guard when searching for mails.

66241 Evaluating optional 'revtag' param to create fast hash for chunked requests after revisionless save

same request parameters lead to same responses from the MW #getDocument Ajax handler. In case the request parameters don't change after revisionless save, the response will be the unchanged one.;evaluating a new 'revtag' request parameter in MW Ajax handler to detect a change underlying content of request after revisionless save without adjusted 'version' parameter.

66258 Wrong tooltip in TinyMCE toolbar for emoticons

String was not translated correctly.

Fixed typo to solve this issue.

66261 Favorite entry not removed if HiDrive account is not longer valid and deleted

Update favorite folders on account removal. Also react to error code FLD-1004 Storage account was removed for this folder.

66294 Lots of MySQLIntegrityConstraintViolationException: Duplicate entry for key 'PRI-MARY' after upgrade

When the default internal calendar account gets auto-provisioned concurrently when first being accessed simultaneously, a database error may be raised under certain circumstances.

This has been solved by re-checking pending auto-provisioning operations after conflicting insertions.

66297 Wrong dutch translation for attachment view

This has been solved by adding comments when "View" should be used as a verb.

66306 Attaching an attachment in mail compose silently fails. WebUI error logs shows FLS-



0024

A pending request blocked the window.

This has been solved by correctly handling the error and unblock the window. Also added documentation for this.

66307 Customer cannot create user

Missing user infostore folder not handled and regression of bug 64811. Handle missing folder and reuse existing tooling when looking up folder names.

66315 Scrollbar lost in signature editor

Do not apply overflow hidden for signature editor.

66354 Order mails not printed correctly

Custom mail css did not work correctly because of missing class.

This has been fixed by adding the missing class.

66388 Wrong translation in E-Mail filter rules for dutch language

Changed 'Broodtekst' to 'Berichtinhoud'.

66393 Reset password for guest account fails

This wasn't a bug, it was a wording problem.

This has been solved by changing wording for the avatar dropdown of "Change Password" for guests. Was confusing with Guard Guest emails. Changed to "Add login password" or "Change login password". Adjusted title and button of dialog.

66396 Move context to another filestore using movecontextfilestore is not updating new filestoreID

Trying to delete location/directory from source file storage failed. Due to that, context information has not been properly updated.

Solved by fail-safe deletion of source location in file storage. Note: Filestore identifier of affected contexts need to be manually adjusted in database.

66412 Chronos migration "java.lang.IllegalStateException: too many empty recurrence sets"

A bogus series pattern was converted into a recurrence rule that produces no occurrences. Automatically correct invalid "yearly 2" and "monthly 2" patterns during conversion, handle possible IllegalStateException properly now.

66451 Portal widget "my tasks" does not work anymore after 7.10.1 update

Task query uses "GROUP BY" clause and conflicts with ONLY_FULL_GROUP_BY mode of the database. Avoid "GROUP BY" clause in SQL statement, but filter possible duplicate tasks in application.

66457 Wrong importance value medium in mail header

Wrong value "Medium" used to signal normal importance.

Set "Importance" MIME message header according to https://tools.ietf.org/html/rfc4021#page-32. (Values: High, normal, or low).

66483 Chrome: appointment is opened only after third click

Windows sends a mousemove event when only a mousedown event should be triggered resulting in the monthview to enter drag mode.

This has been fixed by introducing a deadzone of 5px before dragging is enabled.

66526 Maileditor with NL language setting: 'Kopie aan' instead of CC

Fixed translation.

66550 Inconsistent naming of menu options

Fixed German translation.



66552 Unified mail: "mark all as read" inactive

Grant write permission to virtual composite folders of Unified Mail account; write permissions in terms of mail folder means user is allowed to set flags other than seen/unseen and "mark as deleted".

66553 Mail compose and emojis after zoom fails to render properly

TinyMCE cannot handle floating point numbers and therefore, size computation fails. Manually force tinymce to accept floating point pixels when necessary.

66556 Floating windows for mail compose can not be closed

When opening a restorepoint, the id is incremented. But for objects from the jslobs, the object reference is still pointing to the object in the jslobs. Therefore, the id in the cache is also changed and the object with the old id cannot be found and deleted.

Work on a copy of the object to prevent to overwrite the id in the jslobs object.

66558 Remove google oauth subscriptions after deactivating Google oauth

Indicate proper status for mail accounts with OAuth-related issues.

66595 etc/settings/guidedtours.properties got overwritten during update from 7.8.4 -> 7.10.0 -> 7.10.1

Mark guidedtours.properties as configfile now.

66685 Not possible to send mail if more than 100 addresses selected in contacts

Introduce configurable fetch limit io.ox/contacts//toolbar/limits/fetch.

66712 Mail can not be sent when using long subjects (about ~256 chars)

Data truncation while trying to store a quite long subject to database.

Solution: Enlarged "subject" field in "compositionSpace" table from 256 to 512 character. Moreover, added user-friendly error messages in case such a data truncation occurs.

66714 Error - The operation could not be completed due to insufficient permissions - if you edit an appointment series with full day appointment

Rrule was always using full time format.

Now local format without time is used.

66718 Reminder mail of appointment in English even another is selected

The JVM's default locale was used when processing the template for appointment reminder mails. This has been fixed by using the receiving user's locale when processing the template for appointment reminder mails.

66721 File not unlocking when opened with ms office

The "Lock-Token" header was not sent correctly to the client during the LOCK response, so that a consecutive UNLOCK request could not be performed successfully.

This has been solved by using correct format for the "Lock-Token" response header.

66762 OX node apparently unable to close/remove threads

Stick to active short-term sessions when re-injecting a push listener to solve this issue.

66768 Missing translation in error message for quota limit

Specify user's locale when outputting detected limitation violations to show translated error messages.

66771 Portal: Twitter does not work

Wrong "API" parameter was used.

This has been fixed by adding correct API string to the request.

66786 Sometimes document converter rel 7.10 stops working with OOM

Ensuring that current DocumentConverter server release works flawlessly with previous Document-



Converter client/middleware releases.

66919 vCard import: BDAY ignored without YEAR

Unable to handle vCard v4 partian dates.

Now handling PartialDate for Birthday and Anniversary to solve this issue.

66922 Profile Picture Cannot Be Used

The image isn't converted to png anymore, switched to JPEG.

66928 UI crashes when opening mail

Some jQuery functions got stuck and prevented further code execution.

This has been fixed by using native functions.

