**Release Notes for Release**  7.10.5
2021-02-10

# Copyright notice

# 1   General Information

**OX App Suite v7.10.5**

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

- Federated Sharing of Folders
  Sharing of folders between context, or deployments, has been significantly enhanced to provide a smooth federated sharing experience. The sharing dialogs have also been updated to facilitate and simplify sharing in general.

- Improved "Connect your device" wizard
  Connecting other devices to OX App Suite has been made even easier. The "Connect your device" wizard has been significantly enhanced and features simplified device selection and enablement with the use of QR codes.

- OX Drive Usability
  OX Drive has received some significant updates, such as the ability to Drag & Drop Desktop folders into OX Drive; improved file/folder sharing dialogs; improved OX Drive search features and the introduction of hints when files/folders are being moved.

- Saving Email Drafts
  Email drafts are now automatically saved in the drafts folder and are therefore available on all devices by default.

- Navigation Improvements
  The top navigation area has been slightly redesigned to make accessing modules, help and settings easier.

**OX Documents v7.10.5**

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

- @mentions in OX Text
  @mentions can now be used in comments. This feature proactively sends relevant users a message when mentioned in order to grab their attention when collaborating.

- New Slide Show Toolbar
  The new toolbar "Slide Show" has been introduced and allows users to start a presentation directly (from the first slide or the current slide). An additional option can start the presentation in full screen.

- Images as Background
  OX Presentation now lets you use images as a background for other images. It is also possible to change the transparency of this image.

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

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

## General Information – Please Note

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

- Upgrade Hazelcast to v4.0 - There is a major Hazelcast library update to OX App Suite v7.10.5. This means that when updating from an earlier backend version, due to the upgraded library, it is not possible to form a cluster of nodes that run previous version of Hazelcast (i.e. existing volatile data in the cluster will be lost during the update). A consistent Hazelcast cluster is needed for cluster-wide cache invalidation. To circumvent problems with database update tasks that need to perform cache invalidation, please follow the steps described here: https://documentation.open-xchange.com/7.10.5/middleware/administration/running_a_cluster.html

- New Package Signing Keys - With this release Open-Xchange rolls out new cryptographic key material for package and repository signing. With the new key material, we are using future-proof cryptography and comply with upcoming platform requirements. Since the previous public-key is installed and trusted on all machines that fetch packages from software.open-xchange.com repositories and packages signed with the new key material will not be accepted by existing deployments and potentially cause error when attempting to update. In order to update packages from software.open-xchange.com it is mandatory to deploy and trust the updated public key. We are providing documentation on this topic for various platforms here: https://oxpedia.org/wiki/index.php?title=Importing_OX_Buildkey

- In accordance with the supported browser policy, Open-Xchange announces the discontinuation of support for Microsoft Internet Explorer 11 and Microsoft Edge Legacy, with the release. For details of all supported browsers please refer to the requirements page at: https://oxpedia.org/wiki/index.php?title=AppSuite:OX_System_Requirements#Desktop_Browser_.28Minimum_display_resolution:_1024_x_768.29

## 2   Shipped Product and Version

Open-Xchange App Suite backend 7.10.5-rev5
Open-Xchange App Suite frontend 7.10.5-rev5
Open-Xchange App Suite usm 7.10.5-rev2
Open-Xchange App Suite eas 7.10.5-rev3
Open-Xchange App Suite hazelcast-enterprise 7.10.5-rev2
Open-Xchange App Suite documentconverter-api 7.10.5-rev2
Open-Xchange App Suite documentconverter 7.10.5-rev2
Open-Xchange App Suite office 7.10.5-rev4
Open-Xchange App Suite documents-collaboration 7.10.5-rev4
Open-Xchange App Suite office-web 7.10.5-rev4
Open-Xchange App Suite readerengine 7.10.5-rev3
Open-Xchange App Suite imageconverter 7.10.5-rev4
Open-Xchange App Suite open-xchange-spellcheck 7.10.5-rev3
Open-Xchange App Suite open-xchange-pdftool 7.10.5-rev2

Find more information about product versions and releases at `http://oxpedia.org/wiki/index.php?title=AppSuite:Versioning_and_Numbering` and `http://documentation.open-xchange.com/`.

## 3   Vulnerabilities fixed with this Release

This section provides a summary of security related bug fixes that have been applied subsequently to shipping Release 7.10.4. Solutions for vulnerabilities have been provided for the existing code-base via Patch Releases.

**MWB-839   CVE-2021-26698**
CVSS:3.1

**OXUIB-411   CVE-2020-24701**
CVSS: 3.1

**OXUIB-412   CVE-2020-24701**
CVSS: 3.1

**OXUIB-421   CVE-2020-24701**
CVSS: 3.1

**OXUIB-509   CVE-2020-28945**
CVSS:3.1

**OXUIB-645   CVE-2021-26698**
CVSS:3.1

## 4   Bugs fixed with this Release

This section provides a summary of bug fixes and changes that have been applied  subsequently to shipping Release 7.10.4. Some of the announced bug fixes may have already been fixed at the existing code-base via Patch Releases.

**DOCS-2330   Reduced the 3 jms messages to one jms message.**
When we must do a close hard for a document we send 3 jms messages. If one message got lost we would have a problem.

**DOCS-2526   The start/stop scripts have been adjusted**
Be more verbose on errors, kill the pid-file.

**DOCS-2540   The disable check for the 'create folder' button was not working correctly, therefore it displayed the enabled button for cases were it's not possible. When creating a folder in these not working cases, the error occurred.**
Fixed the enable/disable state of the 'create folder' button. Therefore, the button is not clickable in wrong cases, the error can't happen anymore.

**DOCS-2619   PDFTool does not return at all with some rare, yet unknown PDF documents.**
A maximum runtime needs to be introduced for each call to the PDFTool (similar to watchdog for RE processes), returning an error after the configured jobExecution timeout time and responding to the appropriate request in time.

**DOCS-2691   Duplicate entries in a document collaborators list**
When we receive a jms message we check if all header keys are valid.  If it is not the case we will stop processing the message.  We change the behaviour in case there is an invalid header in the jms message. We lock this event, but we do not stop processing of this message.

**DOCS-2822   truncated title due to window size**
Shorten title in German, check other languages if they are affected, too.

**DOCS-2854   GENERAL_NODE_IN_MAINTENANCE_MODE_ERROR after update**
OX Documents monitors the life-cylce and online state of all Appsuite OX Documents nodes. Handling of lost Hazelcast nodes works as expected, but there a some more situations where we see the described behavior.  The OX Documents monitor implementation now checks the lifecycle events from Hazelcast more carefully and detects that a merge has been done. This is handled and internal classes are re-initialized to work with the new Hazelcast uuid (especially the JMS queue names are derived from it).

**DOCS-2884   Avoiding that topbar becomes invisible after loading one of the portals of OX Documents**
z-index of the topbar was set to 2 because IE 11.

**DOCS-2921   comment Anchor does not work / function unclear**
In the specified environment, the comment ID was transferred to OX Presentation, but it was not found in the parameters of the application launcher. 'Go to comment' in notification mails is working now in SingleTab environment

**DOCS-3011   Support for pasting 'user@abc' after the @ to trigger a mention has been added.**
Combining text nodes after pasting, so that the email-detection process finds the pasted email-addresse

**MWB-346   CardDAV: deletion of a contact does not sync for contacts which were created on an iOS device**
The client creates contacts in folder 6 (which is not allowed), so the server stores it in the user's default contact folder implicitly.  After a deletion of this contact in the web interface, this is only indicated for this folder, so that the client assumes that the contact in folder 6 is still there.
Re-route newly created contacts to default and fake deletion in targeted collection.

**MWB-457   Sort mail by "unread" is descending by default**
Back when the sorting order was changed to descending one case was not adjusted.
This has been fixed by using desc sorting order when not using imap search.

