



## **Release Notes for Release 7.8.2**

July 13, 2016

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## 1 Shipped Product and Version

Open-Xchange Middleware 7.8.2-rev4

Open-Xchange App Suite frontend 7.8.2-rev4

Open-Xchange OX6 frontend 6.22.12-rev4

Open-Xchange USM 7.8.2-rev4

Open-Xchange EAS 7.8.2-rev4

Open-Xchange Updater 7.8.2-rev4 (6.18.33)

Open-Xchange Drive restricted 7.8.2-rev4

Open-Xchange Documents 7.8.2-rev4

Open-Xchange Documents Frontend 7.8.2-rev4

Open-Xchange Readerengine 7.8.2-rev3 (5.0.7)

Open-Xchange Documentconverter 7.8.2-rev4

Open-Xchange Documentconverter API 7.8.2-rev4

Open-Xchange OXtender for Microsoft Outlook 7.2.23

Open-Xchange Notifier 1.0.6

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

## 2 General information

The main focus of this release is to improve the web frontend design and provide usability enhancements for all applications. With OX App Suite v7.8.2 and OX Documents v7.8.2, Open-Xchange has again made significant improvements to the overall design, improving navigation, optimizing workflows and helping users maximize the benefits of the OX App Suite interface.

### Mail Categorization with a Tabbed Inbox

To deliver a better user experience and more efficient workflows, OX App Suite is now able to display various message categories in tabs above the inbox list. Users can choose to let OX App Suite organize their email for them automatically. Please Note: Open-Xchange recommends the use of Dovecot 2.2 or higher along with the Pigeonhole Sieve implementation.

### Drive Mail

With OX Drive, OX App Suite already supports the sharing of files by generating public links. In OX App Suite v7.8.2, this is now combined with a new feature that allows the composition of messages with large files without the limitation of attachment size. OX App Suite automatically identifies attachments that are too large to send via email. These attachments are transferred to OX Drive and linked to within the email. This gives users the ability to send large files without needing to share them actively through OX Drive manually.

### The Mail Attachment Overview

To make working with attachments easier, OX App Suite offers a new folder, which shows all email attachments in one place. This includes files a user has attached to email messages and files re-

ceived with incoming email. Please Note: This feature requires Dovecot Pro v2.2.25.1 or higher.

### **OX Documents Improvements**

For service providers looking to extend value to their customer base, using OX Documents as a hook is perfect. Fully integrated into OX App Suite, OX Documents v7.8.2 provides some new features like exporting a document as a PDF file and converting your documents to PDF. In addition, sharing is now also possible while editing a document. There is no need to navigate to OX Drive afterwards to share the desired document any more, eliminating an additional workflow.

### **Manual Adjustments after Update to new Separated OX DocumentConverter Service**

The separation of OX AppSuite Middleware (backend) and OX DocumentConverter needs manual adjustments after an update to 7.8.2. For details see Change #3428 below and <https://oxpedia.org/wiki/index.php?title=AppSuite:DocumentConverterUpdate782>.

A more detailed overview of all the improvements to OX App Suite v7.8.2 and OX Documents v7.8.2 can be found at: [http://software.open-xchange.com/products/appsuite/doc/Feature\\_Overview\\_OXAppSuite\\_7\\_8\\_2.pdf](http://software.open-xchange.com/products/appsuite/doc/Feature_Overview_OXAppSuite_7_8_2.pdf) and [http://software.open-xchange.com/products/appsuite/doc/Feature\\_Overview\\_OXDocuments\\_7\\_8\\_2.pdf](http://software.open-xchange.com/products/appsuite/doc/Feature_Overview_OXDocuments_7_8_2.pdf)

### **Session Migration**

When using a distributed session storage it's possible to migrate existing sessions of the latest 7.8.1 to the current 7.8.2 version.

## **3 Vulnerabilities fixed with this Release**

This section provides a summary of security related bugfixes that have been applied subsequently to shipping Release 7.8.1. Solutions for vulnerabilities have been provided for the existing code-base via Patch Releases.

### **45295 XSS when requesting harmful files with broken MIME-Types**

In case the legacy AJP connector is used (available till 7.6.3), a specific error case can be used to execute script code in the users context. A file needs to be uploaded to Drive and its MIME-Type needs to be altered in a way that it passes the syntax check but triggers an error while processing the download. In case of this event, the related error page reflects the file name to the requesting client. If an attacker has also renamed the file name in a way that it contains script code, that code gets executed. When using the recent Grizzly connector, this vulnerability does not occur since the response is part of the header. Even though we changed the code to avoid returning user input with HTTP headers when using Grizzly.

### **45312 XSS when downloading or opening files in browser**

The content sanitizer component has an issue with filtering malicious content in case invalid HTML code is provided. In such cases the filter will output a unsanitized representation of the content. This has been solved by using a sensible fallback for broken data. Credits to Mohamed Khaled Fathy.

### **45328 API store fragment is not evaluated correctly in SSO scenarios**

App Suite frontend offers to control whether a user wants to store cookies that exceed the session duration. This functionality is useful when logging in from clients with reduced privileges or shared environments. However the setting was incorrectly recognized and cookies were stored regardless of this setting when the login was performed using a non-interactive login method. In case the setting was enforced by middleware configuration or the user went through the interactive login page, the workflow was correct. This has been solved in a way that the parameter is considered regardless of the way it is set.

### **45364 Content spoofing at login page**

Custom messages can be shown at the login screen to notify external users about issues with sharing links. This mechanism can be abused to inject arbitrary text messages. This has been solved by

moving to a random-token based approach which allows the client to request a specific pre-defined message from the middleware instead of providing the actual content. Credits to Saeed Hashem.

#### **45366 SSRF with external mail account API**

The API to configure external mail accounts can be abused to map and access network components within the trust boundary of the operator. Users can inject arbitrary hosts and ports to API calls. Depending on the response type, content and latency, information about existence of hosts and services can be gathered. This has been solved by adding a default black-list for local addresses for account discovery. At the same time we unified the error response to make guessing remote hosts harder.

#### **45401 XSS at RSS links**

Script code can be embedded to RSS feeds using a URL notation. In case a user clicks the corresponding link at the RSS reader of App Suite, code gets executed at the context of the user. Sanitizing is now being applied to avoid this.

#### **45402 SSRF with RSS feeds**

The API to configure RSS feeds can be abused to map and access network components within the trust boundary of the operator. Users can inject arbitrary hosts and ports to API calls. Depending on the response type, content and latency, information about existence of hosts and services can be gathered. This has been solved by adding a default black-list for local addresses for feed retrieval. At the same time we unified the error response to make guessing remote hosts harder.

#### **45796 XSS when dropping external HTML content**

Adding images from external sources to HTML editors by drag&drop can potentially lead to script code execution in the context of the active user. To exploit this, a user needs to be tricked to use an image from a specially crafted website and add it to HTML editor areas of OX App Suite, for example E-Mail Compose or OX Text. This specific attack circumvents typical XSS filters and detection mechanisms since the code is not loaded from an external service but injected locally. We added several measures to sanitize incoming HTML content at the client side as well. Credits to Sasi Levi.