66933 Caldav doesn't sync all appointments

For CalDAV collections with many contained resources where the initial synchronization result gets truncated before a specific point in time, consecutive DAV:sync-collection requests with this intermediate token would get answered with HTTP 403 Forbidden due to the token being assumed out of range.

This has been fixed by encoding additional flags into generated sync-tokens to properly resume intermediate truncated responses.

66936 Latest chrome cuts quoting

DOMPurify returns by default a TrustedHTML object on Chrome 77 instead of a simple String. This is caused by an experimental API beeing enabled in Chrome 77 by default.

Added a simple typecheck to cast the TrustedHTML back to string if needed.

66988 Moving an externally-invited calendar entry deletes the calendar entry.

The create copy/delete original fallback after a failed move operation of a CalDAV client may cause the event resource being deleted, since the copy was interpreted as update under special circumstances.

Do not try to update event as fallback after an UID conflict was detected.

67006 Renaming folder with initial asterisk results in lost folder

Was caused by wrong detection whether a move or a rename needs to be performed. Fixed check whether a move or a rename needs to be performed to solve this issue.

67017 Sieve filter settings page lags/stops for a time when moving elements

Change listener called too frequent.

Solution: debounce execution waiting for 30ms without further call.

67021 Saving draft emails merged

Address string was interpreted as a group name in case host is NIL when parsing an ENVELOPE address string.

This has been fixed by aligning behavior of Open-Xchange Middleware according to common IMAP server one. Assume "missing-domain" as host part of an E-Mail address in case host is NIL when parsing an ENVELOPE address string.

67027 User cannot edit some of his own appointments after update to 7.10.2

Inconsistent data for organizer/principal in the legacy storage was converted to a representation of the organizer that assumed an external entity.

This has been solved by ignoring principal if equal to organizer when reading from legacy storage, correct sent-by in organizer for already migrated events. Please mind that the update task to correct the wrong data in the storage is disabled by default in the hotfix, but can be enabled manually by setting the property "com.openexchange.calendar.enableCalendarEventCorrectOrganizerSent-ByTask" to "true" if needed.

67042 No print option in preview of eml

This has been solved by enabling print preview for embedded mail.



67047 Converting of ACE email-addresses with uppercase-chars not working

Accept upper-case ASCII characters as well for ACE->IDN conversion to solve this issue.

67058 Appointment notification email not synced to mobile device

Mail was filtered out because it was interpreted as appointment invitation mail. Now mail is analyzed whether the appointment was created "on behalf" and then synced to client, but this works only for the main calendar of the "manager".

67067 Message not getting displayed correctly

There is a check to test if a file actually holds data based on some heuristics. That check leads to false-positive for the inline image attachments of the affected E-Mail. Fixed check for possibly empty file data.

67073 Document preview slow when a lot of files in folder. Every file type has an own view type that is required on demand.

In case of so many files, it floods require with requests. The problem is that all these requests stays pending, because the first ones is not resolved quickly. Therefore the cache to return the data for the following requests seems not to be used. Depending on the amount of files, these long list of requests to require can runs into the require timeout.

Preload the view types that require can always use the cache. All type definitions combined are about 30k minimized (for comparison, every single page that is shown is the viewer is a lot larger). So the benefit from loading single types on demand is not that great regarding bandwidth. We tried also to filter all used types and just preload these, but the added complexity and overhead due to the filtering was not worth the benefits.

67245 Forwarded mails from external clients without a displayname get NULL as name

Missing handling for empty display name (recipient) when quoting a message.

This has been solved by adding handling for empty display name.

67286 Need for extended debug logging to trace registration/unregistration of permanent push listeners

Extended DEBUG logging for Dovecot push and avoid rescheduling on registration of a new permanent push listener.

67325 Not syncing all appointments in the future

Made the hard coded limit for future appointments of 3 years configurable in eas.properties with com.openexchange.usm.eas.appointments.future.time_limit.

67329 Calday sync after time limit in com.openexchange.calday.interval.end from client to **OX** possible

Send error response with the CALDAV:max-date-time / min-date-time precondition when client attempts to create an event outside of synchronized time range. This was missing before.

67349 Onboarding assistant does not recognize an iPadOS 13 device

Improved UX by use different naming and description.

67355 tmp picture/preview/??? .tmp files are saved in /tmp (-> no space left on device)

Default temp directory ("java.io.tmpdir") used internally by JRE's ImageIO and JNA module. Set configured upload directory as working/caching directory for both - ImagelO and INA.

67359 User can't reply to message if message is deleted before reply is sent

Don't fail to transport a message composed as reply/forward if original message does no more exist.

67365 Trying to access shared calendar logs out user

Firefox still not enabled secure noopener handling.

This has been fixed by not using blankshield for deeplinks.



67397 Issue when MariaDB server is running with the -read-only option

Read connection used for table cleanup.

This has been solved by using write connection for table cleanup.

67418 Inline attachment problem with png file

Image transformation failed because Java image reader is unable to parse PNG image binary. This has been fixed by handling special 'javax.imageio.IIOException' hinting to Java image reader failed to parse image binary. Return image non-transformed instead.

67422 Certain mail freezes/crashes ui

Clientwise specified "max_size" parameter has not been applied to plain text. Now applying given "max_size" to plain text as well.

67542 com.openexchange.mail.remoteContentPerDefault not working

This is only not working for the context admin while being created with 'createcontext', not for users commonly. Was caused by accessing context properties while context is created. This has been fixed by falling back to server level configuration if context is not yet created.

67641 High Memory Use in CentOS 7 with too many files openMemory gets flooded with many regular untagged IMAP responses, which are actually of no use. This has been solved by adding mechanism to drop regular untagged IMAP responses on command execution to avoid flooding memory with unused IMAP responses.

67646 File buttons not displayed with ABP in firefox

File named sharebutton.js.;Renaming file name to invitebutton.js

67650 Not able to add image to signature

This was caused by DOMPurify removes src="blob:..." This has been solved by using data uri instead.

67674 Mobile web UI uses description "signatures" while there is only one signature possible at all

Adjusts settings tree label.

67682 Storage account re-auth with different login credentials will result in unspecific error message

Added missing user readable error message to exception.

67701 Attachment lost when forwarding a mail

Also consider application header and empty mails with just an attachment.

67718 Vacation notice in UI available even if mail backend does not support this

Check if action 'vacation' exists was missing.

This has been solved by calling mailfilter api to check for this vacation action before rendering the vacation notice button.

67757 "Reply-To" header always being added by AppSuite

Redundant fallback value for REPLY-TO header.

Leave REPLY-TO unset now if it defaults to the same value as FROM.

