

# Open-Xchange OX6 Installation and Administration

## Open-Xchange™ OX6: Installation and Administration

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## **Table of Contents**

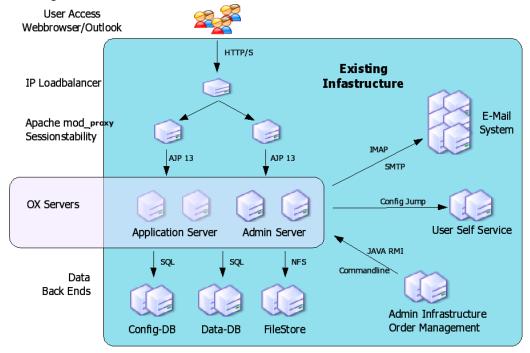
1 Open Xchange installation	
1.1 Software Packages and Platform Installation	2
1.2 Software Installation	4
1.3 Initial Setup	6
1.4 Network configuration	. 10
1.5 Webserver Configuration	
1.6 Creating your first context and users	. 14
1.7 Imap and smtp server	. 14
1.8 Authentication	. 14
1.9 User self service	. 15
2 OSGi	
2.1 OSGi - an overview	
3 HTML Whitelist	
3.1 HTML Whitelist Configuration	
4 Spam Handler	. 19
4.1 Spam Handler Configuration	. 19
4.2 Phishing E-Mails	. 19
5 MySQL Configuration	
5.1 Software Packages	
5.2 Recommended settings in my.cf	
5.3 Privileges for the Open-Xchange Database Users	
6 IMAP server requirements	
6.1 IMAP server requirements	
6.2 Tested IMAP servers	. 23
7 Contacts LDAP (GAL)	. 24
7.1 Introduction	. 24
7.2 Deliverables	. 24
7.3 Limitations and specials	. 24
7.4 Installation	
7.5 Configuration	
8 Session Migration	. 28
8.1 Introduction	
8.2 Preparation	. 28
8.3 Migration	. 29
9 Open Xchange CLT reference	
9.1 Shell scripts	
9.2 RMI calls	. 34
10 Tuning the Open-Xchange Server	
10.1 Configuration Options Groupware and Admin	
10.2 Configuration Options Groupware	
10.3 Configuration for the Admin Daemon	
11 Logging and Exception Handling	
12 Error codes	
Software License Agreement	

## Chapter 1. Open Xchange installation

This chapter describes the initial setup and configuration of the Open-Xchange services. Basically there are four types of machines which need to be installed/available as well as an additional service (more information can be found in the Architecture Whitepaper on the Open-Xchange website):

- Frontend Server that runs the Apache webserver and forwards the user requests to the application servers.
- Application Server which runs the Open-Xchange application itself
- · Database Server that runs the MySQL database or databases
- Administration Server that is accessed through the RMI, SOAP or CLT interface for provisioning
- Filestore Service which holds the storage space for the FileStore that needs to be available on all machines

These services can be installed together on one machine, distributed over several machines or in high end environments, clustered over several clusters.



The basic procedure is to first install the Debian operating system on the servers including the necessary packages like Apache, mod\_proxy, MySQL, depending on the type. Then, after installing the Open-Xchange packages, the basic configuration for Open-Xchange has to be done and the initial database schema has to be created. This enables the Open-Xchange application to access the necessary data on the relevant subsystems.



During the Debian installation, select the additional packages "Web Server and SQL Database". Additionally, you need to make sure that SUN Java 5 is installed on your systems. Depending on the version of Debian you can install Java through the inclusion of the "non-free" repository from the installation sources.

Detailed information about the setup of each machine type will be described in the next section.

## 1.1. Software Packages and Platform Installation

Following Open-Xchange packages are to be installed on the relevant machines. If one server will e. g. act as Frontend Server and as Application Server, all packages for both server types are needed.

## 1.1.1. Shared Packages

Shared packages contain common functions and libraries that are used by the Application and the Administration server. They need to be installed on all machines which are to serve one or both services. Of course all dependencies for the packages have to be resolved.

· open-xchange-common\_<version>\_all.deb

## 1.1.2. Groupware/Application Server

These Open-Xchange packages are needed on all machines which are to be used as Groupware/Application Server.

- open-xchange-sessiond\_<version>\_all.deb
- open-xchange-i18n\_<version>\_all.deb
- open-xchange-management\_<version>\_all.deb
- open-xchange-server\_<version>\_all.deb
- open-xchange-configread\_<version>\_all.deb
- open-xchange\_<version>\_all.deb
- open-xchange-jcharset\_<version>\_all.deb
- open-xchange-monitoring\_<version>\_all.deb
- · open-xchange-control\_<version>\_all.deb
- open-xchange-charset\_<version>\_all.deb
- open-xchange-global\_<version>\_all.deb
- open-xchange-cache\_<version>\_all.deb
- open-xchange-push-udp\_<version>\_all.deb
- open-xchange-smtp\_<version>\_all.deb

- open-xchange-settings-extensions\_<version>\_all.deb
- · open-xchange-contactcollector\_<version>\_all.deb

## Plugins for the Groupware/Application Server

These plugins can be installed to get additional functionality for the application server. Services for authentication (e.g. open-xchange-authentication-database) and mailbackend (e.g. open-xchange-imap) are needed so that users can login and access their mailbox.

open-xchange-configjump-generic\_<version>\_all.deb

This plugin generates the link for customers when they click on the Extras link in the GUI settings tree

open-xchange-authentication-database\_<version>\_all.deb

This plugin does the user authentication against the password, stored in the open-xchange database

• open-xchange-authentication-ldap\_<version>\_all.deb

This plugin does the user authentication against an external ldap server

• open-xchange-authentication-imap\_<version>\_all.deb

This plugin does the user authentication against an external imap server

· open-xchange-axis2\_<version>\_all.deb

This plugin provides the backend for the SOAP interface to the admin daemon RMI interface

open-xchange-admin-soap\_<version>\_all.deb

This plugin provides the SOAP interface to the admin daemon RMI interface

• open-xchange-imap\_<version>\_all.deb

This plugin provides IMAP functionality so that users can access their IMAP mailbox

open-xchange-spamhandler-default\_<version>\_all.deb

This plugin provides basic spam functionality

• open-xchange-spamhandler-spamassassin\_<version>\_all.deb

This plugin provides spam functionality for spamassassin is in use

open-xchange-mailfilter\_<version>\_all.deb

This plugin provides access to backends that talk managed sieve

• open-xchange-group-managerequest\_<version>\_all.deb

This plugin adds functionality so users can manage groups within the GUI settings tree

· open-xchange-resource-managerequest\_<version>\_all.deb

This plugin adds functionality so users can manage resources within the GUI settings tree

• open-xchange-commons-logging-log4j\_<version>\_all.deb

This plugin adds support for log4j so that open-xchange does log through syslog, depends on package open-xchange-log4j

· open-xchange-log4j\_<version>\_all.deb

This plugin adds support for log4j so that open-xchange does log through syslog, depends on package open-xchange-commons-logging-log4j

• open-xchange-passwordchange-database\_<version>\_all.deb

This plugin adds functionality to the passwordchange servlet so that the password can be changed in the open-xchange database

• open-xchange-passwordchange-servlet\_<version>\_all.deb

This plugin adds functionality so that user can cache their password in the open-xchange settings menu

## 1.1.3. Administration Server

These Open-Xchange packages have to be installed on all machines which are to be used as Administration Server for administration and provisioning.

- open-xchange-admin-client\_<version>\_all.deb
- open-xchange-admin-plugin-hosting\_<version>\_all.deb
- open-xchange-admin-plugin-hosting-doc\_<version>\_all.deb
- open-xchange-admin\_<version>\_all.deb
- open-xchange-admin-doc\_<version>\_all.deb
- open-xchange-admin-plugin-contextrestore\_<version>\_all.deb

## 1.1.4. Frontend Server

The following packages need to be installed on machines which provide the AJAX GUI frontend to the users.

- · open-xchange-online-help-he-en\_<version>\_all.deb
- open-xchange-online-help-he-de\_<version>\_all.deb
- open-xchange-online-help-he-fr\_<version>\_all.deb
- · open-xchange-gui\_<version>\_all.deb

## 1.2. Software Installation

Below, you will find a summary of the necessary packages for each server type. For the initial installation and configuration, all available Open-Xchange $^{\text{TM}}$  packages need to be

installed on one single server. This is needed by the configuration scripts in order to set up the configuration files for all services. Later, this configuration can be distributed to the other peers in a clustered setup.

After the installation of the Open-Xchange packages, the administration and provisioning scripts are located in the directory <code>/opt/open-xchange/sbin/</code> and the configuration files in <code>/opt/open-xchange/etc/</code>.

## 1.2.1. Application Server

Packages to be installed on all Application Servers:

- Groupware Service Packages
- Shared Packages
- MySQL 5 Client Packages
- Java 5 Packages
- Additional Plugins

## 1.2.2. Administration Server

Packages to be installed on all Administration and Provisioning Servers:

- Administration Service Packages
- Groupware Packages
- Shared Packages
- MySQL 5 Client Packages
- Java 5 Packages
- Additional Plugins

## 1.2.3. Frontend Server

Packages to be installed on all Frontend Servers (more details about the configuration of Apache can be found in a separate chapter)

- Ajax GUI Package
- Apache2
- mod\_proxy

## 1.2.4. Database Server

Packages to be installed on the database servers:

MySQL 5

## 1.2.5. JAVA<sup>TM</sup> version

All Open-Xchange services are written in Java and depend on java<sup>TM</sup> version 1.5.0 patchlevel minimum 8.

JAVA™ needs to be installed on all types of machines, except pure frontend servers.

root@oxhet:~# java -version java version "1.5.0\_08" Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0\_08-b03) Java HotSpot(TM) 64-Bit Server VM (build 1.5.0\_08-b03, mixed mode)

## 1.2.6. Installing Open-Xchange Server Language Packages

## Where to get the language packages?

The language packages can be found in the i18n subdirectory of the latest OX release on http://software.open-xchange.com. Unsupported languages are available in the Unsupported directory, e.g. SP5/i18n.

## How to install?

Download the packages specific to your operating system and install them.

The open-xchange-lang-\* packages contain translations for the open-xchange-server package.

The open-xchange-lang and open-xchange-gui-lang-\* packages must be installed on a system where the open-xchange-gui package is installed.

## How to get access to the supported packages?

You need to purchase a valid license to access these packages. To do so please first read *How to create an OXAccount and unlock Keys within the License Database*: http://sdb.open-xchange.com/node/65

## 1.3. Initial Setup

## 1.3.1. Requirements

Plain installed Debian GNU/Linux 4.0 (codename etch) Configured network Latest Open-Xchange packages

## 1.3.2. Preparations

Install the required packages through a debian package tool. The required packages are:

apache2 libapache2-mod-proxy (preferred) or libapache2-mod-jk sun-java5-jre mysql-server

mysql-client-5.0

Starting with this release, the apt repository is signed with the Open-Xchange buildkey and all rpm packages are also signed with this key. In order to install Debian packages, you need to import the key into the apt keyring. Please follow the instructions as documented in

http://www.open-xchange.com/wiki/index.php?title=Importing OX Buildkey

Install the packages by executing:

apt-get install apache2 sun-java5-jre mysql-server mysqlclient-5.0

Afterwards, start the mysql service:

/etc/init.d/mysql start



In a cluster setup the mysql server should be on a separate machine.

## 1.3.3. Initialize the configuration database

First, an initial configuration scheme will be created inside a database. This database will hold pointers to and about contexts, filestores, Open-Xchange servers, database pools for contexts and their relations. This scheme is typically called configdb which should not be changed. The initconfigdb command is used to set up this scheme in the database.

Ensure, that the database process itself is set up correctly, started without errors and listens on a TCP/IP socket before running this script. More details on how to configure the MySQL database can be found in Chapter 5, MySQL Configuration the MySQL chapter. The database connection can be tested by issuing the mysql command:

## Testing the mysql connection

The values in the example have to be replaced to match the target environment. The command needs to be executed on the machines where the Open-Xchange services should run.

```
root@oxhe:~# mysql -h db1 -u openexchange -P 3306 -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 800 to server version: 5.0.22-Debian_Oubuntu6.06.3-log
```

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> create database testdbox; Query OK, 1 row affected (0.00 sec)

mysql> drop database testdbox; Query OK, 0 rows affected (0.00 sec)

mysql> exit Bye

Open-Xchange connects to the database with the user passed to --configdb-user. The user can also be created with the initconfigdb command and the -a switch. This switch only works when the database runs locally on the system and root access is not disabled for the database. When the database runs on a remote host, the user has to be created manually before running the script. The user is used by the applications to access and create the

configuration database (configdb). It is important to also pass this user to the oxinstaller command later, to ensure that the credentials are written to the configuration files so that all applications are able to access this database schema. In the following examples, the user is named openexchange.

The machine passed to the parameter —configdb-host is the machine/cluster where the MySQL server dedicated for the configdb is installed.

More details about initconfigdb can be found in the CLT reference chapter.

## Example 1.1. initconfigdb

Warning: the database schema given to the **initconfigdb** command (default configdb) will be deleted prior to its creation.

root@oxhe:~# /opt/open-xchange/sbin/initconfigdb --configdb-pass=secret initializing configdb from scratch... done

## 1.3.4. Initial Configuration

The next step is to initially set up the Open-Xchange daemon. Before starting any service, all basic configuration files need to be set up correctly. Provide the appropriate parameters when running the oxinstaller command. Be sure to use a generic --servername, since all Open-Xchange servers must have the same name in a cluster setup. In detail i. e., --servername should not be a machine/DNS name as it is an OX internal name used to identify OX systems.

When authentication is not disabled, the "master admin" user is used to authenticate against the administration daemon to create, modify, and delete contexts. The default name of this admin is oxadminmaster and it is recommended not to change the name. The password for this user is set by the --master-pass option.

More details about oxinstaller can be found in the CLT reference chapter.

## Example 1.2. oxinstaller

root@oxhe:/home/admin# /opt/open-xchange/sbin/oxinstaller --servername=oxapp \
--configdb-pass=secret --master-pass=mypw
setting up groupware configuration /opt/open-xchange/etc/groupware
.......
setting up admin daemon configuration /opt/open-xchange/etc/admindaemon
........
\*\*\* RMI authentication is enabled

using oxadminmaster as master account groupware and admin configuration done admin daemon must now be restarted if already running

## 1.3.5. Initial Registration of Objects in the Configuration Database

This chapter describes the initialization of the Open-Xchange data storages, databases and filestore. Additionally, all services will be registered and configured to work smoothly together. At the end of this chapter the OX applications will be up and running. After finishing these steps, some other services like Apache need to be configured as well to access the Open-Xchange Groupware as user.

Now the Open-Xchange administration daemon will be initially started and the application server (supplied as servername to the oxinstaller command) needs to be registered in the configuration database as well as the first filestore. This is necessary to allow all services to

find the right connections and the stored files on disk. The registerserver and the registerfilestore commands will perform these steps.