#### **46026 XSS when opening Flash files inline**

Adobe Flash files can be used to transport javascript code. Those files were not detected nor sanitized and therefore presented to the user. Existing sanitizing rules have been updated to consider this kind of file as well.

#### **46630 CVE-2016-5741**

CVSS: 3.7. Credits to Mikko Kenttälä.

#### **46688 CVE-2016-5740**

CVSS: 4.3. Credits to Mikko Kenttälä.

#### **45405 Uncontrolled Resource Consumption for RSS contents**

Configuring RSS feeds allows to provide an arbitrary URL to fetch feed data. Response checks make sure only valid XML gets processed but they do not apply limits to file size. As a result, processing of large XML resources can be triggered which leads to high resource usage and potentially reduces service availability. We're now checking the provided resource link more carefully and deny processing of external content which exceeds a configurable size.

#### **46894 CVE-2016-5740**

CVSS: 4.3. Credits to Jakub Żoczek.

#### **47062 CVE-2016-5740**

CVSS: 4.3. Credits to Jakub Żoczek.

#### **46484 CVE-2016-5740**

CVSS: 4.3

**45363 OX Text - XSS at user name in Review Comments**

Adding html escaping for date, uid and author in html fast load string

**45811 OX Text - XSS when dropping external content**

remove insecure mark-up from incoming HTML before processing it.

**46025 OX Spreadsheet - XSS at Charts**

HTML-signs replaced with the respective HTML entities.

**45386 OX Spreadsheet - XXE while opening doc files in drive**

now explicitly using own XMLStreamReader

**46897 CVE-2016-5741**

CVSS: 3.7

## 4 Bugs fixed with this Release

This section provides a summary of bugfixes and changes that have been applied subsequently to shipping Release 7.8.1. Some of the announced bugfixes may have already been fixed at the existing code-base via Patch Releases.

**31582 IMAP permissions require logout to be refreshed**

The cache was not invalidated for affected users when ACL were changed.

This has been fixed by dropping cached rights for affected users.

**31691 SOAP example "createcontext" is missing mappings which leads to login issues**

Fixed documentation.

**35197 Sender displayed as missing.mailbox@missing.domain**

Fixed parsing of mail server response.

**40540 Document template garbled with LibreOffice**

When using OX Text document templates and opening them in LibreOffice, the representation of headers and footers was not optimal. We solved this by creating templates that are more compatible to LibreOffice.

**40871 Readerengine fails to convert PPSM document**

When generating previews for PowerPoint slideshows with embedded macros, icons and other elements were missing which led to a poor preview overall. This has been solved by patching the embedded LibreOffice component.

**42364 Mailfilter: possible to save without condition/action**

It was possible to save an empty Mailfilterrule.

This has been fixed by adding a missing check. Now the user is not able to create a Mailfilterrule without conditions.

**42442 Drive: send as mail sometimes gives 400 - Bad request**

A function was only checking .folder but not .folder\_id.

Now also checking the folder\_id to prevent this issue.

**42633 Updatetask MigrateAliasUpdateTask fails due to Duplicate entry in user\_alias table**

The insert operations fails if either two duplicate entries exists within the user\_attribute table or if an entry with the same cid, userid and alias already exists within the user\_alias table.

This has been fixed by replacing already existing entries in user\_alias table. Since they are equal no aliases get lost.

**43121 Wrong placed signature on reply or forward when having signature above quoted**

**text**

Signature was not displayed above quoted text when replying or forwarding an email with setting: "Add signature above quoted text".

This has been fixed by adding handling for special case when 'above' signature is added when initially reply/forward a mail.

**43929 Some display names like "A, B" end up in problems while replaying**

The comma is a delimiter. Works if properly quoted. When editing a token-field, double quotes are introduced which will lead to two pairs. "A B" works because no comma. "A, B" works because quoted. ""A, B"" does not work (as expected) because the comma is not quoted, we get two pairs ""A and B"".

This has been fixed by removing all quotes from token-field labels.

**44168 Documents Preview - Printing Error**

The server does not answer the request. This has been solved by optimizing the printing preparations.

**44214 Documents Preview - Printing a document is not possible**

Certain spreadsheet previews could not be printed, that has been addressed by optimizing the Documents Preview component

**44275 Improved queue handling for DocumentConverter to avoid pending jobs**

Some DocumentConverter jobs never got processed by the DocumentConverter backend and remained within the job queue forever due to a missing unlock of the job after the first conversion. This happened under certain conditions like same job conversions for the same source document in parallel. When pending or blocked jobs are within the DocumentConverter queue due to a parallel processing of the same conversion, it is ensured, that those jobs get unlocked after the first conversion of this kind of jobs happened, giving a fast processing and removal of all pending jobs with the same characteristics.

**44315 After update to 7.6.3 Vacation Notice with ':from' Tag not editable**

Sieve scripts that contained the 'from' tag were not taken into consideration from the backend when parsing.

This has been fixed by introducing the ':from' tag for the vacation type and a new 'from' attribute in the JSON payload.

**44380 Login form shown when using SAML and the IdP is slow to respond**

When the IdP takes a long time to respond, the UI aborted the login process and displayed the App Suite login screen.

Now always displays the progress screen.

**44551 Recipients seperated by , or ; can not be "batch"-added to distribution list anymore**

This missing handling is added and blacklist handling/validation is extend.

**44599 oxsysreport starts report -o -d which takes very long in a bigger environment**

Don't run the report client by default.

**44636 Documents Preview - Thumbnails load endlessly**

long Performance improvements result in faster loading thumbnails.

**44705 Usercopy - OX drive lists shared files**

The order of db entries of folder children are changed if an openjdk java is used. This is probably caused by different Hashset implementations.

This has been fixed by using sorted sets for folder children during usercopy.

**44708 Emails with multiple threads / forwards are printed nearly unreadable**

Just missing CSS for blockquotes, browser defaults need too much space.

This has been solved by adding border, less padding on left side, no padding on right side.

**44711 Contact HALO-view from PIM users in mail module does not show controls for "Send mail"**

Avoid user look-up in Halo implementation in case global address book is not accessible.

**44809 No-reply transport without authentication not possible**

It was not allowed to specify empty login/password for the no-reply transport configuration. This has been fixed by allowing empty login/password when configuring the no-reply transport.

**44818 Search result not shown at first run in contacts module**

Outdated model in a zombie collection lead to this issue. This has been fixed by using model id to get the latest instance via manager

**44836 Deleteuser fails after a usercopy**

No possibility to not reassign with deleteuser clt. This has been solved by extending deleteuser clt with reassign and no-reassign parameter.

**44854 Share Service not started, no new folders can be created**

Hard dependency on ShareService lead to not some problems. Solution: Do not hard-require ShareService, but acquire it on demand.

