



Release Notes for Release 7.8.4

2017-05-23

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1 General Information

OX App Suite 7.8.4

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:

- The ability to collect and export User Feedback with Star-Ratings and Comments
- Improved 3rd Party Account Wizards and Settings
- Client Onboarding Wizard on Mobile Devices
- Support for IMAP flags (\Flagged) in addition to, or as a replacement for, Color Flags
- The ability to trigger OX Presentation from OX Mail
- Improved Mail Filter Support with more Conditions and Actions
- An alternative to IMAP master authentication based on OAuth 2.0
- An OX Drive Image/Photo Slideshow
- A new Email Unread Folder
- Custom Default Fonts for emails
- Improved Sharing Dialog in OX Drive
- And more...

OX Documents v7.8.4

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:

- Support for Encrypted Documents - Improved workflows for creating secure documents
- Work with Shapes - Insert and edit all shapes from OX Presentation in OX Text and OX Spreadsheet
- OX Text: Table of Content Support
- OX Spreadsheet: New Formula Toolbar
- OX Presentation: Support for OpenOffice / LibreOffice

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 <http://www.open-xchange.com/portfolio/whats-new/>.

General information

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, technical documentation is available at <https://documentation.open-xchange.com/>.

Important - Please Note

- There is a major Hazelcast library update to OX App Suite v7.8.4. This means that when updating from an earlier backend version, due to the upgraded library, it is not possible to form a cluster of nodes that run previous version of Hazelcast (i.e. exiting volatile data in the cluster will be lost during the update). A consistent Hazelcast cluster is needed for cluster-wide cache invalidation. To circumvent problems with database update tasks that need to perform cache invalidation, please follow the steps described here: http://oxpedia.org/wiki/index.php?title=AppSuite:Running_a_cluster#Upgrades_of_the_Hazelcast_library. Please also note that session migration is not possible between versions. This usually affects all user sessions that are stored in a distributed map, and will require the users to re-login after the update. Running incompatible versions of Hazelcast within a cluster will result in log entries showing the conflicting node and version information.
- During the upgrade to 7.8.4 the existing JAVA_XTRAOPTS configuration property of the middleware stack in the file `ox-scriptconf.sh` will automatically be split up and migrated to a new categories approach. Please review the JVM command line options here: http://oxpedia.org/wiki/index.php?title=AppSuite:MiddlewareStartup#Evaluate_JVM_commandline_options and review the automatically upgraded configuration file.
- In accordance with the supported platform policy, Open-Xchange will discontinue maintenance and support for Connector for Microsoft Outlook, Open-Xchange Updater with the next major release (planned beginning of 2018). Existing customers with Connector for Microsoft Outlook in their portfolio, will receive full maintenance and support until beginning 2018. To support the discontinuation, we are happy to announce that Open-Xchange will provide releases of all native Apps including OX Mail App, OX Drive App, eM client for OX App Suite and OX Sync App over the coming months. This has the advantage of providing a similar user experience on all devices, to all clients, and allows us to take a holistic approach to the development of our product portfolio.
- Please note: to ensure a stable and up to date environment, starting with OX App Suite v7.8.4, Open-Xchange will support Suse Linux Enterprise Server 12 together with OpenJDK 7 instead of IBM Java 7. For details of all supported platforms and databases please refer to the requirements page at: http://oxpedia.org/wiki/index.php?title=AppSuite:OX_System_Requirements#Server_Platforms.
- As started with OX App Suite v7.8.3 Open-Xchange deprecates its Munin monitoring scripts that are based on parsing the output of command-line tools like `showruntimestats`. In the past, two versions of every monitoring script have been maintained, one based on such output and the other based on direct HTTP communication with the OX middleware. From OX App Suite v7.8.4, only the HTTP-based versions will be available, using Jolokia (<https://jolokia.org/>) under the hood. Details regarding Jolokia-based monitoring can be found here: http://oxpedia.org/wiki/index.php?title=OX_munin_scripts and <http://oxpedia.org/wiki/index.php?title=Jolokia>.
- In the past, if a user had set the "Sort by" filter to "Unread" and then opened an email, that email would then seem to disappear from the list (as it would be automatically set to read as soon as it was opened). With some users, this can sometimes cause confusion. To improve usability and reduce confusion the read status is no longer automatically set when using the "Sort by - Unread" filter. Instead when using the "Sort by - Unread" filter the user now must explicitly mark the email as read by clicking on the envelope icon in the mail detail view.

2 Shipped Product and Version

Open-Xchange AppSuite middleware 7.8.4-rev3
Open-Xchange AppSuite frontend 7.8.4-rev3
Open-Xchange USM 7.8.4-rev3
Open-Xchange EAS 7.8.4-rev3
Open-Xchange Updater 7.8.4-rev3 (6.18.33)
Open-Xchange Drive restricted 7.8.4-rev3
Open-Xchange Documents 7.8.4-rev3
Open-Xchange Documents Frontend 7.8.4-rev3
Open-Xchange Readerengine 7.8.4-rev3 (5.2.3)
Open-Xchange Documentconverter 7.8.4-rev3
Open-Xchange Documentconverter API 7.8.4-rev3
Open-Xchange Oxtender for Microsoft Outlook 7.2.25
Open-Xchange Notifer 1.0.6

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 7.8.3. Solutions for vulnerabilities have been provided for the existing code-base via Patch Releases.

53077 CVE-2017-8340

CVSS: 3.1 (CVSS:3.0/AV:N/AC:H/PR:L/UI:N/S:U/C:L/I:N/A:N)

53073 CVE-2017-8340

CVSS: 3.1 (CVSS:3.0/AV:N/AC:H/PR:L/UI:N/S:U/C:L/I:N/A:N)

52843 CVE-2017-8340

CVSS: 3.1 (CVSS:3.0/AV:N/AC:H/PR:L/UI:N/S:U/C:N/I:L/A:N)

52255 CVE-2017-6912

CVSS: 4.3 (CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N)

52066 CVE-2017-8341

CVSS: 3.1 (CVSS:3.0/AV:N/AC:H/PR:N/UI:R/S:U/C:N/I:L/A:N)

52040 CVE-2017-6913

CVSS: 5.3 (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N)

51863 Script code execution for text comments

Replacing single quotes in fast load string of OX Text. CVE-2017-6913.

51667 Task folder names exposed in error cases

Adjusting error messages to avoid exposing folder names when triggering errors based on folder IDs. CVE-2016-10078.

51622 PIM attachment permissions are not evaluated on saveAs

Fixed folder/object permission plausibility checks when using certain API calls to move data internally. CVE-2017-6912, credits to lordache Cosmin.

51480 XSS filter bypass using HTML comments

Improved detection for corrupt HTML with regards to HTML comments. CVE-2017-5864, credits to

Zoczus.

51474 @import style references are not sanitized from HTML mail

Allow only valid CSS elements at HTML mail and removing external references. CVE-2017-5864, credits to Secator.

51464 Bypass for "safe file" detection using multipart mimetypes

Disallow to manually specify a file's MIME type when uploading such content. CVE-2017-5864, credits to Secator.

51407 Stored XSS for custom calendar timezones

We're handling timezone information more carefully now since it's potentially user-provided data. CVE-2017-5864, credits to R00trus.

51219 XSS filter bypass using multiple levels of open tags

Hard error in case HTML cannot be parsed to its individual segments/tags. Content which cannot be parsed and sanitized will no longer be delivered to the client. This might affect broken/malformed legitimate mails but also attempts to bypass HTML filters. CVE-2017-5864, credits to ZeeShan.

51202 XSS filter bypass using HTML comments

Hard error in case HTML cannot be parsed to its individual segments/tags. Content which cannot be parsed and sanitized will no longer be delivered to the client. This might affect broken/malformed legitimate mails but also attempts to bypass HTML filters. CVE-2017-5864, credits to Zoczus.

51164 External image protection bypass via CSS

Disallow 'list-style-image' style element which can be used to include external content and track users. CVE-2017-5210, credits to lordache Cosmin.

51069 Missing permission checks for snippets

Check if snippet/signature is either shared or owned by the user that attempts to delete/modify it. Deny operation if condition is not satisfied and return with an error. CVE-2017-5863, credits to lordache Cosmin.

51058 Folder names exposed via ical import

Sanitized error message by dropping folder name from user-visible error message and replaced name by numeric identifier for the technical log message. CVE-2016-10078, credits to lordache Cosmin.

51039 XSS at RSS feed content

RSS "text/xhtml" content is now being pre-processed by sanitizer. CVE-2017-5864, credits to lordache Cosmin.

51038 Missing permission check when deleting reminders

Added an additional layer for reminders between JSON and SQL which performs permission checks. CVE-2017-5863, credits to lordache Cosmin.

50943 XSS at E-Mail

We're now handling global event handlers (onerror, onabort, etc.) as unsafe and remove them during sanitizing. CVE-2016-10077, credits to Zoczus.

50940 HTML "map" element can be used for tabnabbing

Added area elements to "noopener" mechanism. CVE-2017-5211, credits to Zoczus.

50893 Reflected content for /api/account

Removed user input at the response of the Accounts API which could be used for content spoofing. CVE-2017-5211, credits to Ahmed Abdalla.

50849 Self-XSS at mail signature editor

We added client-side sanitizers at the mail signature editor to avoid self-XSS in addition to server-side filters that remove malicious code at persistent data. CVE-2017-5213.

50764 Autofill on "form" areas can be used to steal credentials

We removed "form" and "input" elements from the HTML sanitizing white-list. Note that this will remove such kind of content in legitimate mails. CVE-2017-5210, credits to Zoczus.

50760 Tabnabbing using "form" tags

We now prevent form submit, open a new window manually, nulling window.opener, redirect the form to the new window and then manually submit the form. In addition we removed "form" and "input" elements from the HTML sanitizing white-list. Note that this will remove such kind of content in legitimate mails. CVE-2017-5211, credits to Zoczus.

50748 SVG can be used to set cookies

Perform sanitizing on SVG files to remove meta tags that can be used to set/overwrite cookies. CVE-2017-5213, credits to Abiral Shrestha.

50739 Permissions for task attachments not correctly evaluated

Check if underlying task is accessible in the parent folder when accessing attachments. CVE-2017-5212, credits to lordache Cosmin.

50737 XSS with Snippets

We're now considering Javascript content from personal "snippets" as potentially harmful and reject "inline" use. CVE-2017-5213, credits to Secator.

50734 XSS via "isindex" tags

Proper handling of combined characters during HTML sanitizing. CVE-2016-10077, credits to Zoczus.

50733 Task folder names leaked to arbitrary users

Removed the task folder name at error responses when calling a folder by its ID. CVE-2016-10078, credits to lordache Cosmin.

50723 XSS at mail body

Proper handling of combined characters during HTML sanitizing. CVE-2016-10077, credits to Zoczus.

50721 Reflected content for /api/apps/load

Removed user input at the response of the Apps API which could be used for content spoofing. CVE-2017-5211, credits to Ahmed Abdalla.

50715 Uploaded images are available to all users

Adding user-based permission checks in addition to UUIDs to avoid access to foreign images at OX Documents. CVE-2016-10078, credits to Secator.

