# **Release Notes for Release** 7.8.1

April 6, 2016

# Copyright notice

# 1   Shipped Product and Version

Open-Xchange Middleware 7.8.1-rev7

Open-Xchange App Suite frontend 7.8.1-rev7

Open-Xchange OX6 frontend 6.22.11-rev7

Open-Xchange USM 7.8.1-rev7

Open-Xchange EAS 7.8.1-rev7

Open-Xchange OXUpdater 7.8.1-rev7

Open-Xchange Drive Restricted 7.8.1-rev7

Open-Xchange Documents 7.8.1-rev7

Open-Xchange Documents Frontend 7.8.1-rev7

Open-Xchange Documents Communication 7.8.1-rev7

Open-Xchange Calcengine 7.8.1-rev7 (1.5.1081)

Open-Xchange Readerengine 7.8.1-rev7 (5.0.5)

Open-Xchange Documentconverter 7.8.1-rev7

Open-Xchange Documentconverter API 7.8.1-rev7

Open-Xchange Drive Help 2.0.0-rev1

Open-Xchange Drive for Windows 2.0.0

Open-Xchange Updater 6.18.31

Open-Xchange OXtender for Microsoft Outlook 7.2.21

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`

# 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 v7.8.1 and OX Documents v7.8.1 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.

**Client Onboarding Wizard**
OX App Suite v7.8.1 now comes with an advanced, and often requested, wizard that lets OX App Suite users easily configure their mobile and desktop devices. End-users can now configure any supported device by simply selecting the desired device, choose the operating system for that device and the wizard automatically does the configuration.

**OX Mail and OX Calendar Improvements**

OX App Suite 7.8.1 provides several updates for OX Mail inside the OX App Suite web frontend. This includes the quick-reply function and improvements to the general usability of mail list browsing. The calendar now provides the ability to create follow-up meetings with just a single click.

**OX Text and OX Spreadsheet Portal enhancements**

OX Text and OX Spreadsheet now offer a list of recently used text and spreadsheet documents. Very often recently used documents are also the documents a user wishes to open and work on. For this reason OX Text and OX Spreadsheet users are now presented with a list of recently opened documents.

**Improved PDF support in OX Documents Viewer**

With this release the OX Documents Viewer makes hyperlinks in a PDF documents clickable. Also annotations such as comments or drawings are now also displayed in the viewer. This allows users to view documents and take further actions without the need to download PDF files.

**OX Presenter handles PDF**

OX Presenter was introduced together with OX App Suite 7.8.0 and allows users to present Power-Point presentations. With this release OX Presenter takes another step forward by providing the ability to present PDF document too.

A more detailed overview of all the improvements to OX App Suite v7.8.1 and OX Documents v7.8.1 can be found at: `https://www.open-xchange.com/portfolio/what-s-new`

**Announcements**

Open-Xchange encourages administrators to regularly update to the latest available release. In order to ensure a stable and up to date environment please note the different supported versions. An overview of the latest supported Major, Minor and Public Patch Releases can be found in the Knowledgebase at: `http://oxpedia.org/wiki/index.php?title=AppSuite:Version_Support_Committment`

In accordance with the supported platform policy, Open-Xchange announces the discontinuation of Internet Explorer 10 support for OX App Suite web frontend. This comes in with the release of OX App Suite v7.8.1. For details of all supported browsers please refer to the requirements page at: `http://oxpedia.org/wiki/index.php?title=AppSuite:OX_System_Requirements#Desktop_Browser_.28Minimum_display_resolution:_1024_x_768.29`

In accordance with the supported platform policy, Open-Xchange announces the discontinuation of support for Suse Linux Enterprise Server 11 (SLES 11) and Debian Wheezy with an upcoming release of OX App Suite, planned for Q4 2016. We encourage administrators to update to the latest operating system version, Suse Linux Enterprise Server 12 (SLES 12) and Debian Jessie. 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`

Regarding the integration between OX App Suite and social networks like LinkedIn, Facebook and T-Online, we would like to notify you of some API changes which affect this integration. See here for more details: `http://oxpedia.org/wiki/index.php?title=AppSuite:Versioning_and_Numbering#Please_Note_-_Additional_Information`

# 3   Bugs fixed with this Release

This section provides a summary of bugfixes and changes that have been applied  subsequently to shipping Release 7.8.0.  Some of the announced bugfixes may have already been fixed at the existing code-base via Patch Releases.

**37729   Two occurrences of a recurring appointment synced**

When using Exchange Active Sync and creating a recurring appointment, those were created twice in case the device chose to create and change the appointment within the same request. This has

been solved by handing this specialitiy.

### 38476    Mails can not be deleted via EAS/OLOX
SPECIAL-USE marked entries were not check if existent.
This has been fixed by also checking existence of SPECIAL-USE entries.

### 38603    Unable to send Mails when individual recipients are rejected
User cannot send mails to more than one recipients in case 1 recipient get rejected. Missing option to specify whether partial send is allowed or not.
Added option "com.openexchange.smtp.sendPartial" to file 'smtp.properties' to allow partial send in case one or more (but not all) recipients are considered to be invalid on message transport to fix this issue.

### 39345    Active documents are not restored in certain cases
Once the default application after login is set to "none", restoring documents after pressing F5 will not work. This has been solved by implementing the "reload" restore feature for OX Documents.

### 41289    Umlauts not displayed correctly on iOS devices
When using EAS to synchronize mail, certain character sets within the mail can lead to incorrectly displaying non-ascii characters on iOS devices. This has been solved by adding a proper fallback charset in case such mails are processed.

### 41337    NullPointer at ConvertFromClientToUTCOperationXmlType.writeToXML
In case a Exchange Active Sync client sent empty values for the mandatory start- and end-date parameter, a null reference was caused. This has been fixed by validating input before processing the data.

### 41441    Empty window when (not) downloading connector
Missing download property caused displaying a new open window and a download menu. After clicking Cancel an empty screen remains.
This has been fixed and no additional popup is displayed.

### 41444    Calendar- typing error when adding new calendar
Typo "entprechende" instead of "entsprechende" is now fixed.

### 41462    Misleading error message on failure when sending to multiple recipients
In case multiple SMTP exceptions are chained, the very first SMTP response information was considered. But that first exception might carry the successful send result for a valid recipient.
This has been fixed by properly determine the actual SMTP error from chained SMTP exceptions and display it.

### 41486    Unclear folder properties details
The term "item" might suggest that it also counts folders.
This has been fixed by using "Number of messages" for mail folders.

### 41499    OX crashes on 1-N Hosts - permanent GC pauses
There's a concurrency problem at
`com.javacodegeeks.concurrent.ConcurrentLinkedHashMap.HashEntry.addBefore(HashEntry<K, V>)`.
If the underlying map is using an eviction policy that does not require insertion based ordering, new values are put into the target segments without acquiring the necessary locks. This leads to the possibility where the predecessors / successors of the linked list nodes getting changed concurrently, which effectively splits the linked list into multiple parts and breaks the iterator. Since outdated entries are removed based on iterating those lists from their head element, we get more and more orphaned elements in disconnected sublists over time that never get evicted.
This has been fixed by switching to a Guava based cache with proper eviction to manage the rate limiter slots. A further optimization avoids superfluous creation of instances used for rate limit checks. Additionally, introduced dedicated monitoring for the rate limiter.

### 41506 "Kein Empfänger" within from filed
Empty mail information in case a mail gets deleted from a mailbox which was about being retrieved. This has been fixed by introducing validity check for retrieved mails and ignore those which apparently do not hold consistent information.

### 41510 Drive: comment of a new version is not displayed
If filestore does not support versioning, a version comment was never displayed.
This has been fixed by introducing a new property: disable dropdown action. With this option the Sidepanel action does not show dialogue after file selection.

### 41520 Secondary launchers might run into wrapping issues
When adding new launchers to App Suite top bar, the right hand side status icons could be affected by a line-wrap. This has been solved by calculating the width of an element by substracting the available width beforehand.

### 41560 Sending mails from external IDN-mail account not possible
Failed to resolve an E-Mail address to an associated IDN mail account.
This has been fixed by prefering to resolve the IDN-representation for an E-Mail address to an associated mail account, fall-back to ACE representation if none found.

### 41583 Appointment series cannot be moved( user is (the only) attendee)
Moving appointment series to an other calendar failed if the appointment conflict with an other one.
This was fixed by executing the move request after conflicts dialog was closed with 'ignore conflicts'.

### 41600 Can't add subscriptions anymore
Subscriptions were disabled with the new sharing concept.
Now indicate "subscription" and "publication" capabilities dynamically to allow 3rd party services like Yahoo or LinkedIn for subscription.

### 41612 Sharing mail folders is enabled without ACL-capability on IMAP-server
It was possible to add users to share IMAP-folders even if the IMAP-server does not provide ACL-capabilities.¡para¡This has been fixed by adding ACL check for mail folders. Now sharing mail folders is not possible if it is not supported.

### 41617 The drive folder "Online Speicher" shows an icon "Dieser Ordner enthält Abonnements"
A common parsing routine of the App Auite client was adjusted to include an additional array element for the "list" request in the folder module. This same parsing routine is also used for parts of the initial "rampup" response, which did not yet provide this additional array element. Due to missing type checks, the value of the next array element was interpreted to "true".
This has been fixed by including column 318 in app suite rampup for folder list.

### 41627 Copyright and trademark characters are transformed to Emojis
Icons like the trademark or copyright sign have been transformed to a graphical representation. Since those signs are typically used as normal plain-text elements it could lead to issues when using copy&paste. Therefor we excluded those signs from being transformed to emoji.

### 41632 'Email' and number of unread mails are not in one line
App name and counter were not properly aligned.
This has been fixed with a vertical-align baseline.

### 41636 Very high DB Load
This bugfix introduces a new update task that re-performs the schema modification and changes the CREATE TABLE statements accordingly: Slow logs reveal `SELECT COUNT(*) FROM prg_dates_members WHERE (cid = ?  AND pfid = ?);` as a prominent candidate.
Further investigations revealed that an index was missing in the CREATE TABLE statement for the "prg_dates_members" table.
Therefore: Ensure (cid, pfid) exists on tables "prg_dates_members" and "del_dates_members".

**41638   Invalid operations are not disabled for external special-use folders**
While operations like "delete" or "rename" are not offered for IMAP folders that carry the "special-use" flag, those options were available for external mail accounts, where "special-use" was present for specific folders. This has been changed in a way that folders at external accounts are handled the same way.

**41654   Tokenlogin leads to unexpected login behaviour**
In specific customer cases, token-login collides with requirements of auto-login. This has been worked around by adding a optional parameter "token.autologin" that surpresses a auto-login attempt by OX App Suite UI.

**41681   Error OX-9999 in ox6 ui after updating to 7.8.0**
Cache class does not offer a reliable put-if-absent methods leading to race conditions.
Solution: Refactored LockServiceImpl to use "com.openexchange.concurrent.TimeoutConcurrentMap", which provides proper put-if-absent methods.