**44855 Mail cannot be deleted when quota exceeded**

Errorhandling was not adjusted with latest changes. This has been solved by adjusting the error handling.

**44877 Not possible to access mails in folder with \ in name**

Backslashes were used to escape dots, and the corresponding decode removed all backslashes. This has been fixed by only removing backslashes before dots.

**44888 Groups not shown in "Find a free time period"**

Regression introduced by porting to new "participants view" and group members not expanded correctly if added from appointment edit view. This has been fixed by correctly expanding groups in the two cases mentioned above.

**44923 Mail: moving a folder to "My Folders" always uses default0/INBOX**

Moving a folder to the virtual "My folders" folder didn't consider altnamespace and moved to IN-BOX. Solution: Considering altnamespace now. If set, move folder to "default0" instead.

**44943 Instant termination of all Document Converter backend processes and threads when OSGi bundle is stopped**

Document Converter job queue and currently running Document Converter jobs were not instantly terminated when stopping the Document Converter server bundle. When stopping the the Document Converter server bundle, every single, currently running job is interrupted and terminated; in addition, all the Document Converter job queues are cleared.

**44957 Copying an email to a "\Noselect" mailbox doesn't throw an error although it cannot hold mails**

Deny 'create' if mail folder has no 'read' permission

**44968 com.openexchange.participant.MaximumNumberParticipants not working participant.properties**

Removed participants/maximumNumberParticipants from config tree.

**44997 Cast error after returning to same node after split**

Settings were not accessible, because of PortableSession problem with Hazelcast. Fixed PortableSession handling to avoid this problem.



**45048 Appointments created on Appsuite 7.8 are two hours off on Windows 8.1/10 mobile via CalDAV**

An unsupported calendar client (which itself has no official CalDAV support) can't handle more complex timezone definitions with RDATEs, causing it to assume UTC for such timezone'd dates in VEVENTS.

This has been solved by using Outlook-compatible timezones when serializing iCal for MSFT-WP or MSFT-WIN user agents.

**45078 NPE at c.o.publish.CachingLoader\$PublicationKey**

Sometimes a Null Pointer Exception where thrown when try to download a publication from a link.

Added Null-Guard to prevent solve this problem.

**45081 Emoticons not displayed in portal mail widget**

Subject was not processed by Appsuite emoji utility.

Solution: Process subject with our emoji utility to display those also on the portal widget.

**45083 No configuration of guestmode after installation of 7.8.0 UCS**

This was caused by a missing software change request.

Now packaging adds new properties during package upgrade process.

**45132 New lines added when editing Drafts**

Replacing HTML-Tags does not discard outer HTML content.

This has been fixed by unwrapping remaining div and prevent auto-prepend newline when editing drafts.

**45157 Calendar menu disappear when using bossyAppointmentHandling**

Do not try to load folder data if folder\_id is undefined.

**45163 com.openexchange.oauth.xing = true enforced on upgrade**

An old Softwarechange Request demanded re-enabling of com.openexchange.oauth.xing for 7.6.1 but rpm packaging reenabled it for every upgrade.

This has been solved by removing unconditional upgrade.

**45209 "Info area" not shown in guided tour**

The light mark was at the same position as the page before "The new objects icon" but "The info area" description is displayed, this was caused by a closed popup.

Solution: The click event is immediatly stopped to prevent further interaction with other popups.

**45210 Google drive available without open-xchange-file-storage-googledrive**

Only checked the Oauth capabilities but not the available filestorage services.

This has been fixed by also checking available Filestorage services to determine if a filestorage can be added.

**45225 Paste images from clipboard into HTML mail fails using firefox context menu and chrome ctrl+v**

Fixed the issue for Chrome. Firefox has still an open bug [https://bugzilla.mozilla.org/show\\_bug.cgi?id=891247](https://bugzilla.mozilla.org/show_bug.cgi?id=891247).

**45228 touch-appsuite.sh fails due to encoding issues**

Updates to the copyright information led to unicode characters within a Bash script. As a result, the script does not work as expected on some platforms. This has been solved by using more compatible contents.

**45239 login stucks with URL hash login\_type=none**

A notification is displayed if an invalid login type like "none" is used, also when handling an invalid session correct redirection behaviour was implemented.

**45273 Address book ->Name of private contact is not show correctly**

Added missing CSS.

**45287 Mail without content can not be forwarded, UI hangs forever**

It was not possible to forward emails with attachments only.

Simplified mail reference handling for attachment to solve this issue.

**45296 Appointments will not be displayed in month view when timezone "-4:00 CDT Cuba" is set**

Daylight Saving Time switch on Sundays if Sunday is the start of the week combined leads to weeks being painted twice (adding 6d 23h because of DST switch technically is still the same week).

This has been fixed by normalizing time to UTC before doing the math.

**45306 Unable to add twitter account**

Fixing security issue from an other bug renders double-deferring of call-back URLs to result in an error.

Solution: Proper registration of URLs for OAuth provider call-backs.

**45308 Unable to create SIEVE rules with `pgp_encrypt` command**

Certain custom SIEVE implementations rely on accepting SIEVE `require` statements that contain extensions with dashes as part of their name. Support for such capabilities got lost with 7.8.1 due to the introduction of a syntax check for SIEVE commands that did not consider dashes. This fix extends the syntax check in a way that extensions with dashes will be correctly handled again. Validating the fix in our lab environments was not possible, therefor it needs to be validated when rolling it out to a staging environment.

**45319 Copy&Paste of HTML signatures does not work in signature editor**

Added possibility to add source code.

**45334 Standard Folders Switch After Upgrade To 7.8.1 from 7.6.3**

When trying to create a probe folder to check if IMAP server allows creating folders on root level, but the selected name does refer to an already existing folder, the check fails with a "NO [ALREADYEXISTS]" response from IMAP server. Sadly, that "NO" response was interpreted in the way that the associated IMAP server does not support creating folders on root level. That information in fact overwrites the information indicated by NAMESPACE command.

Solution: Ensure a unique mailbox name is used to probe whether an IMAP server supports creating folders on root level. Moreover, ensure created folders gets deleted once it has been created successfully.

**45361 Side-Popup views in Contacts does not deal with custom attribution**

The "Recent Conversation" area for Contacts did not contain the same kind of representation for custom tags or icons, compared to E-Mail. This has been solved by allowing header fields for the specific API call instead of only integers.

**45335 Appointment can not be deleted fully by the organisator**

With support for umlaut domains the user search became case sensitive. The organizer was provisioned with upper case letters and is thus no longer found by the user search, which was performed with lower case letters.

This has been fixed by performing the user search with the original organizer string.

**45348 Cannot move emails to different folders after update to latest 7.6.3**

Email update calls were broken since last update.

This has been fixed by adjusting the previews patch.

**45356 After updating to 7.8.1 customer is getting a a generic "500 Internal Server Error" instead of a proper json error**

A side effect of the changes performed for an other Bug caused that OXExceptions are outputted as HTML error pages.