50382 XSS filter bypass at mail

Added greedy/repetitive detection of possibly malformed HTML-tags to avoid follow-up issues with HTML sanitizing. CVE-2016-10077, credits to ZeeShan.

4 Bugs fixed with this Release

This section provides a summary of bug fixes and changes that have been applied subsequently to shipping Release 7.8.3. Some of the announced bug fixes may have already been fixed at the existing code-base via Patch Releases.

40632 Collected addresses does not work for users from the same context

In cases where multiple users are provisioned to the same context with the Global Address Book

disabled, automatic contact collection of addresses that are present at the Global Address Book has not been performed. We changed the behavior to consider cases where the Global Address Book exists but cannot be accessed.

47229 Mail folder menu contains "Sharing" and "Permissions"

Capabilities of mail folders were incorrectly checked in case the mail system did not support permissions. As a result the context menu contained permission related actions which were not working as expected. We added a explicit check for environment where permission handling of own mailbox folders is disabled.

47616 Interval setting in calendar not used

When setting a interval for calendar time scales, that interval was applied for time pickers and drag-lasso. Now this interval is also used for the calendar views time scale.

48361 Login not possible if folder limit is reached

Adjusted login- and error-handling to solve this issue.

Special error code "MSG-0113" in case creation of default/standard folders fails with an "over quota" error was added. This Error will be displayed after login to the end-user.

49083 E-Mail-Folder Action 'delete all messages' ignores OVERQUOTA

Copy command was able to run into over-quota.

This has been fixed by using move operation for clear folder command in case move operation is supported by IMAP server.

49236 Huge amount of Mail folder could not be found on mail server messages for non-existing folders

The message for "Mail folder could not be found on mail server" were known, actually by design, but not expected to happen that often.

The fix just excludes the inbox from the obfuscation, to reduce the amount of error messages.

49731 Missing event data when deleting an appointment after accepting it

The Appointment object at the deleteDateFromNotificationQueue event was missing some typically unused data in cases where a participant deletes the appointment after accepting it. To allow compatibility with certain calendaring implementations, we now add a full Appointment object to the queue in such cases.

49781 Email list: email address displayed instead of display name when DISPLAYFROM is enabled

Now show display name if DISPLAYFROM is set.

49864 Full-day appointment will be displayed as a regular 24h appointment on Android

Specific clients rely on a certain order of the EAS protocol elements. <AllDayEvent> shall be sent after <StartTime> ,<EndTime> . Microsoft Exchange Server for example does this.

Sending <AllDayEvent> after <StartTime> ,<EndTime> .

49979 Guest users don't get deleted

Guest user deletion triggers push listener removal for guests even if they might not have any push listener registered.

Solution: Consider webmail permission before removing push listeners within the user deletion process.

49989 Onboarding Wizard Connect Device Tile does not fit into frame

Max-width were applied on whole container.

This has solved by applying max-width for description only.

50016 When composing an email, the signatures do not get refreshed, when adding initial/new one

This has been fixed by using standard listener.

50039 Problem with folder rename of external storage providers

Dropbox identifies the folder through the path. New Files create all folders in their path by default. This is a special Dropbox behavior.

This has been solved by checking for folder existence before storing a file and return default "folder does not exist exception".

50040 Content pane not refreshed

After deleting a folder in a external storage account the view was not updated. With this fix the view is updated after deleting a folder.

50041 Moving files with description to external storage not working

Missing translations were added.

50043 Possible to add version info to external storage files

Was caused by missing capability check for version comments.

This has been fixed by adding capability check for version comments.

50093 Date or size where not shown as column headers for mail attachment view

When sorting mail attachments by Size or Date, the corresponding column header was not show, this is now the case.

50135 Help not context sensitive in settings

The app did not contain any information about contextual help.

This has been solved by showing context sensitive help in settings. External apps can also register their help pages on the extension point 'io.ox/settings/help/mapping' in the function list.

50176 Dragging an email from desktop to mail-category tab is not working

No Handling for Drag & Drop in mail-categories.

Added the missing Handling, first the mail is imported to the inbox and then moved to the category.

50213 Edit draft loads endlessly

Recognizing HTML input was not working correctly in all cases.

Now wrapping content with `<div> ...</div>` in those cases to solve this issue.

50230 Connection losses to Logstash go unnoticed

In case connection to a Logstash server gets interrupted, log messages will be lost. We introduced a buffer for such messages that gets filled in case the connection is temporarily unavailable.

50232 Renaming a folder which is present in Favorites removes it from Favorites

The folder ID changes, therefore the folder was lost on page reload.

This has been fixed by listening to ID changes and update and store favorites.

50244 Task title truncated / does not use all available space

Media queries were not flexible enough.

This has been solved by using flex layout to use available space better (private and due time appear in this row too if set).

50258 Categories - select all in one of the tabs - info message that no all mails all selected is missing

Added new message for "select all" in tabbed inbox, some translation will be provided with the next patch.

50303 No error message regarding "No such snippet found for identifier:" when filestore not available on login

This was caused by a missing hint that a file associated with a snippet/signature is (temporary) not available.

Restored logging in case the file associated with a snippet/signature is (temporary) not available:

"Missing file for snippet 1 for user X in context ctx.ID. Maybe file storage is (temporary) not available."

50307 Incorrect translation for maximum upload size

When uploading several files which combined size exceed the maximum upload size, the related error message was related to the last file which got added. However, in such cases the error is related to the combined file size, therefore the wording has been adjusted.

50328 Incorrect cursor placement for plain-text signatures

When using default plain-text signatures and navigating with the TAB key, the cursor would be set at the end of the signature. This has been solved in a way that the cursor will be set to the beginning of the message.

50342 Calendar colors get lost on printouts

No custom label colors applied to template.
This has been solved by passing colorLabel identifier to html output.

50381 Further E-Mail fields not shown in case primary mail is missing

If multiple E-Mail addresses are stored for a contact but not "E-Mail 1" and neither Company nor Position are available a blank second line at the contacts list was displayed. This has been adjusted to fall back to "E-Mail 2" and "E-Mail 3" in case "E-Mail 1" is unavailable.

50407 Missing hints for incorrect server startup

In case syntax errors are present at YAML-style configuration files, the middleware did start up partly but apparently was not logging this situation clear enough for some operators. We improved error messages that are thrown once this happens to make it more clear.

50412 Edit incorrect email address in to or cc generates duplicate entries and phantom entries

Collection and token field state gets messed up cause models 'token' attribute get updated within the 'tokenfield:createtoken' handler.
This has been fixed by redrawing Tokens only when the display name has changed.

50414 Birthdays in the portal widget/side-popup are sometimes a day off

Birthday calculation was slightly different in both views and apart from that even not correct for all cases.
This has been solved by using the same code for both views and also using a correct approach.

50461 HTTPClientActivator never calls Services#setServiceRegistry

Services class was not initialized.
This has been solved by properly initialize the Services class.

50478 Impossible to add two or more different Gmail accounts

Initial assumption to re-use OAuth credentials was wrong.
Now OAuth credentials are not re-use when adding mail accounts.

50518 Email module - Burger Menu - Create filter rule is not responding

Due to the deactivation of the "address" mailfilter the default values were not available.
This has been fixed by introducing a fall-back to the former "header" filter if "address" is not available.

50519 Not possible to find group in calendar permissions dialog

Groups were not drawn due to a limit.
Now applying limit by result type so groups are drawn.

50527 MySQL databases refuses connection because of Too Many connections from single groupware servers

Incrementing use-count for a lot of contacts associated with a certain E-Mail address causes too

many INSERT statements to be issued, that do flood the MySQL service.

This has been solved by accumulating use-count incrementation through a batch statement and limit the number of updated contacts that are associated with the same address. That limit is configurable through property "com.openexchange.contactcollector.searchLimit" and defaults to "5".

50570 Not possible to change name in email settings if global configuration is used

MailConfig values were overwritten with wrong values.

This has been fixed by preventing overwriting in specific situations.

50574 Expiry dates for shares cannot be changed directly

When sharing a object with expiry date, that expiry date was set to "one month" when editing the share afterwards. We solved that by no longer applying the default value when editing a share.

50598 Missing warnings for account failures at unified mail

In case a external mail account cannot be used (e.g. because the password changed), there has not been a notification to the user in order to resolve the situation. This has been changed to provide warning messages when trying to accessing a unavailable account.

50621 OX crashed - one node/JVM permanently on GC/100% CPU - after creating an heap dump error looked different but OX still does not react

Really weird HTML content inside a mail containing over 700 nested <body> start tag segments renders the routine running mad that tries to replace <body> tags with <div> tags for embedded display inside App Suite UI.

This has been fixed by avoiding excessive replacements of <body> tags inside such a really weird HTML content.

50627 Mail content not displayed

Malformed conditional comment (CC) causes to greedy detection of such a CC pattern in HTML content during sanitizing.

This has been fixed by dealing with malformed conditional comments.

50674 Deleting 2 Users at a time via SOAP results in a database deadlock

Possible database deadlock on concurrent delete attempts for users in the same context.

Solution: Acquire a lock on user deletion to enforce queuing of concurrent delete calls.

50689 Possible to lock files in external storages when not supported

The 'locks' capability was not correct for some external storages.

Changed behavior: The file lock feature is disabled for every external storage. Lock does only work in the internal ox fileStore now.

50691 Shared links to external storage accounts don't work

It was possible to share folders of an external storage account as link to other internal users. Since those accounts are per-account, that link would not work though. Therefor we removed the option to send a link to such folders to other internal users.

50693 Content pane folder name not refreshed when renamed on external storage

Error handling is now done inside the apps. If errors with external storages (or other folder errors) appear and that folder is currently selected, the App will change to the default folder and reload the parent folder.

50706 OX APP Creates too many IMAP connections and not closing them

Unnecessary global lock that leads to stacking up threads.

This has been solved by removing unnecessary global lock from

'com.openexchange.jslob.storage.db.DBJSlobStorage' class for improved throughput.

50714 Oxtender synchronization fails with Couldn't determine extra fields in object with errors

The ical analysis of an external invitation delivers an JSON object "users" without sub fields, espe-

cially without confirmation. This was unexpected by USM and produced an error, which led to a general sync error with OLOX.

Now the missing confirmation is accepted and initialized by USM with 0.

50738 Not possible to import multiple mappings with CSV file

"Addmapping" value was not split by comma when supplying multiple login mappings via csv file at create context.

Now split multiple login mappings by comma during context creation from CSV file to solve this issue.

50798 Renaming a root level folder which contains a Favorite Folder will lead to "Mailfolder not found on IMAP Server"

Missing checks if parent folders get renamed or removed.

This has been solved by looking for rename or removal of parent folders. On rename: anticipate changed path and keep folder. On remove: immediately remove affected favorites. This doesn't work if triggered by another client.

50804 Attached vCards could not be removed again

When adding own contact information to a Mail as vCard, that virtual attachment could not be removed afterwards. This was caused by an API change which is now reflected to mail compose.

50835 Report doesn't terminate if contexts are broken

In case of a context that never existed on the system, a lookup for all contexts in the same schema lead to endless attempts to get those contexts.