67883 OXUserCopyService.copyUser(): Unexpected problem occurred

Duplicate task leads to abortion of user copy operation.

Solution: Do not hard fail on duplicate task, but handle it gracefully.

67982 Not possible to switch to uppercase in OX Documents via mobile in Android

It was a problem of restoring the selection on Android. Avoiding setting superfluous Android selection.



67991 Subscribe shared calendar Layout misplaced on mobile devices

Missing CSS rules for mobile devices.

This has been solved by introducing some CSS rules for mobile devices (e.g. put checkbox in new line).

67994 SAML, OIDC: initService should add a ISESSIONID

Invoke 'javax.servlet.http.HttpServletRequest.getSession(boolean)' in SAML and OIDC implementations to maintain route to the right Middleware node, which spawned the Open-Xchange session.

68079 Displaying several thousand sieve rules takes more than 5 min with 100% CPU for browser

Sortable plugin from jquery-ui takes a lot of time to run.

It has been replaced with native drag and drop support.

68091 Found no such composition space

Choose another category for error code MSGCS-0007 ('Found no such composition space for identifier: XYZ') to achieve more lean logging behaviour.

68097 HTML content will be returned un-sanitized

Unexpected null dereference when examining an HTML tag's attribute value. Fixed possible null dereference when examining an HTML tag's attribute value.

68139 Google Calendar Abo can not be renamed after custom color was set for it

Fixed different bugs in the google reconfiguration code.

68145 Nested folder structure is created when external account is added

Deny support for folders carrying reserved name as full name.

68181 Read emails are displayed in bold font independent of read/unread status on MacOS

Fixed a CSS issue on MacOS.

68219 Appsuite Middleware not logging provisioning actions

Changed log level to INFO and include effective schema strategy in log message.

68243 Android: appointment color and participants not displayed correctly after organizer change

The organizer is no longer replaced by the creator. This was introduced for an older bugfix and has been removed.

68253 High CPU min. 3 Threads with >95% CPU in "WeakHashMap()"

DateFormatCache was not threadsafe and has been replaced with a synchronized map.

68261 Follow up for appointments not possible on mobile

The dropdown action was missing the appointment data due to a missing backbone model.

68304 Android: vacation rule created with Android does not have a rule name

The rule name, which wasn't set before, is now set fix to "vacation notice".

68306 Android: Subject line of vacation rule removed after rule was edited on Android device

The subject of the vacation rule wasn't used. It will be shown and updated now.

68309 Android: unlimited vacation rule will always be changed to a 7 days rule on rule change

The client didn't handled unlimited vacation, despite of the EAS protocol allows it.

Fixed by ignoring the start and end date if the server reports an unlimited vacation rule.



68310 Android: vacation rule message is displayed in both available fields on Android (however only the lower one will be synced)

OX is missing the support for the EAS feature <AppliesToInternal>, <AppliesToExternalKnown>, <AppliesToExternalUnknown>.

Only the <AppliesToExternalUnknown> will be transferred to the server and <AppliesToExternal-Known> and <AppliesToExternalUnknown> with the same content will be send to the server.

68346 IDN encoding incorrectly on send

Hindi characters were dropped on Internet email address parsing and are now maintained.

5 Changes relevant for Operators

5.1 Changes of Configuration Files

Change #SCR-218 Missing option to disable browser tabs

In the file called as-config.yml there could be a new property which disables the tabHandling feature

openInSingleTab: true

Change #SCR-463 Added new lean configuration options for Gmail Send Connector

Added new lean configuration options for Gmail Send Connector

com.openexchange.gmail.send.timeout Specifies the socket read timeout value in milliseconds com.openexchange.gmail.send.connectionTimeout Specifies the socket connect timeout value in milliseconds

com.openexchange.gmail.send.logTransport Specifies whether a transported message shall be logged providing Google Message ID and login information

Change #SCR-466 New password hash mechanisms

The admin configuration DEFAULT_PASSWORD_MECHANISM now defaults to SHA-256. SHA-512 is also available.

Possible values are now: CRYPT / SHA / SHA-256 / SHA-512 / BCRYPT

Change #SCR-469 Password Hash Mechanisms added to JMX Tools

New configuration option JMXPasswordHashAlgorithm to define the hash mechanism used by JMX. Possible values are: CRYPT / SHA / SHA-256 / SHA-512 / BCRYPT Default is SHA for backwards compatibility.

Change #SCR-470 Fixed typo for onMouseLeave event handler identifier

Fixed typo for onMouseLeave event handler identifier ("onmounseleave" -> "onmouseleave") in 'opt/open-xchange/etc/globaleventhandlers.list' configuration file

Change #SCR-476 Running several Hazelcast instances on one server node might cause trouble in some cases due to port clashes

The IC server does not need any Hazelcast functionality by itself but needs some Hazelcast bundles due to indirect dependencies of some backend bundles referenced. Disabling Hazelcast functionality for the IC server by setting the appropriate config item disables the not needed Hazelcast functionality for the IC server. Adding config item com.openexchange.hazelcast.enabled=false to overwrite.properties of ImageConverter server in order to prevent start of not needed Hazelcast services within the IC server:

- # Hazelcast functionality is not needed by the
- # ImageConverter service and is therefore disabled com.openexchange.hazelcast.enabled=false

Change #SCR-477 Failed login when user takes to long to authenticate on the OpenID SSO



Endpoint

A new property com.openexchange.oidc.failureRedirect is available to configure the redirect location if a user state is lost during authentication. The default value is an empty String. In this case the user is not redirected anywhere but shown the default error page.

Change #SCR-480 Adjust loglevel for com.hazelcast to INFO

The previously customized loglevel for com.hazelcast (at level WARN) is removed, so that the default level INFO is used again. Also, the custom level for com.hazelcast.internal.diagnostics is no longer needed, then.

Change #SCR-481 Remove com.openexchange.hazelcast.group.password setting

The previously used group password when joining a named Hazelcast cluster is no longer used by the underlying Hazelcast library. A differentiation is only performed based on the cluster group name. Therefore, the corresponding configuration property com.openexchange.hazelcast.group.password from file hazelcast.properties is removed, too.