**MWB-459   Appsuite adds additional PREF field to vcard export**
"pref" parameter is used by the server to differentiate between multiple numbers of the same type, while the client only recognized one "pref", as general preference.
This has been fixed by only adding "pref" parameter when exporting TEL properties if required.

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Note that this is only a mitigation, e.g. when there are multiple "cell" or "home" numbers, the "pref" parameter will still be set.

### MWB-489   Calendar update failed when running runallupdate
Update task accidentally removed when updating update task framework, although it was used as dependency for other tasks.
This has been fixed by restoring removed update task.

### MWB-501   Some mails with attachments not indicated as such
Slightly different attachment check for get and all requests. In case the content-disposition header is missing the get request in contrast to the all request considers the name attribute of the content-type header to identify attachments.
This has been solved by considering the name attribute during all requests as well.

### MWB-542   java.util.regex. Pattern very long log entries
Excessively long-running operation to look-up a subsequence/pattern in HTML content.
This has been solved by adding conditions for early abort and ultimately shield from too excessive matcher execution.

### MWB-562   Creation date is calculated including the timezone offset for uploaded images
Some images doesn't contain a timezone in addition to the capture date. In those cases the library which extracts the capture date uses the GMT timezone as a fallback in case the timezone information is missing in the exif data.
This has been solved by using the user's timezone as a fallback for the capture date instead. Please be aware that this is still not a perfect solution for this problem. For example it depends on the timezone configuration of the appsuite when the image has been uploaded. So for example in case the timezone between the camera and the appsuite is different this leads to similar problems. Or in case the timezone of the appsuite is changed then images uploaded before and after the change have a different offset. Also this fix only applies to newly uploaded files. Existing files are still going to show the capture date based on the previous calculation which used the GMT timezone.

### MWB-568   Middleware on provisioning node runs into max-open-files
This is caused by hundreds of reload configuration calls with each one triggering an appsuite history check.
Fixed by never perform history checks in parallel.

### MWB-594   ChangePasswordExternal fails with "Error occurred within server.." if set to 1, 4 or 5
Standard display message advertised to client in case error "PSW-0001" ("Cannot change password...") occurs when user's attempts to change his/her password.
This has been solved by adding better understandable display message when error code "PSW-0001" ("Cannot change password...") is advertised by Open-Xchange Middleware.

### MWB-614   Listquota: Could not find or load main class
Was caused by wrong package name.
This has been solved by using correct package name.

### MWB-632   Code:202 Message:primaryMail, Email1 and defaultSenderAddress must be present in set of aliases
Case-sensitive check if provided E-Mail addresses are contained in set of user aliases.
This has been solved by ignore-case checking if provided E-Mail addresses are contained in set of user aliases.

### MWB-633   "Send a Read Receipt" button shown in sent mail
Address to notify not checked if covered by user's aliases. if so, not notification should be sent.
Do not advertise "disp_notification_to" field in a mail's JSON representation if address to notify is covered by user's aliases to solve this issue.

**MWB-652   Hazelcast : Could not create Portable for class-id: 103**
Likely a database error happens when trying to create or modify an appointment, but unfortunately the clean-up code itself raises an error that overlays the original one. Thus it is not possible to see the database error causing the failing create/update.
Don't overlay possible exceptions when performing clean-up stuff. The associated change cannot be considered as a fix for this issue. However, it is necessary to detect what is really going wrong when attempting to create or modify an appointment.

**MWB-653   Error while editing added mail account - Please enter the following data: primary_address**
Primary address was unnecessary checked.
Don't require primary address when checking mail account connectivity to solve this issue.

**MWB-689   Address book: the number of contacts is wrong**
In case com.openexchange.showAdmin was set to false the check for contact count was wrong.

**MWB-694   AppSuite Webmail Safari Error**
Null check for relay state was not sufficient.
This has been solved by properly checking for empty relay state.

**MWB-705   Special characters in folder names on external webDAV folders lead to errors**
Decoding with URLDecoder caused the plus sign to be converted into a space character.
This has been solved by fixing the URI decoding.

**MWB-751   Department field in contact is set to NULL if left empty**
The company and department fields were not checked if they were set in the actual contact object.
This has been solved by checking if the company and department are set in the actual contact before adding them to the vcard file.

**MWB-762   Failed to delete (aborted or) completed data export tasks**
Deletion of data export task fails due to missing/absent user/context entities when querying appropriate schema reference for a user to operate on correct database.
This has been solved by making config-cascade robust towards missing/absent user/context entity.

**MWB-768   Imported vcard shows mail address twice in contact**
Several fallback machnisms led to duplicate entries.
This was fixed by avoiding to import an already existing email.

**MWB-792   New feature 'File backup' is not working**
One optimisation was done: Resume reading an S3 object's content when HTTP connection gets unexpectedly closed due to premature EOF (actually read bytes do not match advertised content length)

**MWB-799   Optimize FolderMapManagement cache**
Inefficient max. size restriction of in-memory folder cache.
This has been solved by using the SessionD events when the short term sessions are removed and use the Guava cache's expireAfterAccess method with a decent max time that should only remove stale entries.

**MWB-805   WebEX invitations are displaying the incorrect timezone**
Unknown timezone in invitation not interpreted correctly.
More sophisticated comparison of parsed timezone observances during import.

**MWB-806   DAV fails on passwords with trailing space**
Decoded strings from basic authentication header were trimmed.
Don't trim decoded strings from basic authentication header.

**MWB-818   DAV ETags missing quotes?**

ETag and Schedule-Tag header values not submitted as quoted string.

Submit ETag and Schedule-Tag header values as quoted string.

**MWB-833   CardDAV: subscribe / unsubscribe CardDAV folders has no effect on macOS address book**

A modified "subscribed" or "usedforsync" status in one of the underlying folders is not recognized during the incremental synchronization of the aggregated collection in CardDAV.

This has been fixed by including folder state in sync-token of aggregated collection for CardDAV.

**MWB-915   CardDAV: contacts gets removed from server by disabling / enabling contacts (sub)folders for DAV Sync**

macOS client sends unconditional DELETE for no longer listed vCard resources after list of synchronized folders changes.

Use variable path to special aggregated collection with different modes for macOS clients and introduced new modes for folders in aggregated collection.

**OXUIB-177   Toggling editor mode appends signature instead of replacing it**

The signature content was not correctly recognized when switching from plain text to html editor.

This has been solved by removing signature on editor toggle and append it again afterward.

**OXUIB-393   View Source starts at the bottom**

Firefox has od focus behavior, scrolls to bottom on focus, and ignores scroll top function.

This has been solved by deferring scroll top to fix firefox focus bug.

**OXUIB-394   Unable to Copy/Paste in Compose Window**

tinymce adjusts height of node flexible and "starts" with a single line.

Add a dynamic min-height as it is already set for iframe container.

**OXUIB-404   Incomplete attachment dropdown in the contact detail view**

CSS rule for overflow was overruled.

This has been solved by improving selector so overflow rule is active again.

**OXUIB-416   Import of calendar leads to massive thread spike and timeout**

Was caused by post-processing after calendar import is triggered per event group.

This has been solved by importing post-process results in single task, enqueue long running import jobs.

**OXUIB-444   Address book: the number of contacts is wrong**

In some cases not the "total" value of a folder was used for display but a calculation. If the setting "com.openexchange.showAdmin" is set to false the displayed value differs from the actual number.

If the folder supports the "total" value this value will be used now. If the setting "com.openexchange.showAdmin" is set to false, the displayed value is calculated accordingly.

**OXUIB-463   Signature selector in compose window not scrolling**

The dropdown overlaped the viewport.

Now, when overlap is detected make dropdown scrollable.

**OXUIB-467   Mail print: recent chrome browsers do split small mail in multiple pages**

Was caused by custom print rule of individual mail applies.