This has been fixed by adding the initial context to context list, if the database returns no values for the given context id. Add potential errors to output report.

50837 Birthday on 1.1.1970 not displayed

Timestamp for 1.1.1970 were interpreted as timestamp 0. Adjusted calculation from Birth Dates to solve this issue.

50868 Missing translation for external accounts

The "My accounts" page at "Settings" did contain untranslated strings for external account names, this got solved by making use of existing translation strings.

50918 Timezone issues with task start/due dates on negative timezone offsets

When defining a start or due date for tasks while using a negative UTC offset, the selected date would be reported incorrectly. This has been solved by adjusting the full-day handling for tasks to the calendar implementation which uses UTC.

50939 Missing context menu for conversation thread view

When using conversation (thread) view, the context menu was not added for each individual mail but for the whole thread and the first mail. This makes it hard to handle individual mails and got solved.

50964 Enable Notification sounds - Play sound on incoming mail not working

Settings pane for message sound was displayed when no websocket support was available. This has been solved by adding missing capability check.

50965 Restore compose application pop up not loading with 7.8.3 upgrade

Introduced new value for ox.serverConfig.persistence: "always". Only works with adjustment in custom bundles.

50982 External Cloud Storage: number of Items in folder not displayed - '0' all the time

Some file storage implementations are not returning a file count.

With this fix the file count is not displayed if the external storage returns no value for file count.

50987 AutoStart is not working with io.ox/settings or portal

Settings is not a favorite App and is therefore ignored as autolaunch.

This has been solved by adding a special case for settings. Settings will not appear in the dropdown but can be set by the provider as default autoStart App.

50991 Exception generating IMAP URI

A possible scheme/port information in "com.openexchange.mail.mailServer" or "com.openexchange.mail.transportServer" property was not properly handled.

This has been solved by using a structured object for the global mail/transport server configuration setting to also apply protocol, port, etc. (if specified).

50997 Searching inside of sent mail folder always shows senders name in results column

This has been solved by adding special handling in find App.

51017 Munin error updating last-error in ox_grizzly_TCPNIOTransport

Last error value was not a simple signed integer.

Check for "N/A", will return 0 instead of "N/A" with this fix and will only fix the problem for ox_grizzly_TCPNIOTransport.

51018 Munin warning updating config ox.java_heap

Non-existing mbean raised an error.

This has been fixed by removing mbean.

51053 Appointment invitations get duplicated by adding attachments

Deactivated Notification pool combined with multiple uploads of attachments result in a single notification mail for each attachment.

Solution: Keep track of a batch of attachment uploads during the whole stack.

51074 Encoding issues with passwords

In case certain operating systems got configured incorrectly, specifically RHEL6 and SLES11, usage of the open-xchange-passwordchange-script plugin could lead to incorrectly encoded passwords passed over to a script. This has been solved by adding an optional parameter as described by Change #4022 to allow base64 encoded transfer. Additionally, unexpected encoding configurations will get logged to open-xchange-console.log to alert operators about potential follow-up issues.

51075 Missing translation for upload progress bar

When uploading files as Mail attachment or Drive object, the corresponding progress bar offered a "Cancel" button that was not translated.

51091 Upload to external filestorage account folder does not abort if overquota and fails

Missing error handling for overquota in multiple file upload.

This has been solved by checking error FLS-0024 and stop queue if this error appears. Also check for rate limit error. If one of those errors appear, the upload queue stops and removes all files from the queue.

51101 showruntimestats -a errors: No such cache: OXIMAPConCache

OXIMAPConCache is an obsolete JCS cache. The StatisticTools was querying the JCSCacheInformation for that particular non existing cache. The same applies for MailConnectionCache and SessionCache.

This has been solved by removing the obsolete calls and corrected the error message.

51207 Error message shown if "default app" setting is empty

In cases where a users configuration was damaged and the default App "none" has been selected, subsequent logins led to error messages. We're now falling back to the global default App if the provided App cannot be found.

51222 Big text file load endless with the UI

The client request didn't get a response.

With these changes the Viewer displays an error message if the file is too big to be loaded.

51263 Missing function returned in case requested files could not be found

A earlier fix changed the response content when requesting a frontend related file. Instead of a function and a error message, just a error message was returned. As a result the web frontend could get stuck in case a file was not found. This has been solved by providing a similar response than earlier, just with obfuscated payload.

51313 Errors when adding invitations to calendar while tasks are disabled

There has been a dependency between the calendar and tasks App with regards to handling iCal files, which led to a situation that appointments could not be imported if tasks are disabled. This dependency has been relaxed to allow cases where either App is disabled.

51356 Missing support for custom login sources for onboarding

When using the "onboarding wizard" while having a custom login implementation running, some configuration templates could not be properly created since access to the correct credentials (e.g. mail address, login name) is not possible. This has been solved by offering the ability to integrate custom login sources.

51357 No participants can be added in Scheduling with IE11 after an update

IE has problems with flexbox styles.
This has been fixed by changing styles to fix the problem.

51368 Bursts of WARN Messages: filemanagement.internal.ManagedFileManagementImpl..Temporary file could not be deleted about 800-1000/day

Delete attempt does not check whether file is non-existing.
This has been fixed by properly checking if attempt is made to delete a non-existing file changed logging appropriately.

51399 Repeated mail sending when using Outlook

In case a backend error did occur, like downtime of the mail storage, there could be situations where Outlook clients using USM get into a sending-loop, resulting to duplicated E-Mail. Those kind of errors are now handled by the USM API in accordance to the OX App Suite middleware error code.

51462 Full-day appointments could not be converted with Lightning

When using Thunderbird/Lightning and CalDAV of OX App Suite, full-day appointments could not be converted back to normal appointments using the CalDAV client. The reason for this was a client-specific CalDAV header used to indicate full-day appointments which caused issues with Lightning. We removed this header if the associated user-agent does not expect it.

51468 Failing to parse pre-auth from configuration

Inappropriate invocation of 'MailConfig.doCustomParsing()' lets Zimbra MAL connector fail to perform its own parsing of access information.
Solution: Do call 'MailConfig.doCustomParsing()' regardless of passed parameters.

51548 Moving files which already exist result in duplicate files with Google Drive

There was no name check performed for the move operations.
This has been fixed by adding the name check to the move operation.

51569 Primary mail address and aliases cannot be changed at the same time if the old primary mail address should be an alias

During the createuser command an alias for the primary mail account is already added. This alias is equal to the upper case notation used in the create command. The change command now tries to add the same alias but with only lower case letters. This isn't recognized and therefore the middleware tries to insert this alias to the db again which results in the duplicate entry error.
Solution: Do a case independent check when comparing the old with the new aliases.

51570 Only one warning for copy multiple files with description in drive

Multiple response was not fully processed.
This has been fixed by processing full array.

51572 Moving files with and without description not working in drive

App Suite UI just redid the same operation.
Solution: App Suite UI checks which files caused conflicts and only tries to redo those.

51594 Drive opens wrong files directly after upload - wrong link in UI

indexing mismatch between the DOM nodes representing the file items and the model entries holding the file data.
This has been solved by fixing the sort method.

51602 Incorrect encoding when using IMAP "plain" authentication

In case mailbox login names allow multi-byte Unicode characters, the login process would fail when using OX App Suite. This has been solved by applying the correct charset when performing the login procedure for mailboxes.

51610 Desktop notifications are not shown for negative timezone offsets

When configuring a negative timezone offset (e.g. UTC-5), desktop notifications would not be shown since the timestamp of newly received mails was checked against UTC rather than the users timezone.

51755 Long-running script warnings when sending mail to huge recipient list

When composing a mail to a list of several hundreds of recipients, browser warnings about unresponsive scripts occurred when trying to parse and tokenize the recipient list. The handling has been improved by 2-3x to allow a larger number of recipients.

51772 Unable to modify users own data

In cases where the contact associated to the user account was created by the "oxadmin" account rather than the user itself, the user was unable to change its own contact data. Such situations may arise in specific provisioning implementations. Changing the contacts data is now possible again by correcting the mechanism to look up the oxadmin account as potential creator for the own contact.

51839 Certain serious (non UCE/UBE) HTML mail is not displayed

Too greedy check for possibly malicious content led to this issue.
This has been solved by allowing properly parsed start tag.

51859 Changed API behavior leads to issues with file uploads

An earlier bugfix introduced a significant change to HTTP API behavior, any change to the MIME-Type parameter has been rejected as a result. While OX clients were unaffected, this led to an incompatibility with third-party clients when using the "infostore" API for uploading and modifying files. We reduced the scope of the change to block MIME-Types that start with "multipart" instead, this should not affect the vast majority of use-cases for this API.

51910 Huge amount of threads stops OX

Did some improvements to avoid a crashing OX. Utilize a user-scoped lock mechanism to avoid having a global lock that might affect unrelated threads unnecessarily. Avoid duplicate remote session look-up.

51918 Calendar conflicts with UTC+12 timezones

During conflict detection, the floating time-span of full-day appointments was calculated using the servers timezone (usually UTC) while other appointments used the timezone configured by the user. In cases where a large offset to UTC is present, there has been a 50/50 chance that appointments would conflict with full-day appointments at the previous or next day. We're now calculating both values using the users specific timezone for conflict handling. This should bring down the probability of incorrect conflicts considerably.

51960 Incorrect font for mail attachment on mobile

When using OX App Suite UI on a smartphone, the "Attachments" link within mail compose has been shown with incorrect font and color. This got fixed by applying proper mobile styles to this link.

51967 Missing distribution lists in Outlook

When syncing Outlook using USM, certain amounts and combinations of contacts and distribution lists could lead to a situation where only a subset of contacts but not all distribution lists got synced. This has been solved by sorting the type of object (contact, distribution list) prior to performing the sync operation. This way the kind of objects retrieved at the client side stays consistent in case the total amount of objects exceeds the chunk size for one sync operation.

52013 Enhancements to IMAP host detection and logging

To allow better debugging and monitoring of interaction between OX App Suite and IMAP backends, a new parameter was added to parse the IMAP backends "greeting" and provide it as part of the OX App Suite log. This behavior is configurable and described within release notes. When rolling out this Patch Release.

52022 Incorrect App launched from external accounts page

When using the hyperlink for a external storage account at the Settings-> Accounts page, no or the wrong App is launched. This has been corrected and a fallback to Drive was added.

52067 Enter a text in the Search bar. Click on the close option but still the pop up with the text is not closed

Now clear and close dropdown on cancel to solve this issue.

52095 Missing private appointments in shared folders via CalDAV

When sharing calendar folders and accessing them via CalDAV, appointments marked as "private" were not correctly synced. The same use-case works fine when using the HTTP API. This got fixed for CalDAV by considering this kind of appointment when creating responses.

52100 Permission checks avoid changing corrupt users signatures

In case a users signature contains a faulty "createdby" header on file-level, subsequent changes to that signature were rejected based on a permission evaluation. In order to accept inconsistent data within in the system, the permission check has been removed.

52101 'Folder "9" is not visible to user "X" in context "YY"

Caused by the changes for favorite folders, where favorite folders for every module were added to the collection pool. The favorite folder for drive has the parent with id "9". When the UI is refreshed, all parents of all folders are listed. That causes every refresh to request the folder with id "9". This has been fixed by only adding favorite folders for modules with granted permission.