Change #SCR-486 Some security related database connection properties are missing from fileitem.properties configuration file, used to open database read and write connections within the ImageConverter server via JDBC at runtime

Adding additional, security related database connection properties to the DC read property section as well as to the write property section of config file fileitem.properties of bundle c.o.fileitem;Additional database read property entries and defaults:Some security related database connection properties are missing from fileitem.properties configuration file, used to open database read and write connections within the ImageConverter server via JDBC at runtime. Adding additional, security related database connection properties to the DC read property section as well as to the write property section of config file fileitem.properties of bundle c.o.fileitem. Additional database read property entries and defaults:

```
+com.openexchange.fileitem.readProperty.15=requireSSL=false
+com.openexchange.fileitem.readProperty.16=verifyServerCertificate=false
+com.openexchange.fileitem.readProperty.17=enabledTLSProtocols=false
+com.openexchange.fileitem.readProperty.18=clientCertificateKeyStoreUrl=
+com.openexchange.fileitem.readProperty.19=clientCertificateKeyStorePassword=
+com.openexchange.fileitem.readProperty.20=clientCertificateKeyStoreType=
+com.openexchange.fileitem.readProperty.21=trustCertificateKeyStoreUrl=
+com.openexchange.fileitem.readProperty.22=trustCertificateKeyStorePassword=
+com.openexchange.fileitem.readProperty.23=trustCertificateKeyStoreType=
```

Additional database write property entries and defaults:

```
+com.openexchange.fileitem.writeProperty.15=requireSSL=false
+com.openexchange.fileitem.writeProperty.16=verifyServerCertificate=false
+com.openexchange.fileitem.writeProperty.17=enabledTLSProtocols=false
+com.openexchange.fileitem.writeProperty.18=clientCertificateKeyStoreUrl=
+com.openexchange.fileitem.writeProperty.19=clientCertificateKeyStorePassword=
+com.openexchange.fileitem.writeProperty.20=clientCertificateKeyStoreType=
+com.openexchange.fileitem.writeProperty.21=trustCertificateKeyStoreUrl=
+com.openexchange.fileitem.writeProperty.22=trustCertificateKeyStorePassword=
+com.openexchange.fileitem.writeProperty.23=trustCertificateKeyStoreType=
```

Change #SCR-489 Dropped properties 'com.openexchange.sessiond.autologin' and 'com.openexchange.share.autoLogin'

 $\label{login} Properties \ {\tt com.openexchange.sessiond.autologin} \ and \ {\tt com.openexchange.share.autoLogin} \ are \ not \ needed \ anymore \ after \ adjusting \ auto-login} \ handling$

Change #SCR-503 Adding new DocumentConverter server config items to limit number of scheduled jobs to config file documentconverter.properties

Scheduling of DC jobs had no configurable limit up to now, so that it was possible to schedule an arbitrary amount of jobs and finally kill the server with huge amounts of requests. Adding



some appropriate config items and impl. to limit the number of scheduled jobs fixes this issue.

```
### Documentconverter job queue
# The maximum number of jobs that can be queued in order to be processed.
# Any additional job that would exceed this limit will return immediately with an
# appropriate error code set.
# In addition, any further job that still exceeds the 'jobQueueCountLimitLow' value
# will be rejected from that point of time on until the 'jobQueueCountLimitLow' value
# is reached again.
# Set to 0, if no count based removal of scheduled jobs from the queue
# should happen.
# Default value: 300
\verb|com.openexchange.documentconverter.jobQueueCountLimitHigh=300|\\
# The minimum number of queued jobs that need to be reached after the
# 'jobQueueCountLimitHigh' value is hit, before jobs are accepted again for processing.
# Before this lower limit is not reached again, new job requests are immediately
# rejected with an appropriate error code set.
# This value cannot be greater than the 'jobQueueCountLimitHigh' value and will be
# limited internally.
# Default value: 240
com.openexchange.documentconverter.jobQueueCountLimitLow=240
# The time in seconds after which a scheduled job is removed from the
# queue if it has not been processed in the meantime.
# An appropriate error code is returned to the caller of the method,
# that scheduled the job for processing.
# Set to 0 if no time based removal of scheduled jobs from the queue
# should happen.
```

Change #SCR-506 Added several lean configuration options for new data export feature Added following lean configuration options for new data export feature:

```
com.openexchange.gdpr.dataexport.active
com.openexchange.gdpr.dataexport.enabled
com.openexchange.gdpr.dataexport.fileStorageId
com.openexchange.gdpr.dataexport.schedule
com.openexchange.gdpr.dataexport.numberOfConcurrentTasks
com.openexchange.gdpr.dataexport.checkForTasksFrequency
com.openexchange.gdpr.dataexport.checkForAbortedTasksFrequency
com.openexchange.gdpr.dataexport.maxProcessingTimeMillis
com.openexchange.gdpr.dataexport.maxTimeToLive
com.openexchange.gdpr.dataexport.expirationTime
com.openexchange.gdpr.dataexport.defaultMaxFileSize
com.openexchange.gdpr.dataexport.maxFailCountForWorkItem
com.openexchange.gdpr.dataexport.addDiagnosticsReport
```

com.openexchange.documentconverter.jobQueueTimeoutSeconds=300

Change #SCR-521 Configurable user lookup for OpenID Connect Integration

The OpenID Connect core integration is extended to offer a more flexible way to resolve contexts and users based on ID token claims. For that it introduces the following new configuration properties:

```
com.openexchange.oidc.contextLookupClaim
com.openexchange.oidc.contextLookupNamePart
com.openexchange.oidc.userLookupClaim
com.openexchange.oidc.userLookupNamePart
```

Default value: 300



Change #SCR-522 Added new lean configuration options for DNS-based discovery of members

Allowing an additional value "dns" for com.openexchange.hazelcast.network.join property indicating to use DNS-based look-up to detect cluster members and added new lean configuration options for DNS-based discovery of members

Change #SCR-535 Added new lean configuration option for contact collector clean-up

Added new lean configuration option com.openexchange.contactcollector.cleanupUnusedAfter for contact collector clean-up.

Specifies the clean-up threshold time span for unused collected contacts. Collected contacts having a last-modified time stamp longer in the past than the time span given by this threshold are considered for clean-up.

In addition to the clean-up threshold, a collected contact is only rated as unused if it has only the initial fields set and has a use-count value of less than 2.

Clean-up takes place for a certain user whenever the contact collector is triggered for that user; meaning there is no periodic back-ground task.

A value of less than or equal to 0 (zero) disables the clean-up. Default is 0 (disabled).

Change #SCR-544 Changed default for documentconverter-client.properties config item com.openex-change.documentconverter.client.pdfextractor.workDir

Instead of using a default /tmp directory value for config item

com.openexchange.documentconverter.client.pdfextractor.workDir

(config file documentconverter-client.properties from package open-xchange-documentconverter-client), the default value is left empty, so that the configured UPLOAD directory is used as a fallback.

The default value can be overridden by a customer to set a dedicated DC client working directory.