**41687   Cloudmark spamhandler fails for specific sender addresses**
When marking mails as spam that have corrupt "from" headers, the Cloudmark spam handler implementation failed to forward the mail to Cloudmarks services. This has been solved by skipping OX internal header-parsing attempts and setting a envelope sender address when forwarding a potential Spam mail to Cloudmark.

**41703   Configjump.yml issues with 7.8.0**
Settings uses a hierarchy now but support to define a top-level "group" was missing. This has been added.

**41706   Autocomplete search for drive cannot be disabled**
In case specific environments and integrations do not support auto-complete of search strings for the file store, that feature can be disabled. However, the related property was incorrectly parsed by the App Suite UI and the search box was shown to users nonetheless. This has been solved by properly applying the "io.ox/core/search/modules" parameter.

**41709   Portal mail widget is empty**
After moving mails to inbox, the inbox collection is set to expired and is cleared. Afterwards, the widget collection did not contain any mails which results in the unexpected message: 'No mails in inbox' and no email is displayed in the portal widget.
This has been fixed by reloading mail data when collection is set to expired. This fix does also include the handling, when mails are moved to the folder which is displayed in the portal. The target folder is then updated.

**41710   Moving recurring appointment to other folders modifies dates**
When moving a conflicting recurring appointment to another folder, incorrect listeners were triggered that could modify the appointments end date and timezone. This has been solved by normalizing the related API calls and correctly handling conflicts.

**41711   Save and Cancel buttons move with the viewport when editing notes**
Due to a browser bug in Chrome/Webkit, the Save and Cancel buttons were scrolled out the the viewport when editing long texts at the "notes" dialog. This has been solved by implementing a workaround.

**41712   Unnecessary calls made by drive access causing high load since 7.8**
Unnecessary loading of file meta-data as well as unnecessary pre-conversion trigger.
This has been fixed by only reloading file meta-data if necessary and only trigger pre-conversion for valid and supported files.

**41723   ERROR Message='File upload failed: new'**
Introduced Grizzly configuration options for connection settings, SCR 2864.

### 41725    Renaming archive folder throws inconsistent error message

It was able to rename the "Archive" folder at App Suite UI while this action gets blocked at the middleware. As a result, this led to unexpected errors when trying to rename the folder. The middleware now provides the correct permissions for that specific folder.

### 41752    Proper user name not used on vacation reply

When creating vacation notes, the "from" attribute was not added to the SIEVE filter. As a result, automated replies did only use the plain mail address. The "from" tag has been introduced now and more information is available at Change #2814.

### 41755    No filename for vcard in composer

In the compose window you don't see a filename for added vcard from address book.
Now the filename is visible in preview mode.

### 41780    "restorecontext" cannot restore specific database dumps

When trying to restore specific context using the "restorecontext" command-line tool, that call could fail in case multiple INSERT statements for the same table are present at the database dump. This has been solved by handling such dump files. Due to privacy reasons we were unable to reproduce the issue or verify the fix on our own, this needs to be performed by the requesting customer.

### 41783    Very high load on groupware nodes which cause timeouts

Extensive locking might prevent image transformation tasks from being executed, which in turn leads to HTTP requests that are waiting for their image stacking up. As a solution we're now avoiding locking in managed file management. While we think this is a necessary solution, validation has to be performed in production to be certain.

### 41785    Multi-lingual error message on calendar import

When importing a .ical file to the calendar and conflicts happen, the resulting warning is presented in German and English language. This has been solved by updating the translation string.

### 41792    Contact data not shown in mail compose

When using IE and the alternative mail compose and selecting a contact from the address book, the corresponding mail address is not fully shown at mail compose. This has been solved by updating the related regular expression to work with IE.

### 41799    Switching signatures moves text

When having multiple signatures that contain the "above text" property, additional new-lines are added at the start of the quoted text when switching signatures. This has been solved by properly identifying the position of the cite.

### 41800    E-Mail address cut-off in mail compose

When using the alternative mail compose and typing a long mail address, the resulting text is cut. This has been caused by incorrect calculation of the input boxe size and solved by fixing the related bootstrap library. Note that this has been solved for Firefox but not for Edge yet since that fix is more invasive.

### 41803    BCC missing when printing mail from "Sent" folder

When printing a E-Mail from the "Sent" folder, BCC information is not available on the printed version. This has been solved by considering this token on the print template.

### 41811    Selector for recurrence pattern closes automatically

When creating a recurring appointment and chosing the weekly pattern, a user may select multiple days on which this appointment shall occur. The related selection popup closes after selecting a entry, this has been observed to be an issue for some users. As a solution, this popup now stays open until clicking somewhere else at the dialog.

**41818    Guided Tour: bubbles misaligned missing, text hiding areas which are being explained**
Adjusted some behavior, now some disturbing effects are fixed.

**41820    Incorrect end-date when modifying appointment range**
When using multiple timezones and changing a appointments end date to midnight via drag&drop, the end date is actually set to the next day, depending on what timezones were selected before. This has been solved by using the correct timezone when performing such implicit date/time changes.

**41822    Appointment popup not opened when selecting multiple related appointments**
When selecting several "shared appointments" at a appointments popup in a row, subsequently selected appointments from the "shared appointments" list do not immediatelly trigger the popup window but close instantly. This has been solved by extending the handler for this use-case.

**41825    Folder setting for Archive Folder on external Mailbox not saved**
Folder setting for Archive Folder on external Mailbox get closed after entering or changing the folder in email account settings.
Now this Folder is saved.

**41827    Unclear error message when archiving on limited mail backends**
When using a mail-backend that does not support subfolders, the "Archive" functionality fails and a error message is thrown. This has been solved by implementing a fallback that moves archived mails to the "Archive" folder instead of trying to create a sub-folder for each year.

**41831    Calendar search disabled for "all calendars"**
When executing calendar searches while having "all calendars" selected and cancelling that search afterwards, subsequent searches are not possible in a convenient way since the search field gets disabled. This has been solved by taking such virtual folders into consideration to allowsearches if they're selected programatically.

**41832    Performance problem for drive-searches, incase of big folder hierarchy**
The default search behavior was changed to query subfolders implicitly in the drive module. In larger directory structures, certain requests led to longer response times due to the recursive collection of the subfolders.
This has been fixed by passing down an "includeSubfolders" flag to the storage layer to perform recursive searches in an optimized way.

**41833    Unable to access public folders via contact search breadcrumb navigation**
When selecting virtual folders from a contacts path at search results, that folder cannot be accessed since it's just virtual - for example "Public folder". In those cases we've removed the link to that folder since its contents cannot be viewed anyway.

**41834    Storing files from PIM data to Drive fails**
When using a specific storage backend that does not support certain meta-data, for example comments, the resulting error keeps users from saving attachments from contacts/appointments to Drive. This has been solved by handling those non-critical responses and save the file without the meta-data.

**41835    Desktop-notification setting always enabled**
The setting for desktop notifications was always set to "enabled" no matter if a user chose to accept or postpone that decision. This has been solved by making the meaning of the notification settings buttons more clear. Users can opt to accept notifications later, accept them or decline. Before, that logic was part of the native browser permission dialog.

**41868    Default user not present when inviting other users from address book**
In case a user chose to create a appointment by selecting contacts from the address book, the user itself has not been added and needed to be added separately. This behaviour has been changed in a way that the user who creates the appointment gets automatically added.

**41873   Huge memory consumption up to Backend crash and high CPU load**
Very large images as mail attachments can trigger computation intensive image transformation tasks that stress the middleware components. This has been fixed by introducing thresholds to control whether image transformation computation is performed for a certain image. See Change #2831 for more information.

**41885   Similar IDN mail addresses lead to issues with contact halo**
When looking up contacts, the related matcher does not take umlauts into consideration. This means a address like "foo@öx.io" would match the contact "foo@x.io". As a result, incorrect contact information could be displayed. This has been solved by taking umlauts into consideration when looking up mail addresses.

**41894   OXUpdater fails to download new OXUpdater package**
The product name led to names of binary files which need proper URL encoding in download URLs. The lack of that encoding leads to broken download URLs.
This was fixed by always applying proper encoding when compiling URLs for update.xml.

**41895   Items closed after cancelling edit on portal page**
When editing a appointment or task and cancelling that operation, the corresponding popup has been closed. This has been changed in a way that popups stay open even when discarding the modification process.

**41898   Unable to specify "undefined" values for spamhandler settings**
With 7.8 the spam handler API has been changed in a way that valid data is required to store spam settings. To make sure this is the case, OX6 UI now also applies sanitize operations prior to saving that data.

**41899   Attendee information shows incorrect mail address**
When creating a appointment using the secondary or tertiary mail address of a contact, that mail address is not shown correctly at the appointments participant information section but gets over-written by the primary address. This has been solved in a way that those non-primary addresses are correctly provided when looking up participant information.

**41911   Unable to use redundant sign-out links**
OX App Suite allows two ways of displaying the "sign-out" button, either as part of the settings menu or as separate button. Some customers require to have both representations and that was not possible with 7.8 anymore. We've re-introduced this ability.

**41914   Thread dump is missing when calling oxsysreport**
Calling the "oxsysreport" command-line tool with the "–thread-dump" parameter shall provide a thread-dump to open-xchange-console.log. This did not work reliably when using systemd on the operating system. That PID detection has been made more robust and now takes systemd into account.

**41918   Sharing user list does not show unique entries**
In case two or more external users have been added to a share which have the same name but different mail addresses, there is no way to distinquish those users. This has been solved by opening the halo view when clicking entries at the list and prefixing the mail address.

**41956   Error message not complete when granting access to users with limited access combination**
Granting access to a folder for access combination "premium" and "webmail", let to the error: "It is not possible to apply the changes due to limited permissions", but the regarding user wasn't displayed.
Now a new Error with more details is displayed: "It is not possible to apply the changes as a result of restricted permissions of the user "surname name".

### 41966   Mail count in quota portal widget does not look right
Quota update owerwrote count quota with the storage quota which lead to large numbers.
If quota is updated now, count quota used the correct data.

### 41975   Save mail as draft: page loads endlessly
Saving an email as draft, after inserting in recipient field 'To' an email address that has a blank symbol, the UI get stuck.
Now an error is displayed if the user try to save an email as draft with an broken email-address.

### 41979   Masking errors after reloading page
Caused by race conditions when the toolbar is rendered twice in a short period of time.
This has been fixed by queueing render calls.

### 41990   Add Subscription checkbox overlap with text
The Checkbox in Subscriptions overlapped the info text.
This was fixed and now the checkbox is displayed beside the info text.

### 42003   Xing status update does not work
In case a API key for Xing has insufficient privileges, a newstream status update failed and a error was returned to the user. Now such responses are properly handled.

### 42005   Update and Deactivate Link-Button for subscription missing
Update and Deactivate Link-Button for subscription were not displayed in the settings area.
This has been fixed by reintroducing refresh and deactivate button for subscriptions.