This has been solved by restoring previous behavior when outputting OXExceptions.

**45362 Signature: in case the imported picture is too big, error message not easy to understand**

The error message in case the imported signature picture is too big was only containing the amount of bytes.

This has been fixed by enhancing the exception message (both display and log) to include a human readable format.

**45391 Unable to remove password for drive shares via link**

Server request did not contain the removed password.

This has been solved by sending password=null to remove it properly.

**45436 Unable to read specific HTML E-Mails on broken E-Mail backends**

Specific IMAP Servers did return bogus responses for BODY.PEEK commands which missed parts of the message bodies. As a result affected messages were not correctly displayed in App Suite. This has been solved by handling such responses.

**45446 minimum width for the mail preview area is not maintained on window resize**

Implemented resize handling to apply size constraints.

**45472 OutOfMemory Error - java.lang.OutOfMemoryError: Direct buffer memory**

Dropped "-XX:+DisableExplicitGC" JVM argument from ox-scriptconf.sh file to mitigate Java Bug #8142537 (<https://bugs.openjdk.java.net/browse/JDK-8142537>).

**45502 Long running Threads OXResellerContextServicePortTypeImpl.create**

Finding a suitable file store for a context which is about being created requires to iterate every available database schema to ensure actual occupation of file stores (as there might be individual users assigned to it).

This has been solved by introducing a "file-store to user" mapping in configDb in order to avoid such very long running threads. Detecting necessary file store statistics is now performed within a few milliseconds. This change including Software Change Reques 3282 trigger a new update task.

**45507 Illegal format: An IO error occurred is displayed with no additional informations**

Adjusted logging and error messages.

**45516 Unable to save Email preferences due to db size**

Added update task to extend the "value" column from "user\_setting" table from TEXT (64K) to MEDIUMTEXT (16MB)

**45529 OXUserCopyService doesn't copy aliases**

User aliases were copied to user\_attributes table instead of user\_alias table.

Solution: Copy aliases to user\_alias instead of user\_attributes during usercopy.

**45530 HTML Email does not show up for some users**

Deal with "bogus" BODY.PEEK response from Dovecot IMAP server (e.g. Dovecot EE 2.2.21.2-1).

**45553 movecontextfilestore produces error 'AVERAGE\_USER\_SIZE' not found in file /opt/open-xchange/etc! Using fallback :100**

Use proper helper classes to read value for a property managed in 'AdminUser.properties'.

**45554 "Invite guest" no longer available without access-contacts with 7.8.1**

Internal sharing required "Global Address book" capability for drive.

With this fix internal sharing is always enabled for drive.

**45583 Task with more than two participants can not be edited anymore after update**

Task request had to many parameters and failed.

This has been solved by stripping unnecessary parameters from request.

**45607 SUBJECT of vacation message will be enclosed in ""**

The subject was erroneously quoted if it wasn't RFC822 compliant.  
This has been fixed by encoding the subject only if it contains non ASCII characters.

**45608 Vacation rule and status not correctly displayed in filter rules tab after first creation**

The vacation notice is saved after leaving the settings pane. This leads to a wrong list of the available mailfilters if the update request of the vacation notice is pending.  
Solution: The update request of the vacation notice now triggers a refresh for the mail filter list if it is successful.

**45619 Search in mails on a mobile device adds the folder list for each click on the search icon**

Incomplete check in case email folder is mandatory.  
Adjusted this check to prevent the multi displayed folders.

**45623 Move/copy of files silently fail in over quota scenarios**

Error notification code used old API calls, which do not work any longer. Porter error handling code to new yell API

**45633 Sharing a document with the group 'guests' shows an error**

Unreadable error message was used.  
Now returning a human readable error message.

**45663 Real Name will not be used by default for Reply & Forward**

After changing the Real Name for the sender address this was not used for Reply and Forward emails.  
This has been fixed by setting the default for all possible ways to send an email.

**45675 Disable / enable the next and previous button in the mobile button bar**

Guided Tour was hanging on mobile if some apps were disabled.  
Now the navigation buttons in the tour are adjusted to avoid this problem.

**45692 Guided tours package not installed still shows link in menu**

Missing information about tour bundle led to showing the guided tour link every time.  
This has been solved by implementing a new check.

**45699 Calendar week numbering differs per view**

Use moment.format instead of manual calculation to determine the format of the week.

**45737 replay to an email - Realname cannot be changed**

Added handling for custom display names.

**45767 Accepting appointment via CalDAV converts internal into external participants**

Changed user and alias search to use utf8\_bin collation on mysql level to match umlaut domains.  
This is also case sensitive, but shouldn't in case of emails.  
This has been solved by using SQL-LOWER to be case insensitive when searching for mails.

**45778 Emoji do not display in an email in read mode**

Emoji were not displayed when reading emails.  
Keep unicode code points for Emoji characters on text2html conversion to solve this issue.

**45798 Quick Reply not correctly translated**

Fixed translation handling.

**45812 Contact with birthday on 1.1.1970 cannot be added, "invalid data"**

Wrong birthday validation without null-guard.  
Fixed validation by checking if birthday is a number.

**45819 Spam Experts integration not showing settings menu item after package installation**

Change to new extension points which were changed for 7.8.0.

**45842 greeting on welcome page does not contain user name for pl.PL**

Fixed translation files.

**45860 New -r parameter for deleteuser cannot be accessed via SOAP**

Deleteuser missed the reassign parameter.

This has been solved by adding optional reassign parameter to user soap interface.

**45868 Linked contacts and task within an email cannot be displayed**

Composite ID used slash as separator but apps expects a dot, so the link to a contact was broken.

This issue has been solved by replacing slashes by dots in link handler.

**45913 Timezone-Conversion issue on Birthdays**

Accidental conversion from utc to local timezone.

Now using utc to store birthdays.

**45926 Checkconsistency documentation is missing**

Enhanced help output for checkconsistency CLI by additional explanations and a footer text describing the meaning of options and in what order to set which options.

**45927 Errors on mobile login page**

Within the footer there are no languages or an Impressum shown for customized UI. Also some other small issues occurred with adjusted UI.

All these issues were fixed by adjusting the yell popups.

**45957 Semicolon delimiters don't work in distribution list after PE upgrade**

Fixed handling of the different separators.

**45986 Wrong appointment change mail directly after creating an appointment with active EAS**

EAS device sends its own invitation mail to all attendees. This leads to the mail about changes.

This has been fixed by blocking these invitation mails (but allow counter mails).

**46033 contact picture not scaled correctly directly after being added**

Fixed calculation so that also transparent png files are scaled correctly.

**46096 certain characters are not shown in UI**

Added force\_json\_response parameter.

**46098 SVL-0003 The provided cookie is invalid. Please login.**

Created an error blacklist, which errors will not appear. Added SVL-0003 (invalid cookie), LGI-0006 (wrong credentials) and SVL-0015.