There are different possibilities to distribute the data from different customers into separated logical database schemas as well as into separated database clusters on separate hardware. This distribution is done automatically through the Administration Daemon when adding a new customer to the system. To allow the Administration Daemon to do this, those databases need to be registered in the system (configuration database). This is done with the command registerdatabase.

The examples in this documentation are based on the most trivial installation, where everything is installed on the same machine.

When these steps are done the groupware service is to be started and customer objects can be created.

configdb and contextdb can be deployed on the same machine to save hardware costs or can be installed on different clusters to achieve a higher scalability.

## Example 1.3. Starting the Administration Daemon

root@oxhe:~# /etc/init.d/open-xchange-admin start Starting Open-Xchange Admin Daemon: open-xchange-admin.

### Example 1.4. registerserver

 ${\tt root@oxhe:~\#/opt/open-xchange/sbin/registerserver-n\ oxapp\ -A\ oxadminmaster\ \backslash\ -P\ mypw} \\ {\tt server\ 10\ registered}$ 

## Create a local directory that can be used as Open-Xchange filestore.

To do so execute

mkdir data/filestores/fs1

chown open-xchange:open-xchange /var/opt/open-xchange-filestore-1

## Example 1.5. registerfilestore

The groupware application needs write access to the toplevel filestore directory. This directory needs to be mounted on all application servers and be accessible under the same path. The share needs to have at least one subdirectory. Please ensure, that the user who is running the application server has sufficient rights. Typically, this is the open-xchange user.

root@oxhe:~# /opt/open-xchange/sbin/registerfilestore -A oxadminmaster -P mypw \ -t file:///var/opt/open-xchange-filestore-1/fs1 -s 10000 -x 50000 filestore 11 registered

### Example 1.6. registerdatabase

--dbuser is the user which will be used by the groupware applications to access the created database. --maxunit gives the maximum number of contexts (customers) to insert into one database schema. When this limit is reached, the administration deamon tries to create the new customer on other registered databases. If there are none free, an error gets thrown.

root@oxhe:~# /opt/open-xchange/sbin/registerdatabase -A oxadminmaster -P mypw \ -n "database22" -p secret -m true -l true -o 0 -a 10 database 12 registered

### Example 1.7. Starting the Groupware Daemon

root@oxhe:~# /etc/init.d/open-xchange-groupware start Starting Open-Xchange Groupware: open-xchange-groupware.

## 1.4. Network configuration

The Open-Xchange software relies on a w orking network setup and needs to have some special configuration.

## 1.4.1. hosts file:

The own host name must be added to /etc/hosts so that the Java RMI clients can connect to the server, e.g.:

10.0.0.1 app1 app1.example.com



It is recommended to have a dns caching client installed or all servers added to local hosts files so that DNS problems do not affect the operation of the whole system.

## 1.4.2. routing:

Most open-xchange caches (\*.ccf files) and the push service have an internal automatic configuration so they can find each other in clustered setups. This service is based on IP multicast. According to the configured multicast address, a route needs to be added to the linux kernel routing table, e.g.:

route add 224.0.0.0 netmask 240.0.0.0 dev eth0

## 1.4.3. port forwarding:

The Open-Xchange Oxtender (MS Outlook PlugIn) has PUSH functionality. For this feature to work, the PlugIn needs to be able to send and receive UDP packages directly to and from the configured port (default 44335) on the Groupware server. So if there are GUI servers or load balancers in front of the Groupware Server, those machines need to forward those packages to the groupware hosts. To make the Open-Xchange groupware process able to send UDP packages back with the IP of the frontends, this IP has to be added as virtual IP.



It is required to have no firewall between Open-Xchange servers in clustered setups.

## 1.5. Webserver Configuration

This chapter describes the webserver configuration the Open-Xchange™ services depend on. In order to get web access to the Open-Xchange system, the web server has to be set up.

## 1.5.1. Apache Modules

Additionally, it is strongly recommended to use the following Apache modules to make the communication as efficient as possible.

- mod\_deflate is used to compress the data between the web browsers and the Open-Xchange front-end servers to minimize the transferred data.
- mod\_expires is used to enforce strong caching in the browser to avoid unnecessary requests for already retrieved files. This is extremely important when using the Internet Explorer.
- headers
- mod\_ssl is used to allow secure encrypted access to the system (https).

Those modules are activated by generating links from mods-enabled to the corresponding files in mods-available.

```
root@oxhe:/etc/apache2/mods-enabled# ls -l total 0
[...] deflate.load -> /etc/apache2/mods-available/deflate.load
[...] expires.load -> /etc/apache2/mods-available/expires.load
[...] headers.load -> /etc/apache2/mods-available/headers.load
[...] ssl.conf -> /etc/apache2/mods-available/ssl.conf
[...] ssl.load -> /etc/apache2/mods-available/ssl.load
[...] proxy.load -> ../mods-available/proxy_balancer.load
[...] proxy_balancer.load -> ../mods-available/proxy_balancer.load
```

On a typical installation it is necessary to create the links for deflate.load and expires.load. The file deflate.conf should not be linked, as the configuration is done in another place.

## 1.5.2. Configuration Files

## \$apacheconfdir/conf.d/ox.conf

This file is provided as example in the Open-Xchange packages and needs to be adapted in some cases. If it is not available, make sure to create the file according to the following example. This example would require two open-xchange application server to run on hosts ox1 and ox2.

<IfModule mod\_proxy\_ajp.c> <Proxy /ajax> AddDefaultCharset UTF-8 Order allow,deny

```
Allow from all
   </Proxy>
   <Proxy /servlet>
   AddDefaultCharset UTF-8
   Order allow, deny
   Allow from all
   </Proxy>
   <Proxy balancer://oxcluster>
   BalancerMember ajp://ox1:8009 smax=0 ttl=60 retry=5 loadfactor=50 route=OX-1
   BalancerMember ajp://ox2:8009 smax=0 ttl=60 retry=5 loadfactor=50 route=OX-2
   ProxyPass /ajax/ balancer://oxcluster/ajax/ stickysession=JSESSIONID
   ProxyPass /servlet/ balancer://oxcluster/servlet/ stickysession=JSESSIONID
</lfModule>
  <IfModule mod_deflate.c>
  # Logging
   DeflateFilterNote ratio
   LogFormat '"%r" %b (%{ratio}n) "%{User-agent}i"' deflate
   CustomLog /var/log/apache2/deflate.log deflate
   <Directory /var/www/ox6>
   AddOutputFilterByType DEFLATE text/html text/plain text/xml text/css \
   text/javascript application/x-javascript
   # Netscape 4.x has some problems...
   BrowserMatch ^Mozilla/4 gzip-only-text/html
   # Netscape 4.06-4.08 have some more problems
   BrowserMatch ^Mozilla/4\.0[678] no-gzip
   # MSIE masquerades as Netscape, but it is fine
   BrowserMatch \bMSI[E] !no-gzip !gzip-only-text/html
   # Make sure proxies don't deliver the wrong content
   #Header append Vary User-Agent env=!dont-vary
   AddDefaultCharset UTF-8
   AddCharset UTF-8 .js
   </Directory>
  </lfModule>
```

## \$apacheconfdir/sites-available/ox-he-ssl

The file must be enabled after creation using the command a2ensite ox-he-ssl

```
NameVirtualHost *:443
  <VirtualHost *:443>
   ServerAdmin webmaster@localhost
   DocumentRoot /var/www/ox6
   DirectoryIndex index.html index.cgi index.pl index.php index.xhtml ox.html
   <Directory />
   Options FollowSymLinks
   AllowOverride None
  </Directory>
  <Directory /var/www/ox6>
   Options Indexes FollowSymLinks MultiViews
   AllowOverride None
   Order allow, deny
   allow from all
   # Uncomment this directive is you want to see apache2's
   # default start page (in /apache2-default) when you go to /
   #RedirectMatch ^/$ /apache2-default/
```

```
</Directory>
ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/
<Directory "/usr/lib/cgi-bin">
 AllowOverride None
 Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch
 Order allow, deny
Allow from all
</Directory>
#EXPIRE
ExpiresActive On
ExpiresByType image/gif "access plus 23 hours"
ExpiresByType image/png "access plus 23 hours"
ExpiresByType image/jpg "access plus 23 hours"
ExpiresByType image/jpeg "access plus 23 hours"
ExpiresByType text/javascript "access plus 23 hours"
ExpiresByType text/css "access plus 23 hours"
ExpiresByType text/html "access plus 23 hours"
ExpiresByType application/x-javascript "acces plus 23 hours"
<Files \sim "\.(js | css | gif | jpe?g | png)$">
Header append Cache-Control "public"
</Files>
# SSL Protocol Adjustments
# needs to be removed from mods-available/ssl.conf
SetEnvIf User-Agent ".*MSIE [0-6]\..*" \
nokeepalive ssl-unclean-shutdown \
downgrade-1.0 force-response-1.0
ErrorLog /var/log/apache2/error.log
# Possible values include: debug, info, notice, warn, error, crit,
# alert, emerg.
LogLevel warn
CustomLog /var/log/apache2/access.log combined
ServerSignature On
SSLEngine On
SSLCertificateFile /etc/ssl/certs/yourcert.pem
SSLCertificateKeyFile /etc/ssl/private/yourkey.pem
</VirtualHost>
```

## \$apacheconfdir/mods-available/ssl.conf

Any **SetEnvif** statement for MSIE needs to be removed if applicable. For this a new statement is added to the ssl vhost section above. This improves IE7 performance and IE6 performance when ssl is not in use.

## Comment the following part in /etc/apache2/mods-enabled/proxy.conf

```
#<Proxy *>
# AddDefaultCharset off
# Order deny,allow
# Deny from all
# Allow from .example.com
#
```

## 1.6. Creating your first context and users

Now as the whole setup is complete and you already should get a login screen when opening the server IP in the browser, we now have to setup a context and a default user.

## 1.6.1. Create a context

```
/opt/open-xchange/sbin/createcontext -A oxadminmaster -P secret -c 1 -u oxadmin \
-d "Context Admin" -g Admin -s User -p secret -e oxadmin@example.com \
-q 1024 -L defaultcontext --access-combination-name=all
```

The mapping defaultcontext will allow you to set this context as default one of the entire system, so that users which will be created within this context can login into the groupware without specifying their domain in the login screen. Note that only one context can be the default context. The user that will be created with this call (oxadmin) is the default admin of this context. He will gather additional functions that are also described in the Administration manual. Also note that the context id has to be unique and numeric, otherwise the server will complain when you try to create a context.

## 1.6.2. Create a user

```
/opt/open-xchange/sbin/createuser -c 1 -A oxadmin -P secret -u testuser -d "Test User" \
-g Test -s User -p secret -e testuser@example.com
```

Now connect to the server with a browser and login with testuser / secret.

## 1.7. Imap and smtp server

The Open-Xchange server is designed to connect to the existing imap and smtp server. This configuration can be set up globally for all users in a configuration file or separately for each user. The configuration file "mail.properties" is described in detail in the Configuration Options chapter. In this file the needed behaviour can be set. Important configurations are:

 User setting for IMAP and SMTP is written to the database and set by the user functions through RMI or on the command line. The command line options for create/changeuser are:

```
--imapserver
--imaplogin
--smtpserver
```

 The "imapCredSrc" parameter specifies the credentials to be used for authentication against the SMTP and IMAP server:

```
"session" password and open-xchange username given on login
"user.imapLogin" password from login and username from "--imaplogin"
```

## 1.8. Authentication

The "login implementation" is a plugin which is used for user authentication. This can be a self-developed plugin that authenticates against an existing authorisation or a shipped one. Open-Xchange deliveres packages for authentication against the Database, Ldap and

IMAP. Choose one from the section called "Plugins for the Groupware/Application Server". This plugin also controls which part of the login is the username or the contextname. It also controls the separator in between, default is "@".

## Example 1.8. Plugin description

http://wiki.open-xchange.com/wiki/index.php?title=Authentication\_Plugin\_description

## 1.9. User self service

The "config jump" is a plugin that creates the URL which is opened in a separate window when a user clicks on "Extras" in the configuration tree of the user frontend. Choose the **open-xchange-configjump-generic\_<version>\_all.deb** plugin. If you do not choose this package there will be no link available in the groupware.

## Chapter 2. OSGi

## 2.1. OSGi - an overview

OSGi is a dynamic module system for Java. The OSGi framework provides a plugin concept on top of a service-oriented architectures to enhance the Java technology to be more modular and dynamic. Dynamic means that components can be managed at runtime. Components in OSGi can provide a feature or function (service provider) or use other components and their services (service requester). To search and find services, OSGi provides a service registry.

A good analogy for a better understanding is this one: Java without OSGi behaves like Windows 95 where a change in the system requires a complete restart of the kernel (in the Java world so called Java VM). With OSGi it is more like the Linux kernel modules concept, modules can be added and removed at runtime. Modules in the OSGi world are called bundles. A bundle contains the service providers or requesters A bundle from the Java perspective is at least one class or interface with an additional information file called "MANIFEST.MF". A bundle is associated with several activities like installation, removal, update, starting and stopping.

Interesting to know is that each bundle describes dependencies to other bundles and the offered services. With OSGi it can be possible to run different versions of the same bundle providing the same services. This can be used for interesting scenarios if you think about backwards compatibility and legacy systems. At runtime, it is possible to explore the installed bundles and view details like version numbers and other useful information. In addition, it is possible to start and stop bundles at runtime if for example a newer version is available. This very interesting feature can also be used to replace a bundle at runtime with a special debug bundle, a testing bundle or even a downgrade bundle because an issue occurred in a specific function. Admins can decide which bundles fit best into their environment and start only those bundles.

In short here are some advantages of the OSGi technology:

Module boundaries Clean and protected dependencies and declaration of ser-

vice offerings

Service-oriented architecture Start/stop bundles to provide features and functions in a

live environment

Versioning Same bundles can be started with different versions
Transparency It is possible to list all available/installed bundles and view

version and other useful information

Modularization/Flexibility Start and run only those packages your system needs

## Chapter 3. HTML Whitelist

An HTML Whitelist is a configuration file that defines allowed HTML tags and their attribute names or values. All tags and attributes that are not listed in this file have to be removed to filter dangerous HTML content.

## 3.1. HTML Whitelist Configuration

The HTML whitelist is defined in the 'whitelist.properties' configuration file. This file is divided in three sections:

HTML tags and attributes CSS name/value pairs CSS combi map

## 3.1.1. HTML Tags and Attributes

This section includes the allowed HTML tags and attributes. Each entry is preceded by "html.tag.", followed by the name of the allowed tag. The attributes form a comma-separated, quoted list. The attributes can be followed by their allowed values. The values are put in square brackets and separated by ':'. Example:

html.tag.area=",alt,coords,href,nohref[nohref],shape[:rect:circle:poly:default:],tabindex,target,"

This entry allows the "area" tag. The attributes are listed within the quoatation marks. The allowed values for the "shape" attribute are listed within the square brackets. If the attributes list contains empty brackets, only numeric values are allowed:

html.tag.pre=",width[],"

If the attributes list is empty, only the HTML tag without any attributes is allowed:

html.tag.span=""

## 3.1.2. CSS Name/Value Pairs

Analogous to the HTML tags and attributes, this section includes allowed CSS elements with their allowed values. Each entry is preceded by "html.style.", followed by the name of the CSS element. Allowed values are defined in a comma-separated, quoted list.