### 42006   Dangling links and malformed 'Subscribe' dialog
he Checkbox in Subscriptions overlapped the info text.
This was fixed and now the checkbox is displayed beside the infotext.

### 42011   UCS metapackage did not depend on all required packages
The package build system has been updated to support the Common Debian Build System (CDBS).
This makes sure all dependencies of a meta-package are propagated to the package manager.

### 42017   Mail is alternating shown as read/unread
The message widget on the portal loads the message body which marks a message as seen automatically. This could introduce some kind of going back and forth client-side.
This has been fixed by fetching message preview with "unseen=true" to keep unseen messages unseen.

### 42034   Blue bar in address book entry when double clicking on Contact Picture
This issue with image marking in some browsers were fixed by a changing css styles.

### 42092   Switching to plain-text mode changes HTML signature
In case a users has a HTML signature that uses HTML paragraph parts, typically imported via copy&paste, the signature representation changes when switching from HTML to plain-text mode. Those paragraphs where considered as whitespaces, which has been corrected.

### 42096   Creators can be determined in private appointments
In a unrelated person creates a appointment which conflicts with a "private" appointment, the creator of the private appointment has been exposed at the conflict dialog. This has been solved by not providing creator information in such cases. Note that this means it's not possible to identify anymore who could unblock a certain timeslot.

### 42111   Safari only: App Suite crashes on creating an appointment by double click in month view
The double click changes the text selection and, apparently, Safari crashes while rendering the new elements of the appointment edit dialog.This is a Browser bug.
Workaround: Clear the text selection right after the double click. Luckily, this fixes or bypasses the

browser bug.

**42134    Archive Operations not visible instantly**
Archive folder was not dropped from cache, hence returning outdated subfolder information.
Solution is to properly clean archive folder from cache.

**42136    Asrchived mail still visible at its previous location**
When archiving a mail message, it's still shown at the original folder location for a certain amount
of time. This has been solved by removing such mails right after archiving them.

**42145    No UID-check when importing Tasks**
UID-Check wasn't available for Tasks.
Added UID-Check for Tasks and added "Ignore existing events" to the import task popup.

**42163    Task date display one day too early**
Wrong calculation from local time to UTC let to this issue.
Fixed Calculation so the timestamp is correct now.

**42202    Add more verbose logging for images that gets refused to be processed**
Exception message did not include the actual resolution or total size of the image that was rejected
being transformed.
This has been fixed by appending total size/current resolution to exception message (if known).

**42211    Drive: upload a new version in view mode - no preview of a new file**
No preview of a updated file was displayed.
This has been fixed by adjusting the second listener to the change:version event, that caused a
racecondition in the onchangemodel function.

**42231    Adding contacts 2nd email to distribution lists via copy/paste adds only the 1st email**
The autocomplete field displays a matching contact and his optional email entries in order of the
fields. The first entry was auto selected.
With this Patch the contact and his exact matching email field is displayed first.

**42256    Show all fields in contact edit dialog actually removes fields**
Some contact details were hidden after switching to "show all fields" in edit mode.
Now all possible fields are displayed.

**42261    HTTP GET URLs contains user email address**
App Suite UI can be forced into an externally created session by providing a session ID as fragment
parameter. For convenience some more parameters have also been included.
This has been fixed by only keeping the session ID in the fragment.

**42279    Update to share links does not update the .drive-meta file**
A share link's expiry date and password is not stored within the targeted file or folder, but within
the anonymous guest user account associated with the link. An update of those properties does
not affect the targeted file or folder, so that their sequence number remains unchanged.
This has been fixed by "Touch" underlying item if password or expiry of share link has been updated.

**42322    Frontend does not check for exceeding file size for mail attachments**
Added check for exceeding file size.

**42359    Incorrect error message when exceeding mail filter size limits**
When creating a mail filter condition that uses the "size" parameter and the value exceeds $2^{31}$ by
one byte, a incorrect error message is shown. This has been solved.

**42361    Missing input validation for mailfilter "size" condition**
When using unexpected values for the mail filters "size" parameter, those will be rejected at the
frontend in addition to the middleware in order to avoid incorrect values written to the SIEVE im-

plementation and subsequent errors.

### 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.

### 42374   The facet \"account\" is mandatory and has to be set
Serach in Drive wasn't working with smartdrive, because file storages are not prefetched (oauth keychain isn't loaded in some cases).
This has been fixed by ensuring filestorageAPI's rampup was called.

### 42376   Calendar: can't change whole series by drag 'n drop after appointment was changed
The drag 'n drop operation conflicted with itself after performing more than one DND (older client-side timestamp vs. server-side timestamp).
Solution: The recurrence master will be fetched without any caching to get a new last_modified.

### 42383   Search in address-book - click on the username in the storage location - error message
Folder with missing read privileges are clickable in folder breadcrumb, happend when searching for a contact in the shared address-book.
This has been fixed by disabling folder links if read privileges are missing.

### 42384   Renaming a folder downloads existing .drive-meta file
In case a folder is renamed but no other changes are performed within, the .drive-meta information of the client got overwritten by the server, resulting in unnecessary synchronisation runs. This has been solved by detecting actual changes to the content.

### 42395   Address book: search in all folders does not work
It was impossible to search about all address book folder at the same time.
This has been fixed by introducing option to keep folder value when processing response of auto-complete call, now it is possible to search in all folders.

### 42410   Movecontextfilestore silently breaks
Possibly inconsistent data in database due to e.g. connection loss and/or abrupt termination of the task manager.
This has been fixed by adding revert mechanism to a performed file copy operation for move-filestore operations and only deleting source files if all changes were successfully performed.

### 42415   High load caused by ImageTransformationsTask
Preliminary cancellation of image processing lead to termination for the associated thread.
Fixed preliminary cancellation of image-processing threads.

### 42427   Images from copy&paste are not added to mail compose
In case a image is added to mail compose via copy&paste rather than selecting the file manually, the resulting mail did not contain the pasted image. This got solved by avoiding to remove filtering `img` tags when adding base64 encoded URLs via pasting.

### 42443   Wrong RPM versioning for open-xchange-appsuite-saml packages
Original developer implemented RPM packaging was wrong.
This has been fixed by correcting RPM .spec file for open-xchange-appsuite-saml.

### 42460   As a user, i should not be able to insert external contacts when "invite guests" capability is not set
Adding an external contact to shared folder was possible even if "invite guests" capability was not set.
If "invite guests" capability is not set the adding of external contacts is prevented now.

**42462   Click on small cloud next to subscriptions folder - no settings displayed**
The id of the folder was not correctly calculated and the settings were not displayed.
Now the correct id is calculated and the settings are displayed.

**42468   UI accepts leading and trailing blank spaces when adding a SIEVE redirect rule**
Submitting an email address with spaces was possible and led to some issues.
With this fix all spaces befor and after the email address are removed.

**42471   File storage and quota parameters are not honored via OXUserInterface SOAP API**
Properly set passed "filestoreId" and "maxQuota" to corresponding User RMI instance.

**42500   Attachment list not updated when forwarding many mails in a row**
When using "forward" in App Suite UI very quickly on different mails, the attachments list was not updated per mail. This has been solved by making sure the attachments list is properly cleared when creating a new mail compose instance.

**42508   Halo view does not show display name of an unknown email address**
ContactsAPI investigate calls does not contain any name information of external contacts.
Solution: If the ui cannot compute a display name, the 'display_name' of that contact is set to the name which was set via the mail.

**42528   Per User Quota not considered in App Suite Frontend**
Only generic, context-associated quota/usage information was returned for /ajax/quota?action=filestore request.
This has been fixed by returning proper user-associated quota information if possible.

**42538 42564   USM error: unparseable reply or missing field**
Result of /ajax/calendar/itip&action=analyze contains now "changes", without "newAppointment".
The later was expected by USM code.
Solution: USM checks for "actions". In the case that the first array element is equal to "ignore" it will avoid to parse the "changes". The appointment will not be regarded, as "ignore" suggests. Now sync with USM and EAS is possible again.

**42601   TypeError: p is null when saving mail as draft containing invalid mail address**
Incorrect error handling of save as draft call during discard action if an invalid mail address was entered.
This has been fixed by aborting the discard action in case of an error. Correct error message is shown and user can start again.

**42625   'Edit as new' for attached documents failes**
Mail attachments are usually saved to a drive folder with a hint "Saved mail attachment" in the "description" metadata field. Certain storages do not support this kind of additional metadata, which causes the save operation to fail due to potential data loss.
This has been fixed by ignoring warnings when saving mail attachments to drive.

**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.

**42653   Cannot save attachment to drive**
The fix of another issue required to call a different method overload of an internal service routine, but passed a null reference for a parameter which wasn't expected by one concrete implementation. This caused the error when trying to save a file from an email to drive.
Solution: Orderly pass set columns when saving attachment to drive.

**42682   java.lang.StringIndexOutOfBoundsException: String index out of range: 0**
Failed to return email list due to a corrupt "From" address in one or more emails.
Solution: Properly handle possible runtime errors during puny-code to ASCII address conversion.
Use the address as-is instead.

**42712   Random contacts get saved in Distribution list**
The user type was lost while processing a participants list and caused wrong id's.
Now the initial user type is used.

**42714   Wrong error message if no dns entry found for mail**
Handler for warnings expected string but got object and can't handle this.
Adjusted Error handling to display an meaningful error message.

**42752   Vacation "from" field uses unfiltered data from personal contact info**
A comma in the full name of the user prevented from setting the 'from' field in vacation notice.
The from field value is now always submitted as an array to prevent this issue.

**42753   Load on smartdrive is 10-times higher after update to 7.8**
The file quota is always reloaded even if Drive (or a related portal plugin) is not running.
Solution: only refresh file quota if requested by an app or plugin.

**42773   Mandatory_wizard not allowing to see UI after login and user info added**
First start wizard never finished/resolved and timezone settings were not stored correctly.
This has been fixed by resolving/rejecting the state of firstStart wizard correctly and use the correct
settings model to store settings permanently.

**42854   Login not possible after update**
When updating to 7.8.0 the login process got stuck in very specific cases. This was caused by cached
code fragments within the browser and got solved by adapting the build process for future releases.

**42857   Unable to apply theming to button for "sharing" mails**
When providing a color code for the "button" object at "notificationMails" via config cascade, this
value was not applied to related notification mails. Now it's possible to use this configuration to
modify the "View folder" button at mails that get sent to internal or external sharing users.

**42880   "Image transformation denied. Resolution is too high." message missing after up-
date**
Changing the behavior to respond with a 406 HTTP error code in case image transformation has
been denied, accidentally removed the logging.
This has been fixed by re-introducing proper logging for possible exceptions of type ImageTrans-
formationDeniedIOException.

**42891   Missing push notifications**
In case a obsolete push registration token for a device exists, it's not removed once the client re-
requests push registration. This has been solved by droping such tokens in case a new token is
already assigned to the device.