This has been fixed by overwriting css page property.

**OXUIB-472   Format-Error for some RSS Feeds on Portal page**

Feed sometimes wrongly uses numeric character reference instead of char.

This has been solved by adding a rule to replace those occurrences with simple quotes.

**OXUIB-485   Context menu on folders are missing 'delete all messages' after marking/un-**

**marking spam**
When spam folder is empty and you move a mail to it (via "mark as spam") folder count was still 0.
This has been solved by adding a refresh of the folder.

**OXUIB-515   Unable to Create Filter Rule using a Condition**
Wrong timezone was selected when parsing date input.
This has been solved by using default timezone when parsing the date input.

**OXUIB-523   Error from accounts APIs prevent UI login**
Due to an unhandled error the login could be prevented.
Now the error is intercepted so that the login is not aborted.

**OXUIB-529   No refresh of account warning after recovery**
UI was not updated after recovering accounts.
This has been fixed by triggering an UI update, when accounts are recovered.

**OXUIB-535   Print view for imported entries does not adjust calendar dates by Time Zone**
No conversion to default time zone when printing in month and week view.
This has been fixed by adding time zone conversion.

**OXUIB-536   Signatures not above quoted text on forwarded mail**
ForwardUnquoted was not recognized by plaintext editor.
This has been solved by adding forwardUnquoted detection for plaintext editor.

**OXUIB-541   Login page cut off on small screens**
The header and footer were absolute positioned, which doesn't look nice with a flex layout.
This has been fixed by refactoring markup to use flex layout as it is intended.

**OXUIB-549   Recurring appointment removal and portal widget aligment**
Due to incorrectly linked events, the portal widget does not always detect when events are changed.
The incorrectly linked events were adjusted accordingly to solve this issue.

**OXUIB-556   No refresh on account recovery options**
Settings pane for account was not updated when recovering passwords.
This has been fixed by adding listener to refresh and update the account settings pane.

**OXUIB-561   External Storage account cannot be added immediately after it got deleted**
This was caused by a missing trigger and listener for reset events.
This has been solved by adding missing trigger and listener for reset events.

**OXUIB-573   Attach vCard to an email - no checkmark in dropdown shown**
Was caused by missing listener to detect, whether the vcard is attached or not.
This has been fixed by introducing missing listeners.

**OXUIB-584   Theme is translated as Design in pane.js**
Theme has been translated with Design and Design has also been translated with Design.
This has been solved by changing the translation of Theme from Design to Theme.

**OXUIB-591   Reminders for past appointments works not correct**
Heading 'Reminder' was still visible on the settings pane when showPastReminders was set to protected.
Do not render heading when setting is protected.

**OXUIB-602   Missing contact image in desktop notifications**
With WebSockets disabled, desktop notifications for mail didn't fetched a contact image.
This has been solved by refactoring mail desktop notifications to use the same message style as with WebSockets enabled.

**OXUIB-610   User feedback time controlled option not documented**
Documentation simply was not added during development.
Add documentation from feature description to technical docs.

**OXUIB-627   Appointments jump to current week on click**
The short drag started the drag and drop mechanism of the appointment. Usually, this will not be
a problem, but if the appointment is not within the displayed timeframe, the drag and drop mech-
anism does not work.
This has been solved by disabling drag and drop for appointments, that are not within the visible
timeframe.

**OXUIB-647   Problem on read receipt: bad sender mail address**
Primary address was used in all cases.
This has been fixed by adding recipient parameter when calling api.ack and in case mail was send
to alias address also this one is used for ack.

# 5   Changes relevant for Operators

## 5.1   Changes of Configuration Files

**Change #SCR-544   Changed default for documentconverter-client.properties config item com.openex-
change.documentconverter.client.pdfextractor.workDir**
Instead of using a default /tmp directory value for config
`item com.openexchange.documentconverter.client.pdfextractor.workDir` (config file documentconverter-
client.properties from package open-xchange-documentconverter-client), the default value is left
empty, so that the configured UPLOAD directory is used as a fallback. The default value can be
overridden by a customer to set a dedicated DC client working directory.;

```
# The directory, containing the PDF extraction tool working directory.
# If no dedicated working directory is specified here, the configured
# UPLOAD_DIRECTORY is used as default.
# Default value: n/a
com.openexchange.documentconverter.client.pdfextractor.workDir =
```

**Change #SCR-589   Adding set of JDBC configuration items for DCS client dabase connections
(e.g. for SSL connections)**
Adding new configuration items and descripton of layered config item approach to documents-
collaboration-client.properties file:

```
# KeyStore type for database trusted root certificate.
# Standard keystore types supported by the JVM are "JKS" and "PKCS12", although
# your environment may have more available, depending on what security products are
# installed and available to the JVM.
# In case no default value is specified for this JDBC property, the default
# is taken from the following database configuration files in that order:
# dbconnector.yaml, configdb.properties
# Use the empty string notation ("") to set this property to its JDBC driver
# default value.
# Use the string constant 'jdbcDefault' without ticks to override this property to use the
# JDBC driver default value.
# Default: n/a (Default is taken from basic configuration)
com.openexchange.dcs.client.database.jdbc.trustCertificateKeyStoreType=

# Password for the database trusted root certificates KeyStore.
# In case no default value is specified for this JDBC property, the default
# is taken from the following database configuration files in that order:
# dbconnector.yaml, configdb.properties
```

```
# Use the string constant 'jdbcDefault' without ticks to override this property to use the
# JDBC driver default value.
# Default: n/a (Default is taken from basic configuration)
com.openexchange.dcs.client.database.jdbc.trustCertificateKeyStorePassword=
```

**Change #SCR-590   If the connection to the DCS is secured the client has to set username and password to connect to DCS server.**
This property sets the username for this purpose.

```
com.openexchange.dcs.client.username=
com.openexchange.dcs.client.password=
```

**Change #SCR-676   Release 2.0.0 of java-commons**
As of version 7.10.5 of the AppSuite (and version 2.0.0 of the Open-Xchange Java Commons libraries) there is a slight change in the property naming of the logback.xml file. Please see https://documentation.open-xchange.com/7.10.5/middleware/#configuration-changes-for-logback for changes.

**Change #SCR-708   PDFExtractor tool used in DC client to extract single pages for presenter view page preview is not yet limited wrt. max. virtual memory consumption. Customer experience has shown that limiting VMem usage of external tool seems to be necessary in some special cases.**

```
# The maximum size in MegaBytes of virtual memory that an extraction tool instance can allocate
# set to -1 for no upper limit of maximum virtual memory
# Default value: 1024
com.openexchange.documentconverter.client.pdfextractor.maxVMemMB=1024
```

**Change #SCR-713   Removed ui/portal/customUWA property**
With 7.10.3 we deprecated the UWAWidget feature, with 7.10.4 we removed the feature from the code and finally with 7.10.5 we dropped the DB tables with the remaining data.
Therefore the property `ui/portal/customUWA` from the ui.properties file hasn't an effect anymore and is removed with 7.10.5.

**Change #SCR-716   New property to control notification mails for resource attendees**
Whenever appointments that contain internal resource attendees are created, updated or deleted, a notification mail may be sent to the mail address associated with the resource (to inform a possible "resource manager"). This may or may not be useful depending on the situation.
Therefore, the new lean configuration property `com.openexchange.calendar.notifyResourceAttendees` is introduced, defaulting to true. If set to false, no notifications are sent. The property is reloadable and can be specified through the config-cascade down to the "context" scope.