For the values it is possible to use wildcards that comprise certain value types:

c: Any CSS color value

u: An URL; e. g. url(http://www.somewhere.com/myimage.jpg);

n: Any CSS number value without '%'

N: Any CSS number value

\*: Any value allowed

d: delete

t: time

Example:

html. style. background-color = "c, transparent,"

This allows the CSS element "background-color". For this element any CSS clor values and the value "transparent" are allowed. Wildcards precede the list and are not comma-separated:

="uNc,scroll,fixed,..."

## 3.1.3. CSS Combi Map

The second section of CSS Name/Value Pairs allows entries with an empty value list:

html.style.border=""

Such entries refer to the CSS combi map i. e., the respective CSS element configuration is included in the CSS combi map:

html. style. combimap. border = "Nc, transparent, none, hidden, dotted, dashed, solid, double, groove, ridge, inset, outset, separate, collapse, "

Entries in the combi map are preceded with "html.style.combimap.", followed by the respective CSS element. Analogous to the latter section, the element is followed by the value listing.

## **Chapter 4. Spam Handler**

A spam handler is a dedicated service within the Open-Xchange Server's Osgi framework. Spam E-Mails are treated in a special way by this handler.

The spam handling is triggered whenever a user explicitly marks an E-Mail as spam. The ham handling is activated if the user marks an E-Mail in his spam E-Mail folder as 'No Spam'.

On the Open-Xchange Server there are several ways of implementing this service. For this purpose several spam handlers are registered with the OSGi framework under a special registration name. The registration name "NoSpamHandler" is reserved for an empty SpamHandler implementation that is used as a fallback.

## 4.1. Spam Handler Configuration

Every E-Mail implementation includes the registration name of the SpamHandler that is used in the E-Mail implementation. If no SpamHandler is used, "NoSpamHandler" is entered. The registration name configuration of a suitable spam handler depends on the respective E-Mail implementation. The IMAP implementation e. g. activates the spam handler via the 'com.openexchange.imap.spamHandler' entry in the 'imap.properties' properties file.

To make a Spam handler available for a special user the respective E-Mail implementation has to define a spam handler and the spam functionality explicitly has to be activated in the user's E-Mail settings.

Depending on the spam filter a dedicated spam handler has to be installed. The SpamAssassin spam filter e.g. wraps E-Mails that are recognized as spam in an extra created E-Mail i.e., the spam E-Mail comes as attachment.

### Currently, two implementations are available:

DefaultSpamHandler Assumes that the spam E-Mails are not wrapped and

thus moves them without further action.

SpamAssassinSpamHandler Assumes that the spam E-Mails are attached to the E-

Mail. Thus the attachment is extracted and moved.

## 4.2. Phishing E-Mails

Phishing is an attempt to criminally acquire valuable user data, such as passwords, keys or other information. They often include official-looking logos from real organizations and other identifying information taken directly from legitimate Web sites.

Such E-Mails are different from typical Spam E-Mails as they appear to be legitimate and are thus difficult to recognize with normal Spam rules. An E-Mail's header and content needs to be checked thoroughly to find out if it is a phishing E-Mail.

Analogously to the Spam handling, certain header entries are used to mark the respective E-Mails as phishing E-Mail. Those header entries are called phishing header in the following paragraph.

## 4.2.1. Phishing Header Configuration

Which E-Mail header entries indicate a phishing header can be defined in the 'mail.properties' file. The respective property name is 'com.openexchange.mail.phishingHeader'. If there are multiple header identifiers, a comma separated list of header names can be used.

Those header names are made available to the front-end where further actions can be done.

If no header identifier is defined, no E-Mail header entries are seen as phishing header.

## **Chapter 5. MySQL Configuration**

This chapter describes the requirements and the configuration needed to use the MySQL database as database back-end for the Open-Xchange $^{TM}$  application.

## 5.1. Software Packages

The following packages need to be installed on all Open-Xchange™ administration and groupware servers to access the database back-end:

• mysql-client-5.0

## 5.2. Recommended settings in my.cf

- innodb\_flush\_log\_at\_trx\_commit=1
- default-table-type=InnoDB
- query\_cache\_type=1
- innodb\_flush\_log\_at\_trx\_commit=1

The sql\_mode must not be set to ansi.

## 5.3. Privileges for the Open-Xchange Database Users

It is possible to use different users for read connections and for write connections. Additionally, there can be different users for the **configdb** and for the groupware databases. In the examples a user called **openexchange** is used for both types of connections to the groupware database.

- Users for the write connections need the following permissions: ALL
- Users for the read connections need the following permissions: **SELECT**

## Example 5.1. Grant User Access

The following GRANT statement was used for creating the **openexchange** user for the examples in this document:

```
oxhe:~# mysql
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 34
Server version: 5.0.32-Debian_Tetch1-log Debian etch distribution

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> GRANT ALL PRIVILEGES ON *.* TO 'openexchange'@'%' IDENTIFIED BY 'secret'; Query OK, 0 rows affected (0.00 sec)

mysql>
```

## Chapter 6. IMAP server requirements

This chapter lists requirements that an OX server needs to be fulfilled by an IMAP server.

## 6.1. IMAP server requirements

The requirements are related and actually bound to an IMAP server's capabilities i.e., the response of the special IMAP command "CAPABILITY": a listing of capabilities that the server supports.

## 6.1.1. IMAP4 / IMAP4rev1

At least the IMAP server must support the IMAP4/IMAP4rev1 capability in order to allow access and manipulation of E-Mails and remote E-Mail folders, called "mailboxes", as per RFC 2060.

This extension is required by the OX server.

## 6.1.2. QUOTA

The QUOTA extension (RFC 2087) permits administrative limits on resource usage (quotas) to being set and manipulated through the IMAP protocol.

This extension is required by the OX Server.

## 6.1.3. NAMESPACE

The NAMESPACE extension (RFC 2342) allows a client to discover the prefixes of namespaces used by a server for personal mailboxes, other users' mailboxes, and shared mailboxes.

This extension is required by the OX Server in order to support public and shared folders to let the E-Mail folders fit into existing OX folder capabilities. Sharing of E-Mail folders is related to following ACL capability.

## 6.1.4. SORT

The SORT extension defines sorting performed on the IMAP server and is intended to improve performance for IMAP clients which offer sorted views.

This capability is not needed by the OX Server since it is able to sort E-Mails itself. Actually, server-based sorting is the recommended (and faster) way. Unless it is required that E-Mails can be sorted by their (thread) reference, this extension is required by the OX Server. Furthermore, an extended SORT extension must be supported by the IMAP server. The extension is called "THREAD=REFERENCES" in the capability list.

If "THREAD=REFERENCES" is not required, IMAP property "imapSort" must be set to false to let the server do the sorting.

## 6.1.5. ACL

The ACL extension (RFC 2086) permits access control lists. An access control list is a set of <identifier, rights > pairs. The identifier is a US-ASCII string naming the entity, and rights is a

string listing a (possibly empty) set of alphanumeric characters, each character listing an allowed set of operations.

Some IMAP servers even support a newer ACL extension as per RFC 4314 which defines some more rights and has a different view on the set of operations allowed by the single characters.

Currently, the OX server is designed to work with the older RFC extension but is also able to handle the newer one. Depending on the log level several warnings appear in the log file if a right violation has been detected caused by the newer ACL extension.

This extension is not required by the OX Server and can be completely disabled via IMAP configuration through the property "supportsACL". In consequence to disabling ACL support sharing of folders is not possible any more.

## **6.1.6. UIDPLUS**

The UIDPLUS extension (RFC 2359) provides a set of features intended to reduce the amount of time and resources used by some client operations.

Since corresponding RFC 2359 provides (slower) fall-back approaches to take when the UIDPLUS extension is not supported, the OX Server does not require this extension.

## 6.2. Tested IMAP servers

A listing of IMAP servers tested against the OX Server.

- 1. 1.Cyrus IMAP4 v2.2.13
- 2. 1.Courier 4.1.1.20060828 (0.53.3)
- 3. 1.Dovecot 1.0.rc15

## **Chapter 7. Contacts LDAP (GAL)**

## 7.1. Introduction

This document contains descriptions about the contacts-Idap (global address list) server OSGI bundle. This bundle includes contacts from an Idap server (OpenLDAP, Active Directory), as a global address book inside the Open-Xchange folder tree.

## 7.1.1. Architecture

The contacts-Idap bundle is designed as a bundle for the groupware server and gets installed as a service within the OSGi environment.

## 7.2. Deliverables

## 7.2.1. Package description

The package contains the bundle itself and the corresponding example configuration files. The bundle will get installed as a directory below /opt/open-xchange/bundles. The example configuration file can be found in:

/opt/open-xchange/etc/groupware/contacts-ldap/

In detail it consist of the following files:

 $/opt/open-xchange/etc/groupware/contacts-ldap/111/LDAPglobal1.properties.example \\ /opt/open-xchange/etc/groupware/contacts-ldap/ldap/111/LDAPglobal.properties.example \\ /opt/open-xchange/etc/groupware/contacts-ldap/ldap/mapping.openldap.properties.example \\ /opt/open-xchange/etc/groupware/contacts-ldap/ldap/mapping.ads.properties.example \\ /opt/open-xchange/etc/groupware/contacts-ldap/ldap/mapping.ads.properties.properties.properties.propertie$ 

## 7.3. Limitations and specials

- The global LDAP folder can be deleted by the administrator of the context, in contrast to the other public folder which cannot. If the folder is deleted the folder will be recreated if the ldap bundle is restarted.
- At the moment the bundle is only able to work with one context, or to be more precise
  the folder IDs for the LDAP folder must be unique, due to restrictions in the groupware
  core.
- Exception messages are not internationalized at the moment
- Only simple bind is possible
- LDAP sort is not tested
- LDAP multiple-values not tested with Active Directory
- · Folder names are not internationalized
- Automatic configuration reload on property change is not supported, for a reload the bundle has to be restarted
- LDAP structures from OX5 containing date information (e. g., date of birth) can not be used.

## 7.4. Installation

The package has to be installed with the package management tool of the distribution. Afterwards the bundle automatically starts during a groupware restart. The settings in the configuration files need to be done before. Wrong settings do cause the bundle to shutdown itself and the reason is to be found in the groupware log file.

## 7.5. Configuration

As written in the package description section, the bundle has some example configuration files which reside in the /opt/open-xchange/etc/groupware/contacts-ldap. In this section all are explained in more detail. The bundle has no main configuration file, all needed information is gathered from the directory structure. So all directories starting with digits can have to contain a property in the structure written below. The digits itself represent the corresponding context number. So a directory 111 will contain configuration files for the context with id 111.

In this directory the configuration files for the different global LDAP folder per context are stored. The name of the configuration files in not relevant, but it has to be used in the property key as well. The key property therefore matches the following scheme:

com.openexchange.contacts.ldap.context<contextid (number of directory)>.<name of property file without extension>.com.openexchange.contacts.ldap.context

So for a scenario were the property file is named test.properties and which resides in the directory 111 the key for the uri property would be:

com.openexchange.contacts.ldap.context111.test.uri

For your configuration files you can just copy over the example files delivered with this bundle and adjust the property file name part in the keys and the context id.

In this example files all properties are documented, so this text will only shed some light on a few more interesting things.

One of them is the mapping file. Two examples for OpenLDAP and Active Directory are included in the package:

/opt/open-xchange/etc/groupware/contacts-ldap/mapping.openldap.properties.example /opt/open-xchange/etc/groupware/contacts-ldap/mapping.ads.properties.example

The corresponding mapping file to a folder can be selected with the property com.openex-change.contacts.ldap.context<id>.<name of property file>.mappingfile here you only need to give the real filename without any path, the bundle will then search the right one. If you use the example files, please pay attention that you remove the .example extension beforehand.

The mapping file describes how the attributes of a contact in Open-Xchange are mapped to the attributes in the LDAP server. A special attribute is com.openexchange.contacts. ldap.<name of mapping file>.uniqueid. This property can specify an attribute which needs to be unique for all objects in the specified part of the LDAP tree. This is shortly connected to the property com.openexchange.contacts.ldap.context<id>.<name of property file>.memorymapping in the corresponding configuration file. The two are related in the following way:

If there is an attribute in the LDAP that is unique and an integer value in the range  $0-2^3$  then this value can directly be used with Open-Xchange, and the same ids which are in the LDAP directory are used in Open-Xchange for object identification. In this case memorymapping

can be set to false, because there is no need to hold a memorymap between the object identifiers in Open-Xchange and in LDAP. But if the value is an integer out of that range or if it is a unique string, you will have to turn memorymapping on. This way the bundle will create own ids for the contact object by a mapping table which is stored in-memory. The downside of this is that the links in the groupware won't work because the ids will change after a restart of the groupware. Currently this applies to Active Directory, because there seems to be no attribute which fulfills the range requirement.

## 7.5.1. Configuring distribution lists

The configuration allows to switch between normal contacts, distributionlists or both. This setting is done in com.openexchange.contacts.ldap.context<contextid (number of directory)>.contactTypes.

If distributionlists are enabled by either setting both or distributionlists here, a check of the distributionlists settings (searchfilter\_distributionlist, searchScope\_distributionlist, baseDN\_distributionlist) for correctness must also be made. Special attention should be paid to the searchfilter\_distributionlist setting, as this defines what types of objects are distributionslists.

## 7.5.2. Outlook Support

The Outlook support of the contacts-Idap bundle depends on the underlying LDAP directory server. If ADS is used, it depends on the individual setup whether memory mapping has to be used for generating unique ids (see section below). If memory mapping has to be used the ids will change after a server restart, which will confuse Outlook and lead to duplicates in some scenarios. To omit this, a property com.openexchange.contacts.ldap.context<contextid (number of directory)>.outlook\_support can be used to configure outlook\_support. If the property is missing or set to false, the support will be disabled and Outlook will only show an empty folder. If set to true the folder will contain the contacts.

## **Deletion detection**

To detect deleted objects in Outlook the directory server must deliver what has been deleted since a timestamp. This information is not available on normal LDAP servers, but on ADS. If an ADS server is used, then and only then the configuration

com.openexchange.contacts.ldap.context<contextid (number of directory)>.ADS\_deletion\_support

can be enabled.