**42895   Backend does not handle Dovecot ACLs correctly**
Failed to resolve Dovecot ACL entity names to internal user identifiers. In consequence "unknown"
entities were dropped from IMAP folder's ACLs and folder got unsubscribed as well since not visi-
ble/accessible to affected user.

**42898   Stopping a JVM produces com.openexchange.push.mail.notify.MailNotifyPushUdpSocketListener
related messages in OX Log**
Missed to orderly leave the socket listening routine if shut-down.
Solution: Properly mark UDP socket listener as stopped on bundle shut-down.

### 42900   Unable to access Drive data

When trying to read metadata from an image using the 'com.drew.imaging' package an unsupported image format yields a com.drew.imaging.ImageProcessingException and the passed stream does not get orderly closed.
Solution: Ensure to either reset (if possible) or to close stream resource when reading image metadata.

### 42974   Birthdays with no year are shown incorrectly

In case a contact with birth-year "0001" or no year at all is stored, the resulting representation of birthdays contained a preceding dash. This has been solved by removing the dash in case no year is set for a birthday.

### 42979   Quota for user not possible if file storage not set

The property "ALLOW_CHANGING_QUOTA_IF_NO_FILESTORE_SET" was not correctly checked.
Fixed this check to allow quota for users if "ALLOW_CHANGING_QUOTA_IF_NO_FILESTORE_SET" is set to true.

### 42994   Sieve script can not be saved in Appsuite-UI due to a syntax error

An empty string for the users full name (Sur_name and Given_name is empty) results in an error while trying to set the vacation notice "from" field.
Solution: If the string for the users full name is empty only the email is set as value for the "from" field to store the vacation notice.

### 43028   Reload /re-login is necessary to access your external mailbox after password change

After changing the userpassword a reload was needed to display an external emailaccount.
Now the folder tree gets refreshed after a password change.

### 43063   Usercopy does not copy the per-user-quota to the destination context

User-copy action does not take over file-storage and quota information from source user.
Properly take over file-storage and quota information on user-copy action.

### 43119   JSESSIONID not set after re-login or after clearing browser cache

When deleting all cookies and triggering additional requests to OX, a new JSESSIONID gets assiged. This is a issue for certain login scenarios. Since JSESSIONID is not relevant for security, we look up existing JSESSIONIDs for the provided session information and assign the existing one when setting the cookie. This makes sure subsequent requests are directed to the right middleware node.

### 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.

### 43126   Calendar print List - view not possible

Calendar only supported a detailed print view.
This has been fixed by implementing a new compact printing view.

### 43164   Many threads caught in IMAP-IDLE

Each thread performing an IMAP-IDLE run spawns an accompanying thread used to ensure that the currently imap-idl'ing thread does not last longer than cluster lock timeout of 10 minutes. (The imap-idl'ing thread is supposed to be aborted after 9 minutes to re-acquire cluster lock and re-enter into an IMAP-IDLE connection.).
This has been fixed by using a periodic timer task in place of dedicated threads. That timer task checks every 30 seconds for an "expired" imap-idl'ing thread (and does abort expired ones similar to the previous behavior).

**43182    List is not getting updated after file move**
Moved file/files from a folder to another in Drive were not displayed, list was not updated. This was caused by a missing check if model exists.
Solution: Make sure, model exists when checking the id of the model.

**43223    High load caused by calendar query**
For birthday series no limit would be set for the action "Getting all appointments as recurrences" if a new session has been used.
Set default value to "now + 3 years" at creation of a new session to prevent high load.

**43226    Auto save draft fails on some HTML Mails**
mapObject was missing and caused the error when saving HTML mails.
This has been fixed by adding underscore mixin.

**43228    Outlook Sync never ends, "standard folder types are currently not available" messages in logs**
JSONSession was handled like a EASSession in case of user changes.
This has been fixed by calling the correct initialization function for both types of sessions.

**43229    Importing CSV fails if uneven number of quotes are present**
A registered mapper with UTF-16LE may decode a valid csv file to a string representation with an uneven number of quotation marks, which leads to the import being aborted with an exception.
This has been solved by looking for a suitable mapper and continue parsing.

**43312    Firefox-only: Auto-save email drafts value <empty>by default**
Wrong default value for auto-save email drafts.
This has been fixed by changing default value from false to 'disabled'.

**43327    Drafts not displayed correctly after auto-save**
Drafts folder was not instantly reloaded and every draft mail gets a new ID, therefore they are not displayed correctly immediately.
This has been fixed by reloading drafts folder on auto-save and save-as-draft.

**43357    OX crash on one host, continuous GC, about 36GB heap**
Missing to apply the mail upload quota to prevent large files being uploaded, missing validation of the uploaded if it contains reasonable RFC 822 message data (of a single message) and missing possibility to specify a limitation for the max. size of a content that gets displayed to the user.
Solution: Covered the issues mentioned above, that is : to orderly apply the mail upload quota to the "import" call, to validate the content of the file to be reasonable RFC 822 message data and to introduce property "com.openexchange.mail.bodyDisplaySizeLimit" to file 'mail.properties', which allows to specify the maximum size for a mail content that is allowed to be displayed to the user.

**43387    Mails w/o external content can show the load-external-images button**
Wrong return value in CSS sanitizing routine caused a displayed image button without any function.
Solution: Fixed check if CSS content has actually been modified.

**43393    Attachments may get lost on forward**
When forwarding a mail with attachments and adding text, the text-part and the attachment ID could collide. This led to either a missing attachment or missing text and has been solved by enhancing the detection of injected text.

**43396    Incorrect format used for conversion exception**
The message of `com.openexchange.conversion.DataExceptionCodes.MISSING_ARGUMENT` contains an illegal format expression. Thus if this error code should be logged an exception occurs that masks the real issue. This has been solved by using the proper string formatter.

**43414    Data not saved when using drag&drop in Firefox**
When using drag&drop to move text from one input field to another, Firefox does not trigger a

"change" event on the input field. Therefor we did not recognize such changes when this is the only change. We're now triggering the change event manually after getting a drop event.

### 43449    Context menu in H-Split show below other layers
When adding certain customizations the "burger"-style icon which triggers the mail context menu was covered. This has been solved by setting the correct z-index.

### 43477    Reporting does not work if Hazelcast not active
Only a hazelcast implementation is available for appsuite style report.
As a solution that does not have a big impact the appsuite report will be skipped and the old style (db based) report will be executed if Hazelcast is not available. This solution is only valid (for now) for latest 7.8.0 and upcoming 7.8.1. With a later version a local implementation fot the appsuite style report will be provided.

### 43496    Drafts should have a date set in header
Missed to set "Date" header upon appending a draft message.
Solution: Ensure "Date" header is set when appending a draft message.

### 43517    Email get sporadical deleted after forwarding
App Suite UI passed wrong send-type when actually sending a message forward, which got auto-save before. The sendtypes and msgrefs are being correctly sent now.

### 43535    QuotaFileStorages cache not invalidated when calling changecontext
Added cache invalidation to fix this issue.

### 43553 43556    Lots of 'Message uid=-1 discarded' messages including trace in Logs (about 1000/day)
Message look-up logic does not consider possible negative UIDs resulting from invalid mail identifiers specified by client. Such invalid identifiers are allowed as per API contract and are supposed to be orderly handled.
This has been fixed by orderly dealing with such negative UIDs.

### 42415    High load caused by ImageTransformationsTask
Preliminary cancellation of image processing lead to termination for the associated thread.
Fixed preliminary cancellation of image-processing threads.

### 43575    Errors when downloading chunks of a file in S3 storage
When downloading a file starting from a specific offset, but not requesting a specific length, the "Range" header in the GET request to the S3 store was not passed correctly. This has been solved by requesting the remaining bytes of a file in case no length was set.

### 43581 43586    Error message "Das Verzeichnis hat wiederholt Synchronisationsprobleme verursacht"
Case- or unicode-conflicting files in the same directory were treated differently during the "sync-Files" and the "syncFolders" operation, which may lead to the synchronization being interrupted after repeated synchronization cycle occurred for this directory.
This has been fixed by choosing files for synchronization in a deterministic way after case- or unicode normalization conflicts.

### 43636    HTTP404 on GET request for a shared file
When looking up files in the virtual folder "shared files", group permissions were not taken into account, so that attempts to download a file shared to a group resulted in an HTTP 404 error. This has been solved by obeying group object permissions when looking up files in folder 10.

### 43658    CreateContext SOAP response interchanges name and loginMappings
The `context.name` field of the response is not properly filled with the `id` if the `name` is not given. This has been solved by filling that field in case the context name is `null`.

**43687    Oxsysreport triggers updatetasks**

Gather user/context information directly via SQL to prevent an updatetask when running clt oxsys-report.

**43709    Parsing mail recipients failed when using single-quotes**

When adding a mail recipient which mail address is surrounded by single quotes in addition to quotes, the recipient was parsed improperly. This kind of format is not standards compliant but to avoid issues we're now considering and fixing such data.

**43836    Distribution-list members with single-character addresses get lost**

When using mail addresses with a single-character personal part in distribution-lists, those addresses are not added as recipients when selecting the distribution-list. This behaviour was specific to a certain mail compose feature and has been resolved by fixing a less-or-equal condition.

**43843    The file .drive-meta with checksum "123456" was not found at company**

In case of background changes related to the metadata of a folder or a contained file, the server may supply the client with a wrong checksum in a DOWNLOAD action for the folder's .drive-meta file.

This has been fixed by re-checking .drive-meta integrity prior signaling in DOWNLOAD action.

**43906    OX Drive upload doesn't work - 'An IO error occurred: null'**

If a drive client closed the connection unexpectedly during an upload, some noisy ERROR messages were written to the log. This led to the assumption that something general was broken.

Lowered log level for detected timeout- and EOF-exceptions during OX drive upload to prevent these ERROR messages.

**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.

**44036    SQL problem: Unknown column guestCreatedBy in where clause**

com.openexchange.share.impl.cleanup.ContextCleanupTask tries to clean up contexts on schemas which aren't updated yet.

This has been solved by skipping contexts on schemas which aren't updated yet.

**44046    Duplicate entry for key 'context‗name‗unique'**

An attempt to load context groupware data fails for stale/orphaned context entries, which prevent from fully deleting such contexts.

This has been fixed by allowing to cleanse stale/orphaned contexts.

**44128    Sorting E-Mail returns no results**

On certain IMAP backends sorting E-Mail by "From" or "Subject" led to empty result lists. This has been solved by falling back to in-application sort in case a IMAP backend is unable to return sorted results.

**44135    jcs.region.Guest region present but undocumented**

A temporary JCS cache region was shipped with the default `cache.ccf` file. This has been removed.

**44240    Series appointment in the future not visible in calendar anymore after about ˜2years 9 month**

This was caused by a calculation limit for appointments. Series calculation limit (1000 occurrences) only strikes in after the requested time frame is reached.