**Change #SCR-718   Added new hazelcast lean property com.openexchange.hazelcast.network. join.k8s.serviceName**
Added new hazelcast lean property `com.openexchange.hazelcast.network.join.k8s.serviceName`

**Change #SCR-719   Blacklist for HTTP API client**
With the new "Federated Sharing" feature the OX server is introducing a client that communicates with a foreign OX server via the HTTP API. For this client the properties

- com.openexchange.api.client.blacklistedHosts

- com.openexchange.api.client.allowedPorts

are introduced. The properties control whether a client is allowed to communicate to the remote OX server or not.

The properties have following defaults

- com.openexchange.api.client.blacklistedHosts=127.0.0.1-127.255.255.255,localhost

- com.openexchange.api.client.allowedPorts=

The properties are config cascade aware, relaodable and lean.

## Change #SCR-724  Introduced two new lean properties which provides limits for snippet sizes
Introduced two new lean properties which provides limits for snippet size:

- com.openexchange.mail.signature.maxRawSnippetSize - Specified the maximum allowed size in bytes of a raw signature. This excludes all kinds of attachments (e.g. images).

- com.openexchange.snippet.mime.maxSnippetSize - Specifies the maximum allowed snippet size in bytes. Supports specifying a value including an optional unit: e.g. `10 MB` or `17.5kB` (unit is ignore-case) Supported units are: B, KB, MB, GB, and TB

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## Change #SCR-725  Introduced new lean properties to configure FULLTEXT index support when searching for files
Introduced new lean properties:

- com.openexchange.infostore.fulltextSearch - enables the FULLTEXT search support for searching files. Defaults to false, neither reloadable nor config-cascade aware.

- com.openexchange.infostore.fulltextSearchMinimumPatternLength - the minimum search pattern length to use the FULLTEXT index. Defaults to 3, neither reloadable nor config-cascade aware.

- com.openexchange.infostore.searchFields - specifies the fields to check when searching a file. The FULLTEXT index also gets generated for those fields. Defaults to title,description,filename,file_version_comment, neither reloadable nor config-cascade aware

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## Change #SCR-730  Change default value of lean property "com.openexchange.sessiond.removeFromSessionStorageOnTimeout"
Changed the default value of property `com.openexchange.sessiond.removeFromSessionStorageOnTimeout` to false, as sessions now have an individual maximum idle time.

## Change #SCR-732  Adjusting default config values for IC related DB read/write SSL properties 'enabledTLSProtocols'
Wrong default values for IC service DB related read/write 'enabledTLSProtocols' SSL properties in target property file `/opt/open-xchange/imageconverter/etc/fileitem.properties`.

Adjusting default values for IC related SSL enabledTLSProtocols read/write properties in file `com.openexchange.fileitem/conf/fileitem.properties` within IC repository `https://gitlab.open-xchange.com/documents/imageconverter.git` to OX standard values to allow proper SSL handshake after enabling SSL DB transport within config and providing appropriate certificates:

```
com.openexchange.fileitem.readProperty.17=enabledTLSProtocols=TLSv1,TLSv1.1,TLSv1.2
com.openexchange.fileitem.writeProperty.17=enabledTLSProtocols=TLSv1,TLSv1.1,TLSv1.2
```

## Change #SCR-733  New properties to adjust incoming port for Hazelcast dynamically
Hazelcast is upgraded to v4.0, which comes with a new network protocol that causes compatibility problems with nodes running the previous version of the Hazelcast library in the cluster, leading to the Hazelcast subsystem not starting up on the "newer" node. Therefore, it is required to separate the clusters from each other during "rolling" upgrade scenarios where middleware nodes are updated to the new version and restarted one after the other.
If there are no restrictions towards the ports that can be used by middleware processes to communicate with each other, a default automatic port offset mechanism can be used and no manual changes are necessary. However, it is still possible to take full control over the used ports if needed, e.g. because firewalls have to be considered.

For this purpose, the new lean configuration property "com.openexchange.hazelcast.network.portOffset" is introduced, which allows configuring an explicit offset that is applied to the configured listening port.

With the default setting "auto", the offset is chosen automatically by the application, based on the shipped Hazelcast version (4 with the upcoming update to Hazelcast 4.0). It can still also be set to "0" to use the port from "com.openexchange.hazelcast.network.port" as-is, if one needs more control due to firewalls etc. However, one should then ensure that nodes running the previous version do use a different port, or all 'old' nodes in the cluster are shut down prior to starting the first 'new' one.

The supplementary package open-xchange-cluster-upgrade-from-7103-7104 will also consider a similar new lean configuration property "com.openexchange.hazelcast.network.client.port", that can be used to control which port is used when attempting to join nodes from the 'legacy' cluster.

With the default setting auto, the port configured through "com.openexchange.hazelcast.network.port" is used, plus an optional offset suitable for the shipped Hazelcast version the client connects to ("0" with the upcoming upgrade package from Hazelcast 3.12). It can still also be set to another port explicitly, matching the port the nodes in the 'legacy' cluster are listening to.

See also the documentation at

https://documentation.open-xchange.com/7.10.5/middleware/administration/running_a_cluster.html for further details.

### Change #SCR-734   Lean configuration options for OX Share (Federated Sharing) filestorage integration

Added the following lean configuration options for federated sharing files storage integration:

- com.openexchange.capability.filestorage_xox - Allows the user to integrate share-links from other App Suite installations (Cross-OX) as file storage account. Default is false

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### Change #SCR-740   Updated the default value of com.openexchange.config.cascade.scopes

Updated the default value of `com.openexchange.config.cascade.scopes` to "user, context, reseller, contextSets, server"

### Change #SCR-747   Configuration of Token Introspection for opaque OAuth Access Tokens

To be able to validate opaque OAuth Access Tokens issued by an external Identity and Access management System via token introspection, some new properties are introduced.

- com.openexchange.oauth.provider.introspection.endpoint - Specifies the endpoint for the introspection service

If HTTP Basic.Auth is supposed to be used for the token information request, this must be configured via the following lean configuration properties:

- com.openexchange.oauth.provider.introspection.basicAuthEnabled - Enables using HTTP Basic-Auth for the introspection endpoint. Default is false

- com.openexchange.oauth.provider.introspection.clientID - Gives the client identifier used as user name for HTTP Basic-Auth

- com.openexchange.oauth.provider.introspection.clientSecret - Gives the client secret used as password for HTTP Basic-Auth

The token introspection endpoint should respond with a JSON object that contains information about the user, among other things. The resolution of this user is configurable. To do this, the values required to resolve user and context are first read from the JSON object. The names of the properties that contain the information can be specified using the following lean configuration properties:

- com.openexchange.oauth.provider.contextLookupClaim - Specifies the name of the property that shall be used for context resolution. Default is "sub"

- com.openexchange.oauth.provider.userLookupClaim - Specifies the name of the property that shall be used for user resolution. Default is "sub"

 How the queried values are subsequently processed is configured via the following lean configuration properties.

- com.openexchange.oauth.provider.contextLookupNamePart - Specifies what portion of the value used for context resolution is supposed to be used for context look-up. Default value is "domain"

- com.openexchange.oauth.provider.userLookupNamePart - Specifies what portion of the value used for user resolution is supposed to be used for user look-up. Default value is "local-part"

.

**Change #SCR-749    New field "identifier" in permission and extended permission**
In order to transfer permissions associated with entities that do not reside in the context of the currently logged in user, the objects FolderPermission and FolderExtendedPermission of the HTTP API are extended by an opaque identifier field of type String.
The existing entity field will continue to work as-is for context-internal entities, however, it'll not be set in permissions associated with external entities.

**Change #SCR-750    Added new lean configuration option for OX Share (Federated Sharing) error handling**
Added the following lean configuration options for federated sharing files storage integration:

- com.openexchange.file.storage.xox.retryAfterErrorInterval - The time interval, in seconds, after which the access to an error afflicted XOX (cross ox) sharing account should be retried. Default: 3600

- com.openexchange.file.storage.xctx.retryAfterErrorInterval - The time interval, in seconds, after which the access to an error afflicted XCTX (cross context) sharing account should be retried. Default: 3600

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**Change #SCR-752    Lean configuration options for OX Share (Federated Sharing) file storage integration**
Added the following lean configuration options for federated sharing files storage integration:

- com.openexchange.capability.filestorage_xctx - Allows the user to integrate share-links from other App Suite contexts (Cross-context) as file storage account. Default is false

.