This will allow Outlook to detect deleted objects. But note that even if this option is enabled the ADS will not provide this information for ever, it is only kept for the following lifetimes:

60 days for forests initially built using Windows 2003 and Windows Server 2003 180 days for forests that were initially built with Windows Server 2003 SP1

So if one Outlook client performs a sync after these time frames it will not detect the object deleted before, because this information cannot be retrieved.

If ADS is used, Outlook will not remove contacts which are removed on the LDAP side, only new contacts are added. To get the actual list with contacts removed, Outlook must be restarted without OXtender and all contacts in the folder must be deleted. After a restart with OXtender a full sync is done, and deleted contacts will not appear any more.

## 7.5.3. Memorymapping and ADS

If an ADS is running, memorymapping can be disabled if the following precondition is met

Objects are only created on one DC and the objects are only read from this DC.

If this applies, the following settings can be changed in the mapping.ads.properties file:

com. open exchange. contacts. Idap. mapping. ads. unique id = sAMAccount Name

can be changed to:

com. open exchange. contacts. Idap. mapping. ads. unique id = uSNC reated

and

com. open exchange. contacts. Idap. mapping. ads. distribution uid = sAMAccount Name

can be changed to:

com. open exchange. contacts. Idap. mapping. ads. distribution uid = uSNC reated

## **Chapter 8. Session Migration**

## 8.1. Introduction

Sessions are typically initiated by users via the Webinterface of the Open-Xchange Server, Outlook or mobile devices, every session is bound to one Open-Xchange server until it is terminated. In a clustered Open-Xchange environment, sessions are assigned to one server of the cluster by random algorithms. Since Open-Xchange uses caching via the network all data is available to every user on every server in the cluster. But sessions are still bound to one server and if that server is going to be shut down, users would encounter an error message and are kicked off the cluster. To solve this problem, sessions migration has been introduced with the OSGI implementation of Open-Xchange Server 6 SP4. This feature allows sessions to migrate to another server at the cluster without having any influence to the end user. Typical scenarios where sessions need to be migrated are hardware and software upgrades of the server as well as emergency shutdowns.

The implementation of the session migration is based on a cache which is filled with all sessions of a server if its "sessiond" bundle is shut down. Other groupware servers fetch the sessions from the cache and take over the migrated session. Therefore it is mandatory to shut down the sessiond bundle prior to the server shutdown. Note that it may take some time until all sessions are put to the cache. If a user request collides with the short time where sessions are put to the cache it is possible that the request will fail, but in most cases a user should not mention anything at all.

## 8.2. Preparation

To enable session migration, the session cache need to be configured, this needs to be done for all Open-Xchange server that should be capable to migrate sessions

\$ vim /opt/open-xchange/etc/groupware/sessioncache.ccf

```
[...] jcs.auxiliary.SessionLTCP.attributes.TcpListenerPort=58849 jcs.auxiliary.SessionLTCP.attributes.UdpDiscoveryAddr=224.0.0.1 jcs.auxiliary.SessionLTCP.attributes.UdpDiscoveryPort=6789 jcs.auxiliary.SessionLTCP.attributes.UdpDiscoveryEnabled=true
```

In this case Open-Xchange is listening on port 58849 for incoming sessions and discovers other Open-Xchange session caches via UDP multicast on port 6789. Shortly after server startup all servers should connect to the cache. This can be checked by running netstat, this is an example with two Open-Xchange Servers:

OX1:

Both groupware servers have connected to each other and are ready to accept sessions

## 8.3. Migration

First, shutdown the sessiond bundle

\$ /opt/open-xchange/sbin/stopbundle com.openexchange.sessiond

Wait some seconds until all sessions are put to the cache, then shutdown the groupware

\$ /etc/init.d/open-xchange-groupware stop

This is what happens to a users session at the webinterface:

GET http://server.ox/ajax/calendar?action=all&columns=1%2C20%2C207&end=1215043200000&folder=25&session=6e3be7938169670c47faCookie: JSESSIONID=41165f534d652a3e662d9c44b0b6efd439f310ad.OX-2

GET http://server.ox/ajax/calendar?action=all&columns=1%2C20%2C207&end=1215216000000&folder=25&session=6e3be7938169670c47fa

OX-2 is the identifier for the second Open-Xchange server at the cluster, now this server is going to be shut down and the user triggers another request

In some cases, requests and session migration collide, an error message is shown but the next request will succeed and does not terminate the user's session:

The required service com.openexchange.sessiond.SessiondService is temporary not available. Please try again later. (SRV-0001,-1021469715-4)

The next request triggered by the user is answered by an Open-Xchange server that has taken over the session.

Cookie: JSESSIONID=9235ba164ca5ac3119cee006a92e4a574e31c32b.OX-1

The identifier of the server has been set to OX-1 and the user is able to continue working at this server without any interruption.

## Chapter 9. Open Xchange CLT reference

This chapter describes the administration tools available in Open-Xchange. Some command line tools start a java vm and generate RMI calls directly to the administration daemon that will make all necessary database operations, others are shell scripts.

## 9.1. Shell scripts

- generatempasswd
- initconfigdb
- · open-xchange-admindaemon
- · open-xchange-groupware
- oxinstaller

Command path is "/opt/open-xchange/sbin/"

## 9.1.1. Shell scripts

## generatempasswd

generatempasswd writes a username and a crypted password to the mpasswd file. Against this file the context Context Admin authentication is done by the groupware server.

## **Parameters**

-h,--help Prints a help text

-A,--adminuser <adminuser> Context Admin username -P,--adminpass <adminpass> Context Admin password

-f,--mpasswdfile <mpasswd file> Path and name of the mpasswd file

## Return value

o on success

>0 on failure

## Mandatory parameters

This tool has no mandatory parameters. When no -adminpass parameter is given, the password will be read from the command line. Defaults are:

-A,--adminuser oxadminmaster

-f,--file /opt/open-xchange/etc/admindaemon/mpasswd

## Command output

On success:

<adminuser> succesfully added to the mpasswd file <file>

On failure:

update/creation of file <file> failed. Error: <reason>

## Example 9.1. generatempasswd

root@oxhe:~# /opt/open-xchange/sbin/generatempasswd
Enter oxadminmaster password:
oxadminmaster succesfully added to mpasswd file /opt/open-xchange/etc/admindaem
on/mpasswd
root@oxhe:~#

## initconfigdb

**initconfigdb** is the tool to initially set up the Open-Xchange configuration database. This database is needed and accessed from all Open-Xchange services and servers.

### **Parameters**

-h,--help Prints a help text

--configdb-user
 --configdb-pass
 --configdb-host
 Database user for the Open-Xchange service
 Password for the Open-Xchange database user
 Hostname or IP address of the Database

--configdb-port Database port

--configdb-dbname Database schema name for the Open-Xchange configuration database

## Return value

o on success

>0 on failure

## Mandatory parameters

Mandatory is --configdb-pass because for those parameters, no default exists. Defaults are:

--configdb-user openexchange--configdb-host localhost--configdb-port 3306--configdb-dbname configdb

## Command output

On success:

initializing Open-Xchange configuration database <configdb-dbname>... database generated

On failure:

initializing Open-Xchange configuration database <configdb-dbname>... error: <reason>

## Example 9.2. configdb

root@oxhe:~# /opt/open-xchange/sbin/initconfigdb --configdb-pass=secret initializing Open-Xchange configuration database configdb... database generated root@oxhe:~#

## open-xchange-admindaemon

**open-xchange-admindaemon** is the start script for the Open-Xchange Admindaemon and is executed from the runlevel script /etc/init.d/open-xchange-admin

## open-xchange-groupware

**open-xchange-groupware** is the start script for the Open-Xchange Groupware and is executed from the runlevel script /etc/init.d/open-xchange-admin-groupware

## oxinstaller

**oxinstaller** is the script to initially set up the Open-Xchange configuration files. This basic configuration can then be used to fine tune the installation.

## **Parameters**

-h,help	Prints a help text
servername	Open-Xchange internal server name
imapserver	Mail (IMAP) server in case imaplogintype is config Or global
imapserver	Transport (SMTP) serverin case imaplogintype is config or global
imaplogintype	Used login implementation. Needs to be user, config, global is for debugging purposes
configdb-user	Database user for the Open-Xchange service
configdb-pass	Password for the Open-Xchange database user
configdb-readhost	Hostname or IP address of the Slave Database
configdb-writehost	Hostname or IP address of the Master Database
configdb-dbname	Database schema name for the Open-Xchange configuration database
servermemory	Memory for the groupware daemon
adminmemory	Memory for the admin daemon
clt-memory	Memory for the admin command line tools
configdb-readport	Port number of the Slave Database
configdb-writeport	Port of the Master Database
tmpdir-path	Path and directory for temporary files
master-pass	Context admin master password, needed when context-auth is true
master-user	Context admin master name, needed when context-auth is true
jkroute	mod_jk routing name configured in jk configuration
ajp-bind-port	Port where the groupware listens for incomming jk requests
imap-credentials	Where to get the imap credentials from
object-link-hostname	Link that is used in server generated emails (directlink in notifications)

--extras-link Link which is opened in a new window if a users clicks on Extras

in the GUI

--cache-udp-disc-addr UDP address for the caches and push service auto configuration

--cache-udp-disc-port UDP port for the caches auto configuration

--groupware-cache-port Port where the groupware cache accept invalidation messages

from other caches

--admin-cache-port Port where the admin daemon cache accept invalidation mes-

sages from other caches

--gwsession-cache-port Port where the groupware session cache accept invalidation

messages from other caches

--ip-of-oxcluster IP for which customers can access the groupware

--push-udp-disc-port UDP port for the oxtender push service auto configuration --push-outlook-port UDP port where the oxtender registers for the push service

--SesssionContTimeout Timeout for session containers--NRSessionContainers Number of session containers

--maxSession Maximum numbers of session, 0 for unlimited

--DoubleLoginPerm Allow Users to have more sessions than one at the same time

--sessionDefLifeTime Default session life time

--disableauth Switch to turn off context authentication

### Return value

o on success

>0 on failure

## Mandatory parameters

Mandatory are --servername --configdb-pass because for this parameter, no default exists. Defaults are:

--imapserver localhost --imaplogintype user

-configdb-user
 -configdb-readhost
 -configdb-writehost
 -configdb-dbname
 -servermemory
 -configdb-readport
 -configdb-writeport
 -tmpdir-path
 openexchange
 localhost
 configdb
 3306
 tmp

## Command output

## On success:

--context-auth

setting up groupware configuration /opt/open-xchange/etc/groupware

false

groupware daemon must now be restarted if already running setting up admin daemon configuration /opt/open-xchange/etc/admindaemon

\*\*\* RMI authentication is disabled

admin daemon must now be restarted if already running

#### On failure:

Setting up Open-Xchange configuration failed. Error: <reason>

#### Example 9.3. setting up groupware configuration

root@oxhe:~# /opt/open-xchange/sbin/oxinstaller --disableauth --servername=oxapp --configdb-pass=secret setting up groupware configuration /opt/open-xchange/etc/groupware

groupware daemon must now be restarted if already running setting up admin daemon configuration /opt/open-xchange/etc/admindaemon

\*\*\* RMI authentication is disabled admin daemon must now be restarted if already running

# 9.2. RMI calls

- [update, uninstall, stop, start, refresh, list, listall, listservices, shutdown, install]bundle
- [register,unregister,list,listcontextsby,moveconetxt,change]filestore
- [register,unregister,list,listcontextsby,movecontext,change]database
- [register,unregister,list]server
- checkconsistency
- jobcontrol
- contextrestore

Command path is "/opt/open-xchange/sbin/"

# 9.2.1. Bundle handling scripts

Each script support parameters -h <jmx host> -p <jmx port> for defining the host the server is running on and the port it is listening on. Both are by default localhost and 9999.

# installbundle

A new bundle can be installed with this script into the running server.

installbundle (-h <jmx host> -p <jmx port>) location

The location must be file URL with complete path:

file:/opt/openexchange/bundles/com.openexchange.control.jar

# listbundle

List the installed bundles and their states.

listbundles (-h <jmx host> -p <jmx port>)

# listservices

Lists the services provided and used by bundles.

listservices (-h <jmx host> -p <jmx port>)

# refreshbundles

Restarts depending bundles if some bundle has been updated.

refreshbundles (-h <jmx host> -p <jmx port>)

#### shutdown

Starts the OSGi shutdown sequence. Every bundle is stopped and finally the OSGi runtime.

shutdown (-h <jmx host> -p <jmx port>)

# startbundle

Start a single bundle.

startbundle (-h <jmx host>) bundle name

The bundle name must be the unique bundle identifier:

com.openexchange.mail.filter

# stopbundle

Stops a single bundle.

stopbundle (-h <jmx host> -p <jmx port>) bundle name

The bundle name must be the unique bundle identifier:

com.openexchange.mail.filter

# uninstallbundle

Removes a bundle from the running server.

uninstallbundle (-h <jmx host> -p <jmx port>) bundle name

The bundle name must be the unique bundle identifier.

# updatebundle

Updates a single bundle.

updatebundle (-h <jmx host> -p <jmx port>) bundlename (autorefresh (true | false) default value is false)

The bundlename must be the unique bundle identifier. If autorefresh is given as true, depending bundles will be restarted.

# 9.2.2. Filestore management

# registerfilestore

registerfilestore is the tool to make a filestore known to the Open-Xchange system. The filestore directory needs to only be accessible when the storage behind is present. It must not be possible to write to the directory when the storage subsystem is not mounted.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-t,--storepath <string> Path to store filestore contents in URI format. Example:

file:///tmp/filestore

-s,--storesize <integer> The maximum size of the filestore in MB, default is 1000 -x,--maxcontexts <integer> The maximum number of contexts that can use this filestore.

Default is 5000

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

#### Return value

o on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} storepath

# Command output

On success:

filestore <fsid> registered

On failure:

filestore could not be registered: <reason from server>

#### Example 9.4. Mandatory parameters

root@oxhe~# /opt/open-xchange/sbin/registerfilestore -A oxadminmaster -P secret -t file:///tmp/ filestore 34 registered

# unregisterfilestore

unregisterfilestore is the tool to remove a filestore from the Open-Xchange system. The filestore must not be used by any contexts for this operation.

# **Parameters**

-h,--help Prints a help text

-i,--id <integer> The id of the filestore which should be removed

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

#### Return value

on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} id

#### Command output

On success:

filestore <fsid> unregistered

On failure:

filestore <fsid> could not be unregistered: <reason from server>

#### Example 9.5. Mandatory parameters

root@oxhe~# /opt/open-xchange/sbin/unregisterfilestore -A oxadminmaster -P secret -id=5 filestore 5 unregistered

# listfilestore

listfilestore is the tool to list all filestores known to the Open-Xchange system.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-s,--searchpattern <string> The search pattern which is used for listing

--csv Format output as csv

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

# Return value

o on success

>0 on failure

# Mandatory parameters

{adminuser adminpass}

# Command output

#### On success:

id path size reserved used maxctx curctx

..... ... ... ... ...