The limit now respects the requested timeframe and the server calculates more than 1000 occurrences if needed to match that timeframe. Note, that if the timeframe contains more than 1000 occurrences, this bug is still valid.

**44264    Caldav usage from Mac OS X 10.11.3 cause lost of calendar shares**

The calendar client of OS X 10.11.3 uses (and expects) malformed principal URIs for sharing calendars.

This has been solved by workaround malformed principal URIs for OS X calendar clients.

**44363    Sieve rules get deleted on disabling vacation rule**

A single lined dot '.' character was parsed as a Sieve literal, if this dot was in a vacation rule, other Mailfilterrules were deleted on disabling the vacation rule.

This has been fixed by not parsing single lined dot '.' character as Sieve literal when found inside of double quotes.

**44450    It is possible to add more than one Yahoo Account and use it**

It was possible to add more than one external email Account for some provider.

This has been fixed by implementing an additional check.

**44501    Real name of alias email address not showing up after second email in sent items, nor to receipt**

The model value wasn't updated, only the drop-down markup, and the alias was displayed in all views.

This has been fixed by also updating the internal model properly when changing names.

**44548    Distribution lists: recipient w/o eMail address will be added to the list on compose mail**

Contacts which were previously added to an distribution list and afterwards email from this Contact were deleted, still was added to mail compose if adding this distribution list.

This was fixed by adding a missing check to prevent adding contacts without email address.

**44549    Recipients display name not rendered completely in to: when composing a mail to distribution list via address book**

Bug in bootstrap-tokenfield - Width calculation executed to early.

Patched bootstrap-tokenfield to solve this issue.

**44920    Update task com.openexchange.groupware.update.tasks.RemoveFacebookAccountsTask fails on missing table messagingAccount**

Updating    from    7.6.3    to    7.8.0    triggers    a    failing    update    task `com.openexchange.groupware.update.tasks.RemoveFacebookAccountsTask` because of a missing database table "messagingAccount".

Check if table exist before reading accounts to successfully update from older version to 7.8.0.

**44948    Unable to create folders within default folders via WebDAV**

When trying to create a new folder within a default subfolder (e.g. Documents) via WebDAV, the related request fails. This has been solved by not using a default folder type when creating new folders.

**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.

**42608    Settings/email: no option for html/text on tablets**

Tablet was still disabled for HTML composing option.

This has been solved by removing "tablet" from HTML format exception.

**42622    Message Body and mail subject will be replaced by appointment title and description for mails with ics attachments**

This has been solved by adding missing USM check in the attachment header.

**42676    Blank page on calendar share**
Enable calendar searches without "contacts" module permission, without performing participant lookups during auto-complete to solve this issue.

**42722    Missing dummy pictures in theme**
Wrong file names were used for default fallback, now using corrected filename for fallback image to solve this issue.

**42749    Autorun got lost for Google services when moved from crawler to oauth**
Added missing properties with Software Change Request 2942 to enable autorun again.

**42830    Document viewer translation**
Adjusted Document viewer translation for NL.

**42831    New file for NL has wrong translation**
nieuwe bestand is changed to nieuw bestand.

**42845    Settings from noreply.properties can not be overwritten in contextset**
This has been solved by passing context administrator to orderly retrieve configuration option without violating config-cascade behavior.

**42954    Plural form for status messages in Xing Portal Widget**
Since we do not know the gender of the user who posted something and therefore we could not use singular forms. Alternatively, we introduced 'NAMEs changed the status:' and 'NAMEs updated the profile:'.

**43091    Scheduling: Attendee and Resource overlaying**
Appointment tile was ignored and resource name used instead if attendee was removed. Removed special handling for appointment with only booked resources.

**43155    Order of SIEVE commands**
Order of SIEVE commands were wrong.
Ensure proper order of Sieve commands.

**43274    Compose dialog input fields not usable, once i started to use outlook style separator**
This has been solved by adding support for semi-colons as delimiter.

**43344    OX Drive max upload size is not exactly/accurately checked if upload size is a bit lower than MAX_UPLOAD_SIZE**
Added some "buffer" to the maximum allowed size of uploaded files as Apache Fileupload considers the maximum allowed size of a complete request (incl. form fields). The accurate check is performed later on; based on exact byte sizes.

**43440    Attachment does not get forwarded with the email**
Was caused by wrong attachment identifier assigned to MIME parts in case text part occurs at the end, this has been solved by dealing with messages having the mail text at the last position.

**43507    Unable to delete the recipient of an email**
Email was sent to deleted recipient in case the address was double clicked before, this has been fixed by adjusting the TO field.

**43518    Date header not set in sharing mails**
Sharing invitations sent through the Web-UI does not contained a Date-Header.
This has been solved by adding date header to notification mails.

**43523    Outage of dedicated hazelcast storage nodes**
Some improvements for hazelcast notes fixed this issue.

**43650    Mail: Instead of moving to the next line the dropdown is opened again**
Closing a dropdown always sets the focus on the dropdown parent element, and not back to the text field, this has been fixed by only focus the dropdown if the element was opened by keyboard.

**43744    Calendar: Start date should remain as user defined**
Never change the start date when end date changes, even for negative durations. This way the user gets notified of a potential mistake. The user gets an error message on save, also not before to avoid annoying error message while the user is just changing dates.

**43799    Toolbar gets drawn below application bar**
A Safari bug lead to this problem, solved by an extra workaround for Safari.

**43827    Wrong german translation after deleting all files in trash**
"Ale Dateien wurden gelöscht" is changed to "Alle Dateien wurden gelöscht".

**44029    Error message is not helpful in case mail module (mailserver) is not available**
Adjusted error messages if mailserver is down.

**44108    Forwarded mail doesn't show previous recipients**
Fixed link parser which did not match multiple addresses.

**44155    Saved .eml file disappears for Draft mail folders**
Draft mail is now removed immediately from list view and list view will be updated upon completion of save draft request tp prevent this problem.

**44168    Printing Error, The server does not answer the request**
This has been solved by optimizing the printing preparations.

**44214    Printing a document is not possible**
Certain spreadsheet previews could not be printed, that has been addressed by optimizing the Documents Preview component.

**44259    Login issue if "JSESSIONID" cookie is not set**
In case a valid HTTP session identifier is specified in request's URI, but no "JSESSIONID" cookie exists yet, an appropriate "Set-Cookie" header for creating that missing "JSESSIONID" cookie is not set in response.
Solution: Ensure "Set-Cookie" response header for "JSESSIONID" cookie in case a valid HTTP session identifier is specified in request's URI, but no "JSESSIONID" cookie exists yet.

**44267    Saving a response to HTML email to draft with the setting "text only" deletes the original email in the inbox**
User were not able to close the mail-editor by clicking on 'X' and Save when responding to an HTML-Mail and format emails is set to Plain Text.
This was solved by saving email correctly.

**44342    Pop out button from document viewer does not work for basic users**
In the documents (pre)view the 'Pop out' button does not work for 'basic' users.
This has been fixed by checking the 'infostore' capability when displaying the 'Pop out' button.

**44385    Single appointment from a series could not be deleted (all day series)**
In some cases it was not possible to delete a single appointment from an series, this has been solved by extra handling such single appointments.

**44557    Guest mode users can reach settings menus added via configjump and also edit their contact data**
This can be solved by configuration. The "Config jump" already supports a capability check but that was missing in the documentation. Added that to the upper oxpedia pages. Simply add 'requires: "!guest"' to the config jump configuration.

**44636   Thumbnails load endlessly long**
Performance improvements result in faster loading thumbnails.

**44854   Not possible to create new email folder**
It was not possible to create a new email folder if Share Service not running.
This has been solved by not hard-require Share Service, but acquire it on demand.

**42565   HTTP500 when trying to access non-existing mail attachments**
When accessing a mail attachment that got deleted in the meantime, OX App Suite middleware responded with HTTP500. Instead, we're now reporting a HTTP404 and a more useful error message.

**42453   Invalid part size for encrypted S3 multipart uploads**
When uploading encrypted files to OX Drive using a Amazon S3 storage backend, the chunk size was incorrectly calculated which led to issues with files larger than 5MB. This has been solved by ensuring that chunk size is a multiple of the cipher block size (16) in case encryption is enabled.

**42333   SIEVE vacation rule changed from** `:addresses` **to** `:from`
Certain mail filter backends ran into issues when using the `:addresses` parameter of a SIEVE rule since they require `:from` being used instead.  This has now been made configurable via `io.ox/mail//features/setFromInVacationNotice`.

**42329   UI got stuck when moving mail folder to itself**
When moving a mail folder, the selected folder was shown inactive at the folder picker. However, it could actually be selected and confirming led to a JS error. This has been solved by really denying to confirm the source folder as target.

**42296   First item is always selected when adding files from Drive as mail attachment**
When chosing to attach a file from OX Drive to a Mail as attachment, the file picker had the first file automatically selected.  This becomes unhandy when dealing with huge amounts of files and can lead to unintended addition of data.

**42186   Adding a contact subscription shows "info" popup**
When adding a contact subscription App Suite UI did show a "info" popup containing a exclamation mark. Instead we're now showing a "success" type popup with a green checkmark to stay consistent.

**42176   Image transformation stuck**
In very special cases it could happen that transforming images got stuck due to incorrect countdown handling for processing time limits. This has been fixed.

**42153   Unable to subscribe to certain spam/ham folders**
On certain IMAP backends with ACL and spam/ham support it was not possible for a user to subscribe to spam/ham folders. This has been solved by adding a more complex check on folder types when calculating permissions.

**42140   PIM users are unable to invite guests**
Since users with the PIM access combination are not allowed to share folders with other OX users, sharing a folder to external accounts was limited as well. This rule has been relaxed to allow PIM users to share data with external contacts.

**42123   Archive option show for Archive folders**
The "Archive folder" option moves folders to the "Archive" root-level folder.  However that option was also shown for Archive folders itself.  A check to prevent this option for such folders has been added.

**42074   Sending mail as Text+HTML is not possible on touch notebooks**
When using a notebook that provides a touch screen interface, App Suite did not offer to switch the mail compose style to something else than plain-text. This was based on a limited check that

disabled features for mobile devices as soon as "touch" capabilities are detected. This has been fixed by implementing a enhanced check within the new mail compose dialog.

### 42047 vCard files are not clickable in mail compose
When composing a E-Mail and sending OX contact information as vCard file, that file cannot be viewed even though it appears to be clickable. This has been solved by providing basic contact information via the preview component. Note however that this is limited for vCards that are generated based on existing contacts within OX. It does not apply to manually added vCard attachments.

### 41795 Sort order of attachments in sent folder changes
When sending a E-Mail with several attachments, the order in which they get displayed in "Sent objects" differs from the one within the compose dialog. This has been solved by using a sorted list rather than a random list for storing attachment information while generating E-Mail.

### 41761 Misleading description for handling accepted/declined mail
The term describing that invitation E-Mails can optionally be deleted after accepting or declining the related appointment has been updated to reflects its purpose in a more understandable way.