- # The directory, containing the PDF extraction tool working directory
- -# The directory, containing the PDF extraction tool working directory-# Default value: "/tmp"
- $\verb|-com.openexchange.documentconverter.client.pdfextractor.workDir=/tmp|$
- +# The directory, containing the PDF extraction tool working directory.
- +# If no dedicated working directory is specified here, the configured
- +# UPLOAD_DIRECTORY is used as default.
- +# Default value: n/a
- +com.openexchange.documentconverter.client.pdfextractor.workDir =

Change #SCR-546 Remove redundant property com.openexchange.guestHostname

The property com.openexchange.guestHostname which allows to define a hostname for guests using the config cascade through package open-xchange-hostname-config-cascade is redundant, since the same is already done via com.openexchange.share.guestHostname.

Change #SCR-548 Remove obsolete properties from notification.properties

With 7.10.3, an updated engine for outgoing scheduling operations is introduced. Therefore, the following obsolete properties from file notification.properties are no longer evaluated and can therefore be removed:

imipForInternalUsers
notify_participants_on_delete
com.openexchange.calendar.notify.poolenabled

Change #SCR-551 New time_limit property in eas.properties

Defines a time limit in years to filter out future appointments beyond this limit with EAS devices.

Change #SCR-553 Search hunspell version

If the property com.openexchange.spellchecker.hunspell.library is not set, the library will be searched on the system (hunspell package must be installed). If property has been set, that value will be used in any case. If the property com.openexchange.spellchecker.hunspell.dictionaries



is not set, the dictionaries will be searched on the system (hunspell- or myspell {lang} package must be installed). If property has been set, that value will be used in any case.

Change #SCR-561 Added new lean configuration option to specify TLS/SSL protocols for mail filter connections

Added new lean configuration option com.openexchange.mail.filter.tls.protocols to specify the TLS/SSL protocols that are supposed to be used for mail filter connections provided that both - TLS is enabled through option com.openexchange.mail.filter.tls and supported by mail filter service.

Change #SCR-562 Each time when a user adds a file from url to a office document the host will be checked against a white- and blacklist if the selected host can be used

```
# Allows to control the host of an url when a user uploads a file to an office document.
# Because of security risks some hosts are not allowed.
# Default value: 127.0.0.1-127.255.255.255,localhost
# com.openexchange.office.upload.blacklist=127.0.0.1-127.255.255.255,localhost
# Allows to control the host of an url when a user uploads a file to an office document.
# Independent from the blacklist you can enter hosts which are always allowed.
com.openexchange.office.upload.whitelist=
# Default value:
com.openexchange.office.upload.whitelist=
```

Change #SCR-564 Minimizing processing timeouts with high resolution images.

Increasing the configuration default value for ImageConverter processing timeouts from 15s to 20s allows to create more thumbnails for high resolution images. Config item to be changed is in file imageconverter.properties in imageconverter repository:

```
-# Default value: 15000 => (15 seconds)
-com.openexchange.imageconverter.convertTimeoutMillis=15000
+# Default value: 20000 => (20 seconds)
+com.openexchange.imageconverter.convertTimeoutMillis=20000
```

5.2 Changes of Database Schema

Change #SCR-319 Removed publication related tables

With 7.8.0 the old publication mechanism was replaced with the guest mode. Now, with 7.10.3, the leftover in the database are being removed. Therefore the tables

- publications
- · sequence_publications
- publication_users

are dropped with the UpdateTask

com.openexchange.groupware.update.tasks.DropPublicationTablesTask
If data is still persisted in those tables it will be logged before the tables are dropped.

Change #SCR-344 Delete OXMF entries from 'subscriptions' table

With 7.10.2 OXMF aka. publications were removed from the code. With release 7.10.3 all related data is going to be dropped in the database. After the publication tables are removed, leftovers needs to be cleaned up too. Therefore OXMF related data in the table 'subscriptions' will be removed by the UpdateTask com.openexchange.groupware.update.tasks.DeleteOXMFSubscriptionTask

Change #SCR-459 New update task to purge data from legacy calendar storage

With 7.10, a new calendar implementation was introduced along with new database table for the new data model. The "old" database tables were still used in a special replaying mode so that data was available for middleware servers still running on 7.8, e.g. during a rolling upgrade or after a



downgrade.

Now, the data in the legacy storage is removed using the update task com.openexchange.chronos.storage.rdb.migration.ChronosStoragePurgeLegacyDataTask

As a prerequisite, the task

com.openexchange.chronos.storage.rdb.migration.ChronosStorageMigrationTask must have been executed successfully, so that no data is lost.

Further details are available in the documentation at http://documentation.open-xchange.com/7.10.3/middleware/calendar/data_migration.html

Change #SCR-462 Added background update task that modifies subscribed Gmail accounts Added background update task that changes subscribed Gmail accounts in the way to let them use the Google Send API for transporting mails. That update task is started if package open-xchange-oauth is installed or gets installed.

Change #SCR-464 Added an index for column "filestore_id" to ConfigDB's "filestore2user" table

Added an index for column "filestore_id" to ConfigDB's "filestore2user" table.

Change #SCR-485 Update task to remove orphaned entries in calendar_alarm_trigger
When changing the default alarms for subscribed calendars, triggers for the previous default alarms
were not deleted automatically. Therefore, the update task

 $\verb|com.openexchange.chronos.storage.rdb.groupware.Calendar Alarm Trigger Remove Orphaned Task is introduced to clean up or phaned entries once.$

Change #SCR-492 Removed the ip2location, ip_blocks and ip_locations tables from the global database

We introduced some drop table update tasks via the globaldbChangeLog.xml to drop the ip2location, ip_blocks and ip_locations tables from the global database.

Change #SCR-495 Update task to remove events with stale folder references from the database Due to a bug in the folder clear logic that is invoked when a folder with many events is deleted, some entries where not deleted from the database. Those orphaned events with stale references to no longer existing folders cause problems whenever all events of a user are requested, e.g. from the portal widget of the App Suite client. The update task

 $\verb|com.openexchange.chronos.storage.rdb.groupware.CalendarEventRemoveStaleFolderReferencesTask cleans them up. \\$

Change #SCR-511 Added new tables to Global Database for data export feature Added new tables to Global Database to manage data export tasks and their associated ar

Added new tables to Global Database to manage data export tasks and their associated artefacts and result files:

- Added table dataExportTask to manage requested data export tasks
- Added table dataExportTaskWorklist to manage task-associated work items
- Added table dataExportFilestoreLocation to store result files of completed data export tasks
- Added table dataExportReport to store report of running/paused data export tasks

Change #SCR-526 Prolonged subject column of composition space table

Prolonged "subject" column of table "compositionSpace" from VARCHAR(256) to TEXT through ALTER TABLE command. Thus up to 65,535 characters can be stored as subject.