52104 Untraceable database timeouts during share cleanup

Once the `PeriodicCleaner` task for shares was executed, potential SQL errors could not be traced since the related schema name was unknown. To allow further debugging we added `com.openexchange.database.schema` as parameter for this cleanup run. It will highlight which database schema triggered timeouts or other errors.

52107 Inconsistency in naming order for external accounts

When changing the account name syntax of an external mail account, this change is not reflected to mail lists when reading mail sent and received by the same user. This got fixed by honoring a naming scheme which uses commas to separate last and firstname.

52114 Empty page printed by browser in thread view

Single mails are printed correctly when using native browser printing (CTRL+p) but mail threads were not printed. This got fixed by handling mail threads in a more compatible way and allowing native functions to get their relevant content.

52119 Technical messages if HTML mail exceeds limits

If a HTML mail exceeds pre-defined limits, a rather harsh message is displayed at the frontend. This got polished in order to show a user friendly representation.

52123 Unable to change mail account name with certain mail configurations

If a user was changing its mail account displayname while the middleware uses a "global" `mailServerSource` setting, incorrect host names were applied. As a result the displayname could not be changed. We solved this by applying the appropriate host name to avoid erroneous responses during the operation.

52151 Drop zone for .eml not disappearing if a file is not dropped with firefox on Windows

Firefox does not trigger `dragleave` or `mouseout` correctly.

This has been fixed by using `mouseenter` to remove the dropzone when the mouse enter the window without dragged files.

52156 IMAP folder names shown different after update

Due to external account refactoring in 7.8.3, the "default0" prefix for "standard" IMAP folders was shown at the frontend. This got fixed by stripping that prefix in places where users would expect just the folder name.

52157 IMAP master-auth user name provided to client

In case of specific IMAP errors related to `EXPUNGE` commands, a detailed error message was returned to the user, which could contain a user-name for IMAP master authentication. This was solved by removing detailed error message contents for that IMAP command.

52161 Missing mails on mobile devices when using mail categories

When using mail categories with a desktop browser and moving mails to specific categories, those mails would not be displayed at Inbox anymore when using the same account using a mobile browser. We solved this by avoiding categorization Inbox if the corresponding feature set is not available on the currently used platforms.

52238 Typo at NRFILES property at startscript

A typo at the `/opt/open-xchange/sbin/open-xchange` script led to a situation where custom configured "nofiles" limits were not correctly applied to the process. This has been solved by correcting the properties name and adding a log message to `open-xchange-console.log` in case the process fails to set this limit.

52277 Wrong log level for concurrent updates to last-login

In case two threads update a users "last login" information, a log message of level "ERROR" was logged. Since this is rather a temporary issue and can't be solved in retrospect we lowered its log level. Further optimizations made it less likely that this kind of issue would happen at all.

52280 Read timeout log entries when using folders that were already closed

Several log messages referred to a situation where access to a IMAP folder is attempted which got closed already. We added optimizations to lower the probability of such cases and handle them correctly instead of throwing an error.

52314 Unicode decoding fails for multi-line mail subjects

In case a E-Mail subject spans multiple lines where each consists of UTF-8 mail-safe base64 encoded characters, decoding partly failed and Unicode characters were displayed in a scrambled way. This has been solved by properly handling such split subjects and encoding each part independently.

52391 Empty Page in UI settings section after update

JS error in yell function and only a empty settings page were displayed. Made yell function more robust, so Settings do not break anymore.

52433 Incomplete parsing of "mailto" handler at mails

In cases where a regular HTTP/HTTPS resource contains the substring "mailto" like

"www.mailtool.invalid", that link was incorrectly detected as mailto: handler and mail compose got opened rather than the URL. This got solved by just looking for mailto: at the beginning of a URL.

52470 Incorrect detection of users USM capabilities

In certain cases a users capabilities to use USM and related sync implementations got incorrectly detected. We solved that by sticking to the advertised module access permissions instead of dynamically resolving it.

52478 Duplicate registration of ObfuscatorService

Even though ObfuscatorService is implemented as a singleton, it got registered multiple times which led to error messages. Those did not affect functionality but led to higher log traffic than necessary. The problem got fixed by making sure ObfuscatorService gets registered just once.

52530 POP3 access to external account is not logged by AuditLog

The tracked instance of AuditLogService was not orderly put into utilized service registry. This has been fixed by properly putting tracked service into service registry.

52534 Disableschema: SessionDService is used but not registered in the activator

Required SessionD service was not orderly tracked. This has been solved by properly tracking needed SessionD service.

52606 Show hidden files setting does not work at all

Hidden files were not displayed because filter extensions for files were never called. Invoked filter extension point to post process file list to solve this issue.

52607 Inconsistent naming of recurring appointment dialogs

When changing or editing a recurring appointment, different dialogs with different naming were displayed. This got unified and changed to shorter naming in favor of small screen devices.

52633 Drag & drop of a huge picture into a HTML-Mail will cause the JVM to OOM/ up until OS swapped

Configured image limitations were not tested when checking for validity of an uploaded image. This has been solved by testing for image limitations when checking for validity of an uploaded image.

52675 HTML mail not displayed at all

Some mails were not displayed because <style> tag does not get closed while sanitizing mail's HTML content. This has been fixed by orderly closing the <style> tag while sanitizing HTML content.

52712 Twitter stream not shown after configuration

Missing event in Keychain API led to this issue. This has been fixed by adding an additional event, so portal plugins update correctly.

52727 UI/Browser blocked / stalled when dealing with huge amounts of appointments

To many operations in DOM-tree if having much appointments. This has been fixed by disabling some functionality for a large Number of appointments.

52729 Missing reload when clearing Trash manually

When removing all mails within the Trash folder manually (select all, delete) instead of using the explicit function, the folder list was not reloaded. This got fixed by triggering a reload in such cases.

52730 Misleading indication that IMAP folder is shared

In case IMAP ACLs just for "see folder" are granted, the "this folder is shared" indicator was displayed. While technically correct this is misleading to users since no content is actually shared. The handling has been changed to avoid displaying the indicator for this kind of ACL.

52751 Creating external accounts does not work anymore

Wrong detection if a mail account action was targeted for primary mail account.
Reliably check specified account identifier to determine primary account to solve this problem.

52756 Twitter can not be configured anymore

Case-sensitive look-up for an OAuth API: "Twitter" is not equal to "twitter"; Case-sensitive look-up for an OAuth API: "Twitter" is not equal to "twitter".
Perform ignore-case look-up by OAuth API identifier to solve this issue.

52764 Document conversion triggered without capability

Even though a users did not have the "document.preview" capability assigned, calls to the Documentconverter API were made. This got solved by considering the users capability before executing such requests, for example when generating thumbnail previews for mail attachments.

52797 Autoconfiguration fails for hotmail/yahoo/live domains

Thunderbird's ISPDB for auto-configuration changed.
Changed default value for property "com.openexchange.mail.autoconfig.ispdb" in file 'autoconfig.properties' from "https://live.mozillamessaging.com/autoconfig/v1.1/" to "https://autoconfig.thunderbird.net/v1.1/".

52798 Missing appointments in Outlook

In special cases, a list of deleted change exceptions for recurring appointments was provided by Outlook to USM, which led to an exception and subsequently incomplete sync. This got fixed by considering this case.

52928 Attachment not shown

In email with attachments which have different cid and id it was not possible to show all attachments.
Make sure attachments do not have a cid attribute when added to a collection to solve this issue.

52959 Layout issue with sharing on mobile

When sharing a link on smartphone devices, the dialog was displayed in a way that the input field for recipients of the link was not shown. This has been solved by allowing to scroll that section into the viewport on small screens.

53008 HTML content is invalid and cannot be displayed

Weird start tag segments in real-world HTML messes-up HTML parser refusing to process the content any further.
Solution: Better deal with malformed start tags in real-world HTML content.

53023 Message with truncated subject

Subsequent base64-encoded strings are not combinable if individual values end with padding '=' character.
This has been fixed by not combine padded base64-encoded values, but decode them separately.

53087 Second Google calendar subscription does not show calendar contents

The actual OAuth account associated with a subscription has not been considered, but always the default Google OAuth account was referenced.
Solution: Consider the actual OAuth account that is associated with a subscription. Info: Popup Blocker may not be active.

53095 Unable to use oAuth accounts after permission downgrade

If a scope for a oAuth account got defined (e.g. to access a external calendar) and the corresponding OX account got downgraded to lose access to calendar, accessing the oAuth account was not possible anymore. This got improved by handling unexpected absence of scope and corresponding Apps.

53100 Mail is not being displayed, blocking other from being displayed in INBOX

This was due to missing recovery for an unsupported character-encoding.
This has been solved by handling possible unsupported character-encoding.

53127 DAV Links for Tasks (and maybe for others too) are displayed although they are not accessible at all

Missing check if task folder is private.
Added missing check to solve this issue.

53139 Google oAuth subscriptions were not assigned

In some cases the assignment of a Google oAuth account did break, usually when adding multiple accounts. In such cases the reference was made to the default Google account rather than the account associated to a subscription. This got fixed and the correct account is referenced now.

53158 Missing documentation for oAuth scope configuration

Configuration description about oAuth and related scopes got added at <https://documentation.open-xchange.com>.

53216 Slow rendering when composing mails to many recipients

In case of more than 50 recipients for a mail, the mail compose dialog became a bit unresponsive. This was caused by unnecessary requests to contact images and got solved by allowing to asynchronously load such images as well as reducing the amount of requests.

53249 Unable to remove POP3 accounts

In special cases where the corresponding IMAP folder of a POP3 account got manually deleted, there were issues removing the associated POP3 account. Other issues were related to the attempt of deleting the same account multiple times. Those got fixed.

53267 Folder inconsistencies when changing a users password

Parts of the folder representation is cached and in cases where the users password got changed without terminating its session this cache was outdated and led to problems with standard folders like "Sent". This got solved by looking up those folders via mail accounts API rather than using a cache.

53282**53368 UI does not load but also not redirect to unsupported.html for MSIE 9.0**

Latest code changes make IE9 unusable.
Now sending MSIE 9 users to the unsupported HTML file.

53434 Database timeouts when executing "logincounter" CLT

The "logincounter" CLT did use excessive and unoptimized queries when generating statistics. In combination with millions of data sets this could lead to database timeouts and subsequently unusable output. We enhanced that function to use chunk-wise querying and processing of such kind of data.

53451 Errors when importing specific CSV

Some CSV data did trigger errors during import, caused by incorrect mappings for "Marital status" and "Employee ID" and the attempt to import read-only values like "Object ID". This got solved by adjusting the mapping and skip list.

53456 Unable to parse certain broken mails

Mails with broken Content-Type headers at their MIME part could not always be rendered. We added some workarounds in order to attempt parsing and displaying such mails.

53457 Unread counter not updating correctly

When moving a mail to the "Trash" folder, in some cases the unread counter was incorrectly up-

dated. This has been solved by making such "move" operations more robust for the counter.