**46099 Missing quota update when using `movecontextfilestore2user`**

When assigning a separate filestore to a user account, the corresponding quota information did not get updated in App Suite to match the new filestores configuration. This has been solved by advertising the correct quota to App Suite after moving a user.

**46103 Not possible to send mail with more than one comma in senders name**

It was not possible to send an email if sender name had more than one comma, eg.: "surname,,name".

This has been fixed by skipping empty strings when splitting addresses.

**46112 Disabling StartTLS command in `imap.properties` still uses TLS**

Option "`com.openexchange.imap.enableTls`" was not considered when establishing a connection

to IMAP server in 'com.openexchange.authentication.imap' bundle.  
This has been solved by considering "com.openexchange.imap.enableTls" option.

**46124 email gets fully deleted without user interaction (not moved to Trash)**

Fixed with several commits, already contained in 7.8.1.

**46226 drive/note: .txt added to filename while typing**

This was caused by our restore point mechanic. Instead of just saving the current values of the edit dialog, so it can be restored, it changed the attributes (added file extension etc.). This should only be done on a real save request.

**46232 Logout after changed vacation notice ends up in a white page**

Due to the logout a node becomes invalid which is needed for a refresh event.  
Now the refresh event is only triggered if the node is still valid to fix this issue.

**46252 Time difference for My latest files tile in portal - Drive**

Fixed wrong conversion from UTC to local time.

**46254 Issues with EmiG specific code and IDN**

Using IDN when sending E-Mail was an issue when using EmiG packages at the same time. This has been solved by adjusting the relevant code to deal with IDN when resolving the senders mail domain.

**46265 Vacation Rule in App Suite UI does not show duration if only Start or End Date is set, Sieve Rule will be changed accordingly**

Only if start and end date was available the timeframe was set.  
With this fix the timeframe can be activated even if only start or end date is available.

**46285 OX Text - some docx failed to load for editing**

document is not conforming to the specification. Now ignoring this attribute via xslt transformation.

**46289 Onboarding wizard - translations are missing**

Added new translations for the onboarding wizard.

**46305 Listpushusers always reports permanent=false**

Trackers were open before last service was registered.  
This has been solved by opening trackers after all services were registered.

**46312 External mail account disappears after password change, happens only for token login based installations**

Tokenlogin did not provide rampup data and external accounts were not loaded.  
This has been solved by adding a request to get the rampupdate when using tokenlogin.

**46321 translation feedback for ro\_RO**

Fixed by updating the translation files.

**46323 Google oauth confirmation page not displayed completely**

Add parameters to allow scrolling and resizing, this was an Internet Explorer only bug.

**46326 ERROR "Unknown column 'u.filestore\_id' in 'field list'" occurred while updating**

Query of columns that did not yet exist in non-updated database schema led to this error.  
Solution: Explicitly check for existence of queried column prior to executing SQL command.

**46346 Smtplib account information not shown**

Username and password were not shown for smtp settings.  
Now username and password is displayed always.

**46402 Mail widget for other internal email account did not get updated**

Removed some listener to resolve a race condition with the garbage collection.

**46449 Changing the Font Family will save it incorrectly**

Already fixed in the meantime.

**46481 Empty favorites folder for External accounts**

Undefined account was considered as proper error (true negative) to remove from favorites. Consider undefined account (in addition to folder not found and missing permissions).

**46482 Outlook Oxtender: Mail in Inbox unreadable after 2nd Reply**

Outlook stores more properties and made emails unreadable by deleting the old one and creating the new one with additional not supported information.

This has been fixed by creating only one header Content-Transfer-Encoding.

**46514 Mail not displayed in Appsuite-UI**

Custom single tag `time` was not interpreted correctly.

This has been fixed by adding single tag `time` to interpret custom html-tags correctly and display content.

**46533 Open-Xchange Report Client floods logs with hazelcast warnings**

Hazelcasts check for remote executions log on level WARN while it is just an INFO. Already fixed in hazelcast version 3.7 and will be fixed in an upcoming 3.6.x. But for now the log level of logging classes will be reduced dynamically for report generation.

**46544 Flickr getPublicPhotos API does not work**

`flickr.people.getPublicPhotos` expects `nsid`, not `username`; maybe the API was less strict here in the past. We now pass `nsid` over to `flickr.people.getPublicPhotos`.

**46563 Field position ignored when updating a filter rule**

Position field was not used during an update.

This has been fixed by properly using position field during update.

**46589 Inserting a mailfilter with position 0 and an empty list fails with BAD\_POSITION Exception**

It was not possible to create a filter rule with position 0.

Solution: Consider the rule position when adding a new rule.

**46591 Scrolling within a mailbox in list view is not working anymore after changing the folder**

Collection size gets reduced but `complete` flag is still true.

This has been fixed by resetting `complete` flag when shrinking large collections.

**46601 Birthday of contacts can not be removed**

Fixed birthday validation.

**46623 Automatic sign out - you end up sometimes on a white page**

Missing explicit page reload when the location path did not change.

This has been fixed by enforcing page reload when using redirect and the pathname doesn't change.

**46628 The facet "folder" is mandatory and has to be set**

Caused by a race condition which leads to a wrong used option.

**46636 client onboarding wizard translations unfinished / missing**

Added translation to packaging.

**46643 unified email shows create/delete folder while it's not working**

Fixed wrong delivered permissions from the backend.

**46654 List of contacts not displayed in address**

Contacts are sorted based on a string constructed by different properties of a contact. In case of an unnamed distribution list, there's the possibility that this string is null.

Solution: Fall back to an empty sort name in case of unnamed distribution lists.

**46679 with 7.8.1 a lot of additional SETMETADATA/LIST/LSUB IMAP commands while Login**

Avoid superfluous SETMETADATA/LIST/LSUB IMAP commands.

**46709 Appointments added after October 31, 2016 did not get displayed (only if Language is set to German)**

Already covered by bug #45296.

**46719 html signatures are not working with "Courier new" or "Andale Mono" or "Comic Sans MS"**

Fixed meanwhile. Culprit was stripDataAttributes().

**46733 monthly view in calendar hides some appointments**

Already covered by bug #45296.

**46779 Signature appears below quoted text instead above**

Added a workaround for the interaction with TinyMCE.

**46785 OX Pagination issue in UI**

Use 'com.openexchange.mail.api.IMailMessageStorageExt' interface for efficient retrieval of header names.

**46805 special use folder ignored**

Added an initial special use check for primary mail account. See also Change Request #3413.

**46821 client-onboarding-syncapp.properties points to an unsupported Google PlayStore App by default**

Removed not very meaningful default value.

**47012 calendar appointment exceptions not upsynced to OX**

Start/End date were overridden if only one of them is set on exception create. Fixed by just override missing values.

**47083 Filter message rules translation issues**

Fixed translation.

**47120 error message on repair\_configdb**

After refactoring for another bug an incorrect print method was used for the repair\_configdb action.