#### On failure:

could not list filestores: <reason from server>

#### Example 9.6. filestore

root@oxhe~# /opt/open-xchange/sbin/listfilestore -A oxadminmaster -P secret id path size reserved used maxctx curctx 6 /fsmount/fs6 1000 0 0 5000 0 3 /fsmount/fs3 8388608 200 0 1000 1

# listcontextsbyfilestore

listcontextsbyfilestore is the tool to list all contexts that remain on the given filestore.

# **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

--csv Format output as csv -f,--filestore <filestore> \* Target filestore id

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

# Return value

on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} filestore

# Command output

#### On success:

cid fid fname enabled qmax qused name Imappings

...... ... ... ... ... ...

On failure:

contexts for filestore could not be listed: <reason from server>

#### Example 9.7. list context for filestore

root@oxhe:/opt/open-xchange/sbin# ./listcontextsbyfilestore -f 3 cid fid fname enabled qmax qused name lmappings 6 3 6\_ctx\_store true 1000 0 contextname example.de

#### movecontextfilestore

movecontextfilestore is the tool to move a given context from its current to another filestore

# **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output -c,--contextid <string> The id of the context to be moved

-f,--filestore <integer> Target filestore id

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name

-P,--adminpass <string> Context Admin password

# Return value

o on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} contextid filestore

# Command output

On success:

context <contextid> moved to filestore <fsid>

On failure:

context <contextid> could not be moved to filestore <fsid>: <reason from server>

# Example 9.8. movefilestorecontext

root@oxhe~# /opt/open-xchange/sbin/movefilestorecontext -A oxadminmaster -P secret -f 9 -c 4711 context 4711 moved to filestore 9

# changefilestore

changefilestore is the tool to change attributes of registered filestores.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-i,--id <integer> The id of the filestore which should be changed

-t,--storepath <string> Path to store filestore contents in URI format. Example:

file:///tmp/filestore

-s,--storesize <integer> The maximum size of the filestore in MB

-x,--maxcontexts <integer> The maximum number of contexts that can use this filestore

# Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name

-P,--adminpass <string> Context Admin password

#### Return value

on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} id and at least one parameter to change

# Command output

On success:

filestore <fsid> changed

On failure:

filestore <fsid> could not be changed: <reason from server>

# Example 9.9. changefilestore

 ${\tt root@oxhe~\#/opt/open-xchange/sbin/changefilestore -A\ oxadminmaster -P\ secret --id=35 -s\ 100000} filestore\ 35\ changed$ 

# 9.2.3. Database registration management

# registerdatabase

registerdatabase is the tool to make a database known to the Open-Xchange system. For all databases, you can define one write (master) and one read (slave) connection. It is also possible to have multiple slaves behind a IP load balancer.

"dbweight" is used to configure the distribution of contexts over all DBMS. For example, a value of 60 would lead to 60% of all contexts to be stored in the DBMS (if the sum of all values is 100). It is also recommended that --OX DB POOL INIT is always set to 0. Be sure the --OX DB POOL MAX does not exceed the max connections configuration option of the MySQL server.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-n,--name <name> Name of the database
-H,--hostname <hostname> Hostname of the server

-u,--dbuser <dbuser> Name of the user for the database -d,--dbdriver <dbdriver> The driver to be used for the database.

-p,--dbpasswd <dbpasswd> Password for the database

-m,--master <true/false> Set this if the registered database is the master

-M,--masterid <masterid> If this database is not the master enter the master id here

-w,--dbweight <dbweight> The db weight for this database.

-x,--maxunit <maxunit> The maximum number of contexts in this database.

-l,--poolhardlimit <true/false> Db pool hardlimit.-o,--poolinitial <poolinitial> Db pool initial.-a,--poolmax <poolmax> Db pool max.

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

#### Return value

on success

>0 on failure

Mandatory parameters

{adminuser adminpass} name dbpasswd master

# Command output

On success:

database <dbid> registered

On failure:

database <dbid> could not be registered: <reason from server>

# Example 9.10. Example

root@oxhe~# /opt/open-xchange/sbin/registerdatabase -n db1 -p secret -m true database 12 registered

# unregisterdatabase

unregisterdatabase is the tool to remove a database from the Open-Xchange system. If present, the slaves must be unregistered prior to the master.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-i,--id <id> The id of the database. -n,--name <name> Name of the database

Extra parameters when authentication is enabled

```
-A,--adminuser <string> Context Admin user name
-P,--adminpass <string> Context Admin password
```

#### Return value

on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} (id or name)

# Command output

On success:

database <dbid> unregistered

On failure:

database <dbid> could not be unregistered: <reason from server>

#### Example 9.11. unregisterdatabase

root@oxhe~# /opt/open-xchange/sbin/unregisterdatabase --id=13 database 13 unregistered

#### listdatabase

listdatabase is the tool to list all databases registered in the Open-Xchange system.

# **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-s,--searchpattern <searchpattern> Search/List pattern! --csv Format output to csv

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

#### Return value

on success

>0 on failure

# Mandatory parameters

# {adminuser adminpass}

#### Command output

#### On success:

id name	hostname	master mid	weight maxctx	curctx hlimit	max inital

#### On failure:

databases could not be listed: <reason from server>

# Example 9.12. listdatabases

#### $root@oxhe{\sim}\#\ /opt/open-xchange/sbin/list databases$

id name	hostn	ame ma	aster	mid v	veight r	naxctx curd	tx hlii:	nit max	inital
1 DB1	db1	true	0	100	1000	843 true	100	0	
2 DB2	db2	true	0	100	1000	843 true	100	0	
3 DB3	db3	true	0	100	1000	843 true	100	0	
4 DB4	db4	true	0	100	1000	843 true	100	0	

# listcontextsbydatabase

listcontextsbydatabase is the tool to list all contexts that remain on a schema in the given database.

# **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

--csv Format output as csv -d,--database <database> The id of the database. -n,--name <name> Name of the database

# Extra parameters when authentication is enabled

```
-A,--adminuser <string> Context Admin user name
-P,--adminpass <string> Context Admin password
```

# Return value

o On success

>0 On failure

# Mandatory parameters

{adminuser adminpass} (database or name)

# Command output

#### On success:

cid fid fname enabled qmax qused name lmappings

On failure:

contexts for filestore could not be listed: <reason from server>

# Example 9.13. listcontextsbydatabase

root@oxhe:/opt/open-xchange/sbin# ./listcontextsbydatabase --name db1 cid fid fname enabled qmax qused name lmappings 6 3 6\_ctx\_store true 1000 0 contextname example.de

# movedatabasecontext

movedatabasecontext is the tool to move a given context from its current to another database

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-c,--contextid <contextid> The id of the context

-N,--contextname <contextname> Context name

-d,--database <database> The id of the database.
-n,--name <name> Name of the database

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

#### Return value

0 on success

>0 On failure

# Mandatory parameters

#### {adminuser adminpass} (contextid or contextname) (database or name)

#### Command output

On success:

context <contextid> moved to database <dbid>

on failure:

context <contextid> could not be moved to database <dbid>: <reason from server>

#### Example 9.14. movedatabasecontext

root@oxhe~# /opt/open-xchange/sbin/movedatabasecontext -A oxadminmaster -P secret -d 3 -c 4711 context 4711 moved to database 3

# changedatabase

changedatabase is the tool to change attributes of a registered database.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-i,--id <id> The id of the database. -n,--name <name> Name of the database -H,--hostname <hostname> Hostname of the server

-u,--dbuser <dbuser>-d,--dbdriver <dbdriver>The driver to be used for the database

-p,--dbpasswd <dbpasswd> Password for the database -w,--dbweight <dbweight> The db weight for this database

-x,--maxunit <maxunit> The maximum number of contexts in this database

-l,--poolhardlimit <true/false> Db pool hardlimit -o,--poolinitial <poolinitial> Db pool initial -a,--poolmax <poolmax> Db pool max

# Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

## Return value

on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} (id or name) and at least one parameter to change

# Command output

On success:

database <dbid> changed

On failure:

database <dbid> could not be changed: <reason from server>

#### Example 9.15. changedatabase

root@oxhe~# /opt/open-xchange/sbin/changedatabase -id=5 -x 100000 database 5 changed

# 9.2.4. Server registration management

# registerserver

**registerserver** is the tool to make a new Open-Xchange application server known to the Open-Xchange system.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-H,--hostname <servername> Open-Xchange internal server name (normally the host

name)

Extra parameters when authentication is enabled

```
-A,--adminuser <string> Context Admin user name
-P,--adminpass <string> Context Admin password
```

#### Return value

on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} hostname

# Command output

On success:

server <id> registered

On failure:

server <servername> could not be registered: <reason from server>

# Example 9.16. registerserver

 $\label{localization} $$r00t@0xhe~\# /opt/open-xchange/sbin/registerserver -A oxadminmaster -P secret -h ox1 $$server 4 registered$ 

# unregisterserver

unregisterserver is the tool to remove a server from the Open-Xchange system. A server can only be removed when no context is bound to it any more.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-i,--id <id> The id of the server which should be removed

-H,--hostname <servername> Open-Xchange internal server name (usually the host

name)

# Extra parameters when authentication is enabled

```
-A,--adminuser <string> Context Admin user name
-P,--adminpass <string> Context Admin password
```

#### Return value

on success

>0 on failure

# Mandatory parameters

{adminuser adminpass} (id or hostname)

# Command output

On success:

server <id> unregistered

On failure:

server <id> could not be unregistered: <reason from server>

#### Example 9.17. unregisterserver

root@oxhe~# /opt/open-xchange/sbin/unregisterserver --id=5 server 5 unregistered

#### listserver

listserver is the tool to list all servers registered in the Open-Xchange configuration database.

#### **Parameters**

-h,--help Prints a help text

--environment Show info about commandline environment

--nonl Remove newlines (\n) from output

-s,--searchpattern <string> The search pattern which is used for listing

--csv Format output as csv

Extra parameters when authentication is enabled

-A,--adminuser <string> Context Admin user name -P,--adminpass <string> Context Admin password

#### Return value

o on success

>0 on failure

#### Mandatory parameters

{adminuser adminpass}

#### Command output

On success:

Id Name

. ...

On failure:

could not list filestores: <reason from server>

# Example 9.18. listservers

root@oxhe~# /opt/open-xchange/sbin/listservers -A oxadminmaster -P secretId Name 2 app1

# 9.2.5. Consistency tool

The Consistency Tool serves the purpose to detect and fix inconsistencies between file storage and data base.

The following paragraphs describe possible inconsistencies and how to fix them and explain where to store context file data or meta data, and finally the consistency tool's usage is introduced.

Attachments to Infostore objects and files are stored on the hard drive, their meta data (title, description, file name, file size etc) are stored in the MySQL data base. The file's path on the hard drive is also stored in the MySQL data base. Problems arise if both systems are out of sync, e.g if an attachment or InfoStore entry points to a file that no longer exists on the hard drive (subsequently called "missing" files). And vice versa, if there is a file on the hard drive without attachment or InfoStore entry (subsequently called "orphaned" or "unassigned"). The Consistency Tool can trace and list both kinds of inconsistency.

There are different ways to fix such inconsistencies. If the file to a data base entry (Info item or attachment) is missing, you can either delete the data base entry or create a dummy file. Respectively, an unassigned file can either be deleted or an infostore entry is created that belongs to the context admin which the orphaned file is assigned to. The consistency tool can resolve the inconsistencies using the above described methods.

An OX:HE installation normally includes several contexts. The contexts are distributed to several data base schemas. Contexts 1 to 5 are e. g. located in the data base scheme ox\_db1, 6 and 7 in ox\_db2, and 8 bis 10 in ox\_db3. Likewise the file data of a context are distributed to several file storages. A file storage is a directory with subdirectores for contexts. Depending on the presumed storage space needed for a context, the contexts are assigned to the single file storages. Context 1 to 3 could thus be located in file storage 1, context 4 to 9 in file storage 2 and context 10 in file storage 3. Why does one need all that knowledge to use the consistency tool? The consistency tool can search for inconsistencies within a context, in all contexts within a scheme or in all contexts that store their data in a file store.

# How to use the consistency tool?

Common way to start the consistency tool:

(action) (where to search) (how to resolve the inconsistency)

Possible actions are either "list missing" to list missing files, "list unassigned" to list unassigned files or "repair" to resolve inconsistencies. You can either search a context (context 1), a file storage (filestore 23), or a data base (database 12). How to resolve inconsistencies with "repair" is explained below. Some examples:

1. List missing files

If you want to list all missing files in a context (1) use the command:

checkconsistency list missing context 1

You can add some noise words to make the command more intelligible (to be able to still understand the script in a few years time). Following commands do the same:

checkconsistency list missing in context 1

checkconsistency list missing files in context 1

This command lists all file storage paths that, in the data base, are assigned to an attachment or InfoStore entry which files no longer exist though.

It is also possible to search all files of a file storage:

checkconsistency list missing in filestore 2

or all files that belong to a data base:

checkconsistency list missing in database 3

or simply all missing files:

checkconsistency list missing files everywhere

2. List unassigned files:

Likewise the command for unassigned files. You just have to replace the word "missing" with "unassigned":

checkconsistency list unassigned context 1

checkconsistency list unassigned in context 1

checkconsistency list unassigned files in context 1

checkconsistency list unassigned files in filestore 2

checkconsistency list unassigned files everywhere

# 3. Repair

To resolve inconsistencies use the "repair" command instead of "list unassigned" or "list missing" as action. Additionally, state how to handle the errors (more later):

check\_consistecy repair context 1 (policies)

or

checkconsistency repair errors in context 1 with policies (policies)

checkconsistency repair errors in filestore 2 with policies (policies)

checkconsistency repair errors in database 3 with policies (policies)

# The policies are divided in condition and action:

condition: action

The conditions are:

missing_file_for_infoitem	If a file is missing that points to an Infoitem
missing_file_for_attachment	If a file is missing that points to an attachment
missing_entry_for_file	
If a file exists that neither points to an attachment nor to an Infoitem.	

#### Actions are:

delete
Deletes the DBEntry or the file
create_dummy
Creates a dummy file (valid for missing_file_for_infoitem and missing_file_for_attachment)
create_admin_infoitem
Creates an Infoitem with the unassigned file in the Contextadmin Infostore.

If there is no action set for a condition the respective inconsistencies are ignored. Here are some examples:

checkconsistency repair errors in context 1 missing\_file\_for\_infoitem : delete missing\_file\_for\_attachment : create\_dummy missing\_entry\_for\_file : delete

Deletes all versions of Infoitems that point nowhere (only the versions, not the Infoitem itself), deletes all files with no assignment and creates dummy files for all attachments that point nowhere.

checkconsistency repair errors in database 3 missing\_file\_for\_infoitem : create\_dummy missing\_entry\_for\_file : create\_admin\_infoitem

Repairs all contexts in data base 3, creates dummy files for Infoitems that point nowhere and creates Infoitems in the context admin's Infostore, for files that have no assignment in the data base. Attachments are not handled.