53674 Broken filenames for certain Japanese file attachments

The "name" and "filename" attributes of Content-Type were incorrectly parsed, which led to broken attachment file names when using certain encodings. This got solved.

51700 Guided tours showing for users even though the package was not installed

Document tours are contained in documents-ui package, existence of standard tours package was not checked there. This has been solved by adding check for existence of standard tours package, do not show tours automatically if missing, hide settings menu entry.

50951 In a 'Drive with Documents' environment drive offers to send by mail

OXGuard extends "send as mail" ext.point, but the capabilities are NOT extended – now with manual check for capabilities.

50947 OX Documents Portals don't work for users without default folders

The implementation now checks the default template folder and use the user's default folder as a fallback.

51388 If email is disabled, OX Docs tour should not show "Send as email" icon

Guided tour for OX Text does not display info about mail, if mail is not available

50404 If Sharing is disabled, the sharing button is still available in OX Documents

linked caps and implemented "hide disabled elements" feature

51727 Mail icon stills appears in UI even though mail is not enabled

Caused by missing capability check for disabling and hiding. This has been fixed by adding the missing check.

50495 Adjust "hover" color in OX Text and OX Spreadsheet.

Use the actual hover fade value as defined in current UI theme.

49099 sporadic crashes in UNO bridge when loading CSV files via UNO with format string given via FilterOptions string property

setting field delimiter and text separators in RE SC code instead via UNO on DC server side

52231 open-xchange-documentconverter-jolokia needs open-xchange-documentconverter-client package to be installed

Changed required packages from open-xchange-documentconverter to open-xchange-documentconverter-server in spec file

52435 running processes/instances after the open-xchange-documentconverter-server stop script on RHEL6

init script problems according to title / shutdown of ReaderEngine instances not reliable during DC server bundle shutdown, fixed init scripts, cleanup after migration for 7.8.2 / catching spurious exception during RE instance kill in Java bundle shut.

5 Changes relevant for Operators

5.1 Changes of Configuration Files

Change #3784 Mobile API Facade needs to be excluded from IP check

Added open-xchange-mobile-api-facade to the set of default values for the com.openexchange.IPCheckWhitelist property.

Change #3808 Added new lean config option to specify spam handler name

Added new lean config option com.openexchange.spamhandler.name that specifies the name of the

spam handler to use for the primary mail account. The special name `NoSpamHandler` explicitly sets no spam handler. If such a setting is not specified, the spam handler as configured through the mail bundle is used (as it was before); e.g. `com.openexchange.imap.spamHandler` in file `imap.properties`. That option is reloadable as well as config-cascade aware.

Change #3811 Added new lean config option `personalize no-reply share mails`

Added new lean config option `com.openexchange.share.notification.usePersonalEmailAddress` that specifies whether the user's personal E-Mail address (`true`) or the configured no-reply address (`false`) is supposed to be used in case a user without mail permission sends out a sharing invitation. Reloadable as well as config-cascade aware.

Change #3827 Removed Grizzly ping options

Caring about adequate timeouts for established connection from proxying load-balancer to the Grizzly Web Container should rather occur in load-balancer's configuration. For a sample for Apache's balancers connection settings see http://oxpedia.org/wiki/index.php?title=AppSuite:Grizzly#Apache_configuration. The following options got removed in consequence:

- `com.openexchange.http.grizzly.ping`
- `com.openexchange.http.grizzly.pingDelay`
- `com.openexchange.http.grizzly.maxPingCount`

Change #3828 Added option to specify the interval in seconds when to check for expired/invalid HTTP sessions

Added option `com.openexchange.http.grizzly.sessionExpiryCheckInterval` (Default: 60) to `grizzly.properties` file that specifies the interval in seconds when to check for expired/invalid HTTP sessions. This value should be aligned to property `com.openexchange.servlet.maxInactiveInterval` that defines how long (in seconds) a HTTP session may stay idle/inactive until considered as invalid.

Change #3835 Added `com.openexchange.folderstorage.defaultPermissions` to lean configuration

Specifies default permission to use in case folder is supposed to be created below a certain parent folder. The value is a pipe (|) separated listing of expressions; each expression defines the default permissions for a denoted parent folder. Currently the reserved folder identifiers 2 and "15" are considered as 2 denoted the public PIM folder whereas 15 denotes the public Drive folder.

An expression starts with the parent folder identifier followed by = character; e.g. 2=. Then there is a comma-separated list of permissions to assume per entity (user or group).

Each permission either starts with `user_`, `admin.user_`, `group_` or `admin.group_` followed by the numeric entity identifier. The prefix `admin_` controls whether the entity is supposed to be set as folder administrator.

Then an @ character is supposed to occur and finally followed by rights expression. More formally:

- `expressions = expression ("|" expression)*`
- `expression = folder "=" permission ("," permission)*`
- `permission = ("admin-")? ("group-" | "user-") entity(int) "@" rights`
- `rights = (folder-permission(int) "." read-permission(int) "." write-permission(int) "." delete-permission(int)) | ("viewer" | "writer" | "author")`

For Example:

- `2=group_2@2.4.0.0, admin_user_5@8.4.4.4|15=admin_group_2@8.8.8.8`
- `2=group_2@viewer, admin_user_5@author|15=admin_group_2@writer`

Change #3843 Support for additional XAUTH2 and OAUTHBEARER SASL mechanisms

Changed name and meaning for config option that selects SASL mechanism for SIEVE. Option `com.openexchange.mail.filter.preferGSSAPI` is renamed to `com.openexchange.mail.filter.preferredSaslMech` (Default: PLAIN) and no more signals a boolean flag whether to use GSSAPI or not, but now specifies the name of the concrete SASL authentication mechanism to use when connecting to SIEVE end-point. By default that option is empty. Known values: GSSAPI, XAUTH2 and OAUTHBEARER.

Change #3846 Configuration for the Cassandra Service

New properties have been added to support Cassandra as storage backend:

- `com.openexchange.nosql.cassandra.clusterName` (Default: OX)
- `com.openexchange.nosql.cassandra.clusterContactPoints` (Default: 127.0.0.1)
- `com.openexchange.nosql.cassandra.port` (Default: 9042)
- `com.openexchange.nosql.cassandra.loadBalancingPolicy` (Default: RoundRobin)
- `com.openexchange.nosql.cassandra.retryPolicy` (Default: defaultRetryPolicy)
- `com.openexchange.nosql.cassandra.logRetryPolicy` (Default: false)
- `com.openexchange.nosql.cassandra.enableQueryLogger` (Default: false)
- `com.openexchange.nosql.cassandra.queryLatencyThreshold` (Default: 5000)
- `com.openexchange.nosql.cassandra.poolingHeartbeat` (Default: 30)
- `com.openexchange.nosql.cassandra.minimumLocalConnectionsPerNode` (Default: 4)
- `com.openexchange.nosql.cassandra.maximumLocalConnectionsPerNode` (Default: 10)
- `com.openexchange.nosql.cassandra.minimumRemoteConnectionsPerNode` (Default: 2)
- `com.openexchange.nosql.cassandra.maximumRemoteConnectionsPerNode` (Default: 4)
- `com.openexchange.nosql.cassandra.idleConnectionTrashTimeout` (Default: 120)
- `com.openexchange.nosql.cassandra.maximumRequestsPerLocalConnection` (Default: 1024)
- `com.openexchange.nosql.cassandra.maximumRequestsPerRemoteConnection` (Default: 256)
- `com.openexchange.nosql.cassandra.acquistionQueueMaxSize` (Default: 256)

Change #3859 Changed NRFILES variable in ox-scriptconf.sh to a new default of 65536

The previous default value of 8192 is quite outdated for modern world applications.

Change #3862 Dropped <form> and <input> tags from white-list

Dropped (or commented out) the lines from `whitelist.properties` file starting with `html.tag.form` and `html.tag.input` since such tags can be used to exploit sensitive user data through HTML E-Mail or attachments.

Change #3882 Configurable number of max. user processes for open-xchange service

Depending on the distro the maximum number of user processes might be determined at boot by the kernel and applied to PID1 from what all other processes inherit or it might be severely restricted globally via `limits.conf` like it's the case with CentOS 6 which tries to prevent accidental fork bombs. So we introduced a new property `NPROC` at `ox-scriptconf.sh` that defaults to 65536 for SystemV based distros and `LimitNPROC` which defaults to 65536 at the default `open-xchange.service` for systemd based distros. This default can be overridden via our existing drop-in config at `/etc/systemd/system/open-xchange.service.d/limits.conf`.

Change #3903 Custom per-host handling of autologin features

Each tenant can have a custom set of properties stored inside the `as-config.yml` file. This set is extended by the `com.openexchange.sessiond.autologin` property, which enables the autologin capability for the user on login and has impact on the features provided by the UI. By adding this property for a host inside the `as-config.yml` the admin can override the default setting of the server for all users of a given host. If the property is not provided for the host inside the custom configuration, the default setting is applied.

Change #3904 Added new properties to configure the flagging mode

Added new lean configuration options to configure the "flagging" mode for mail.

- `com.openexchange.mail.flagging.mode` (Default: `colorOnly`)
- `com.openexchange.mail.flagging.color` (Default: `1`)

Change #3907 Added new lean config option to enable or disable SAML SessionIndex auto-login

Added new lean config option `com.openexchange.saml.enableSessionIndexAutoLogin` that specifies whether SAML-specific auto-login is enabled, that uses the SessionIndex of the AuthnResponse.

Change #3914 Increased the image conversion thresholds

The previous thresholds were not suitable for current generation cameras and smartphones anymore. Now using

- `com.openexchange.tools.images.transformations.maxSize` (Default: `10485760`)
- `com.openexchange.tools.images.transformations.maxResolution` (Default: `26824090`)

Change #3934 Disallow `list-style-image` style element

Disallow the HTML `list-style-image` style element at file `whitelist.properties` by commenting `html.style.list-style-image`. This element allows exposing private information at HTML E-Mail and attachments.

Change #3942 New options to control broken mail accounts

Added lean config option `com.openexchange.mailaccount.failedAuth.limit` (Default: `5`) which specifies the max. number of failed authentication attempts until the associated mail account is disabled. Added lean config option `com.openexchange.mailaccount.failedAuth.span` (Default: `30m`) which specifies the time span in which the failed authentication attempts are tracked. The value accepts known time span syntax like `1W` or `5m`.

Change #3946 Added new lean config option `com.openexchange.spamhandler.enabled`

Added new lean config option `com.openexchange.spamhandler.enabled` that allows to enable/disable the configured spam handler on a user/contextset/server level. If no configuration is available the previously configured user setting mail permission bit will be taken into account. If there is a configuration for `com.openexchange.spamhandler.enabled` available these will be used for the defined scope. Caution: if the property has once been set via ConfigCascade only these source will be used. You can change it for instance on a user base as described here: <http://oxpedia.org/wiki/index.php?title=ConfigCascade>. This option is reloadable.