## 5 Changes relevant for Administrators

### 5.1 Changes of Configuration Files

**Change #3356 Added option to allow implicit checking for a login IDN representation**

Chrome Browser implicitly passes the ACE notation for IDN domains. Added option `com.openexchange.ajax.login.checkPunyCodeLoginString` (Default: `false`) to file `login.properties` in order to allow implicit checking for a login string's IDN representation if it appears to be in ACE notation and login attempt failed with LGI-0006 error code.

**Change #3355 Updated `object_link` default value**

Changed the default value of `object_link` in `notification.properties` to comply with current UI implementations for deep links.



**Change #3350 Dropped -XX:+DisableExplicitGC JVM argument as default**

Dropped `-XX:+DisableExplicitGC` JVM argument from `ox-scriptconf.sh` file to mitigate Java Bug #8142537. See <https://bugs.openjdk.java.net/browse/JDK-8142537> for more details.

**Change #3345 Introduce audit log for issued IMAP commands**

Introduce audit log for issued IMAP commands, which can be enabled via property `com.openexchange.imap.auditLog.enabled` in file `imap.properties` (Default: `false`). If enabled, the class `com.sun.mail.imap.AuditLog` is used to provide a static SLF4J logger, which can be configured via `logback.xml` config file. As tracked IMAP commands are logged with `INFO` log level, there is usually no need for additional changes to `logback.xml` config file.

**Change #3343 Added option to specify root-folder capability**

Testing for root sub-folder capability through creating a probe folder on login might yield problems in underlying storage of used mail service. Added option `com.openexchange.imap.rootSubfoldersAllowed` (Default: `empty`) to file `imap.properties` to specify whether root sub-folder capability is available for primary account or not. If either `true` or `false` set, it enforces whether to assume root sub-folder capability for primary account. If not set, root sub-folder capability is probed through creating a temporary folder as usual.

**Change #3331 New Property to limit spreadsheet formula complexity**

To avoid a crashing or blocking browser the number of formulas in a spreadsheet document can be limited. This can be configured via `io.ox/office//spreadsheet/maxFormulas` (Default: 10000).

**Change #3327 Enhanced IMAP authentication bundle for context lookups**

Enhanced file `imapauth.properties` by property `USE_FULL_LOGIN_INFO_FOR_CONTEXT_LOOKUP` (Default: `false`). If set to `true`, the full login string is used to look-up the associated context, e.g. if the context name equals `jane.doe@example.com`.

**Change #3312 New properties to limit downloads for links/guests**

New configuration file `download.properties` was added to the `open-xchange-core` package. It allows to control a anti-abuse mechanism to limit downloads for anonymous and named guest users. Limits can be defined for named and anonymous guests on a per size/count base for a given time frame. Per default this feature is disabled.

**Change #3266 Introduced new configurations for mail categories**

New configuration file `mail-categories.properties` to allow configuration mail categories.

**Change #3265 Added new properties file for options related to mail compose**

Added new properties file `mail-compose.properties` for options related to the mail compose dialog.

**Change #3255 Introduced a configurable limit for the RSS feed size**

When adding an RSS feed, the provided XML file is checked for validity (XML headers), but it's downloaded and parsed regardless of its size and content. This can lead to service unavailability and the cause is quite hard to discover since a very usual and tiny request can be used to trigger excessive system usage. Therefore, introduced a configurable limit at `rss.properties`, `com.openexchange.messaging.rss.feed.size` (Default: 4194304 (4MB)). RSS feeds larger than that limit will not be added but rejected.

**Change #3254 Added black/white-list hosts and ports for external mail accounts**

Semantic and description for `com.openexchange.mail.account.blacklist` in `mail.properties` was changed to also accept host names, not only IP addresses/IP address ranges. Default value was changed to `127.0.0.1-127.255.255.255, localhost`. Introduced `com.openexchange.mail.account.whitelist.ports` in `mail.properties` to specify a white-list for such ports that are allowed to connect against when setting up/validating an external mail account.

**Change #3252 New options to limit memory usage for PDF conversion**

The currently used, external PDF tool to create pixel graphics from single pages of PDF documents, that is executed by the DocumentConverter bundle implementation, didn't have any mechanism to limit the amount of used resources/memory for each started, external graphics conversion. We learned from customer feedback, that the amount of consumed memory seems to be extremely high from time to time, depending on the given (and maybe invalid or compromised) PDF input document. A configurable mechanism had to be implemented to let the customer choose the maximum size of virtual memory, that a started external PDF tool process is allowed to consume at runtime. A new config item `com.openexchange.documentconverter.pdftoolMaxMemMB` (Default: 1024) has been added to the `documentconverter.properties` configuration file to allow the customer to limit the maximum amount of virtual memory, that an externally started PDF tool process is allowed to consume. If the given limit is reached, the process will immediately terminate and throw an exception in general, that is accordingly handled by the DocumentConverter implementation. If the item is set to `-1`, there will be no memory limit for the process. Any other positive value is treated as amount of Megabytes. The value should not be set below values of 50 (MegaBytes) to avoid immediate termination of a conversion process.

**Change #3248 Added properties for Grizzly HTTPS network listener**

The file `grizzly.properties` has been adapted to allow specifying a key-store and other HTTPS related options.

- `com.openexchange.http.grizzly.hasSSLEnabled` (Default: false)
- `com.openexchange.http.grizzly.enabledCipherSuites` (Default: empty)
- `com.openexchange.http.grizzly.keystorePath` (Default: empty)
- `com.openexchange.http.grizzly.keystorePassword` (Default: empty)

With this functionality it's possible to use encrypted connections between load-balancers and middleware nodes. The file `server.properties` has been enhanced with the `com.openexchange.connector.networkSslListenerPort` (Default: 8010) option.

**Change #3246 STARTTLS properties**

Added `mailStartTls` (Default: false) and `transportStartTls` (Default: false) properties to `mail.properties`. These parameters are used when connecting to the primary mail/transport server. Only takes effect when properties `com.openexchange.mail.mailServerSource` or `com.openexchange.mail.transportServerSource` are set to `global`.

**Change #3244 Introduce configuration settings for a periodic checksum cleaner**

Options `com.openexchange.drive.checksum.cleaner.interval` (Default: 1D) and `com.openexchange.drive.checksum.cleaner.maxAge` (Default: 4W) have been added to `drive.properties` to define the lifetimes for calculated checksums.

**Change #3226 Changed module access combination for drive**

The `drive` module access combination in file `ModuleAccessDefinitions.properties` has been changed to consist of the following permissions:

- `infostore`
- `deniedportal`
- `contacts`
- `collectemailaddresses`

In a nutshell, the `readcreatesharedfolders` and `editpublicfolders` permissions were removed. Moreover, `contacts` and `collectemailaddresses` permissions have been added for a better user experience with regard to sharing.

**Change #3225 New property to prioritize thumbnail generation**

New property `com.openexchange.tools.images.transformations.preferThumbnailThreshold` (Default: 0.8) has been added to `server.properties` to control the threshold at which a embedded

thumbnail is preferred over a newly generated one.