**Change #SCR-757    Extended "contact/picture?action=get" request**
The request to the contact/picture?action=get endpoint will be extended by the parameter account_id. Thus it is possible to search for contact pictures with the help of a specific account.
E.g.: With the help of a Cross-OX file storage account the request can be delegated to another OX server, searching for a contact picture as a guest on the remote system.

**Change #SCR-758    Remove properties to allow/deny illegal capability properties**
With 7.10.4 two settings were introduced:

- com.openexchange.capabilities.allowIllegalPermissionProvisioning

- com.openexchange.capabilities.applyIllegalPermissions

 which were default 'false' and provided the option to enable such capabilities which are in fact user permissions.
These settings are now removed and the 'false' path is enforced.

**Change #SCR-759    Removed oauth-provider.properties and introduced com.openexchange.oauth.**

**provider.mode**
The introduction of token-based authentication and authorization in form of JSON Web Tokens (JWT) and the ability to validate opaque OAuth Access Tokens issued by an external Identity and Access Management System via token introspection entails the following changes.

The following properties were converted to lean configuration properties in the course of the adjustments. This resulted in the removal of the oauth-provider.properties file, as it no longer provides any value.

- com.openexchange.oauth.provider.enabled
- com.openexchange.oauth.provider.isAuthorizationServer
- com.openexchange.oauth.provider.authcode.type
- com.openexchange.oauth.provider.encryptionKey

 Furthermore, the property com.openexchange.oauth.provider.isAuthorizationServer was transferred to com.openexchange.oauth.provider.mode during the adjustments.This new property offers the following configuration options:

- auth_server - Defines whether the enabled OAuth 2.0 provider does not only act as resource server but also as authorization server. The following functionality will be provided:
    - An authorization endpoint, token endpoint, and revocation endpoint are made available via HTTP
    - API calls for revoking access to external clients are made available, access can be revoked via App Suite
    - UI Provisioning interfaces to manage trusted clients are enabled

- expect_jwt - Defines whether the enabled OAuth 2.0 provider is accesible with OAuth 2.0 Bearer Access Tokens that are JWTs,which were issued by an external Identity & Access Management System.
- token_introspection - Defines whether the enabled OAuth 2.0 provider is able to grant access based on opaque bearer tokens through token introspection.

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**Change #SCR-760    New config parameter com.openexchange.calendar.preferNoReplyForIMip**
A new config parameter has been added: `com.openexchange.calendar.preferNoReplyForIMip'`
If set to 'true' then external imip mails are sent via the no-reply mail account. Similar to com.openexchange.calendar.preferNoReplyForNotifications. This parameter is reloadable and config cascade aware down to context level. Default is 'false'.

**Change #SCR-761    Introduced the admin property 'com.openexchange.admin.additionalEmailCheckRegex'**
Introduced the AdminUser property com.openexchange.admin.additionalEmailCheckRegex with which the admin can define regular expression to perform additional checks on e-mail addresses on created/changed regular and admin users.

**Change #SCR-763    Changing DC server config default value for max. cache entry count from -1 (unlimited) to 4.000.000 Specifying a default value for max. cache entry count that matches the default max VM memory setting of DC server instead of allowing unlimited entry count by default.**

```
# The maximum number of converter jobs cached, internally limited to a maximum of 15.000.000
entries
# specifying a value of -1 for this configuration item sets the value to the internal maximum
limit, a value of 0 disables the cache
# using the default value of 4.000.000 entries allows to run the DocumentConverter server
with 1024 MB VM heap memory (default configuration)
```

14

```
# if more entries are configured, the maximum VM heap memory for the DocumentConverter server
needs to be increased as well
# Default value: 4000000
com.openexchange.documentconverter.maxCacheEntries=4000000
# Default value: 4000000
com.openexchange.documentconverter.maxCacheEntries=4000000
```

**Change #SCR-768   New lean configuration options for limiting the amount of "Federated Sharing" accounts**
Added the following new lean configuration options for limiting the amount of "Federated Sharing" accounts:

- com.openexchange.file.storage.xox.maxAccounts - Defines the maximum number of allowed XOX accounts for a user within the xox provider. A value of 0 disables the limit. Default 20.

- com.openexchange.file.storage.xctx.maxAccounts - Defines the maximum number of allowed accounts for a user within the xctx provider. A value of 0 disables the limit. Default 20.

.

**Change #SCR-771   Added new property to offer the possibility to specify a regular expression that is additionally applied when checking for sane property**
Introduced new lean property "com.openexchange.admin.additionalConfigCheckRegex" to offer the possibility to specify a regular expression that is additionally applied when checking for sane property when calling c.o.admin.rmi.OXUserInterface.getUserConfigurationSource(): e.g. via "getuser-configurationsource" command-line tool.

**Change #SCR-774   Added new properties for caching of big message contents**
Added the following lean properties:

- com.openexchange.mail.compose.rdbstorage.content.fileCacheDir - Specifies the path to the directory used for caching of big message contents that exceed database's max. package size. If not specified the directory configured through "UPLOAD_DIRECTORY" property is used.

- com.openexchange.mail.compose.rdbstorage.content.maxSize - Specifies the max. content size that is allowed to be stored in the database. Provided that a file cache directory is set: A value of 0 (zero) causes every content to be stored as a file. A value greater than 0 (zero) gives the threshold that must be exceeded in order to deny storing into database, but store as a file instead. A value less than 0 (zero) causes to fall-back to database's "max_package_size" setting. Note: If no file cache directory is configured, this setting is ineffective.

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**Change #SCR-775   New properties for Cross-Context Calendar Provider**
In order to enable and configure certain aspects of the newly introduced calendar provider for cross-context shares, the following lean configuration properties are introduced with these default values (all config-cascade-aware and reloadable):

- com.openexchange.calendar.xctx2.enabled = false: Configures if the cross-context calendar provider for integrating federated shares is available for a user or not.

- com.openexchange.calendar.xctx2.maxAccounts = 20: Defines the maximum number of allowed accounts for a user within the cross-context calendar provider for integrating federated shares. Each account may provide multiple shared calendars. A value of 0 disables the limit.

- com.openexchange.calendar.xctx2.autoRemoveUnknownShares = true: Enables or disables the automatic removal of accounts in the cross-context calendar provider that refer to a no longer existing guest user in the remote context.

- com.openexchange.calendar.xctx2.retryAfterErrorInterval = 3600000: Configures the interval in milliseconds when a retry attempt should be performed after an error occurred when initializing the cross-context calendar access.

Further details are available at
https://documentation.open-xchange.com/components/middleware/config/7.10.5/#mode=search&
term=com.openexchange.calendar.xctx2

**Change #SCR-778   Set default dcs.name property to empty in DCS config file dcs.properties**
dcs.name property in

```
/etc/documents-collaboration/dcs.properties
```

needs to be set to empty in default case to auto generate unique dcs.name. If a value has been
set by admin, the admin given dcs.name should stay as set by admin.