Change #SCR-529 Added column to "compositionSpace" table to store custom headers Added column "customHeaders" to "compositionSpace" table to store custom headers.



Change #SCR-533 New column "mode" for table "driveEventSubscriptions"

The table "driveEventSubscriptions" is extended by an additional column 'mode'.

Change #SCR-537 Update Task to correct organizer information stored in the new calendar event tables

Some bogus data in the previously used prg_dates tables where the stored principal information was inconsistent led to potentially wrong organizer information being stored in the new calendar_event tables. This in turn may cause events being considered by some external party, so that the original user is no longer able to edit them.

The update task

 $\verb|com.openexchange.chronos.storage.rdb.groupware.CalendarEventCorrectOrganizerSentByTask| \\ detects and corrects those entries.$

Change #SCR-547 Use utf8mb4 charset for 'client' column of table 'pns_subscription'

Use utf8mb4 charset for 'client' column of table 'pns_subscription' through an "ALTER TABLE" statement

5.3 Changes of Commandline Tools

Change #SCR-468 Salt for 'generatempasswd' command line tool

The generatempasswd command line tool now makes use of a random salts and stores the salt in the specified mpasswd file.

Change #SCR-491 Removed ip2location and maxmind update CLTs

We have removed the ip2location and maxmind CLTs. The administrator can now use the MaxMinds' geoipupdate tool to install/update the geodatabase. For more information see SCR-490.

Change #SCR-508 Added command-line tools for data export feature

- Added listdataexports CLT to list submitted data export tasks
- Added canceldataexports CLT to request cancellation for submitted data export tasks
- Added dataexportconsistency CLT to list and repair orphaned or non-existent references to file storage entities

Change #SCR-465 Command line tool for managing loggers for socket logging

New Command Line Tool for managing socket logging.

5.4 Changes of Behavior

Change #SCR-467 Enable random salts for passwords

All password hashes are no enriched with a random salt which is stored in the database.

Change #SCR-487 Changed cookie handling for autologin

Added parameter staySignedIn to login requests.

If set to true:

Cookies are persisted depending on configured com.openexchange.cookie.ttl. Session is rotated into long term containers.

If set to false:



Cookies are not persisted and deleted when browser is closed ("session cookies"). Session is not rotated into long term containers.

In both cases the open-xchange-session-<hash> cookie is set along with the login response and the session is stored into the distributed session storage (if enabled).

5.5 Changes of Packaging

Change #SCR-457 Dropped obsolete database REST interface

Dropped obsolete database REST interface by deleting bundle com.openexchange.rest.services.database

Change #SCR-461 Added bundle providing the mail transport implementation using Google Send API

Added bundle com.openexchange.gmail.send providing the mail transport implementation using Google Send API. That bundle has been added to package open-xchange-oauth.

Change #SCR-490 Remove ip2location package

We have decided that we will not use our global database to import the geolocation data from either of the supported providers (MaxMind and IP2Location) simply because the LOAD DATA statement is NOT replication safe but instead use MaxMind's binary format as we did in the past (prior 7.10.2). We have also decided to drop the IP2Location support all together.

Change #SCR-498 Removal of package open-xchange-calendar-printing

The calendar print view generation is moved from the server to the client, hence the previously used package open-xchange-calendar-printing is removed from the middleware. The "calendar-printing" capability can be used to enable or disable the calendar printing functionality via config-cascade, and is enabled by default.

Change #SCR-504 Added new bundle to open-xchange-core package

 $\label{lem:decom} Added\,new\,(interface-only)\,bundle\,com.\,openexchange.\,gdpr.\,dataexport\,to\,open-xchange-core\,package$

Change #SCR-505 Introduced new package open-xchange-gdpr-dataexport

Introduced new package open-xchange-gdpr-dataexport consisting of following bundles:

```
com.openexchange.gdpr.dataexport.impl
com.openexchange.gdpr.dataexport.clt
com.openexchange.gdpr.dataexport.json
com.openexchange.gdpr.dataexport.provider.general
com.openexchange.gdpr.dataexport.provider.calendar
com.openexchange.gdpr.dataexport.provider.contacts
com.openexchange.gdpr.dataexport.provider.infostore
com.openexchange.gdpr.dataexport.provider.mail
com.openexchange.gdpr.dataexport.provider.tasks
```

Change #SCR-520 Support for Resource Owner Password Credentials Grant in OpenID Connect integration

OX Mail, Exchange-ActiveSync, CalDAV/CardDAV or other clients/protocols might only support direct username/password authentication. It is possible to still use OpenID Connect for according authentication requests, by using the Resource Owner Password Credentials Grant (https://tools.ietf.org/html/rfc6749#section-4.3), which is part of the OAuth 2.0 Core Framework. This is an optional feature. If enabled via configuration, this feature registers an according 'AuthenticationService' and therefore the 'open-xchange-oidc' package now provides 'open-xchange-authentication' without any conflicts.

Change #SCR-523 Added new bundle "com.openexchange.hazelcast.dns" to open-xchange-



core package

Added new bundle com.openexchange.hazelcast.dns to open-xchange-core package.

Change #SCR-524 Added new dnsjava bundle to target platform

Added new dnsjava-2.1.9.jar bundle to com.openexchange.bundles.

Change #SCR-534 Turkish as additional translation for App Suite help

Package open-xchange-appsuite-help-tr-tr is now available.

Change #SCR-538 Removed bundle com.openexchange.printing

The bundle com.openexchange.printing is no longer needed since print views are generated client-side. Therefore, it is removed.

Change #SCR-542 New authentication plugin 'open-xchange-authentication-oauth'

A new authentication plugin open-xchange-authentication-oauth has been implemented. The Linux package installs an OSGi bundle that registers an AuthenticationService. The service authenticates users by performing an OAuth 2.0 Resource Owner Password Credentials Grant (see https://tools.ietf.org/html/rfc6749#section-4.3). If OpenID Connect SSO is used, this plugin must not be used. Instead open-xchange-oidc offers the same mechanism as configurable fallback for non-web clients.

Change #SCR-556 Updated nimbus-jose-jwt library

Updated nimbus-jose-jwt library to v4.41.2 (CVE-2019-17195).