**Change #3219 Removed unused maximum participants setting**

Removed unused config parameter `com.openexchange.participant.MaximumNumberParticipants` from `participant.properties`.

**Change #3260 Added black/white-list hosts and ports for RSS feeds**

When adding a RSS feed, the provided feed URL will be checked against the configuration of `com.openexchange.messaging.rss.feed.blacklist` (Default: 127.0.0.1-127.255.255.255, localhost) and `com.openexchange.messaging.rss.feed.whitelist.ports` (Default: 80, 443), defined in `rssmessaging.properties`.

**Change #3405 New configuration parameter to disable timezone updates for iCal**

The `com.openexchange.ical.updateTimezones` (Default: true) property has been introduced to `server.properties`.

**Change #3409 Removed default value of Android sync app store URL**

Removed the `com.openexchange.client.onboarding.syncapp.store.google.playstore` default value to avoid potentially wrong references.

**Change #3413 Introduced a configuration to initialize the primary mail account with special-use folders**

Introduced the `com.openexchange.imap.initWithSpecialUse` property to `imap.properties`.

**Change #3414 Changed comment about emClient capabilities for onboarding**

Updated the list of required capabilities for emClient at `client-onboarding-scenarios.yml`.

**Change #3417 Changed `object_link` default value**

The change from Change-Request 3355 caused invalid calendar links and needed to be adjusted. Therefore the default of the `object_link` property got updated at `notification.properties`.

**Change #3421 Removal of "publish on exceeded quota" feature**

Due to removal of "publish on exceeded quota" feature, the following properties were dropped from `transport.properties` configuration file:

- `com.openexchange.mail.transport.enablePublishOnExceededQuota`
- `com.openexchange.mail.transport.publishPrimaryAccountOnly`
- `com.openexchange.mail.transport.sendAttachmentToExternalRecipients=false`
- `com.openexchange.mail.transport.provideLinksInAttachment=false`
- `com.openexchange.mail.transport.publishedDocumentTimeToLive=604800000`
- `com.openexchange.mail.transport.externalRecipientsLocale`

**Change #3061 New text config property added for the maximum page number that is allowed to be pasted as inline-html content into a newly created e-mail**

Configuration file `office.properties` is enhanced by property `io.ox/office//module/sendAsHtmlMaxPageCount`. If the server configuration item is missing, this fallback defaults to 10. A server configuration value beneath 0 will be ignored, it defaults to 0. A server configuration or default value of 0 disables the send-as-html feature.

## 5.2 Changes of Database Schema

**Change #3282 Introduced a "file-store to user" mapping at `configDB`**

Finding a suitable file store for a context which is about being created requires to iterate every available database schema to ensure actual occupation of file stores as there might be individual

users assigned to it. We introduced a “file-store to user” mapping at the `configDB` schema in table `filestore2user` in order to avoid such very long running threads. Detecting necessary file store statistics is now performed within a few milliseconds.

**Change #3276 Extend the value column of user\_setting table from 64KB to 16MB**

Extending that column from TEXT (64KB) to MEDIUMTEXT (16MB) helps to avoid data truncation. This change is performed by the update-task `com.openexchange.groupware.update.tasks.UserSettingMediumTextTask`.

**Change #3195 Added starttls column to mail account related tables**

Added `starttls` column to `user_mail_account` and `user_transport_account` tables. Default is false. This change is performed by the update-task `com.openexchange.groupware.update.tasks.AddStartTLSColumnForMailAccountTablesTask`.

**Change #3430 Added new table to track the size and number of downloaded files per user/guest**

This change is performed by the update-task `com.openexchange.download.limit.rdb.FileAccessCreateTableTask`.

**Change #3431 Follow-up update task to drop unused stored procedures in USM**

Update-task to drop unused stored procedures `get_sequence_usmSessionId_id` and `get_sequence_usmIdMapping_id`. This change is performed by the update-task `com.openexchange.usm.database.ox.update.USMDeleteStoredProceduresUpdateTaskV2`.

**Change #3332 Add uuid column to table driveEventSubscriptions**

The primary key for the table `driveEventSubscriptions` needs to be adjusted; as preparation, a new column is added. This change is performed by the update-task `com.openexchange.drive.events.subscribe.rdb.DriveEventSubscriptionsAddUuidColumnTask`.

**Change #3404 (cid, uuid) primary key in table driveEventSubscriptions**

Primary key needs to be adjusted to allow multiple subscriptions per token. This change is performed by the update-task `com.openexchange.drive.events.subscribe.rdb.DriveEventSubscriptionsAddUuidColumnTask`.

## 5.3 Changes of Command Line Tools

**Change #3349 Added missing command-line options to logincounter CLI**

Added missing command-line options to `logincounter` CLI to be able to specify JMX port, login and password.

**Change #3333 Added missing command-line options to showruntimestats CLI**

Added missing command-line options to `showruntimestats` CLI to be able to specify JMX port.

**Change #3258 Applied generic admin command-line options to allpluginsloaded**

Added typical command-line options to `allpluginsloaded`.

**Change #3231 Extended deleteuser cli with reassign and no-reassign parameter**

Two optional parameters have been added to the `deleteuser` CLI.

- `-r, --reassign` The user id shared data will be assigned to. If omitted the context admin will be used instead.
- `--no-reassign` If set all shared data will be deleted instead of being assigned.

This enables administrators to remove shared data or re-assign shared data to other users.

## 5.4 Changes of Behaviour

**Change #3339 User-setting for the Address Book to always start in GAB**

Often the private “My contacts” folder is quite uninteresting (because empty) and the user would

rather use the Global Address Book (GAB). This setting is now enabled by default, the GAB is opened at first instead of "My Contacts". Users can control this behaviour within the Settings area of the Contacts App. At the server-side, a configuration option has been added: `io.ox/contacts//startInGlobalAddressbook` (Default: empty).

#### **Change #3201 Additional statistics for the datamining tool**

Added statistics related to usage of external accounts. Added statistics related to draft mail usage at the database.

#### **Change #3422 Removal of "publish on exceeded quota" feature**

The former "publish on exceeded quota" feature has been removed from feature set. The new "Drive Mail" feature is supposed to be used instead.

#### **Change #3444 Optimized communication to IMAP server**

Optimized communication to IMAP server to execute less IMAP commands. Noteworthy behavioral changes:

- Got rid off CLOSE and UNSELECT commands. When switching to another mailbox, that mailbox gets simply SELECTED or EXAMINED. There is no need to explicitly CLOSE/UNSELECT the previously selected mailbox
- Use SASL-IR capability when performing AUTH=PLAIN authentication. That is to pass initial client response
- Avoid excessive LIST commands

Those optimizations also remove a significant amount of NOOP commands which were triggered due to library issues. As those issues have been resolved they became obsolete. This saves 30-50% of IMAP commands in total.