**Change #SCR-780   Introduced the contacts property 'com.openexchange.contact.[providerId].enabled'**
Defines whether the contact provider with the specified identifier is enabled or disabled. Default
value: true

**Change #SCR-785   Changed default value for property "com.openexchange.carddav.userAgentForAggregatedCollection"**
In order to reflect the updated user agent string from the addressbook application on the latest macOS "Big Sur", the default value of property `com.openexchange.carddav.userAgentForAggregatedCollection`
from file carddav.properties is update to
`.CFNetwork.*Darwin.|.AddressBook.*CardDAVPlugin.*Mac_OS_X.|.Mac OS X.*AddressBook.|.macOS.*AddressBo`

**Change #SCR-790   Changed defaults for Drive folder move permission modes to 'inherit'**
Changed default value of lean properties

- com.openexchange.folderstorage.permissions.moveToPublic=inherit

- com.openexchange.folderstorage.permissions.moveToPrivate=inherit

- com.openexchange.folderstorage.permissions.moveToShared=inherit

Also dropped now obsolete property com.openexchange.folderstorage.inheritParentPermissions

**Change #SCR-794   New property to enable/disable free/busy lookups in cross-context calendars**
To enable or disable free/busy searches in integrated accounts from the cross-context calendar
provider, the new lean configuration property `com.openexchange.calendar.xctx2.enableFreeBusy`
is introduced. It can be specified through the config-cascade (for the context/user where the lookup
is initiated from), is reloadable, and defaults to `true`.
See https://documentation.open-xchange.com/components/middleware/config/7.10.5/#mode=search&
term=com.openexchange.calendar.xctx2.enableFreeBusy for further details.

**Change #SCR-798   Introduced IMAP self-protection to limit the number of messages that are returned to a client**
Introduced lean property `com.openexchange.imap.protection.maxNumberOfMessages`, which specifies the max. number of messages that are allowed to be returned to a requesting client. Default
is "100000".

## 5.2   Changes of Database Schema

**Change #SCR-705   Remove UWAWidgets tables**
The tables:

- uwaWidget

- uwaWidgetPosition

will be dropped. With previous versions of the Open Xchange server the code for the UWAWidgets
feature was removed. With 7.10.5 the remaining data in the database will be removed, too. The

data was kept until now to guarantee downgrade compatibility.

## Change #SCR-706    Remove Swift filestore tables
The table swift_filestore will be dropped.
With previous versions of the Open Xchange server the code for the Swift filestore feature was removed. With 7.10.5 the remaining data in the database will be removed, too. The data was kept until now to guarantee downgrade compatibility.

## Change #SCR-721    Added three new reseller tables to the confibdb
Liquibase update task ids:

- 7.10.5:subadmin_config_properties:create

- 7.10.5:subadmin_capabilities:create

- 7.10.5:subadmin_taxonomies:create

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## Change #SCR-726    Update task to create FULLTEXT index for infostore_document table
To improve searching for files, the InfostoreDocumentAddFulltextIndexUpdateTask update task creates a FULLTEXT index for the infostore_document table, which includes the columns defined in com.openexchange.infostore.searchFields (see SCR-725), default columns are title, description, filename and file_version_comment.
This update task is registered once the property com.openexchange.infostore.fulltextSearch is set to true

## Change #SCR-742    Update task to fix folding issue of encoded organizer values in table calendar_event
Due to a previous bug there may be values in the database table calendar_event that were folded during serialization and span over multiple lines, preventing them to be looked up again during searches.
This is adjusted with the database update task com.openexchange.chronos.storage.rdb.groupware.CalendarEventUnfoldOrganizerValuesTask.

## Change #SCR-751    Added column 'metaData' to table filestorageaccount
Added a new column 'metaData' to table filestorageaccount in order to store arbitrary meta data for a file storage account.

## Change #SCR-781    Added a new contacts_account table
Added a new contacts_account table with update task com.openexchange.contact.storage.rdb.groupware.ContactsAccountCreateTableTask

## Change #SCR-789    Update task to resolve stale references to no longer existing internal organizers in table calendar_event
Due to a previous bug there may be values in the database table calendar_event that contain references to no longer existing users. As this causes problems when such rows are purgend during the deletion of another user, it needs to be corrected through the database update task com.openexchange.chronos.storage.rdb.groupware.CalendarEventCorrectStaleOrganizerValuesTask.

## Change #SCR-802    Drop Dropbox's long-lived access tokens
Update task that removes the values from the accessToken columns from the oauthAccount tables in preparation for the short-lived tokens.

## Change #SCR-803    Added the expiryDate column to the oauthAccount table
Added the expiryDate column to the oauthAccount table to store the expiration timestamp of an access token.

## 5.3 Changes of Commandline Tools

**Change #SCR-738   Removed the –remove-config switch from the createcontext and createuser command line tools**
Removed the –remove-config switch from the createcontext and createuser command line tools.

**Change #SCR-739   Introduced new command line switches to the changeadmin command line tool**
Introduced new command line switches to the changeadmin command line tool to add/remove/-drop reseller capabilitiies, configuration and taxonomies.

**Change #SCR-791   Introduced the getresellercapabilities command-line tool**
Introduced the getresellercapabilities command-line tool. Please see https://documentation.open-xchange. com/7.10.5/middleware/command_line_tools/reseller.html

## 5.4 Changes of Behavior

**Change #SCR-728   Need to enhance the FileStorageFileAccess using listener**
IDBasedFileAccessListener is triggered when creating/moving/copying files. Would like to enhance it to return a new FileStorageFileAccess.
This will be used for the encrypted folder story (Guard-211), where a decorated FileStorageFileAccess will be used if the folder is marked for encryption.

**Change #SCR-735   Integration of OX Share (Federated Sharing) folders**
For a seamless integration of shares from other contexts or OX servers into App Suite, the shares will appear in the subscribing user's folder tree:
The entry point to an OX App Suite remote share, related to to a different context or a different OX App Suite installation, appears in the folder tree of the subscribing user below folder "10" or "15" , i.e. as an additional sub tree below "Shared Files", or "Public Files".

**Change #SCR-737   Restructure topbar**
Based on topbar's restructuring some parts changed that might affect customisations. This primarily affects selectors and extensions of the Support dropdown (user image respectively initials). Help and Settings are now dropdowns. Some of the entries moved from Support to these. Also some indexes of extensions changed accordingly.

```
# old
io.ox/core/appcontrol/right/dropdown
# new
io.ox/core/appcontrol/right/help
io.ox/core/appcontrol/right/settings
io.ox/core/appcontrol/right/account
```

Launcher extension moved from 'io.ox/core/appcontrol/right' to 'io.ox/core/appcontrol/left'

**Change #SCR-776   PIM folders do no longer inherit parents permissions on creation**
Since we do not display the tree structure to the end users any more it is no longer obvious, why a newly created PIM folder should inherit its parents permissions. Therefor we now just apply the owners permissions if no additional permissions are provided by the client.

**Change #SCR-777   Refactored SSO autologin handling**
Behavioural changes: Dropped cookies open-xchange-saml-<hash> and open-xchange-oidc-<hash> set open-xchange-session-<hash> cookie instead which is now used for autologin. If cookie open-xchange-session-<hash> exists, autologin is tried every time before starting a full IDM login roundtrip. Removed dependency on com.openexchange.ajax.login.http-auth.autologin for login?action=redeem-Reservation action, always set open-xchange-session-<hash> cookie now
Configuration changes:  Changed default values:  com.openexchange.saml.enableAutoLogin new

default value is true and com.openexchange.oidc.autologinCookieMode new default value is ox_direct

Deprecated value:com.openexchange.oidc.autologinCookieMode value sso_redirect is now deprecated, if set it is treated like off.

**Change #SCR-787    Draft-based Mail Compose**

With 7.10.2 a new backend implementation for composing emails in the webmailer was introduced, to provide contemporary features like instant attachment upload, attachment previews and listing of abandoned compose windows after login.

The original implementation was based on App Suite database and filestore and produced real draft emails only on explicit user requests. To address operational and usability concerns, an alternative mail compose backend implementation based on real draft emails is now provided. The new approach operates solely on draft emails in users "Drafts" folders and is enabled by default. It is subject to replace the former mechanism.