# checkconsistency

checkconsistency is the tool to make sure that filestore and database meta data is consistent.

#### **Parameters**

```
-h,--help Prints a help text
```

Extra parameters when authentication is enabled

```
-A,--adminuser <string> Context Admin user name
-P,--adminpass <string> Context Admin password
```

#### Return value

on success

>0 on failure

# Mandatory parameters

{adminuser adminpass}

# Command output

On success:

filestore <fsid> registered

On failure:

filestore <fsid> could not be registered: <reason from server>

# Example 9.19. registerfilestore

 $root@oxhe{\sim}\#\ /opt/open-xchange/sbin/registerfilestore$ 

# 9.2.6. jobcontrol

# jobcontrol

**jobcontrol** is the tool to list and control the job queue within the Open-Xchange admin daemon. Jobs in the queue are generated by **movecontextdatabase** and **movecontextfilestore** 

#### **Parameters**

```
-h,--help Prints a help text
--environment Show info about commandline environment
--nonl Remove newlines (\n) from output
-l,--list list the jobs of this open-xchange server
-d,--delete <id>delete the given job id
-t,--details <id>show details for the given job
-f,--flush flush all finished jobs from the
```

Extra parameters when authentication is enabled

```
-A,--adminuser <string> Context Admin user name
-P,--adminpass <string> Context Admin password
```

#### Return value

```
o on success
>o on failure
```

# Mandatory parameters

#### {adminuser adminpass}

# Command output

```
on success --delete:

job <jobid> deleted

on success --details:

job

on success --flush:

job

on success --list:

job

on failure:
```

Open-Xchange OX6 52

could not (list jobs | delete < jobid> | print details of < jobid> | | flush jobs): < reason from server>

#### Example 9.20. jobcontrol

root@oxhe~# /opt/open-xchange/sbin/jobcontrol

#### 9.2.7. contextrestore

#### contextrestore

The contextrestore bundle is a solution for restoring one single context out of a mysql dump from a complete database. In a distributed setup, it is possible to use several files containing the dumps of different databases. The tool described within this document does fetch the needed information out of these files.

The context restore bundle is designed as an admin bundle so it has to be installed into the OSGi environment of the OX admin daemon.

The package open-xchange-admin-plugin-contextrestore contains the bundle itself and the corresponding configuration files. The bundle will get installed as a directory below /opt/open-xchange/bundles. The configuration file can be found in:

/opt/open-xchange/etc/admindaemon/plugin/contextrestore.properties.

For the restore process, the tool requires some information to be available in the database. One is the availability of the old database pool id. The tool will dig out the pool id the context used before from the mysql dump, and will try to get a connection to the corresponding database through this pool id. If the pool id does not exist any more, an error is thrown. The same applies to the filestore id.

For correct operation it is required that the mysql dumps for this tool represent a consistent state of the whole database setup. Furthermore this consistent state should also include the backup of the filestore.

The Debian package has to be installed with the Debian management tool dpkg. Afterwards a new shell script named contextrestore is to be found under <code>/opt/open-xchange/sbin</code>. The admin daemon needs to be restarted to make the new functionality available. The functionality is accessible via RMI, CLT and SOAP.

A complete database backup has to be done before the new function can be used. The Tool described within this document requires a full SQL dump of the databases involved. This can be done by executing the command <code>mysqldump</code>—all-databases—single-transaction, on all database machines registered in Open-Xchange as well as the configuration Database. These two parameters are very important. The first one lets the dump contain every database on the specified database host, and the second is used for a consistent backup. Instead of—all-databases you can also use—database with the right database(s), if none of the switches are given as direct argument then mysql will left out essential data in the dump. For a full backup the switch—all-databases is recommended.

The usage of the command line tool is self-explanatory as it confirms to the standard unix behavior. --help will show a short help with the available parameters. The main arguments of the tool are different database dumps (from the configdb and the distributed user data databases). On success the tool returns the path to the filestore of the given context. The files below this path have to be restored afterwards in a separate process which is not part of the Open-Xchange system. An example of a restore would look like this:

# Example 9.21. restore

contextrestore -A <username> -P <password> -c 7777 -f <complete path to configdb dump>,<complete path to first user data database dump>

file:///tmp/filestore2/7777\_ctx\_store

Note that the parts in <> have to be replaced by the parameters for your setup

# **Parameters**

-h,--help Prints a help text

# Example 9.22. contextrestore

root@oxhe~# /opt/open-xchange/sbin/contextrestore

# **Chapter 10. Tuning the Open-Xchange Server**

This chapter describes all possible configuration options and their values.

# 10.1. Configuration Options Groupware and Admin

A directory for configuration files is introduced that carries files common for administration daemon and groupware server. This directory will be given on start to configurate bundle to fetch the properties located in this new directory. Moving of that configuration file should be documented in the release notes and in administration documentation. There are no possible side effects.

Configuration directory /opt/open-xchange/etc/common

# 10.1.1. foldercache.properties

ENABLE_DB_GROUPING	Define where to perform folder grouping. This filters the database results for duplicate folders in the 'where' clause of the db statement or afterwards in the application. Possible values: TRUE / FALSE.
ENABLE_FOLDER_CACHE	Enable or disable folder caching. Possible values: TRUE / FALSE.
IGNORE_SHARED_ADDRESSBOOK	Determine whether to ignore 'shared addressbook' folder or not. Possible values: TRUE / FALSE.
ENABLE_INTERNAL_USER_EDIT	Define if users are allowed to edit their own contact object contained in folder 'Global Address Book' aka 'Internal Users'. Switching this parameter only has an effect for newly created contexts.

# 10.2. Configuration Options Groupware

Configuration directory /opt/open-xchange/etc/groupware.

NOTE: All time values in the configuration files are in milliseconds.

# 10.2.1. system.properties

SERVER_NAME	Server name registered by registerserver in the configura-
	tion database can be read with listservers

# 10.2.2. attachment.properties

MAX_UPLOAD_SIZE	If the sum of all uploaded files in one request is larger than
	this value, the upload will be rejected. If this value is not
	set or 0, the more general MAX UPLOAD SIZE configured
	in server.properties will be used. If that value is also 0 or
	not set, uploads will be unrestricted. The size is in bytes.

# 10.2.3. calendar.properties

CACHED_ITERATOR_FAST_FETCH	The option CACHED_ITERATOR_FAST_FETCH defines the numbers of pre-fetched results with the parameter MAX PRE FETCH.
MAX_PRE_FETCH	MAX_PRE_FETCH results are gathered in one SQL query instead of MAX_PRE_FETCH single SQL queries. Normally, higher values result in higher performance if this option is enabled.
CHECK_AND_REMOVE_PAST_RE- MINDERS	If this option is enabled no event is triggered and no mail will be sent if the reminder is before the start date.
CHECK_AND_AVOID_SOLO_RE- MINDER_TRIGGER_EVENTS	This option prevents triggering and sending an E-Mail notification if only a reminder has been changed. If a notification should be sent in any case this option should be disabled.

# 10.2.4. configjump.properties

URL	URL to the config interface. %c is replaced with context login information. %u is replaced with user login information.
	%p is replaced with user password. URL=http://local-
	host/?cid=%c <login=%u>pass=%p (This URL can be reached</login=%u>
	by clicking on Extras in the folder tree) This option has
	only affect if the plugin configjump-generic is installed.

# 10.2.5. configdb.properties

useSeparateWrite	false, use read URL for both read and write true, different URLs are used for read and write
read*	Specifies the connection settings for the read database
write*	Specifies the connection settings for the write database (only used when useSeparateWrite is set to true)
cleanerInterval	Time interval of cleaner thread in milliseconds. This thread removes idle timed out database connections and removes not used database connection pools after each cleanerInterval.
minIdle	Number of connections to keep open although they are not used. This value is overwritten for OX databases from configdb. Sould be 0 so that no unnecessary connections are kept in the memory.
maxIdle	Number of maximum idle connections. If the maximum exceeds, no more connections are pooled but are closed instead1 stands for unlimited.
maxIdleTime	Maximum time in milliseconds a connection can be idle. If the maximum exceeds, the connection is closed.
maxActive	If exhaustedAction is set to BLOCK, no more than maxActive connections will be opened to the mysql database. This value is overwritten for OX databases from configdb.
maxWait	If exhaustedAction is set to BLOCK, a thread will not wait for more than maxWait milliseconds.
maxLifeTime	Maximum time in milliseconds a connection will be used. After this time the connection gets closed.

exhaustedAction	BLOCK: If maxActive number of connections is reached threads have to wait for a connection.
	FAIL: If maxActive number of connections is reached an exception is thrown.
	GROW: Open more connections even if maxActive is already reached.
	This value is overwritten for OX databases from configdb.
testOnActivate	Validate connections if they are activated. This is not necessary because the activation already includes a check if the connection is not closed.
testOnDeactivate	Check if connections can be reused after they are returned to the pool
testOnIdle	For test purposes. Should always be false
testThreads	If testThreads is set to true, more information is logged to the Open-Xchange log files about database connections. If this option is enabled the performance may degrade dramatically. The JVM has to generate then a lot of method call stack dumps.

# 10.2.6. imap.properties

variable	value
com.openexchange.imap.imapSort	Define where to sort emails: Value "imap" to let the IMAP Server sort (faster but less reliable). Leave blank or fill in value "application" to sort within application (slower but good quality). The sorting is done on IMAP server if a mailbox' size exceeds the mailFetchLimit as defined in mail.properties. NOTE: This value is going to be set to "application" if IMAP server capabilities do not contain string "SORT"
com.openexchange.imap.imapSearch	Define where to search for emails: Value "imap" to let the IMAP Server search. The search is done on IMAP server if a mailbox' size exceeds the mailFetchLimit as defined in mail.properties. Leave blank or fill in value "application" to search within application.
com.openexchange.imap.imapFastFetch	This property determines whether a fast fetch is performed on large mail folders or not. Although the fetch is fast on IMAP side, a lot of data is transfered during reading response which cause a temporary memory peak. If disabled only the necessary fields are used as command arguments, which is slower but needs less memory. NOTE: See property "imapMessageFetchLimit" to know which mail folders are treated as large mail folders
com.openexchange.imap.imapSupport-sACL	Define if IMAP server supports ACLs. Possible values: true/false/auto NOTE: Value "auto" means to use server-defined ACL support as indicated through response to IMAP command "CAPABILITY"
com.openexchange.imap.imapTimeout	Define the socket I/O timeout value in milliseconds. A value less than or equal to zero is infinite timeout. The IMAP timeout has to be smaller than the AJP timeout. See also mail.imap.timeout

variable	value
com.openexchange.imap.imapConnectionTimeout	Define the socket connection timeout value in milliseconds. A value less or equal to zero is infinite timeout. The IMAP timeout has to be smaller than the AJP timeout. See also mail.imap.connectiontimeout
com.openexchange.imap.imapAuthEnc	_
com.openexchange.imap.maxIMAPConnectionIdleTime	Define max. IMAP connection idle time in milliseconds or in other words how long an established IMAP connection is going to be kept alive while it's idle. NOTE: This is for future use and not yet implemented!
com.openexchange.imap.User2ACLImpl	Name of the class that implements User2ACL, their alias or "auto" to use auto-detection. Currently known aliases: Cyrus, Courier
com.openexchange.imap.mboxEnable	Enable/disable mbox format: A mail folder can only either hold subfolders or hold messages. Furthermore the folder type on creation is determined by the folder name. If folder name ends with the server-defined folder separator character its type is HOLDS-FOLDERS; otherwise its type is HOLDS-MESSAGES. Note that there's currently an unresolved problem concerning deletion of mail folders. Since the trash folder is created to hold only messages, no backup of the deleted folder can be copied to trash folder; meaning the folder in question (including messages, its subfolders, and subfolders' contents) is irretrievably lost.
com.openexchange.imap.blockSize	IMAP operations which shall be applied to a number of messages which exceeds the block size are performed in blocks. Example: A folder containing thousands of messages shall be cleared. To avoid the risk of an IMAP timeout when trying to delete all messages at once, the messages are deleted in block size portions.
com.openexchange.imap.spamHandler	Define the osgi registration name of the appropriate spam handler to use

# 10.2.7. mail.properties

This file contains the general mail configuration. Specific implementations get configured in the used mail plugin for example imap.properties for imap.

Variable	Value
com.openexchange.mail.loginSource	Set the login source; meaning which source is taken to determine a user's login for mailing system. If 'login' is set, then user's individual mail login as defined in user storage is taken. If 'mail' is set, then user's individual primary email address is taken. If 'name' is set, then user's individual system's user name is taken. Currently known values: login, mail, and name
com.openexchange.mail.password- Source	Set the password source; meaning which source is taken to determine a user's password to login into mailing system. If 'session' is set, then user's individual system's password is taken. If 'global' is set, then the value specified through property 'com.openexchange.mail.masterPassword' is taken. Currently known values: session and global

Variable	Value
com.openexchange.mail.mailServer- Source	Set the mail server source; meaning which source is taken to determine the mail server into which the user wants to login to access mails. Set to 'global' to take the value specified through property "com.openex-change.mail.mailServer". Set to 'user' to take user's individual mail server settings as specified in storage. Currently known values: user and global
com.openexchange.mail.transportServer- Source	Set the transport server source; meaning which source is taken to determine the transport server into which the user wants to login to transport mails. Set to 'global' to take the value specified through property "com.openex-change.mail.transportServer". Set to 'user' to take user's individual transport server settings as specified in storage. Currently known values: user and global
com.openexchange.mail.masterPass- word	The master password for the mail server. Only takes effect when property "com.openexchange.mail.loginType" is set to "global"
com.openexchange.mail.mailServer	Mail server: e.g. 192.168.178.32:8143 or imap://192.168.178.32:7143  Only takes effect when property "com.openex-change.mail.mailServerSource" is set to "global"
com.openexchange.mail.transportServer	Mail transport server: e.g. 192.168.178.32:125 or smtp://192.168.178.32:225  Only takes effect when property "com.openex-change.mail.transportServerSource" is set to "global"
mail.mime.charset	Define the default MIME charset used for character encoding. This parameter takes effect for the complete mail module where no charset is given.
com.openexchange.mail.maxNumOfConnections	Specify max number of mail connections that can exist at the same time per user. 0 stands for unlimited.
com.openexchange.mail.mailFetchLimit	Define the max. fetch limit; meaning all mails whose count is less than or equal to this value are going to be fetched with all attributes set. Thus these mails can be put into message cache for subsequent list requests.
com.openexchange.mail.attachmentDisplaySizeLimit	maximum size of email text attachments that will be displayed inline ( in bytes)
com.openexchange.mail.quoteLineColors	Comma-separated hex values of colors for displaying quoted text emails. Default #a14044,#917722,#599351,#516193,#666666
com.openexchange.mail.userFlagsEn-abled	Enable/disable user defined flags
com.openexchange.mail.partModifier- Impl	The default com.openexchange.mail.partmodifier.Dummy-PartModifier needs to be kept.
com.openexchange.mail.allowNested- DefaultFolderOnAltNamespace	This property defines if the default folders of an user (Draft, Sent, Spam & Trash) are going to be placed right below folder "INBOX" even if feature "altNamespace" is enabled. NOTE: This property requires that subfolders are still permitted below initial folder "INBOX" even though "altNamespace" is enabled.