## **5.5 Changes of Packaging**

#### **Change #3286 Removal of calcengine packages**

The calcengine C++ backend is not needed anymore as a separate package and process, since this functionality has been implemented by the client code. As a result, calcengine related packages and configuration files are not longer shipped and existing ones become obsolete when updating.

#### **Change #3416 Removal of io.ox/ads API from open-xchange-appsuite package**

During development it turned out, that the io.ox/ads framework would be of more use to our custom development team, and other development teams too, if it was released more often. In order to implement an independent release cycle for this framework, it has been extracted from the core repository and moved into a separate one. This allows individual releases, which can be aligned closer to the demands of the development teams making use of the framework. The framework will be released as open-xchange-appsuite-ads in the future and developed in <https://code.open-xchange.com/git/wd/frontend/ads> repository. More details can be found in the developer documentation.

#### **Change #3428 OX DocumentConverter installs and runs as separate service**

Separation of OX App Suite Middleware (backend) and OX DocumentConverter in different JVMs increases reliability of each component and reduces footprint of separately installed services. The OX Documentconverter Server is installed with package open-xchange-documentconverter-server. Client access to the service used by the middleware is installed with open-xchange-documentconverter-client.

Configuration of the client-side middleware properties is located in the file `/opt/open-xchange/etc/documentconverter-client.properties`

Configuration of the OX DocumentConverter Service is located in the directory `/opt/open-xchange/documentconverter/etc`. Especially `documentconverter.properties`, `logback.xml` and items found in `overwrite.properties` determine the values used by the service. Otherwise the default folder of

the middleware is used.

Most notable changes are the listening ports (HTTP 8008, HTTPS 8011 and JMX 9998) which have to be different from those reserved for the middleware. Apache configurations have to be adapted accordingly.

`open-xchange-documentconverter-server.service` has to be enabled and started independently of the middleware.

For a description of manual adjustments needed after an upgrade to 7.8.2 see <https://oxpedia.org/wiki/index.php?title=AppSuite:DocumentConverterUpdate782>.

## 6 Changes relevant for Developers

### 6.1 Changes of the HTTP API

**Change #3310 New boolean parameter `try_add_version` for `files?action=new`**

If set to true, a new version is added if a file with the same name already exists in the folder.

**Change #3268 Introduced new API for mail categories**

To support mail categories, the API `/ajax/mail/categories` has been introduced. It provides the `move`, `unread` and `train` actions. Please refer to our API documentation for more details.

**Change #3267 Introduced `categoryid` parameter for mail `all` action**

To support mail categories, the existing `all` action for mail has been extended by the `categoryid` parameter. Please refer to our API documentation for more details.

**Change #3207 Added `force_secure` flag to mail `autoconfig` action**

Auto-configured mail accounts may use insecure, for example unencrypted, connections. Added the optional `force_secure` parameter to the `autoconfig` action to force secure connections and abort auto-configuration if no secure connection could be established.

**Change #3194 Added `mail_starttls` and `transport_starttls` parameters for mail account data**

New options have been introduced to allow specifying if external accounts shall use plain-text communication, SSL ports or default ports with STARTTLS.

**Change #3403 Extended `com.openexchange.file.storage.mail.mailMetadata`**

The following (read-only) extended file field is introduced for infoitems: `com.openexchange.file.storage.mail.mail`  
Column ID: 7030, Type: Object.

See [https://documentation.open-xchange.com/7.8.2/middleware/http\\_api/http\\_api03.html#detailed-infoitems](https://documentation.open-xchange.com/7.8.2/middleware/http_api/http_api03.html#detailed-infoitems) for details. The field is only available in the `maildrive` file storage, files from other storages will always return NULL here.

### 6.2 Changes of the Java API

**Change #3304 Extended `MailAccountStorageService` with transport-only mail accounts**

The following methods have been added:

- `getTransportAccount(int accountId, int userId, int contextId, Connection con)`
- `getTransportAccount(int accountId, int userId, int contextId)`
- `getTransportByPrimaryAddress(String primaryAddress, int userId, int contextId)`
- `insertTransportAccount(TransportAccountDescription transportAccount, int userId, Context ctx, Session session)`

- `updateTransportAccount(TransportAccountDescription transportAccount, int userId, int cid, Session session)`
- `deleteTransportAccount(int id, int userId, int contextId)`

### Change #3401 New library for improved IPv6 handling

The bundle `com.openexchange.net` now exports new classes (provided by a 3rd party library) to deal with IPv6 addresses. Details about the library can be found here: <https://github.com/janvanbesien/java-ipv6>.

## 6.3 Changes of the SOAP API

### Change #3288 Added optional `reassign` parameter to OXUser SOAP interface

The `Delete` and `DeleteMultiple` calls of the OXUser endpoint now provide an optional parameter to reassign shared data to another user in case the original user gets deleted. Provide the user-id of the user to whom folders shall be reassigned to, send 0 to enforce the default and send -1 to use the "no-reassign" method, which means deleting the affected folders.

## 6.4 Changes of the RMI API

### Change #3232 Added enhanced delete methods to OXUserInterface with `destUser` parameter

The interface lacked the possibility to reassign shared data to a different user than the context admin or to delete it. This has been solved by adding the `destUser` parameter to the `code` method for users. New method signatures:

- `delete(final Context ctx, final User[] users, Integer destUser, final Credentials auth)`
- `delete(final Context ctx, final User user, final Integer destUser, final Credentials auth)`

## 7 Tests

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

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

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

## 8 Fixed Bugs

31582, 31691, 35197, 40540, 40871, 42364, 42442, 42633, 43121, 43929, 44168, 44214, 44275, 44315, 44380, 44551, 44599, 44636, 44705, 44708, 44711, 44809, 44818, 44836, 44854, 44855, 44877, 44888, 44923, 44943, 44957, 44968, 44997, 45048, 45078, 45081, 45083, 45132, 45157, 45163, 45209, 45210, 45225, 45228, 45239, 45273, 45287, 45296, 45306, 45308, 45319, 45334, 45361, 45335, 45348, 45356, 45362, 45391, 45436, 45446, 45472, 45502, 45507, 45516, 45529, 45530, 45553, 45554, 45583, 45607, 45608, 45619, 45623, 45633, 45663, 45675, 45692, 45699, 45737, 45767, 45778, 45798, 45812, 45819, 45842, 45860, 45868, 45913, 45926, 45927, 45957, 45986, 46033, 46096, 46098, 46099, 46103, 46112, 46124, 46226, 46232, 46252, 46254, 46265, 46285, 46289, 46305, 46312, 46321, 46323, 46326, 46346, 46402, 46449, 46481, 46482, 46514, 46533, 46544, 46563, 46589, 46591, 46601, 46623, 46628, 46636, 46643, 46654, 46679, 46709, 46719, 46733, 46779, 46785, 46805, 46821, 47012, 47083, 47120, 45295, 45312, 45328, 45364, 45366, 45401, 45402, 45796, 46026, 46630, 46688, 45405, 46894, 47062, 46484, 45363, 45811, 46025, 45386, 46897,