Change #3954 Changed order of offered scenarios for client on-boarding

Changed order of offered scenarios for client on-boarding in file `client-onboarding.properties`:

- `com.openexchange.client.onboarding.apple.mac.scenarios=driveappinstall, mailsync, davsnc`
- `com.openexchange.client.onboarding.apple.ipad.scenarios=mailappinstall, driveappinstall, eassync, mailsync, davsnc`

- `com.openexchange.client.onboarding.apple.iphone.scenarios=mailappinstall, driveappinstall, eassync, mailsync, davsync`
- `com.openexchange.client.onboarding.android.tablet.scenarios=mailappinstall, driveappinstall, mailmanual, syncappinstall`
- `com.openexchange.client.onboarding.android.phone.scenarios=mailappinstall, driveappinstall, mailmanual, syncappinstall`
- `com.openexchange.client.onboarding.windows.desktop.scenarios=drivewindowsclient install, emclientinstall, mailmanual, oxupdaterinstall`

Change #3987 Refactored mail filter property names

All mail filter properties were made config-cascadable, meaning that different values for the properties can be set for different contexts/users. At the same time their name has been updated to match our conventions:

- `SIEVE_LOGIN_TYPE` -> `com.openexchange.mail.filter.loginType`
- `SIEVE_CREDSRC` -> `com.openexchange.mail.filter.credentialSource`
- `SIEVE_SERVER` -> `com.openexchange.mail.filter.server`
- `SIEVE_PORT` -> `com.openexchange.mail.filter.port`
- `SCRIPT_NAME` -> `com.openexchange.mail.filter.scriptName`
- `SIEVE_AUTH_ENC` -> `com.openexchange.mail.filter.authenticationEncoding`
- `NON_RFC_COMPLIANT_TLS_REGEX` -> `com.openexchange.mail.filter.nonRFCCompliantTLSRegex`
- `TLS` -> `com.openexchange.mail.filter.tls`
- `VACATION_DOMAINS` -> `com.openexchange.mail.filter.vacationDomains`

Change #3972 New property `com.openexchange.folderstorage.inheritParentPermissions`
Introduced new property `com.openexchange.folderstorage.inheritParentPermissions` (Default: false). Set to true to apply parent folder's permissions when moving a folder into the public folder tree.

Change #4026 Added possibility to specify the X-Robots-Tag HTTP response header

Added two lean configuration options that control whether in with what value the X-Robots-Tag HTTP response header is replayed to the client.

- `com.openexchange.servlet.useRobotsMetaTag` (Default: true)
- `com.openexchange.servlet.robotsMetaTag` (Default: none)

See https://developers.google.com/webmasters/control-crawl-index/docs/robots_meta_tag for more information.

Change #4028 Added new lean config options to specify a User-Agent black-list for share access

Added new lean config options to protect share links from crawler bots.

- `com.openexchange.share.userAgentBlacklist.enabled` (Default: true)
- `com.openexchange.share.userAgentBlacklist.values` (Default: `*aolbuild*, *baidu*, *bingbot*, *bingpreview*, *msnbot*, *duckduckgo*, *adsbot-google*, *googlebot*, *mediapartners-google*, *teoma*, *slurp*, *yandex*`)

Change #4051 New property to enable feedback collection and set the used mode

To enable all feedback features of OX App Suite, a new capability feedback is provided on user login. To switch this feature on and off, a new property is introduced. Also the mode that should be used can be set with a new provided property.

- `com.openexchange.userfeedback.enabled`
- `com.openexchange.userfeedback.mode`

Change #4052 New SMTP server configuration for sending userfeedback

When userfeedback is send, a custom server has to be configured for those purposes. The administrator has also the option to adjust the sender name and address of the send mails with two additional properties.

- `com.openexchange.userfeedback.mail.senderName`
- `com.openexchange.userfeedback.mail.senderAddress`
- `com.openexchange.userfeedback.smtp.hostname`
- `com.openexchange.userfeedback.smtp.port` (Default: 587)
- `com.openexchange.userfeedback.smtp.timeout` (Default: 50000)
- `com.openexchange.userfeedback.smtp.connectionTimeout` (Default: 10000)
- `com.openexchange.userfeedback.smtp.username`
- `com.openexchange.userfeedback.smtp.password`
- `com.openexchange.userfeedback.pgp.signKeyFile`
- `com.openexchange.userfeedback.pgp.signKeyPassword`

Change #4059 Removed obsolete property for mail accounts

Removed obsolete property `com.openexchange.mail.enforceSecureConnection` from `mail.properties`.

Change #4098 Removed unused property from mail.properties file

Removed unused property `com.openexchange.mail.attachmentDisplaySizeLimit` from `mail.properties` file.

Change #4123 Added option to specify LinkedIn redirect URI

Added option `com.openexchange.oauth.linkedin.redirectUrl` to `linkedinauth.properties` file to specify LinkedIn redirect URI.

Change #3963 Added lean config options for malicious folders

Added option `com.openexchange.mail.maliciousFolders.enabled` (Default: true), which specifies whether support for malicious folders is enabled. That option is config-cascade aware and reloadable.

Added option `com.openexchange.mail.maliciousFolders.listing` (Default: `$Spam, $Confirmed-spam`), which specifies a comma-separated listing of folder identifiers that are supposed to be considered as "malicious". An entry in the CSV list is either a full path of a folder in the primary mail account (e.g. `INBOX/Malware`) or a reserved identifier for a standard folder and its sub-folders in every mail account (`$Spam`, `$Drafts`, `$Sent`, `$Trash`, `$Confirmed-spam`, `$Confirmed-ham`). That option is config-cascade aware and reloadable.

Change #4096 Transfer JAVA_XTRAOPTS into multiple config categories/properties

VM settings were previously provided at a file named `ox-scriptconf.sh` which gets evaluated when

OX App Suite starts up. This includes a number of JVM settings that are provided as a long string (JAVA_XTRAOPTS). This JAVA_XTRAOPTS parameter contains quite important settings with default values that are related to system stability. The way its was formatted however was suboptimal and its content should be formatted in a way that is better readable and configurable. Therefor we're migrating the single parameter to multiple parameters which are named according to their category of function. For example JAVA_OPTS_GC, JAVA_OPTS_LOG and JAVA_OPTS_MEM. Furthermore we'll add a useful JAVA_OPTS_DEBUG configuration parameter that comes preconfigured but unused. During the upgrade existing JAVA_XTRAOPTS will be split up and migrated to the new categories approach. A backup of the file `ox-scriptconf.sh.timestamp` will be created and operators are urged to check for proper migration before deleting the backup file like it's already done with `*.dPKG-dist` or `*.rpmnew` files.

Change #4094 Changed default value for ISPDB

Mozillas ISPDB for auto-configuration changed, so we adapted the default value for property `com.openexchange.mail.autoconfig.ispdb` at `autoconfig.properties` from `https://live.mozillamessaging.com/autoconfig/v1.1/` to `https://autoconfig.thunderbird.net/v1.1/`.

Change #4092 Added lean configuration option to specify overwriting pre-login capabilities

Added lean configuration `com.openexchange.imap.overridePreLoginCapabilities` (Default: `false`) option to specify overwriting pre-login capabilities which are completely replaced with the ones advertised after login. This is typically useful in case there is another IMAP service used as proxy to the actual IMAP server, which might advertise different capabilities.

Change #4062 Added new options to allow registering custom login sources for CalDAV/CardDAV and EAS

Added new regular options to allow registering custom login sources for CalDAV/CardDAV and EAS. Added `com.openexchange.client.onboarding.caldav.login.customsource` to file `client-onboarding-caldav.properties`, which allows to specify whether a look-up is supposed to be performed to check for custom login sources that might be registered. If available, then the login string is taken from such a custom login source. Added `com.openexchange.client.onboarding.carddav.login.customsource` to file `client-onboarding-carddav.properties`, which allows to specify whether a look-up is supposed to be performed to check for custom login sources that might be registered. If available, then the login string is taken from such a custom login source. Added `com.openexchange.client.onboarding.eas.login.customsource` to file `client-onboarding-eas.properties`, which allows to specify whether a look-up is supposed to be performed to check for custom login sources that might be registered. If available, then the login string is taken from such a custom login source.

Change #4057 Added new lean config option to specify proxy delimiter for doveadm access

Added new lean configuration option `com.openexchange.dovecot.doveadm.proxyDelimiter` (Default: `empty`) which carries the proxy delimiter to use in case created users use login names for proxy authentication; e.g. `user1@domain.com*master@super.net`.

Change #4041 Added user and context identifier to indexed attributes for Hazelcast sessions map

Added user and context identifier to indexed attributes for Hazelcast `sessions` map. Attention: This change requires restart of all cluster nodes in order to restore properly working distributed session storage.

Change #4035 New lean config option for marking a node as Hazelcast lite member

"Lite members are the Hazelcast cluster members that do not store data. These members are used mainly to execute tasks and register listeners, and they do not have partitions." (<http://docs.hazelcast.org/docs/latest/manual/html-single/index.html#enabling-lite-members>) Lite members provide a more convenient way to separate middleware nodes holding distributed data from other nodes than using a custom partitioning scheme (as described at <http://oxpedia>).

org/wiki/index.php?title=AppSuite:Running_a_cluster#Custom_Partitioning_.28preliminary.29). Therefore, selectively marking nodes as "lite" and "full" members should become the recommended way in larger clusters. In order to do so, the following new lean configuration option is introduced: `com.openexchange.hazelcast.liteMember` (Default: `false`).

Change #4033 Adjust logger name for Hazelcast health monitor

At `logback.xml`, the logger element `com.hazelcast.internal.monitors` has been changed to `com.hazelcast.internal.diagnostics` due to a class name change at Hazelcast library.

Change #4030 Added the new default behavior for IMAP-IDLE listeners

IMAP-IDLE makes use of too excessive Hazelcast look-ups to ensure only one IMAP-IDLE listener is spawned for a single user in whole cluster. Added the new default behavior to have only one IMAP-IDLE listener being spawned per user per node. Property `com.openexchange.push.imapidle.clusterLock` (Default: `local`) has been added.

Change #4022 Add option to Base64 encode parameters handed to passwordchange script

An improperly configured system (e.g. using a POSIX instead of `*.UTF-8` locale) will impact the environment and encoding of processes spawned by the JVM and parameters handed to spawned processes. If a operator can't or won't properly configure his system to use a unicode locale that the JVM uses internally for its `file.encoding` we optionally offer to Base64-encode the parameters like `username` and `{old, new}password`. A new lean-configuration property `com.openexchange.passwordchange.script.base64` (Default: `false`) has been added.

Change #4017 Introduce new properties for push notifications for OX Mail iOS

Introduced new properties

- `com.openexchange.pns.mobile.api.facade.apn.badge.enabled` (Default: `true`) Specifies if badges are enabled when using push notifications for the OX Mail App for iOS. These get displayed on the App icon.
- `com.openexchange.pns.mobile.api.facade.apn.sound.enabled` (Default: `true`) Specifies if a sound should be played when the OX Mail App on iOS receives a push notification.
- `com.openexchange.pns.mobile.api.facade.apn.sound.filename` (Default: `default`) Specifies the filename of the sound to play when a push notification is received in the OX Mail App on iOS. This file needs to be included in the App, otherwise a default sound is played. the option `default` causes the default iOS sound to be played.