The database and filestore-based mechanism is herewith declared as deprecated and subject for removal in a future release.

The new mechanism can be disabled – and therefore the former one still being used instead – by setting com.openexchange.mail.compose.mailstorage.enabled = false.

Please note that the former approach is still used for all still open composition spaces. Do not decommission database and filestore resources until no more spaces are managed by the old mechanism.

**Change #SCR-786    Enable author permissions for calendar guests**

Until 7.10.4 guests aren't allowed to have other permissions on a shared calendar than viewer. To enable more interactions for guest on calendars now the owner of the calendar folder can set author permission for a guest, too. This will enable the guest to create, modify and delete items on the calendar.

Due to this change subsequent scheduling of notification or iMIP mails will be sent using the no-reply account in case the guest user is acting.

## 5.5    Changes of Packaging

**Change #SCR-709    Upgraded Hazelcast from v3.12.6 to v4.1.1**

- Upgraded Hazelcast IMDG from v3.12.6 to v4.1.1 in middleware core

- Upgraded Hazelcast Enterprise from v3.12.6 to v4.1.1 in hazelcast-enterprise

**Change #SCR-710    Added new bundles/packages to invalidate cluster nodes running v7.10.3/v7.10.4 of the Open-Xchange server (Hazelcast v3.12.x) during upgrade**

- Added new bundle "com.openexchange.hazelcast.upgrade312", which is located in new package "open-xchange-cluster-upgrade-from-7103-7104" in the core repository (middleware/core.git)

- Added new bundle "com.openexchange.hazelcast.enterprise.upgrade312", which is located in new package "open-xchange-cluster-enterprise-upgrade-from-7103-7104" in the hazelcast-enterprise repository (middleware/hazelcast-enterprise.git)

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**Change #SCR-711    Moved the oxsysreport to the open-xchange-core package**

The oxsysreport utility was moved from the open-xchange-admin to the open-xchange-core package.

**Change #SCR-754    New bundle com.openexchange.conversion.datahandler**

A new bundle com.openexchange.conversion.datahandler was introduced as part of open-xchange-

core. It contains a set of common used data handlers.

**Change #SCR-783   New lean configuration options for auto-removing expired "Federated Sharing" accounts**
Added the following new lean configuration options for auto removing expired "Federated Sharing" accounts:

- com.openexchange.file.storage.xctx.autoRemoveUnknownShares - Indicates whether the automatic removal of accounts, in the cross-context file storage provider, that refer to a no longer existing guest user in the remote context is enabled or not. Default: true

- com.openexchange.file.storage.xox.autoRemoveUnknownShares - Indicates whether the automatic removal of accounts, in the cross-ox file storage provider, that refer to a no longer existing guest user in the remote context is enabled or not. Default: true

.

**Change #SCR-797   Removed obsolete open-xchange-upsell-multiple package**
Package is obsolete

**Change #SCR-800   Completely dropped immature, memory-consuming and vulnerable data-retrieval feature**
Completely dropped immature, memory-consuming and vulnerable data-retrieval feature. This consists of:

- open-xchange-dataretrieval package

- com.openexchange.groupware.dataRetrieval bundle

- com.openexchange.groupware.dataRetrieval.attachments bundle

- com.openexchange.groupware.dataRetrieval.mail bundle

- com.openexchange.url.mail.attachment bundle

- dataRetrieval.properties properties file

.

**Change #SCR-805   Package open-xchange-mobile-config was removed**
The package was meant for OX6 frontend, which is EOL for some time now. Therefore we remove this package as it does not provide any use any more.

# 6   Changes relevant for Developers

## 6.1   Changes of external APIs

**Change #SCR-729   New option for enqueuing import requests in job queue**
Importing large amounts of groupware data like contacts or appointments from a file might take some time, possibly even longer than the configured proxy timeout. So, it makes sense to put import operations into the job queue and return a reference to the job to the client via which he can check for progress.
Therefore, the boolean parameter allow_enqueue is introduced for all actions of the module import, i.e. ICAL, VCARD, CSV and OUTLOOK_CSV. If set to true, the request is allowed for being submitted to the job queue.

**Change #SCR-731   Added actions to the "share/management" HTTP API module**
With the new "Federated Sharing" feature we are able to integrate shares from a remote OX server into the local server. To support an easy adding of those shares, it is planned that the UI will show buttons on sharing mails advising the user on what to do with the share. See also OXUI-851.

However the UI can't know based on the sharing link alone about e.g. if the share is already subscribed. Therefore the MW offers new API endpoints

- `/share/management?action=analyze`

- `/share/management?action=subscribe`

- `/share/management?action=remount`

- `/share/management?action=unsubscribe`

The analyze action will take care of the analyze process explained above. Based on the response the UI can then show the correct buttons efficiently using and executing the other actions.

**Change #SCR-741    Added new action to "/quota" end-point to enable clients to directly query unified quota**
Added "unified" quota action to "/quota" end-point to enable clients to directly query unified quota: e.g. "/quota?action=unified".

**Change #SCR-746    New field "identifier" in object permission and extended object permission**
In order to transfer permissions associated with entities that do not reside in the context of the currently logged in user, the objects InfoItemPermission and InfoItemExtendedPermission of the HTTP API are extended by an opaque identifier field of type String.
The existing entity field will continue to work as-is for context-internal entities, and can still be used to add new internal permission entries, however, it'll not be set in permissions associated with external entities.

**Change #SCR-755    Removed the rest based jslob servlet**
The rest based jslob servlet has been removed, because it doesn't work properly in all cases and because it is currently not used and also not documented.

**Change #SCR-762    New field "metadata" in file account data**
In order to supply the client with additional arbitrary metadata of file storage accounts, the FileAccountData object as used by the fileaccount module is extended with a metadata field that carries account-specific metadata as generic JSON object.
Further details are available at
`https://documentation.open-xchange.com/components/middleware/http/7.10.5/index.html?version=7.10.5#!Filestorage`

**Change #SCR-764    The oauth/modules api endpoint has been deprecated**
The session and oauth servlets have been consolidated and every oauth capable endpoint can be accessed via the normal path. Because of this the oauth/modules prefix has been deprecated and will be removed in the future.

**Change #SCR-766    New field "extendedParameters" for attendees in module chronos**
The Attendee model is extended by the additional field extendedParameters, which holds additional arbitrary parameters as name/value pairs that are not explicitly included as properties in Attendee objects (aligned to `https://tools.ietf.org/html/rfc5545#section-3.2`). See
`https://documentation.open-xchange.com/components/middleware/http/7.10.5/index.html#!Chronos/getEvent` for further details.

**Change #SCR-769    New parameter "folder" for "get" action in module "quota"**
Introducing a new string parameter "folder" to the get action of the "quota" module. This new, and optional, parameter can be used to query the quota for a specific folder.

**Change #SCR-773    New action "backwardLink" in module "infostore" / "files"**
A new action backwardLink is introduced in module infostore alias files of the HTTP API to generate a backward link into the guest account of a subscribed share, pointing to a specific target, which can be used to open the regular, browser-based guest mode on the remote host. Only available if supported by the responsible file storage service (capability BACKWARD_LINK.

More information is available at
https://documentation.open-xchange.com/components/middleware/http/7.10.5/index.html?version=
7.10.5#!Infostore

**Change #SCR-782   Introduced a new 'contact' content type for the new Contacts Account/Provider layer**
When using the new content type contact to retrieve the available folders of the contacts module, there may also be contacts and folders with non-numerical identifiers, i.e. strings. The non-numerical identifiers might have the con:// prefix followed by the account identifier of the contacts account and then the folder identifier, to fully describe a folder id, e.g. con://11/38 describes the folder 38 in contacts account 11.