Change #SCR-566 Added package to invalidate cluster nodes running v7.10.2 of the Open-Xchange server (Hazelcast v3.11.x) during upgrade

Added package "open-xchange-cluster-upgrade-from-7102" to invalidate cluster nodes running v7.10.2 of the Open-Xchange server (Hazelcast v3.11.x) during upgrade.

That package contains the new bundle com.openexchange.hazelcast.upgrade311

Change #SCR-568 Deprecation of Swift file store

Support for the "Swift" file store is deprecated, and will finally be removed in an upcoming release.

Change #SCR-573 With 7.10.3 the realtime framework has been replaced with the Documents Collaboration Service.

To reflect this the package open-xchange-documents-backend replaces the no longer needed open-xchange-relatime-core and open-xchang-realtime-json. Furthermore all "open-xchange-realtime-*" packages will be replaced with empty transitive packages to remove relicts of the realtime framework. Further information can be found at Installation

6 Changes relevant for Developers

6.1 Changes of external APIs

Change #SCR-418 Login servlet changes, added 'staySignedIn' parameter, dropped 'store' action

New parameter staySignedIn for action=login, default value is false. The action=store is deprecated and dropped.

Change #SCR-474 New action "syncfolder" in module "drive"

The OX Drive synchronization API is extended by an additional method "syncfolder". In contrast to the existing "syncfolders" action, this routine can be used to trigger the synchronization of a single directory only. Further details are available at https://documentation.open-xchange.com/components/middleware/drive/latest/index.html. Along with the new action, the Drive API ver-



sion is bumped to 8.

Change #SCR-475 Extended response for "deleteLink" action in module "drive"

The deleteLink action in the module drive of the HTTP API is extended so that it includes the (possibly) updated checksum of the targeted file or folder.

Change #SCR-494 Added support for "language" paramter for /share/redeem/token request The servlet at /appsuite/api/share/redeem/token that can be used by clients to get further details of the share status when being redirected to the login page is enhanced by the parameter language to control the translation of locale-sensitive messages that are passed to the client. Further details are available at the API documentation.

Change #SCR-497 Removal of calendar printing servlet

The calendar print view generation is moved from the server to the client, hence the previously used servlet is removed from the middleware, and consequently the "printCalendar" endpoint will no longer be available. The "calendar-printing" capability can be used to enable or disable the calendar printing functionality via config-cascade, and is enabled by default.SCR-507;Added new HTTP-API end-point for data export feature. Please find detailed description at https://documentation.open-xchange.com/components/middleware/http/latest/index.html#!/DataExport.

Change #SCR-513 New parameter "sequence" for "resolve" action in module "chronos"

The "resolve" action in the module "chronos" is extended by an additional optional parameter named "sequence" to specify the expected sequence number to match. If set, a resolved event is only returned if the stored sequence number is equal to this value.

This will be useful when a notification mail for an appointment is rendered, and the client tries to resolve the underlying event from the server. Appropriate actions to interact with the event should then only be provided if the appointment details as shown in the notification mail are not outdated in the meantime.

Change #SCR-518 New parameter "scheduling" for modifying actions in module "chronos" All modifying actions in the module "chronos" are extended by an optional parameter to control the generation of scheduling messages and notification mails. Inspired by https://datatracker.ietf.org/doc/draft-ietf-calext-caldav-scheduling-controls/, the possible values are:

- all
- none
- internal-only
- external-only

The formerly available parameter "sendInternalNotifications" is not sufficient, especially when performing bulk-operations during import, and therefore should be considered as deprecated. For now, "sendInternalNotifications=true" will be mapped to "scheduling=all", "sendInternalNotifications=false" will be mapped to "scheduling=external-only".

Change #SCR-525 Added new action to "mailfilter/v2" end-point

Added new "apply" action to "mailfilter/v2" end-point to either apply an existent mail filter script or a specified mail filter script to the E-Mails contained in a given mail folder. If no mail folder is given, "INBOX" is assumed.

Change #SCR-529 Added custom headers to message model of the mail compose API Added custom headers to message model of the mail compose API.

More precisely when rendering the JSON representation of the message that is passed to server, that JSON representation may contain a field called "customHeaders", which accepts a JSON object interpreted as dictionary of string key-value-pairs representing the custom headers.



Change #SCR-530 Added 'pathToRoot' parameter to Drive API responses

The OX Drive synchronization protocol uses a certain root folder as entry point for the synchronization, and treats all subdirectories as relative to this root folder. Added parameter pathToRoot to responses for

- settings
- syncFiles
- syncFolder
- syncFolders

requests, containing the path to internal 'real' root folder from given root folder

Change #SCR-532 New parameter "mode" for "subscribe" and "listen" actions in module "drive"

The actions "mode" and "subscribe" in the Drive API are extended by an additional parameter to specify the desired mode for generated push notifications. If set to "separate", explicit SYNC actions for those directory versions where changes occurred will be returned if possible. If the parameter is not supplied or set to "default", or if distinct push notifications are not possible, a generic overall SYNC action will be sent in the notification.

Further details are or will be available soon at https://documentation.open-xchange.com/components/middleware/drive/latest/index.html.

Change #SCR-552 Deprecated UWA Widgets

Since OX6 is no longer supported with version 7.10+, it does not make sense to support and maintain API that is only used for OX6. Therefore deprecated UWA Widgets and the corresponding API. Following static API path is now deprecated: /ajax/uwaWidgets

Change #SCR-559 Add Cache-Control header by default

Add Cache-Controll in general to all download actions.

6.2 Changes of internal APIs

Change #SCR-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

Change #SCR-453 Upgraded Apache Commons Net

Upgraded Apache Commons Net from v3.2.0 to v3.6.0

Change #SCR-454 Upgraded Apache Commons IO

Upgraded Apache Commons IO from v2.2.0 to v2.6.0

Change #SCR-455 Added a new method to the TargetProxy interface to get the title based on a given locale

Added new method String getLocalizedTitle(Translator translator); to the TargetProxy interface.