Change #4007 Added option to configure authentication timeout for SIEVE

Added property `com.openexchange.mail.filter.authTimeout` (Default: `6000`) to file `mailfilter.properties`, which specifies the special (read) timeout in milliseconds to use during authentication.

Change #4006 RegEx to extract primary IMAP servers host information

Introduced property `com.openexchange.imap.greeting.host.regex` (Default: `empty`) to specify a RegEx to extract possible host name/IP address information out of primary IMAP server's greeting. Moreover, either the complete RegEx is considered or in case a capturing group is present that group will be preferred. I.e. Dovecot at `([0-9a-zA-Z.-]*)` is ready, then the capturing group is supposed to extract the host name/IP address information.

Change #3979 Add configuration of host specific subdomains for image loading purposes

When navigating into a drive folder with a lot of images and tiles view enabled, each image-preview has to be generated on middleware side. For the duration of the preview generation, the UI is not usable since the request queue is full of image loading requests. If a list of subdomains is provided for image loading purposes, the UI stays usable since all preview request are sent to the configured subdomains. Via `as-config.yml` a operator can configure sharding subdomains for each host or, per default, all hosts. The information is loaded into the users `jslob` on login. The UI uses this information to distribute image loading requests to the servers supplied. The parameter `shardingSubdomains` accepts an array of subdomains. If no `shardingSubdomains` property is

provided, the domain name of the user cookies is not set on backend side. Otherwise the given hostname is used.

Change #3968 Enable configuration of additional subdomains for image loading purposes

Via `as-config.yml` a operator can configure sharding subdomains for each host or, per default, all hosts. The three additional parameters are necessary for correct cookie usage. The information is loaded into the users `jslob` on login. The UI uses this information to distribute image loading requests to the servers supplied. The parameter `shardingSubdomains` accepts a single string with one subdomain and an array of subdomains. Example: `sharding.local-appsuite.com/appsuite/api` or `sharding2.local-appsuite.com/appsuite/api`.

Change #3957 Added lean config property to define IP check mode

Added lean config property `com.openexchange.ipcheck.mode` (Default: `empty`), which specifies the IP check mechanisms to apply. Known values are:

- `none` implies that no IP check takes place at all
- `strict` implies that IP addresses are checked for equality
- `countrycode` requires that package `open-xchange-geoip` is installed and performs a plausibility check against IP addresses' country codes; so check fails if country codes differ

. Note: The `com.openexchange.IPCheck` property still has precedence over this property, if `com.openexchange.IPCheck` is set to `true`, strict IP check is enabled.

Change #3944 Configuration changes for UCS authentication bundle

The following new properties have been added to `authplugin.properties`:

- `com.openexchange.authentication.ucs.loginAttribute`
- `com.openexchange.authentication.ucs.contextIdAttribute`
- `com.openexchange.authentication.ucs.bindDn`
- `com.openexchange.authentication.ucs.bindPassword`

The following properties got renamed:

- `LDAP_HOST+LDAP_PORT` to `com.openexchange.authentication.ucs.ldapUrl`
- `LDAP_BASE` to `com.openexchange.authentication.ucs.baseDn`
- `LDAP_ATTRIBUTE` to `com.openexchange.authentication.ucs.mailAttribute`
- `USE_POOL` to `com.openexchange.authentication.ucs.useLdapPool`
- `LDAP_SEARCH` to `com.openexchange.authentication.ucs.searchFilter`

The placeholder `@USER@` will be replaced by `%s` and the default filter `(&(objectClass=oxUserObject)(|(uid=%s)(mailPrimaryAddress=%s)))` allows users to login either with their login or with their primary email address. SSL is now also supported using "ldaps" as prefix in the `com.openexchange.authentication.ucs.ldapUrl` parameter. The bundle now also supports reloading of configuration changes without restarting the server.

Change #3880 Added option to enable/disable Unified Quota functionality

Added lean configuration option `com.openexchange.unifiedquota.enabled` that controls whether Unified Quota functionality is enabled or not. That property is config-cascade aware and thus can be set for server, context-set, context and user scope.

5.2 Changes of Database Schema

Change #3779 Changed PRIMARY KEY for `user_attribute` table

No more the need to store multiple values associated with one key. Mirroring that behavior in APIs facilitates handling with user attributes a lot. Changed PRIMARY KEY for `user_attribute` table from ("cid", "uuid") to ("cid", "id", "name"). The `uuid` column is kept for back-ward compatibility. Related database update-task: `com.openexchange.groupware.update.tasks.ChangePrimaryKeyForUserAttribute`.

Change #3796 Extend the `password` column for mail/transport account tables

Solves potential data truncation as generated token by Google does not fit into VARCHAR column. Extended the `password` column for `user_mail_account` and `user_transport_account` tables from VARCHAR(128) to VARCHAR(256). Related database update-task: `com.openexchange.groupware.update.tasks.MailAccountExtendPasswordTask`.

Change #3909 Update task that ensures needless foreign keys are removed

Once again an update task that ensures needless foreign keys are removed. Related database update-task: `com.openexchange.groupware.update.tasks.DropFKTaskv3`.

Change #3941 Update task to adjust the primary key of table `pns_subscription`

The primary key of table `pns_subscription` has been changed to include the `client` column: PRIMARY KEY (cid, user, token, client). Related database update-task: `com.openexchange.pns.subscription.storage.groupware.PnsSubscriptionsReindexTask`.

Change #3943 Additional fields for mail accounts

Enhanced the `user_mail_account` and `user_transport_account` tables by the following fields to track failed authentication attempts and to consequently mark them as disabled: `disabled`, `failed_auth_count` and `failed_auth_date`. Related database update-task: `com.openexchange.groupware.update.tasks.AddFailedAuthColumnsToMailAccountTablesTask`.

Change #4023 Added missing index to subscriptions table

Listing folders also checks for associated subscriptions by specifying context identifier and folder identifiers. Adding a index for the `cid` and `folder_id` columns at the `subscriptions` table helps to speed up that query.

Change #4167 Added new table for managing the SSL certificates per user

Created a new table `user_certificate` with columns `cid`, `userid`, `host`, `fingerprint` and `trusted` to keep track of accepted/denied untrusted SSL certificates for each user. Related database update-task: `com.openexchange.groupware.update.tasks.CreateSSLCertificateManagementTableTask`.

Change #4170 Option to control locks when writing context data to DB

Possible dead lock situations exist when concurrently creating contexts with non-automatic mode. Therefore added an option `LOCK_ON_WRITE_CONTEXT_INTO_PAYLOAD_DB` (Default: `false`) to file `hosting.properties` which controls whether to acquire a lock or not when writing context data into associated payload database. This avoids possible deadlock situations that may occur on concurrent context create operations that are not resolvable through performing a retry strategy with exponential back-off, but does affect throughput for context create operations.

5.3 Changes of Command Line Tools

Change #3847 Additional parameter for `createuser` CLT to set the default folder mode

The `createuser` CLT and SOAP services now have an additional parameter, that specifies what kind of default drive folders shall be created. The parameter is `--drive-user-folder-mode` and possible parameters are:

- `default` Creates all folders not deletable, like before
- `normal` Creates all folders like in `default` mode, but makes documents, templates, music,

pictures and videos deletable. Recreating those folders as default folders is not possible, because they get the public folder type.

- none Wont create the default folders: documents, templates, music, pictures and videos

Change #3850 Additional `changeuser` parameter

Added `--convert-drive-user-folders` parameter to `changeuser` CLT, to remove default folder flags and type from users' Documents, Templates, Pictures, Music and Videos folder.

Change #4055 A set of new CLTs is introduced, to export, send and delete userfeedback

Access to the new feedback collection mechanism is available via CLTs. For this purpose export, send and delete CLT have been introduced.

- `exportuserfeedback`
- `senduserfeedback`
- `deleteuserfeedback`

Change #3803 The name of the primary mail account can now be provisioned via CLTs

All `*user` CLTs and the `createcontext` CLT now support the provisioning of the primary account name with the `--primary-account-name` argument, which specifies the name of the primary mail account.

5.4 Changes of Behaviour

Change #3800 The name of the primary mail account is now allowed to be changed

The name of the primary mail account can now be changed like external mail accounts via the update request of the `mailaccount` module.

Change #3829 Removed Grizzly ping options

Grizzly no more offers the possibility to specify a mechanism that periodically pings the load-balancer in front to avoid connection timeouts to happen.

Change #3891 The `currentdate` SIEVE test now uses the configured timezone of the user

The `currentdate` sieve test now uses the configured timezone of the user during creation time instead of the timezone of the sieve server.

Change #3901 `ext.point('..').extend` supports `enabled` property now

Demand for a common way to register a extension point extension in an enabled or disabled state.

Change #3919 Layout changes for mail detail header

Adding/Removing flags (like the color picker) wasn't very straight forward based on the absolute positioned elements. With this change elements are lined up within the normal flow. Extensions in point `io.ox/mail/detail/header/row1` were re-ordered to match the new flexbox layout. Related absolute positioning and float styles were removed. For point `io.ox/mail/mobile/detail/header` a new extension was introduced that adds a container element at the right side of the datetime block. Any 'flags/icons' that were previously added directly to the header node are now added to this container instead. For this container a new extension point was created: `io.ox/mail/mobile/detail/header/flags`. The extension `flag-picker` extends this point now.

Change #3920 Contacts functionality moved

The umlaut mapping part of `grid.requiresLabel` moved to the local `getLabel` function (that can still be extended via ext point). In case you extended `getLabel` via ext point `io.ox/contacts/getLabel` please ensure to check if this umlaut-mapping is still needed in your scenario and should be added

to your custom `getLabel` function.

Change #4065 Request parameter are saved within OX

`AuthenticationService` implementations receive a `LoginInfo` object (which is always a `DefaultLoginInfo`), that provides the headers and cookies of the login HTTP request, but it does not provide the query parameters. This is necessary for several custom implementations.

Change #4064 Full-time appointment conflict handling changed

Full-time appointments are so called "floating" appointments. That means they don't have distinct appearance in time but change depending on the timezone. Conflict handling has been done based on the UTC values of the appointment. That leads to missing conflicts and conflicts which are unexpected. This has been changed to the current user's timezone, which is more likely what a users expects when creating such appointments. This is still not completely solved. There are still unexpected conflict results when changing timezones and/or having multiple timezones involved (group appointments).

Change #3996 Support for malicious folders

Mail folders that are supposed to be considered as malicious are configured through `com.openexchange.mail.maliciousFolders.listing` property and defaults to standard Spam and Confirmed-Spam folders. Mails within those folders are handled more carefully, for example hyperlinks are disabled.

5.5 Changes of Packaging

Change #3870 CLT-based scripts were removed and only Jolokia-based scripts will be maintained

Command-line tool (CLT) based monitoring scripts have been removed and will no longer be maintained. Instead the monitoring scripts that were shipped as `open-xchange-munin-scripts-jolokia` will be used. They are now shipped as `open-xchange-munin-scripts`. A new documentation for using those scripts is available at <https://documentation.open-xchange.com/>.

Change #4054 New package/bundles for user feedback

The new feature for user feedback retrieval does contains several bundles which are packaged as `open-xchange-userfeedback`.