**Change #SCR-784   Removed the deprecated 'showAdmin' HTTP API parameter from the 'contacts' module**
Removed the deprecated 'showAdmin' HTTP API parameter from the 'contacts' module

## 6.2  Changes of internal APIs

**Change #SCR-717   Enhance the ResellerService for CMC**
Introduced the following methods:

- ResellerAdmin getResellerById(int resellerId) throws OXException

- ResellerAdmin getResellerByName(String resellerName) throws OXException

- List<ResellerAdmin> getResellerAdminPath(int cid) throws OXException

- List<`ResellerAdmin`> getSubResellers(int parentId) throws OXException

- List<`ResellerAdmin`> getAll() throws OXException

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**Change #SCR-722   Introduced new methods to ResellerService**
Enhanced the ResellerService over the following methods:

- Set<`ResellerCapability`> getCapabilities(int resellerId) throws OXException

- Set<`ResellerCapability`> getCapabilitiesByContext(int contextId) throws OXException

- ResellerConfigProperty getConfigProperty(int resellerId, String key) throws OXException

- ResellerConfigProperty getConfigPropertyByContext(int contextId, String key) throws OXException

- Map<`String, ResellerConfigProperty`> getAllConfigProperties(int resellerId) throws OXException

- Map<`String, ResellerConfigProperty`>getAllConfigPropertiesByContext(int contextId) throws OXException

- Map<`String, ResellerConfigProperty`>getConfigProperties(int resellerId, Set<`String`> keys) throws OXException

- Map<`String, ResellerConfigProperty`> getConfigPropertiesByContext(int contextId, Set<`String`> keys) throws OXException

- Set<`ResellerTaxonomy`>getTaxonomies(int resellerId) throws OXException

- Set<`ResellerTaxonomy`>getTaxonomiesByContext(int contextId) throws OXException

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**Change #SCR-745   Enable access with opaque bearer tokens through token introspection**
Added an implementation of com.openexchange.oauth.provider.authorizationserver.spi.OAuthAuthorizationService that validates opaque OAuth Access Tokens using Token Introspection.

**Change #SCR-748   Changed type argument in interface AdditionalFolderField**

The type argument used in the declaration of the interface com.openexchange.ajax.customizer.folder.AdditionalFolderField will be changed from com.openexchange.groupware.container.FolderObject to com.openexchange.folderstorage.Folder for increased compatibility with the folder implementations used at the JSON layer.

This change will require all existing implementations of AdditionalFolderField to be adjusted accordingly.

**Change #SCR-753   Changed FolderService, added method to search folders by name**

Added method to interface "com.openexchange.folderstorage.FolderService" to search folders by name: c.o.folderstorage.FolderService.searchFolderByName()

That method returns a list of folders matching search criteria. Accepting parameters:

- treeId The tree identifier

- folderId The 'root' folder for search operation

- contentType The content type of folders to search

- query The query to search

- date The time stamp to limit search result to folders that are newer

- substring Substring matching

- ignoreCase Ignore case

- includeSubfolders Include all subfolders below given folder identifier

- all `true` to deliver all subfolders regardless of their subscribed status: `false` to deliver subscribed folders only

- start A start index (inclusive) for the search results. Useful for paging

- end An end index (exclusive) for the search results. Useful for paging

- session The session

- decorator The optional folder service decorator

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**Change #SCR-779   Upgraded Google Guava library**

Upgraded Google Guava library from v28.2 to v30.0

**Change #SCR-788   Updated vulnerable 3rd party libraries**

Updated netty-all library in com.turo.pushy and c.o.nosql.cassandra bundle to 4.1.54
Updated httpclient-osgi library to 4.5.13
Updated netty-tcnative-boringssl-static library in com.turo.pushy bundle to 2.0.34 for compatibiliy reasons

**Change #SCR-792   New method overloads for ModuleAdjuster#adjustTarget**

The adjustTarget methods in interface com.openexchange.share.core.ModuleAdjuster are extended with an additional parameter to hand down an opened database connection. This has to be done to recognize not yet committed changes properly when adjusting target paths based on folder permissions.

**Change #SCR-795   Enhanced the AntiVirusService's methods over the AntiVirusEncapsulatedContent POJO**

Enhanced the AntiVirusService's methods over the AntiVirusEncapsulatedContent POJO to include the original HTTP request/response's headers.

**Change #SCR-796   Updated EmailAddress RFC2822 library**

The nested library emailaddress-rfc2822 has been updated from v2.1.3 to v2.2.0

**Change #SCR-799   Upgraded Dropbox SDK**
Upgraded Dropbox Java SDK from v3.0.3 to v3.1.5. Library is nested inside bundle "com.openex-
change.oauth.dropbox"

**Change #SCR-801   Enhanced the OAuthToken over an expiration method**
Enhanced the OAuthToken over an expiration method which returns the expiration timestamp of
an OAuth access token.

## 6.3   Changes of provisioning APIs

**Change #SCR-723   Enhanced the ResellerAdmin data type**
Enhanced the ResellerAdmin data type over the following fields:

- capabilities - Set

- capabilitiesToAdd - Set

- capabilitiesToRemove - Set

- capabilitiesToDrop - Set

- taxonomies - Set

- taxonomiesToAdd - Set

- taxonomiesToRemove - Set

- configuration - Map

- configurationToAdd - Map

- configurationToRemove - Map

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**Change #SCR-793   Enhanced the ResellerAdmin SOAP data type**
Enhanced the ResellerAdmin SOAP data type over the following fields:

- capabilities - The existing capabilities of the ResellerAdmin

- capabilitiesToAdd - The capabilities to add to the ResellerAdmin

- capabilitiesToRemove - The capabilities to remove from the ResellerAdmin

- capabilitiesToDrop - The capabilities to remove from the database table and restore the de-
  fault behaviour for the ResellerAdmin

- taxonomies - The existing taxonomies of the ResellerAdmin

- taxonomiesToAdd - The taxonomies to add to the ResellerAdmin

- taxonomiesToRemove - The taxonomies to remove from the ResellerAdmin

- configuration - The existing configuration of the ResellerAdmin

- configurationToAdd - The configuration to add to the ResellerAdmin

- configurationToRemove - The configuration to remove from the ResellerAdmin

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# 7 Tests

Not all defects that got resolved could be reproduced within the lab. Therefore, we advise guided and close monitoring of the reported defect when deploying to a staging or production environment. Defects which have not been fully verified, are marked as such.
To avoid side effects, the shipped packages have gone through automated regression test on both, a Continuous Integration System and a dedicated server set-up for system and integration testing. All changes have been checked for potential side-effects and effect on behavior. Unless explicitly stated within this document, we do not expect any side-effects.

# 8 Fixed Bugs

DOCS-2330, DOCS-2526, DOCS-2540, DOCS-2619, DOCS-2691, DOCS-2822, DOCS-2854, DOCS-2884, DOCS-2921, DOCS-3011, MWB-346, MWB-457, MWB-459, MWB-489, MWB-501, MWB-542, MWB-562, MWB-568, MWB-594, MWB-614, MWB-632, MWB-633, MWB-652, MWB-653, MWB-689, MWB-694, MWB-705, MWB-751, MWB-762, MWB-768, MWB-792, MWB-799, MWB-805, MWB-806, MWB-818, MWB-833, MWB-915, OXUIB-177, OXUIB-393, OXUIB-394, OXUIB-404, OXUIB-416, OXUIB-444, OXUIB-463, OXUIB-467, OXUIB-472, OXUIB-485, OXUIB-515, OXUIB-523, OXUIB-529, OXUIB-535, OXUIB-536, OXUIB-541, OXUIB-549, OXUIB-556, OXUIB-561, OXUIB-573, OXUIB-584, OXUIB-591, OXUIB-602, OXUIB-610, OXUIB-627, OXUIB-647, MWB-839, OXUIB-411, OXUIB-412, OXUIB-421, OXUIB-509, OXUIB-645,