Change #SCR-456 Upgraded Google Core Libraries

Upgraded Google Core Libraries from v27.0 to v27.1



Change #SCR-460 Updated Google Client API JARs

Updated Google Client API JARs as well as several service-specific client JARs API Client

- google-api-client-1.28.0.jar
- google-api-client-appengine-1.28.0.jar
- · google-api-client-gson-1.28.0.jar
- google-api-client-jackson2-1.28.0.jar
- google-api-client-java6-1.28.0.jar
- google-api-client-protobuf-1.28.0.jar
- google-api-client-servlet-1.28.0.jar
- google-api-client-xml-1.28.0.jar

HTTP Client

- · google-http-client-1.29.1.jar
- google-http-client-appengine-1.29.1.jar
- google-http-client-gson-1.29.1.jar
- google-http-client-jackson-1.29.1.jar
- google-http-client-jackson2-1.29.1.jar
- · google-http-client-jdo-1.28.0.jar
- google-http-client-protobuf-1.29.1.jar
- google-http-client-xml-1.29.1.jar

OAuth Client

- google-oauth-client-1.28.0.jar
- google-oauth-client-appengine-1.28.0.jar
- google-oauth-client-java6-1.28.0.jar

Service-specific

- google-api-services-calendar-v3-rev377-1.25.0.jar
- google-api-services-drive-v3-rev162-1.25.0.jar
- google-api-services-oauth2-v2-rev150-1.25.0.jar
- google-api-services-gmail-v1-rev103-1.25.0.jar

Change #SCR-488 Added session member field 'staySignedIn'

Cookie lifetime depends on session's member field 'staySignedIn'.

Configured com.openexchange.cookie.ttl if session.staySignedIn was true.

No lifetime if session.staySignedIn was false ("session cookie").

For custom authentication implementations, this parameter can be set using com.openexchange.authentication.SessionEnhancement.

Change #SCR-493 Remove methods from QuotaFileStorageService interface

The QuotaFileStorage cache is removed, hence the service routines to explicitly invalidate cached entries are no longer needed. In particular, the following methods are removed from the QuotaFileStorageService interface:



- void invalidateCacheFor(int contextId)
- void invalidateCacheFor(int userId, int contextId)

Caching is now performed on another layer, and quota-related things are always retrieved dynamically from their corresponding definition (User/Context).

Change #SCR-509 Added new RMI interface for data export feature

Added new RMI interface com.openexchange.gdpr.dataexport.rmi.DataExportRMIService for data export feature. That RMI interface allows to list & request cancelation for data export tasks as well as retrieving/repairing orphaned file storage entities and pointers to non-existing file storage entities.

Change #SCR-510 Added method getUri() to com.openexchange.filestore.FileStorage interface

Added method getUri() to com.openexchange.filestore.FileStorage interface to obtain the URI that fully qualifies this file storage; e.g. "s3://mybucket/123_ctx_store"

Change #SCR-514 Upgraded Jackson libraries

Upgraded Jackson libraries from v2.9.8 to latest stable version v2.9.9

Change #SCR-515 Upgraded MySQL Connector/J

Upgraded MySQL Connector/J from v5.1.47 to v5.1.48

Change #SCR-516 Upgraded Spring Framework

Upgraded Spring Framework from v5.1.1 to v5.1.9

Change #SCR-517 Added method isStaySignedIn() to com.openexchange.session.Session

Added method is Stay Signed In() to com. open exchange. session. Session interface, which signals whether session is annotated with "stay signed in" flag or not.

Change #SCR-519 Modified interfaces "com.openexchange.sessiond.SessiondService" and "com.openexchange.sessionstorage.SessionStorageService"

Modified interface com.openexchange.sessiond.SessiondService by:

Removed method setLocalIp(String sessionId, String localIp)
Removed method setClient(String sessionId, String client)
Removed method setHash(String sessionId, String hash)
Removed method setUserAgent(String sessionId, String userAgent)
Added method setSessionAttributes(String sessionId, SessionAttributes attrs)

Modified interface com.openexchange.sessionstorage.SessionStorageService

Removed method setLocalIp(String sessionId, String localIp)
Removed method setClient(String sessionId, String client)
Removed method setHash(String sessionId, String hash)
Added method setSessionAttributes(String sessionId, SessionAttributes attrs)

Change #SCR-527 Updated Hazelcast IMDG and Hazelcast Enterprise

Updated both - Hazelcast IMDG and Hazelcast Enterprise - from v3.12 to v3.12.2

Change #SCR-536 Upgraded "emailaddress-rfc2822" library

Upgraded "emailaddress-rfc2822" library from v1.1.0 to v2.1.3

Change #SCR-543 OSGi service to manage OAuth tokens in sessions

A new OSGi service com.openexchange.session.oauth.SessionOAuthTokenService has been introduced, that offers common tooling to manage OAuth 2.0 tokens within App Suite sessions (the ones used for accessing e.g. the primary mail account; not for external account tokens). The service offers methods to check and refresh access tokens and to get/(un-)set OAuth parame-



ters from/on session instances atomically.

Change #SCR-545 The Reseller Admin Implementation should be extended to allow to hook in to create, change and delete operations

The Reseller Admin Implementation should be extended to allow to hook in to create, change and delete operations. Due to that reason it will be extended by a plugin mechanism to hook in using additional admin bundles.

As an additional consequence, the ResellerAdmin class gets another field called parentName which is and can only be used by such a plugin. It has no further use using the RMI or SOAP API creating, changing or removing subadmins.

Change #SCR-560 New context admin plugin mechanisms to allow to hook in to various database related lookups

New context admin plugin mechanisms to allow to hook in to various database related lookups.

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

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56042, 56038, 59445, 63699, 64383, 64815, 64958, 64979, 65175, 65279, 65304, 65318, 65349, 65366, 65372, 65389, 65408, 65410, 65515, 65533, 65537, 65552, 65581, 65614, 65640, 65647, 65659, 65682, 65688, 65742, 65776, 65812, 65815, 65821, 65899, 65928, 65935, 65941, 65943, 65953, 66007, 66064, 66088, 66130, 66133, 66139, 66162, 66169, 66184, 66238, 66241, 66258, 66261, 66294, 66297, 66306, 66307, 66315, 66354, 66388, 66393, 66396, 66412, 66451, 66457, 66483, 66526, 66550, 66552, 66553, 66556, 66558, 66595, 66685, 66712, 66714, 66718, 66721, 66762, 66768, 66771, 66786, 66919, 66922, 66928, 66933, 66936, 66988, 67006, 67017, 67021, 67027, 67042, 67047, 67058, 67067, 67073, 67245, 67286, 67325, 67329, 67349, 67355, 67359, 67365, 67397, 67418, 67422, 67542, 67641, 67646, 67650, 67674, 67682, 67701, 67718, 67757, 67883, 67982, 67991, 67994, 68079, 68091, 68097, 68139, 68145, 68181, 68219, 68243, 68253, 68261, 68304, 68306, 68309, 68310, 68346, 65132, 65584, 65722, 65799, 65805, 66025, 66081, 66094, 66538, 66594, 67097, 67871, 67874, 67981, 67980, 67983, 68136, 68252, 68258,
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