Change #4155 Removed JVM specific Xerces packages

With the 7.8.4 we decided to use OpenJDK on SLES instead of IBM Java. The reasons for this are, that IBM Java requires the Java Cryptographic Extensions (JCE) for running OX Guard with strong enough key length. Second the Kerberos implementation in IBM Java is broken and does not allow to provide such authentication for all our customers. Our strategy is to exclusively use OpenJDK going forward.

The package `open-xchange-xerces-ibm` was especially designed for IBM Java. The Xerces library is used for the XML interface and IBM Java comes with a built-in Xerces library. Other Java Runtime Environments do not have Xerces built in and we provided it in one of the OSGi bundles. This breaks with IBM Java and class conflicts appear. As long as XML is parsed using Java library methods the Xerces classes from IBM Java are used, while our code used classes from the xerces bundle, which results in two different and conflicting class declarations. The `open-xchange-xerces-ibm` package provides a different Xerces OSGi bundle which just exported the Xerces library from IBM Java to the OSGi stack to make all code use the same Xerces class definitions. This is not necessary any more because we do not support IBM Java any more. The same Xerces class definitions can be used and the package `open-xchange-xerces-ibm` ist obsolete. Therefore this package was removed. Furthermore the virtual package `open-xchange-xerces` was removed and the `open-xchange-xerces-sun` package was renamed to `open-xchange-xerces`. Due to the fact that virtual packages do not have versions, the package manager "Zypper" is not sure during the upgrade process if it is correct to replace `open-xchange-xerces-ibm` package with `open-xchange-xerces` package or keeping the old one. This question will be asked to the administrator performing the upgrade. The correct choice here is to replace the outdated `open-xchange-`

xerces-ibm package with the new open-xchange-xerces package. OX App Suite middleware packages now have a conflict with IBM Java packages and require OpenJDK packages. So it is furthermore not possible any more to install IBM Java when OX App Suite middleware is installed. There is no other possible way for the packages to force OpenJDK is used for OX App Suite middleware.

6 Changes relevant for Developers

6.1 Changes of the HTTP API

Change #4043 Extended /mail?action=get to return the estimated size for file attachments

The /mail?action=get call now accepts a new optional boolean parameter `estimate_length`, which signals to return the estimated size for file attachments.

Change #4056 User feedback features can be requested via REST with a set of new API calls for store, export, send and delete feedback

To enable the usage of the new feedback features, a set of new REST and HTTP actions is provided. Once thats done, user feedback can be managed via the /userfeedback endpoint, which represents a new REST API. Technical API documentation is available at <https://documentation.open-xchange.com/>.

Change #4086 Added a limitation to RSS call

The client can now decide how many elements to load from the RSS feed.

Change #4071 Additional infoitem field `sanitizedFilename`

A new request field `com.openexchange.file.sanitizedFilename` (column id: 7040) has been added to request a sanitized version of the filename. This prevents end users from being confused by special characters, e.g. RTLO (0x202E). Clients that allow such Unicode characters should use this instead of `filename` (702).

Change #4063 No mandatory folder-id for iCal conversion

An iCal email attachment may contain appointments and/or tasks. Depending on the users access permissions, the user might not have any access to one or both of the modules (calendar, tasks). The API endpoint `conversion?action=convert` no longer requires the `com.openexchange.groupware.calendar.folder` or `com.openexchange.groupware.task.folder` data handler, which allows to convert objects from other modules.

Change #4099 Introduced `folder_name` column for the folder API

The `title` column only provides the translated names of the standard folders in the mail module. This can lead to duplicate folder names if the translated name matches another folders name. Therefor the `folder_name` (ID: 319) column got introduced and provides the raw (and therefore untranslated) folder name.

Change #4004 Introduced a new Mailfilter API

A new mailfilter API has been introduced which can be access via `/mailfilter/v2`. Whether this API is available is announced via the capability "mailfilter_v2". The new API contains the same requests as the old API but supports some additional mailfilter tests called "simplified rules". These tests provide a convenience way to create tests. Also the new API supports simplified match types. It is now possible to negate every match type by combining the match type with a leading "not" separated by a space. E.g. "not matches". This will create a "not" test, which contains the test with the normal match type. Besides the not match types two new match types, "startswith" and "endswith", are introduced, which tests whether a string starts- or ends-with specific char sequences.

Change #4003 Added optional copy field to `fileinto` and `redirect` actions

The `MailFilterAction` object can now contain a boolean field with the name `copy`, which indicates whether a copy tag should be added to the `fileinto` or `redirect` action command or not. This enables support for RFC3894 on API level.

Change #4002 Added a capabilities field to the mailfilter config request

The `mailfilter?action=config` response now contains an additional field called `capabilities` which contains an array of strings related to SIEVE capabilities of the corresponding backend.

Change #3978 Added a zone field to the mailfilter API

Added the `zone` field to `date` and `currentdate` tests. This field contains the timezone which should be used for a date or `currentdate` test. E.g. `+0100`. If omitted the current timezone of the user is used instead.

Change #3977 Extended the mailfilter tests envelop and address with the addresspart field

The additional field "addresspart" has been introduced for envelope and address tests, which contains the address part which should be tested. Valid values are `all` (default), `localpart` and `domain`. See RFC5228 for more informations.

6.2 Changes of the Java API

Change #3780 Re-factored user attributes to have a name-wise uniqueness

Re-factored user attributes to have a name-wise uniqueness. Thus no more a mapping name -> value*, but a one-to-one mapping name -> value. In consequence the method `getAttributes()` of the `com.openexchange.groupware.ldap.User` interface changed its signature from `Map<String, Set<String>>` `getAttributes()` to `Map<String, String>` `getAttributes()`. Moreover that change is also reflected in `com.openexchange.groupware.ldap.UserAttribute` class, which now consists of String name to String value pair.

Change #3908 Support for multiple SAML backends

The following classes have been added:

- `com.openexchange.saml.spi.SAMLBackend.getConfig()` Returns the config
- `com.openexchange.saml.spi.SAMLBackend.getPath()` Returns the SAML sub-path
- `com.openexchange.saml.spi.SAMLBackend.getStaticLoginRedirectLocation(HttpServletRequest, HttpServletResponse)` Returns an optional static redirect on login/relogin

All those methods are already implemented at `com.openexchange.saml.spi.AbstractSAMLBackend`, which means that any implementation extending `AbstractSAMLBackend` does not need to be changed. `com.openexchange.saml.SAMLConfig.getHosts()` got added and returns a Set of hosts that describe the responsibility of this `SAMLBackend`. Default is `["all"]`.

Change #4053 New method isGlobalDatabaseAvailable() for GlobalDatabaseService

To be able to distinguish between "no global db available for group/id" and "no global db configured" the additional method `boolean isGlobalDatabaseAvailable();` got implemented.

Change #3998 Need for user/context information

Extended `SMSServiceSPI.sendMessage()` method by a user and context identifier. The new signature is now `com.openexchange.sms.SMSServiceSPI.sendMessage(String[] recipients, String message, int userId, int contextId)`.

Change #4036 Introduced the SAMLConfigRegistry

Introduced a registry service for `SAMLConfig` objects called `SAMLConfigRegistry`. The registry maps ids to `SAMLConfig` objects. The registry replaces the old `DefaultConfigReference` class.

6.3 Changes of the SOAP API

Change #3802 The name of the primary mail account can now be provisioned easier

The User object used by the SOAP methods of the `OXUserServicePortType` and `OXResellerUser`

ServicePortType has been extended to contain the name of the primary mail account.

Change #3851 New parameter in changeuser SOAP API

Added boolean parameter `convert_drive_user_folders` to `changeuser` SOAP API, to remove default folder flags and type from users' Documents, Templates, Pictures, Music and Videos folder.

Change #52719 Prefetched documents are not used by the viewer

sync conversion requests from DC client to DC server were always performed, even if same request was just performed. Added a time based queue to collect same async conversion requests. After touch or initial request, the timeout for a request

6.4 Changes of the RMI API

Change #3801 The name of the primary mail account can now be provisioned via the OXUserInterface

The User object used by the RMI methods of the `OXUserInterface` has been extended to contain the name of the primary mail account. The User object now contains this additional methods:

- `final public void setPrimaryAccountName(final String primaryAccountName)`
- `final public String getPrimaryAccountName()`
- `final public boolean isPrimaryAccountNameSet()`

6.5 Changes to the Frontend API

Change #3986 Added polyfill to support resizable text area on IE11 and Edge

New design of the Permissions dialog requires a resizable text area. MS IE11 and Edge don't support the CSS `resize` attribute. The `css-resize-polyfill` module has been added which is published under MIT License. See <https://github.com/CezaryDanielNowak/css-resize-polyfill>.

Change #3964 Added new icons for homescreen shortcuts on mobile devices

For current mobile devices like latest iOS and Android devices some icons sizes were missing when using the "add to homescreen" function of iOS or Chrome for Android. Three new icon sizes are included in the default theme 167x67px, 180x180px and 192x192 px.

7 Tests

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

To avoid side effects, the shipped packages have gone through automated regression test on both, a Continuous Integration System and a dedicated server set-up for system and integration testing. All changes have been checked for potential side-effects and effect on behaviour. Unless explicitly stated within this document, we do not expect any side-effects.

8 Fixed Bugs

40632, 47229, 47616, 48361, 49083, 49236, 49731, 49781, 49864, 49979, 49989, 50016, 50039, 50040, 50041, 50043, 50093, 50135, 50176, 50213, 50230, 50232, 50244, 50258, 50303, 50307, 50328, 50342, 50381, 50407, 50412, 50414, 50461, 50478, 50518, 50519, 50527, 50570, 50574, 50598, 50621, 50627, 50674, 50689, 50691, 50693, 50706, 50714, 50738, 50798, 50804, 50835, 50837, 50868, 50918, 50939, 50964, 50965, 50982, 50987, 50991, 50997, 51017, 51018, 51053, 51074, 51075, 51091, 51101, 51207, 51222, 51263, 51313, 51356, 51357, 51368, 51399, 51462, 51468, 51548, 51569, 51570, 51572, 51594, 51602, 51610, 51755, 51772, 51839, 51859, 51910, 51918, 51960, 51967, 52013, 52022, 52067, 52095, 52100, 52101, 52104, 52107, 52114, 52119, 52123, 52151, 52156, 52157, 52161, 52238, 52277, 52280, 52314, 52391, 52433, 52470, 52478, 52530, 52534, 52606, 52607, 52633, 52675, 52712, 52727, 52729, 52730, 52751, 52756, 52764, 52797, 52798, 52928, 52959, 53008, 53023, 53087, 53095, 53100, 53127, 53139, 53158, 53216, 53249, 53267, 53282, 53368, 53434, 53451, 53456, 53457, 53674, 51700, 50951, 50947, 51388, 50404, 51727, 50495, 49099, 52231, 52435, 53077, 53073, 52843, 52255, 52066, 52040, 51863, 51667, 51622, 51480, 51474, 51464, 51407, 51219, 51202, 51164, 51069, 51058, 51039, 51038, 50943, 50940, 50893, 50849, 50764, 50760, 50748, 50739, 50737, 50734, 50733, 50723, 50721, 50715, 50382,