Variable	Value
com.openexchange.mail.ignoreSubscription	Defines if folder subscription is ignored when listing mail folders If set to 'true', all folders - regardless of their subscription status - are going to be listed
com.openexchange.mail.supportSubscription	Define if underlying store should support subscription
com.openexchange.mail.defaultSeparator	Define the separator within folder full names if not available from mail server
com.openexchange.mail.watcherEn- abled	The watcher checks after watcherFrequency for mail connection used for more than watcherTime milliseconds and logs this mail connection. If watcherShallClose is set to true those connections will be closed.
com.openexchange.mail.watcherFrequency	Define watcher's frequency in milliseconds
com.openexchange.mail.watcherTime	Define exceeding time in milliseconds for mail connections. If use time of an mail connection exceeds this value it is logged. Thus unclosed connections can be detected.
com.openexchange.mail.watcherShall-Close	Define if watcher is allowed to close exceeded mail connections
com.openexchange.mail.JavaMailProperties	JavaMail Properties. The default should not be changed.
com.openexchange.mail.phishingHeader	A comma-separated list of headers which identifies phishing headers; e.g. X-Phishing1,X-Phishing2,etc. Leave empty for no phishing header.
autoSearch	The automatic search of users in the recipients dialog can be de/activated. Default is true.
com.openexchange.mail.mailAccess-CacheShrinkerSeconds	Defines the interval seconds of the mail access cache's shrinker thread
com.openexchange.mail.mailAccess-CacheIdleSeconds	Defines the idle seconds a mail access may reside in mail access cache before it is removed by shrinker thread

# 10.2.8. smtp.properties

This file contains the configuration for the smtp server

Variable	Value
com.openexchange.smtp.smtpLocalhost	The default is set to InetAddress.getLocalHost().getHost-Name() but if either JDK or name service are not configured properly, this routine fails and the HELO or EHLO command is sent without a name which leads to an error: "501 HELO requires domain address" The value "null" falls back to InetAddress.getLocalHost().getHostName() which works in most cases.
com.openexchange.smtp.smtpAuthEnc	Define the encoding for SMTP authentication
Enable/disable SMTP Authentication	Enable/disable SMTP Authentication
com.openexchange.smtp.setSMTPEn-	Defines if SMTP header ENVELOPE-FROM should be explicite-
velopeFrom	ly set to user's primary email address or not
com.openexchange.smtp.smtpTimeout	Define the socket I/O timeout value in milliseconds. A value less than or equal to zero is infinite timeout. See also mail.smtp.timeout

Variable	Value
com.openexchange.smtp.smtpConnec-	Define the socket connection timeout value in milliseconds.
tionTimeout	A value less or equal to zero is infinite timeout. See also
	mail.smtp.connectiontimeout

# 10.2.9. ajp.properties

This file contains the configuration for the OX server "ajp 13 protocol" implementation. The communication between apache jk and the Open-Xchange application server can be fine-tuned here.

Variable	Value
AJP_PORT	tcp port where the groupware server listens for incoming AJP requests
SERVLET_POOL_SIZE	Initial number of instances held in memory for each available single threaded servlet (single threaded servlets are deprecated and are not used by the Open-Xchange Server)
AJP_SERVER_THREAD_SIZE	Number of AJP server threads which create a client socket on an incoming request. This is the number of threads processing newly opened AJP sockets. AJP sockets are kept alive by default therefore only one thread is recommended.
AJP_LISTENER_POOL_SIZE	number of initially created AJP listeners for processing incoming AJP requests This pool does grow dynamically but does not go below.
AJP_LISTENER_READ_TIMEOUT	The amount of time in milliseconds a listener is going to wait (or block) while waiting to read the initial bytes from the web server from the input stream. 0 stands for unlimited and should not be changed because if the server closes connections here the sticky sessions would break.
AJP_MOD_JK	This property defines whether mod_jk is used or not, since some mod_jk implementations force the servlet container not to close connections. If set to TRUE the property AJP_MAX_NUM_OF_SOCKETS will be ignored to avoid closing connections by the servlet container.
AJP_MAX_NUM_OF_SOCKETS	Defines the maximum number of open sockets. Any socket opened beyond will be closed automatically if AJP_MOD_JK is set to FALSE.
AJP_CONNECTION_POOL	Defines whether to use AJP connection pool or not. The pool holds instances of AJP connection objects. This saves the time to create new objects.
AJP_CONNECTION_POOL_SIZE	The ajp connection pool size. This property only takes effect if AJP_CONNECTION_POOL is set to TRUE and defines the number of instances held in the pool.
AJP_REQUEST_HANDLER_POOL	Defines whether to use AJP request handler pool or not. The pool holds instances of AJP request handlers. This saves time to create new objects.
AJP_REQUEST_HANDLER_POOL_SIZE	The AJP request handler pool size. This property only takes effect if AJP_REQUEST_HANDLER_POOL is set to TRUE and defines the number of held instances.
AJP_WATCHER_ENABLED	Enable/Disable AJP watcher. The watcher is a thread that checks every AJP_WATCHER_FREQUENCY if AJP requests take longer than AJP_WATCHER_MAX_RUNNING_TIME. If

Variable	Value
	AJP_WATCHER_PERMISSION is true, those requests will be
	terminated or otherwise logged into the groupware log.
AJP_WATCHER_PERMISSION	If true, the AJP watcher has the permission to stop & re-init
	system.
AJP_WATCHER_MAX_RUNNING_TIME	defines max AJP listener running time in milliseconds
AJP_WATCHER_FREQUENCY	defines the max AJP watcher frequency in milliseconds
AJP_JVM_ROUTE	SET HOST'S UNIQUE JVM ROUTE IMPORTANT FOR LOAD
	BALANCING. This value is added to the cookie JSESSIONID
	so that mod_jk knows which server to route the requests
	to. This is needed to bind a session to one specific Open-
	Xchange server in a cluster.
JP_CHECK_MAGIC_BYTES_STRICT	Define if the mandatory first two bytes of an incoming AJP
	package (magic bytes) have to exactly match the sequence
	0x12 0x34 or if just one byte has to match at # the proper
AID CED U.ET. CONIEIC DID	position. It is recommended to leave that true.
AJP_SERVLET_CONFIG_DIR	Defines the path for the servlet configuration; null stands for "oxgroupwaresysconfdir@/servletConfig"
AJP BIND ADDR	Defines the address to which the opened AJP server socket
	will be bound to. A socket to all available interfaces will be
	bound if set to "*".
AJP_LOG_FORWARD_REQUEST	Logs corresponding AJP forward request if an unexpected
	empty body request is detected.
AJP_JSESSIONID_TTL	This parameter determines after which time outdated HTTP
	sessions are removed. HTTP sessions are remembered
	through the JSESSIONID cookie. Not removing those out-
	dated HTTP sessions causes a memory leak. The parameter
	configures the time those sessions are kept in milliseconds.

# 10.2.10. push.properties

This file contains the configuration of the MS Outlook UDP connectivity subsystem.

Variable	Value
.pushEnabled	Defines if server push port gets opened or not.
.registerTimeout	Time in milliseconds a client registration is kept.
.registerPort	Port where the clients send the push registration request
	to.
.registerDistributionEnabled	Only one of registerDistribution or eventDistribution can be enabled at the same time. If set to true, registrations are distributed to all OX Servers.
.eventDistributionEnabled	Only one of registerDistribution or eventDistribution can be enabled at the same time. If set to true, events will be distributed to all Open-Xchange Servers.
.outputQueueDelay	Time in milliseconds before queued "push" packages are sent to clients.
.hostname	If empty, the output of the java function getHostName will be used. This name is used for internal communication.
.senderAddress	Address used as the sender address when UDP packages are sent to the clients (should be the IP address of the load balancer in front of the Open-Xchange Server farm).
.multicastEnabled	true/false; send register or event information per multicast

Variable	Value
.multicastAddress	IP multicast address
.multicastPort	Multicast port

# 10.2.11. sessiond.properties

Variable	Value
.isServerSocketEnabled	Start a sessiond socket (not used for OXHE)
.isServerObjectStreamSocketEnabled	Start a sessiond object stream socket (not used for OXHE)
.serverPort	sessiond socket on this port (not used for OXHE)
.serverBindAddress	Accept only sockets from this address (not used for OXHE)
.isDoubleLoginPermitted	Allow users to be logged in multiple times.
serverObjectStreamPort	sessiond socket on this object stream port (not used for OXHE)
isTcpClientSocketEnabled	Enable communication between client and server over tcp (not used for OXHE).
. session Container Time out	Session container timeout in milliseconds. After the timeout the session containers will rotate, i. e. the oldest one will be destroyed and a new one will be created.
.numberOfSessionContainers	Number of session containers.
maxSession	Maximum number of concurrent sessions, 0 stands for unlimited.
sessionDefaultLifeTime	Maximum lifetime of idle sessions in milliseconds.

# 10.2.12. cache.ccf sessioncache.ccf mailcache.ccf

Configuration for the used JCS implementation. Open-Xchange servers use JCS to cache frequently used objects and to keep these cached objects caches in sync on all machines in the cluster. It is used for cache invalidation only. The defaults for the pre-defined cache regions should be kept. The caches communicate through TCP/IP and find each other via multicast. In some situations those values need to be changed for the local network infrastructure in the auxiliary section.

Variable	Value
.TcpServers	This line must be commented to make auto configuration via udp possible.
.TcpListenerPort	The port where the caches listen for invalidation messages.
.UdpDiscoveryAddr	Multicast address where the caches send broadcasts to in order to find each other.
.UdpDiscoveryPort	Port number for the multicast setup.
.UdpDiscoveryEnabled	true/false needs to be true to make Udb discovery work.

For more in-depth information consult the project documentation of Apache JCS at http://jakarta.apache.org/jcs/ The groupware and admin caches must listen on the same multicast address and port. Same applies for the sessioncaches. The maicache is only local and the default do not need to be changed.

# 10.2.13. infostore.properties

MAX_UPLOAD_SIZE	If the sum of all uploaded files in one request is larger than
	this value, the upload will be rejected. This value can be
	overridden on a per-user basis by setting the upload_quota

in the mail configuration of this user. If this value is not set
or 0, the more general MAX_UPLOAD_SIZE configured in
server.properties will be used. If that value is also 0 or not
set, uploads will be unrestricted. The size is in Bytes.

# 10.2.14. notification.properties

notify_participants_on_delete	If true, participants of appointments get a notification E-
	Mail when the appointment gets deleted.
object_link	url in notification E-Mails [hostname] is replaced with the
	hostname of your machine. [module], [object] and [folder]
	are replaced with the relevant IDs to generate the direct
	link. "http:// <hostname>/#m=[module]&amp;i=[ob-</hostname>
	ject]&f=[folder]" HOSTNAME must be replaced by the
	hostname of the frontend server.

# 10.2.15. ox-scriptconf.sh

JAVA_XTRAOPTS	This property sets the java options given to the groupware during launch time.
NRFILES	Maximun number of files the groupware is allowed to open (set through ulimit on startup)
UMASK	Specify the umask of file permissions to be created by ox, e.g. in the filestore, UMASK=066

# 10.2.16. participant.properties

ShowWithoutEmail	If true, a search for appointment participants also shows contacts without E-Mail addresses. Those addresses are grayed out and not selectable because an E-Mail address is needed for appointments.
autoSearch	The automatic search of users in the participants dialog can be de/activated. Default is true.

# 10.2.17. server.properties

PrefetchEnabled	Enable or disable SearchIterator prefetch. If prefetch is enabled the underlying ResultSet data is completely stored and all related resources are released immediately when creating a SearchIterator. Possible values: TRUE / FALSE.
UPLOAD_DIRECTORY	Upload Parameter. All uploads that are done by a client are temporarily saved in that directory.
MAX_UPLOAD_SIZE	If the sum of all uploaded files in one request is greater than this value, the upload will be rejected. This value can be overridden on a per-module basis by setting the MAX_UPLOAD_SIZE parameter in the module's config file (attachment.properties or infostore.properties). Or it can be overriden on a per-user basis by setting the upload_quota in the E-Mail configuration of this user. If this value is set to 0 and not overridden by the module config or user config uploads will be unrestricted. The size is in bytes.

PrefetchEnabled	Enable or disable SearchIterator prefetch. If prefetch is enabled the underlying ResultSet data is completely stored and all related resources are released immediately when creating a SearchIterator. Possible values: TRUE / FALSE.
MAX_UPLOAD_IDLE_TIME_MILLIS	The maximum idle time in milliseconds for an uploaded file temporarily stored in the upload directory.
DefaultEncoding	The encoding has to match the webservers default encoding. Default is UTF-8.
JMXPort	Define the port which is then applied to the JMX-based agent.
JMXLogin	Define the JMX login for authentication. Leaving this property empty means not to use authentication and a non-root user can stop the complete server.
JMXPassword	Define the JMX password in SHA hashed version This property only has effect if previous property "JMXLogin" is set. The following perl command can be used to generate such a password: perl -M'Digest::SHA1 qw(sha1_base64)' - e 'print sha1_base64("YOURSECRET")."=\n";' that requires to install the Digest::SHA1 perl module, of course.
JMXBindAddress	Define the bind address for the JMX monitor agent Use the value "*" to let the JMX monitor bind to all interfaces: JMXBindAddress=*
minimumSearchCharacters	Defines the minimum number of characters for a search. Default is 0.

# 10.2.18. contact.properties

contact_first_letter_field	First Letter Field, the field you sort in when you click on one of the start letters.
	field02 Last name
	field03 First name
validate_contact_email	Check the entered E-Mail address from a new contact for correctness (syntactic check user@domain.tld)
scale_images	Scale Images for contacts down to the given ratio
scale_image_width	Maximum width a contact image will be scaled to.
scale_image_height	Maximum height a contact image will be scaled to.
max_image_size	The maximum size in bytes for the upload of contact im-
	ages.
quickSelect	Activates or deactivates the contact view's quick selection.
	Possible values: true/false

# 10.2.19. event.properties

This file contains the configuration of the event handling in OX6. Event handling is a core function and should never be turned off. For instance, when deleting a contact with attachments, the contact will be deleted immediately and an event is created to delete the attachment at a later time.

Variable	Value
.isEventQueueEnabled	This option enables or disables the complete event handling for OX. The event handling is an essential Open-Xchange component which needs to always run.
.eventQueueDelay	This parameter sets the delay in milliseconds when events are sent to the subscribed services. Events e. g. are triggered when deleting an appointment with attachment. The event then is for deleting the attachment.