### 41729 Subfolders within "Sent objects" show "from"
When creating E-Mail subfolders within the "Sent objects" folder, enclosed mails are displayed with their "from" information rather than "to". This has been solved in a way that subfolders are handled the same way as the parent "Sent objects" folder.

### 41675 Strike-through characters not rendered
When composing a E-Mail with a HTML composer like Outlook, strike-through font decoration is not shown in App Suite. This was caused by HTML-whitelist rules that did not consider <s>to be harmless. Fixing this just required to allow the <s>tag at the default whitelist.

### 41503 High load for image transformation tasks
When transforming huge numbers or large images, for example to generate Drive or Mail previews it was possible that a global lock led to stalled processing of other threads. This has been fixed by adding a read-write lock specifically to the transformation thread.

### 41438 Optimized dutch translation for guided tours
The first step of the guided tours contained a missing translation for the "help" term in dutch. This has been solved by updating the wording.

### 41437 Optimized dutch translation for guided tours
The guided tour step which describes logout had some translation glitches in dutch. This has been solved by updating the wording.

### 41436 Optimized dutch translation for guided tours
Step four of the guided tours had some translation glitches in dutch. This has been solved by updating the wording.

### 40752 Permission errors when editing appointments in team view
When editing appointments in OX6 team view, a incorrect folder identifier was provided by OX App Suite middleware. This led to follow-up errors when a client used that identifier to perform changes. This has been solved by providing correct identifiers in the specific use-case.

### 40745 RMI exception regarding aliases when changing module access
Checks for alias consistency were executed when changing unrelated parts RMI calls. This has been solved by restricting alias changes to cases where actual user data related to mail gets modified.

### 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.

**39473   Documents created from templates are not auto-saved**
On certain storage backends there have been issues with auto-saving OX Text and Spreadsheet documents when creating them based on templates. This has been solved by adjusting the custom storage implementation.

**35391   Invalid field name** `remoteSerializableParameterNames`
When using distributed session storage via Hazelcast, certain environments produced errors regarding invalid field names. This was caused by duplicate existance of the `PortableSession` class and got fixed by removing the duplicate.

**34343   Missing return codes of open-xchange init script**
When using the SysV-style init.d script, return codes were missing. Since this can be an issue with automated deployments we've added proper return codes.

**30396   Incorrect dutch translation for settings**
Several dutch strings related to basic and E-mail settings have been improved.

# 4   Changes relevant for Administrators

## 4.1   Changes of Configuration Files

**Change #3061   New text config property added** `sendAsHtmlMaxPageCount`
The new feature "Send mail as inline HTML attachment" can be limited for the maximum number of pages that will be processed. The maximum page number that is allowed to be pasted as inline-html content into a newly created E-Mail. The configuration file `office.properties` has been enhanced by the following properties:

- 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.

.

**Change #3054   Added** `forwardUnquoted` **property to** `mail.properties`
Added previously "hidden" property `com.openexchange.mail.forwardUnquoted` (Default: `false`) to `mail.properties` file, which determines if forwarded text is supposed to be quoted (`false`) or not (`true`).

**Change #3039   Added option to pass spam/ham message as a nested message to Cloudmark**
Added option `com.openexchange.spamhandler.cloudmark.wrapMessage` (Default: `true`) to file `spamhandler_cloudmark.properties` accepting the values `true` and `false`. If set to `true` the spam/ham message get propagated as a nested message to the Cloudmark service to improve Cloudmark performance. However, this option needs to be clarified with your running Cloudmark service that passing the spam/ham message as a nested message is accepted and properly handled. Moreover existing deployments should not be touched and further use the mechanism in place.

**Change #3034   Specifying the maximum size for mail content to be processed**
Introduce property `com.openexchange.mail.bodyDisplaySizeLimit` (Default: `10485760`) to file `mail.properties`, which allows to specify the maximum size (in bytes) for mail content that is allowed to be displayed to the user.

**Change #3025   Property to define IMAP authentication user look-up**
Introduced property `USE_FULL_LOGIN_INFO_FOR_USER_LOOKUP` (Default: `false`) to file `imapauth.properties` in IMAP authentication bundle to define whether the full login string is supposed to be used to look-up the user; e.g. use "jane@somewhere.org" instead of only "jane". Find more information here: `http://oxpedia.org/wiki/index.php?title=Authentication_IMAP_Plugin_description`.

**Change #3024   Feature toggle to turn off server-side storing of savepoints**

The UI uses so-called save-points to store temporary data, e.g. a message draft, as a failover feature. Those save-points are stored in the browsers localStorage as well as server-side. The server-side storage causes network traffic and DB usage. If this is not wanted, customers can now turn that off by setting `io.ox/core//features/storeSavePoints` to either `true` or `false`.

**Change #3000   Made autocomplete and search fields configurable for contacts**

Two new properties have been added to the `contact.properties` configuration file:

- `com.openexchange.contact.autocomplete.fields` (Default: GIVEN_NAME, SUR_NAME, DISPLAY_NAME, EMAIL1, EMAIL2, EMAIL3)

- `com.openexchange.contact.search.fields` (Default: ADDRESS_FIELDS, EMAIL_FIELDS, NAME_FIELDS, PHONE_FIELDS, CATEGORIES, COMPANY, DEPARTMENT, COMMERCIAL_REGISTER, POSITION)

Both of them have been introduced to made contact search more configurable. These properties allow the definition of contact fields, which are beeing used by the autocomplete or search mechanism. Therfore only the defined fields will be considered during autocomplete or search operations of contacts.

**Change #2993   Added options to enable MySQL FULLTEXT support**

Added property `com.openexchange.contact.fulltextAutocomplete` (Default: `false`). That property configures if a `FULLTEXT` index dedicated for auto-completion can be used or not. Once enabled, an appropriate index is created on the `prg_contacts` table automatically (covering fields specified through `com.openexchange.contact.fulltextIndexFields` property), and is used afterwards to serve the "find as you type" auto-completion requests in an efficient way. Note that this index requires support for `FULLTEXT` index types on the used InnoDB table, which is available starting with MySQL 5.6.4 (see `http://dev.mysql.com/doc/refman/5.6/en/fulltext-restrictions.html` for details).

**Change #2990   Options to include logging for Hazelcast's health monitor**

Logging for the Hazelcast built-in health monitor is usually hidden by the configured default log level of `WARN` for `com.hazelcast`. The `logback.xml` configuration file is extended by an additional package based logging directive `<logger name="com.hazelcast.internal.monitors" level="INFO"/>`. Additionally, the property `com.openexchange.hazelcast.healthMonitorLevel` (Default: `silent`) is added in the configuration file `hazelcast.properties`.

**Change #2948   Changed `maxIdleSeconds` to 1800 for `HazelcastDocumentDirectory`**

The `maxIdleSeconds` entry for `HazelcastDocumentDirectory` has to be changed to 1800 to better support the restore document feature. The restore document feature needs several new entries and the idle time should be aligned to the normal real-time time-out.

**Change #2947   Increment map name for data structures of `HazelcastDocumentDirectory`**

Increment map name for changes in data structures of the `HazelcastDocumentDirectory` due to supporting new restore document feature. This feature needs several new entries in this map to store document related information.

**Change #2942   Added missing `autorunInterval` properties for subscriptions**

The properties influencing the `autorunInterval` for Google, Xing and MS Live subscriptions were missing from the relevant property files. Those have now been added to `googlesubscribe.properties`, `xingsubscribe.properties` and `mslivesubscribe.properties` with defaults of 1d.

**Change #2932   Adding properties to distinguish primary and general mail account settings**

To differentiate between settings that apply to all accounts or settings that only apply to the primary account, each property offers a primary-only alternative by appending the `primary.` suffix to properties common prefix. This behavior applies to both `smtp.properties` and `imap.properties` files. In case if `imap.properties` the common `com.openexchange.imap.` prefix may be extended by `primary.` suffix to distinguish between general and primary-only settings. For example, it is possible to specify two properties like:

- `com.openexchange.imap.imapTimeout=50000`

- `com.openexchange.imap.primary.imapTimeout=20000`

This will lead to a read timeout of 50sec for all IMAP accounts, but the primary IMAP account having a read timeout of 20sec.

**Change #2884   Renamed** `guard.properties` **to** `guard-api.properties`
Previously the `guard.properties` file was used to store the middlewares Guard API properties. Since we re-factored OX Guard, made it OSGi compliant and run it within the same runtime, we're now using using middlewares `ConfigurationService` to read the OX Guard configuration from `guard.properties`. Hence, to avoid name conflicts of the two property files, the middleware Guard API configuration file has been renamed from `guard.properties` file to `guard-api.properties`. Besides renaming the configuration file to `guard-api.properties` it will now be provided by the package `open-xchange-guard-backend-plugin` (bundle `com.openexchange.guard.backend`) instead of `open-xchange-server`. Those files have not been merged to preserve the possibility of "Micro Service" deployment concepts.

**Change #2865   Remove superfluous crawler properties**
Not all available properties are supported anymore, therefor only crawler properties for web.de, gmx.de, msn.de, suncontacts, suncalendar and suntasks are shipped.

**Change #2864   Introduced Grizzly configuration options for connection settings**
Introduced the following Grizzly configuration options for connection settings:

- Option to enable/disable SO_KEEPALIVE `com.openexchange.http.grizzly.keepAlive` (Default: `true`)

- Option to enable/disable TCP_NODELAY (disable/enable Nagle's algorithm) `com.openexchange.http.grizzly.tcpNoDelay` (Default: `true`)

- Option to specify the read timeout, in milliseconds. A timeout of zero is interpreted as an infinite timeout. `com.openexchange.http.grizzly.readTimeoutMillis` (Default: `60000`)

- Option to specify the write timeout in milliseconds. A timeout of zero is interpreted as an infinite timeout. `com.openexchange.http.grizzly.writeTimeoutMillis` (Default: `60000`)

Those properties have been added to `grizzly.properties`.

**Change #2850   New properties in** `drive.properties`
Additional limits and restrictions have been introduced to the middleware synchronization component of OX Drive.

- `com.openexchange.drive.maxDirectories` (Default: `65535`)

- com.openexchange.drive.maxFilesPerDirectory (Default: `65535`)

- com.openexchange.drive.enabledServices (Default: `com.openexchange.infostore`)

- `com.openexchange.drive.excludedFolders` (Default: `emtpy`)

Have been added to `drive.properties`.

**Change #2849   Introduced new capability** `archive_emails` **via** `permissions.properties`
Added property `com.openexchange.capability.archive_emails` (Default:   `true`) to file `permissions.properties` to enable/disable the archive-related functionalities.

**Change #2831   Introduced options for image transformation computation thresholds**
Introduced thresholds to control whether image transformation computation is performed for a certain image.

- `com.openexchange.tools.images.transformations.maxSize` (Default: `5242880`) to specify a maximum image size in bytes. If exceeded, image transformations is rejected.

- `com.openexchange.tools.images.transformations.maxResolution` (Default: `12087962`) to specify a maximum resolution in pixels. If exceeded, image transformations is rejected.

- `com.openexchange.tools.images.transformations.waitTimeoutSeconds` (Default: `10`) to specify a timeout in seconds for image transformation. If exceeded, image transformation is cancelled.

Have been added to `server.properties`.

### Change #2821   Enabling proxy usage for ISPDB queries
Properties to utilize a HTTP proxy for every HTTP request within mail auto-config have been renamed at `autoconfig.properties`:

- `com.openexchange.mail.autoconfig.ispdb.proxy`
  `com.openexchange.mail.autoconfig.http.proxy`

- `com.openexchange.mail.autoconfig.ispdb.proxy.login`
  `com.openexchange.mail.autoconfig.http.proxy.login`

- `com.openexchange.mail.autoconfig.ispdb.proxy.password`
  `com.openexchange.mail.autoconfig.http.proxy.password`

We also added a property `com.openexchange.mail.autoconfig.allowGuess` (Default: `true`) to `autoconfig.properties` file to disable "guessing" of mail/transport settings if required.

### Change #2820   Support the `SORT=DISPLAY` **IMAP extension**
Support the `SORT=DISPLAY` IMAP extension through introducing config-cascade wise changeable configuration property `com.openexchange.imap.allowSORTDISPLAY` (Default `false`). This is helpful when sorting by display-names instead of mail addresses at a IMAP backend.

### Change #2815   Allow `<s>` **tag when sanitizing HTML code**
Added `<s>` tag to `whitelist.properties` file: `html.tag.s=""`

### Change #2811   Adding `CalendarAddIndex2DatesMembersV2` **to update-task exclusion list**
Added `com.openexchange.groupware.update.tasks.CalendarAddIndex2DatesMembersV2` entry to `excludedupdatetasks.properties`.

### Change #3098   Allowing to integrated oAuth provider with external authorization servers
File `oauth-provider.properties` has been extended by a new property `com.openexchange.oauth.provider.isAuthorizationServer` (Default: `true`), which specifies, whether the internal OAuth 2.0 provider shall also act as authorization server. The default behavior of the feature is not changed. When setting the property to `false`, a custom implementation of `com.openexchange.oauth.provider.authorizationserver.spi.OAuthAuthorizationService` must be provided.

### Change #3179   Updated copyright notice
Updated copyright notice in file `as-config-defaults.yml` field `copyright` to the current year and legal entity.

### Change #3173   Introduced configurations for SMS user limit
Configuration files `sms-tools.properties` and `smsBucketHZ.properties` have been introduced to define properties and limits related to SMS services.

### Change #3159   Added possibility to specify a quota limit for signatures and snippets
Added possibility to (specify a quota limit for signatures and snippets via config-cascade that are allowed being created for a single user. File `snippet.properties` has been enhanced by property `com.openexchange.snippet.quota.limit` (Default: `-1`) to define the maximum number of snippets that are allowed being created by a single user.

### Change #3134   Adding option to force fall-back to application based IMAP sort
Introduced configuration property `com.openexchange.imap.fallbackOnFailedSORT` (Default: `false`) to file `imap.properties` to specify whether a fall-back to in-app sort is supposed to be performed in

case IMAP `SORT` command gets quit with a `NO` response. This is only required for very special IMAP backends.

### Change #3113   Reduce Liquibase default log level
Usage of Liquibase for database changes will increase unnecessary log output while server start. The log-level has been reduced to `WARN` for `liquibase.ext.logging.slf4j.Slf4jLogger` at `logback.xml` to only output relevant messages by default.

### Change #3109   Introduced new configurations for the integrated windows drive updater
Properties for the newly added integrated OX Drive updater are now provided by the file `drive-client-windows.properties`.

### Change #2880    New option to enable range requests support for the PDF rendering
A new settings has been introduced in order to enable range requests support for the PDF rendering, so that the PDF data is fetched in chunks. The setting 'io.ox/core//pdf/enableRangeRequests' sets whether to use range requests. Possible values are 'true' or 'false'. The default is 'true'.

### Change #2937    New option to to enable/disable the ability to restore documents
A new property `io.ox/office//module/documentRestoreEnabled`' with default true was added to office.properties. Allows to enable/disable the ability to restore documents that have been changed or removed while being edited. The restore document feature needs additional disk space on a backend node to store pending data. To prevent the additional usage of disk space, this function can be turned off. Default value: true

### Change #3211   Added several configuration files for newly introduced client on-boarding feature
Main configuration files to specify on-boarding scenarios, available devices, on/off switches, etc. have been added:

- `client-onboarding-scenarios.yml`

- `client-onboarding.properties`

On-boarding settings for CalDAV and CardDAV

- `client-onboarding-caldav.properties`

- `client-onboarding-carddav.properties`

`On-boarding settings for Drive App`

- `client-onboarding-driveapp.properties`

On-boarding settings for EAS

- `client-onboarding-eas.properties`

On-boarding settings for eM-Client

- `client-onboarding-emclient.properties`

On-boarding settings for mail (IMAP/POP3 & SMTP)

- `client-onboarding-mail.properties`

On-boarding settings for Mail App

- `client-onboarding-mailapp.properties`

On-boarding settings for Android Sync App

- `client-onboarding-syncapp.properties`

Not all files might be required to be configured, depending on available feature-set.

## 4.2 Changes of Database Schema

**Change #2793    Removed user alias entries in** `user_attribute` **table**
With version 7.8.0 we introduced a separate table `user_alias` to store mail aliases. With 7.8.1 we have removed the user aliases from the old and unused `user_attribute` table. Related update-task: `com.openexchange.groupware.update.tasks.RemoveAliasInUserAttributesTable`.

**Change #2912    Count contact use per user to improve sorting contacts**
Count contact use per user to improve sorting contacts in autocomplete/find-as-you-type. Often used contacts will be ranked higher in results. Related update-task: `com.openexchange.groupware.update.tasks.objectusagecount.CreateObjectUseCountTableTask`.

**Change #2994    Possible** `FULLTEXT` **index created for configured columns**
In case `com.openexchange.contact.fulltextAutocomplete` has been set to `true` an appropriate FULLTEXT index is going to be created once(!) through an update task after a restart. The FULLTEXT index to create gets aligned to the fields as specified in `com.openexchange.contact.fulltextIndexFields` property. Once the update task has been executed, altering the `com.openexchange.contact.fulltextIndexFields` has no effect, unless associated update task `com.openexchange.contact.storage.rdb.groupware.AddFulltextIndexTask` is re-executed.

**Change #3001    Support autocomplete for contacts by field department**
Added a new update task with the name `ContactsAddDepartmentIndex4AutoCompleteSearch` to create the index if necessary. This allows to include the "department" field of contacts to searches.

**Change #3036    Added** `replicationMonitor` **table to configdb**
The liquibase changeset `7.8.1:replicationMonitor:createForConfigDB` will add the `ReplicationMonitor` table to have a replication monitor at the schema like already available for all other schemas.

**Change #3103    Ensure** `cap` **column is not null for tables** `capability_context` **and** `capability_user`
Ensure `cap` column which is part of the `PRIMARY KEY` is not null for tables `capability_context` and `capability_user` as table creation gets rejected with MySQL 5.7 and later. Associated update task `com.openexchange.capabilities.groupware.MakeNotNullUpdateTask`.

**Change #3136    Added new tables for Swift object storage connector**
Added new tables used by the Swift object storage connector. The config database is extended by a table named `swift_token` that stores the authentication tokens for each registered Swift file storage. Therefore the change-set file `swiftConfigdbChangeLog.xml` is added, which creates that table `swift_token`. Moreover references to the stored objects in Swift object storage need to be tracked and managed. Therefore table `swift_filestore` has been introduced. That table gets created for existing database schemas with update task `com.openexchange.filestore.swift.groupware.SwiftCreateTableTask`.

**Change #3183    New column** `used` **in table** `directoryChecksums`
Drive synchronization caches consolidated directory checksums in the database. While this has previously been one checksum per folder, this has changed over time after different views on directories needed to be considered for clients sending different file exclusion filters. If a client uses some filters only temporarily, associated checksums are no longer needed at all and may be removed again. To prepare the removal of no longer used directory checksums from the database, a new column is inserted into the table `driveChecksums`. Existing cached checksums are purged during that process to ensure that newly added ones are equipped with a real value directly.

**Change #3184    New index in table** `directoryChecksums`
Drive synchronization caches consolidated directory checksums in the database. While this has previously been one checksum per folder, this has changed over time after different views on directories needed to be considered for clients sending different file exclusion filters. Therefore, an optimized index for columns (`cid, user, view, folder`) has been introduced. A previous index for the columns (`cid, user, folder`) is removed at the same time. Related update-task: `com.openexchange.drive.checksum.rdb.DirectoryChecksumsAddUsedColumnTask`.

## 4.3 Changes of Command Line Tools

**Change #2797   Introduced dedicated monitoring for the internal rate limiter**
The following new attributes are available now in the `RateLimiterMonitor` MBean in the general `com.openexchange.monitoring` domain:

- SlotCount: Gets the number of currently tracked rate limit slots held in the internal bucket map

- ProcessedRequestsPerMinute: Returns the average number of processed requests per minute.

- TotalProcessedRequests: Gets the total count of requests that have been processed until now.

Additionally, the MBean comes with an operation named `clear` to clear the rate limiter's internal data structure.

The monitoring values are available via the `showruntimestats` commandline utility inside the "Open-Xchange stats" group (option `-x`).

Appropriate scripts for monitoring graphs `ox_ratelimiter` are available via `open-xchange-munin-scripts` and `open-xchange-munin-scripts-jolokia`.

## 4.4 Changes of Behaviour

**Change #2778   Removed code related to old versioned update task framework**
All code related to old versioned update tasks got removed, the table `version` became obsolete. All update tasks based on versioned update tasks framework were deleted. Upgrading from versions prior to 6.18.0 to v7.8.1 will not be possible without upgrading to 7.6.x or 7.8.0 as intermediate step. Removed UpdateTaskResetVersionCLT.

**Change #2819   Added support for various placeholders for the reply/forward prefix**
The Strings `com.openexchange.groupware.i18n.MailStrings.REPLY_PREFIX` and `com.openexchange.groupware.i18n.MailStrings.FORWARD_PREFIX` do now support the following placeholders:

- `#DATE#` is replaced with the sent date of referenced email

- `#TIME#` is replaced with time of referenced email

- `#SENDER#` is replaced with personal and/or email address of the sender

- `#FROM#` is replaced with personal and/or email address of original message's From header

- `#TO#` is replaced with personal and/or email address(es) of original message's To header

- `#CC#` is replaced with personal and/or email address(es) of original message's Cc header

- `#CC_LINE#` is replaced with personal and/or email address(es) of original message's Cc header prefixed with "\nCc: " (which needs not to be internationalized)

- `#SUBJECT#` is replaced with referenced email's subject

.

**Change #2854   Configured default folders are used even if special-use attributes are present**
Handling of special-use folders was inconsistent. There has not been deterministic approach to dynamically set special-use attributes for each different mail-server. Default folders within the database mpw have priority over the special-use folders given by the mail server. Special-use folders are used only to initialize the mail accounts default folders.

**Change #2856   Make full baton object accessible for extensions contact actions**
Everything that is not part of baton.data can not be accessed by the concrete extensions. When invoking `io.ox/contacts/detail/actions` prior to this change only baton.data was used as parameter. After this change the full baton object is used and accessible by the extensions. This should

have no negative effects on concrete extensions cause the central ActionLink class always checked and will continue to check if the submitted parameter is a baton and will still create one if needed.

### Change #2914   Move deleted files to appropriate file storage
Move files to appropriate file storage if folder ownerships gets changed as a result of moving a folder to a user's personal Drive trash folder. Added update task `com.openexchange.groupware.update.tasks.FolderCorrectOwnerTask` to change ownership accordingly and move files if needed.

### Change #2913   Improved sorting of contacts in autocomplete/find-as-you-type actions
Count contact use per user to improve sorting contacts in autocomplete/find-as-you-type. Often used contacts will be ranked higher in results.

### Change #3006   Deny creation of files and folders with invalid characters or reserved names
When creating a "Note" at Drive, the user can chose an arbitrary file name. This becomes an issue when sending that note as mail, syncing via Drive or downloading it. Major operating systems (OSX, Windows) won't support every character so choosing these should be denied in order to avoid compatibility issues. File and folder names are checked for invalid characters and reserved names. If the name contains any invalid character ($>$, $<$, :, /, \, *, " or ?) or a reserved name (CON, PRN, AUX, NUL, COM1-COM9, LPT1-LPT9) the file/folder cannot be created.

### Change #3090   New `range` facet for the calendar search
For the calendar search, the previous `relative_date` facet that allowed to either search for past or future appointments is replaced with a more advanced `range` facet that offers to switch quickly between certain time frames. Values include `+/- 1 month`, `+/- 3 months`, `+/- 1 year` and `All time`.

### Change #3111   OX Drive updater acts as a bridge to integrated updater
With version 7.8.1 a new integrated updater is introduced. To ensure compability with OX Drive for Windows versions prior to 2.0.0 the old updater was changed to act as a brigde to the new integrated updater.

### Change #3175   Introduced a user-specific SMS limit
Without a limit a user was able to send an unlimited amount of SMS. Limits are now applied via a configurable SMSBucket. Everytime the user sends a SMS, a token is removed from the bucket and a timestamp is remembered for this token. On every subsequent attempt to get a token, all timestamps are checked if they could be refreshed. If there are no more tokens an exception is thrown and shown to the user. In addition a warning is shown when the next to last sms is send. The `SMSBucket` is implemented as a distributed and configurable Hazelcast map. Therefore the user SMS limits are valid for the whole cluster.

## 4.5   Changes of Packaging

### Change #3110   Providing new package `open-xchange-drive-client-windows`
With version 7.8.1 the updater for OX Drive for Windows clients will be integrated into the middlware and can be installed via the `open-xchange-drive-client-windows package`. In addition it is necessary to install at least one drive client binary package e.g. `open-xchange-drive-client-windows-generic`. Further informations can be found here: `https://oxpedia.org/wiki/index.php?title=AppSuite:OX_Drive#OX_Drive_for_Windows`.

### Change #3174   Added new bundle `com.openexchange.sms.tools`
Added a new bundle `com.openexchange.sms.tools` as part of the `open-xchange-core package`.

# 5   Changes relevant for Developers

## 5.1   Changes of the HTTP API

### Change #2814   Setting proper name for Vacation Notices in Sieve mail filters
Propper support for the `:from` tag for vacation mail filters as described at

`https://tools.ietf.org/html/rfc5230#section-4.3`. The JSON representation for the vacation rule now also accepts a `from` field whose value gets applied to the ':from" tag of the filter rule.

**Change #2830   Support for moving one or more files**
Missing capability to move one or more files leading to quite expensive operations that are performed one-by-one. We added support for moving one or more files: `http://oxpedia.org/wiki/index.php?title=HTTP_API#Move_one_or_more_infoitems_via_PUT`.

**Change #3004   Added a capabilities field to filestorage account API responses**
Clients were unable to retrieve the capabilities of a filestorage, e.g. if the filestorage supports versioning or not. This has been solved by adding an additional field ("capabilities") to the `get` and `get all` responses. It contains an array of capability names as Strings. Possible values are: `FILE_VERSIONS`, `EXTENDED_METADATA`, `RANDOM_FILE_ACCESS`, `LOCKS`.

**Change #3005   New request to check file and folder names for invalid characters or reserved names**
When creating a "Note" at Drive, the user can chose an arbitrary file name. This becomes an issue when sending that note as mail, syncing via Drive or downloading it. Major operating systems (OSX, Windows) won't support every character so choosing these should be denied in order to avoid compatibility issues. Therefor introduced the `/ajax/infostore?action=checkname` request to check if the name is valid before uploading. For more information please see: `http://oxpedia.org/wiki/index.php?title=HTTP_API#Check_if_file_name_is_valid_.28since_7.8.1.2C_Preliminary.29`.

**Change #3016   Added optional `offset` parameter to the infostore `update` call**
It should be possible to append data to an existing file using the HTTP API. The `update` action via POST in the `infostore` module has been extended by the following URL parameter:

- `offset` – Optionally sets the start offset in bytes where to append the data to the document, must be equal to the actual document's length. Only available if the underlying File storage account supports the `RANDOM_FILE_ACCESS` capability.

Further details are available at: `http://oxpedia.org/wiki/index.php?title=HTTP_API#Update_an_infoitem_via_POST`.

**Change #3137   Improved result of File Storage Account `all` action to return possible errors for each account**
In case the access of a filestorage account generates an error only a general error is appended to the result of the all action. The defective account is not returned at all. Furthermore if more accounts are beeing defective the result contains only a error message for the last defective accounts. Therefore it is impossible for the client to determine which account is defective and has to be deleted or repaired. Now each filestorage account will always be returned. Defective accounts have an additional boolean field named `hasError` set to true. If the `hasError` field is present the account entry also contains the error information.

## 5.2   Changes of the SOAP API

**Change #2848   Possibility to specify the full-name for the "archive" mail folder**
Extended provisioning APIs by the possibility to specify the full-name for the archive folder. The `create` and `change` methods of the `OXUserService` SOAP interface are extended by the `mail_folder_archive_full_name` attribute.

**Change #2905   Added listByAliasDomain method to user soap interface**
Added `listByAliasDomain` method to user SOAP interface, which allows to retrieve the identifiers of such users that have an alias within the given domain.

## 5.3   Changes of the RMI API

**Change #2846   Possibility to specify the full-name for the "archive" mail folder**
Extended provisioning APIs by the possibility to specify the full-name for the archive folder. The

class `com.openexchange.admin.rmi.dataobjects.User` has therefore been extended by the methods `getMail_folder_archive_full_name()` and `setMail_folder_archive_full_name` in addition to existing mail folder attributes.

**Change #2903   Extended OXUserInterface to list users by alias domain**
The interface `OXUserInterface` has been extended by a way to retrieve users by alias domain: `public User[] listByAliasDomain(Context context, String aliasDomain, Credentials auth)`.

**Change #2805   Extended OXUserInterface to list users with own filestore**
The interface `OXUserInterface` has been extended by a way to retrieve only users that have its own file store: `public User[] listUsersWithOwnFilestore(final Context context, final Credentials auth, final Integer filestore_id)`.

**Change #3100   Integrating internal oAuth provider with external authorization server**
The current OAuth 2.0 provider implementation allows the middleware to act as an authorization server and resource server (`https://tools.ietf.org/html/rfc6749#section-1.1`). As many of our customers integrate our software stack into an existing SSO infrastructure, the middleware is often not responsible for the final authentication and authorization of a user. In such environments it is not possible to use the OAuth 2.0 provider, as it requires the middleware to verify a users login name and password. It shall therefore be possible to use a 3rd party authorization server and act only as the resource server.

A new service provider interface `com.openexchange.oauth.provider.authorizationserver.spi.` `OAuthAuthorizationService` has been introduced to verify OAuth 2.0 access tokens via a 3rd party authorization server. Custom implementations need to be published as OSGi services.

# 6   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.

# 7   Fixed Bugs

37729, 38476, 38603, 39345, 41289, 41337, 41441, 41444, 41462, 41486, 41499, 41506, 41510, 41520, 41560, 41583, 41600, 41612, 41617, 41627, 41632, 41636, 41638, 41654, 41681, 41687, 41703, 41706, 41709, 41710, 41711, 41712, 41723, 41725, 41752, 41755, 41780, 41783, 41785, 41792, 41799, 41800, 41803, 41811, 41818, 41820, 41822, 41825, 41827, 41831, 41832, 41833, 41834, 41835, 41868, 41873, 41885, 41894, 41895, 41898, 41899, 41911, 41914, 41918, 41956, 41966, 41975, 41979, 41990, 42003, 42005, 42006, 42011, 42017, 42034, 42092, 42096, 42111, 42134, 42136, 42145, 42163, 42202, 42211, 42231, 42256, 42261, 42279, 42322, 42359, 42361, 42364, 42374, 42376, 42383, 42384, 42395, 42410, 42415, 42427, 42443, 42460, 42462, 42468, 42471, 42500, 42508, 42528, 42538 42564, 42601, 42625, 42633, 42653, 42682, 42712, 42714, 42752, 42753, 42773, 42854, 42857, 42880, 42891, 42895, 42898, 42900, 42974, 42979, 42994, 43028, 43063, 43119, 43121, 43126, 43164, 43182, 43223, 43226, 43228, 43229, 43312, 43327, 43357, 43387, 43393, 43396, 43414, 43449, 43477, 43496, 43517, 43535, 43553 43556, 42415, 43575, 43581 43586, 43636, 43658, 43687, 43709, 43836, 43843, 43906, 43929, 44036, 44046, 44128, 44135, 44240, 44264, 44363, 44450, 44501, 44548, 44549, 44920, 44948, 40871, 42608, 42622, 42676, 42722, 42749, 42830, 42831, 42845, 42954, 43091, 43155, 43274, 43344, 43440, 43507, 43518, 43523, 43650, 43744, 43799, 43827, 44029, 44108, 44155, 44168, 44214, 44259, 44267, 44342, 44385, 44557, 44636, 44854, 42565, 42453, 42333, 42329, 42296, 42186, 42176, 42153, 42140, 42123, 42074, 42047, 41795, 41761, 41729, 41675, 41503, 41438, 41437, 41436, 40752, 40745, 40540, 39473, 35391, 34343, 30396,