# 10.2.20. file-logging.properties

This file contains the configuration for error and information logging.

Variable	Value
.level	Default logging level, should be INFO in productive environ-
	ments. Other possible values are ALL INFO DEBUG.

# 10.2.21. mailfilter.properties

This file contains the configuration for the mailfilter plugin.

Variable	Value
SIEVE_LOGIN_TYPE	Specify which sieve server should be used. Two options are allowed here:
	user: use the setting stored for the user in the database
	global: use the sieve server given in this config file for all users
SIEVE_CREDSRC	Specify which sieve credentials should be use. Three options are allowed here:
	"session": login name and password are used from the current session
	"imapLogin": the login name is taken from the database (imapLogin) of
	user, the password is taken from the current session
	"mail": use the primary mail address of the user and the password from the session
SIEVE_SERVER	Sieve server
SIEVE_PORT	Sieve port
SCRIPT_NAME	If you want the script to be generated with another script name change it here. Note that the mail filter bundle will then leave the old script with the old script name behind, and doesn't delete it.

# 10.2.22. settings/themes.properties

This file contains the configuration for available themes. More information about that and how to create themese can be found here: http://www.open-xchange.com/wiki/index.php?title=Gui\_Theming\_Description

# 10.2.23. servletmappings/servletmapping.properties

The request path to servlet class mapping. Wildcards are allowed as long as '\*' character is the last character in specified servlet path.

# 10.2.24. updatetask.cfg

If updatetasks.cfg is missing all update tasks are executed. If that file exists only the tasks configured in that file are executed.

# 10.2.25. transport.properties

Variable	Value
com.openexchange.mail.transport.referencedPartLimit	Define the limit in bytes for keeping an internal copy of a referenced MIME message's part when sending a mail. If a part exceeds this limit a temporary file is created holding part's copy.
com.openexchange.mail.defaultTransportProvider	The transport provider fallback if an URL does not contain/define a protocol

# 10.3. Configuration for the Admin Daemon

# 10.3.1. system.properties

SERVER_NAME	Server name registered by registerserver in the configura-
	tion database can be read with listservers.

# 10.3.2. plugin/hosting.properties

Variable	Value
AVERAGE_CONTEXT_SIZE	The average MB space a context is expected to use on the disk in the filestore.
CONTEXTS_PER_SCHEMA	Maximum amount of contexts that will be stored in a single mysql schema.
CREATE_CONTEXT_USE_UNIT	Must be set to context.
CHECK_CONTEXT_LOGIN_MAP- PING_REGEXP	Pattern of allowed characters in login mapping (context) names.
JMX_PORT	Port number for JMX
JMX_BIND_ADDRESS	The port where the java JMX monitoring service is listening on.
NEW_CONTEXT_DEFAULT_AC- CESS_COMBINATION_NAME	Default access combination template name for newly created contexts. See also "ModuleAccessDefinitions" file for details. If the name is NOT defined in "ModuleAccessDefinitions" file, the fallback will be used.

# 10.3.3. AdminDaemon.properties

Variable	Value
SERVER_NAME	Server name set and registered during initial install.

Variable	Value
MASTER_AUTHENTICATION_DISABLED	Disabling authentication for system calls like context/server
	etc. creation.
CONTEXT_AUTHENTICATION_DIS- ABLED	Disabling authentication for context calls like user/group etc. creation. This also disables authentication for calls which a "normal" user can make like changing his own data
	or getting his own data.
CONCURRENT_JOBS	Number of jobs to be be executed concurrently

# 10.3.4. Group.properties

variable	value
CHECK_GROUP_UID_FOR_NOT_AL-	true/false: enable check for allowed characters in group
LOWED_CHARS	names on creation.
CHECK_GROUP_UID_REGEXP	Regexp for allowed chars
AUTO_TO_LOWERCASE_UID	This will lowercase the uid
DEFAULT_CONTEXT_GROUP_ <locale></locale>	When creating a new context, this is the default group name for the <locale>.</locale>

# 10.3.5. Resource.properties

Variable	Value
CHECK_RES_UID_FOR_NOT_AL-	true/false: enable check for allowed characters in resource
LOWED_CHARS	names on creation.
CHECK_RES_UID_REGEXP	Regexp for allowed characters.
AUTO_TO_LOWERCASE_UID	this will lowercase the uid

# 10.3.6. User.properties

Variable	Value
DEFAULT_PASSWORD_MECHANISM	Specify the default password mechanism to use. Possible values: CRYPT / SHA
CHECK_USER_UID_FOR_NOT_AL- LOWED_CHARS	true/false: enable check for allowed characters in user names on creation.
CHECK_USER_UID_REGEXP	Regexp for allowed characters.
AUTO_TO_LOWERCASE_UID	This will lowercase the uid
USERNAME_CHANGEABLE	WARNING: Changing the username might have impact on external systems like imap server that allows acls to be set. Imap ACLS usually use symbolic names so when changing the user name without changing the ACL breaks the ACL. open-xchange-admin will NOT change those ACLS, so DO NOT CHANGE THIS SETTING ON OX Express
PRIMARY_MAIL_UNCHANGEABLE	If true, it is possible to change primary E-Mail address (this breaks outlook oxtender support)
DISPLAYNAME_UNIQUE	Should the displayname be unique or not? This adds further checks while dealing with users.
SENT_MAILFOLDER_ <locale></locale>	Default Sent Mail folder name for <locale> when not set per RMI.</locale>
TRASH_MAILFOLDER_ <locale></locale>	Default Trash folder name for <locale> when not set per RMI.</locale>

Variable	Value
DRAFTS_MAILFOLDER_ <locale></locale>	Default Drafts folder name for <locale> when not set per RMI.</locale>
SPAM_MAILFOLDER_ <locale></locale>	Default SPAM folder name for <locale> when not set per RMI</locale>

# 10.3.7. configdb.properties

Same as the groupware configdb.properties above. useSeparateWrite has to be false. When true, the admin deamon cannot read its newly written changes from the configdb slave because of database replication times. readURL and writeURL have to point to the Master.

With SP5 groupware's and admindaemon's connection to the ConfigDB should be configured in the same way except the last parameter in the file.

If you have a MySQL master/slave setup, configure useSeparateWrite=true for both applications. The read connection must read from the slave; while the write connection has to connect to the master. All parameters to configure both connections start with the keywords read or write. If your ConfigDB is only a single database server configure useSeparateWrite=false let read and write connection both connect to your single database server.

All remaining parameters in this file configure the pooling of the database connections and it is suggested to not change them. If you need more connections to ConfigDB it is recommended to increase the maxActive parameter.

The last parameter writeOnly must be configured to false for the groupware and to true for the admindaemon.

# 10.3.8. RMI.properties

RMI_PORT	Port number the Admin Daemon listens on to accept RMI
	calls from remote machines.

# 10.3.9. cache.ccf

Same as the cache.ccf above for groupware. The .TcpListenerPort has to be different from the groupware when running on the same host.

# 10.3.10. file-logging.properties

Same as the groupware file-logging.properties above.

# 10.3.11. ModuleAccessDefinitions.properties

This configuration file holds the module access masks for creating users. Information about available modules und tested configurations is available directly in it

## Chapter 11. Logging and Exception Handling

In case of errors, all error messages generated by the application have an exception ID included. This exception ID is unique and written to log files with additional information as well as shown to the customer at the frontend.

The Open-Xchange Server processes, per default write all log messages into the files:

**GW Process:** 

/var/log/open-xchange/open-xchange.log\*

/var/log/open-xchange/open-xchange-console.log

Admin Process:

/var/log/open-xchange/open-xchange-admin.log\*

/var/log/open-xchange/open-xchange-admin-console.log

All messages written on std out are redirected to the "\*-console.log" files. This, for example, means errors from the java virtual machine. The other files contain messages directly from the application.

The log level as well as filenames and file sizes can be tuned in the configuration file file-logging.properties under the admin and groupware configuration directories.

Possible log levels are:

- \* SEVERE (highest value)
- \* WARNING
- \* INFO (for production)
- \* CONFIG
- \* FINE
- \* FINER
- \* FINEST (lowest value)

For clustered setups Open-Xchanges recommends to log via syslog to a dedicated log host. For this the log4j bundles, as described in chapter (??), need to be installed. The default then is the groupware to log with facility local2 and admin with facility local5, directly to syslog. The syslogd must run with the additional switch "-r" so that remote messages get accepted (on debian to be configured in /etc/default/syslogd). The log4j configuration file log4j.xml is located under the admin and groupware configuration directories. Log level, facility, messages and SyslogHost can be set there.

Possible log4j log levels are:

- \* DEBUG (lowest value)
- \* INFO (for production)
- \* WARN
- \* ERROR
- \* FATAL (highest value)

## **Chapter 12. Error codes**

ро-	Compo- nent Name	Catego- ry Code	Category String	Se- quence No	Message	De- scrip- tion	Exception Class
	-	1	USER_IN- PUT	1	Bad value %1\$s in pa- rameter %2\$s	TODO	com.openex- change.ajax.helper.Param- ContainerException
		1	USER_IN- PUT	1	Object not found. %s	TODO	com.openex- change.api.OXObjectNot- FoundException
		1	USER_IN- PUT	1	Unable to convert task status %1\$s.	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
		1	USER_IN- PUT	2	Unable to convert task priority %d.	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
		1	USER_IN- PUT	5	Request rejected because its size (%1\$s) exceeds the maximum configured size of %2\$s	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
		1	USER_IN- PUT	8	An uploaded file refer- enced by %1\$s could not be found	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
		1	USER_IN- PUT	9	Parsing error parsing ical: %s	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
		1	USER_IN- PUT	10	Unknown Class: %1\$s	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
		1	USER_IN- PUT	11	Cowardly refusing to convert confidential classified objects.	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
		1	USER_IN- PUT	12	•	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
		1	USER_IN- PUT	14	Private Appointments can not have attendees. Remov-	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning

			ing attendees and accepting appointment anyway.		
1	USER_IN- PUT	15	Not supported recurrence pattern: BY-MONTH	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
1	USER_IN- PUT	1008	Invalid email address %1\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception
1	USER_IN- PUT	1009	Wrong message header: %1\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception
1	USER_IN- PUT	1013	Message could not be sent to the following recipients: %1\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception
3	PERMIS- SION	1000	There was an issue in authenticating your E-Mail password. This may be because of a recent password change. To continue please logout now and then log back in with your most current password. (server=%1\$s   user=%2\$s)	TODO	com.openex- changemailmimeMIMEMailEx- ception
3	PERMIS- SION	1001	Wrong or missing login data to access server %1\$s.	TODO	com.openex- changemailmimeMIIMEMailEx- ception
3	PERMIS- SION	1010	An attempt was made to open a read- only folder with read- write: %1\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception

	4	TRY_AGAIN	1017	Connection was reset. Please try again.	TODO	com.openex- changemailmime.MIMEMailEx- ception
	5	SUBSYS- TBM_OR_SER- VICE_DOWN	5	Cannot get database connection.	TODO	com.openex- change.group- ware.ldap.LdapException
	5	SUBSYS- TEM_OR_SER- VICE_DOWN	1016	Connection was refused or timed out while at- tempting to connect to remote serv- er %1\$s for user %2\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception
	5	SUBSYS- TEM_OR_SER- VICE_DOWN	1018	No route to host: server (%1\$s) can- not be reached	TODO	com.openex- changemailmime.MIMEMailEx- ception
	5	SUBSYS- TBM_OR_SER- VICE_DOWN	1019	Port %1\$s was unreach- able on re- mote server	TODO	com.openex- changemailmime.MIMEMailEx- ception
	5	SUBSYS- TEM_OR_SER- VICE_DOWN	1020	Connection is broken due to a socket exception on remote server: %1\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception
	5	SUBSYS- TEM_OR_SER- VICE_DOWN	1022	The IP address of host %1\$s could not be determined	TODO	com.openex- dhangemailmime.MIMEMailEx- ception
	6	SOCK- ET_CON- NECTION	2			
%4\$s TODO	compenex dranggipi3ex cep- tionAPVI3Ex ception					
	6	SOCK- ET_CON- NECTION	3	Socket closed by web server. Wait for in- put data of package #%1\$d took %2\$dmsec.	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception

	6	SOCK- ET_CON- NECTION	4	No data provided from web server: input stream returned -1 while reading AJP magic bytes in package #%1\$d. Wait for input data took %2\$dmsec.	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
	6	SOCK- ET_CON- NECTION	6	Problem writing to stream.	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
	6	SOCK- ET_CON- NECTION	7	Unknown Request Pre- fix Code: %1\$s	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
	6	SOCK- ET_CON- NECTION	8	Missing pay- load data in client's body chunk pack- age	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
	6	SOCK- ET_CON- NECTION	12	_	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
	6	SOCK- ET_CON- NECTION	13	String parse exception: No ending 0x00 found	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
	6	SOCK- ET_CON- NECTION	16	An I/O error occurred: %1\$s	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
	6	SOCK- ET_CON- NECTION	19	Cookie JSES- SIONID con- tains non- matching JVM route: %1\$s not equal to %2\$s	TODO	
	6	SOCK- ET_CON- NECTION	20			
%3\$s TODO	compenex dranggipilaex cep- tonAPVI3Ex ception					

6	SOCK- ET_CON- NECTION	21	AJP server socket could not be bound to port %1\$d. Probably an- other pro- cess is al- ready listen- ing on this port.	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
7	INTER- NAL_ER- ROR	1		TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
7	INTER- NAL_ER- ROR	1	File upload failed: %1\$s	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
7	INTER- NAL_ER- ROR	4	Cache %s could not be initialized due to fol- lowing error: %s	TODO	com.openex- change.cache.OX- CachingException
7	INTER- NAL_ER- ROR	1012	Message could not be sent be- cause it is too large	TODO	com.openex- changemailmimeMIMEMailEx- ception
8	CODE_ER- ROR	1	Put into cache failed.	TODO	com.openex- change.cache.OX- CachingException
8	CODE_ER- ROR	1	Sessiond Exception	TODO	com.openexchange.ses- siond.exception.Session- dException
8	CODE_ER- ROR	1	An SQL er- ror oc- curred: %1\$s	TODO	com.openex- change.tools.itera- tor.SearchIteratorExcep- tion
8	CODE_ER- ROR	1	Push UDP Exception	TODO	com.openex- change.push.udp.PushUD- PException
8	CODE_ER- ROR	2	The default element at- tributes could not be retrieved	TODO	com.openex- change.cache.OX- CachingException
8	CODE_ER- ROR	2	Max Session size reached	TODO	com.openexchange.ses- siond.exception.Session- dException
8	CODE_ER- ROR	2	Missing pa- rameter %1\$s	TODO	com.openex- change.ajax.helper.Param- ContainerException

8	CODE_ER- ROR	2	Cannot build distin- guished name from %s.	TODO	com.openex- change.group- ware.ldap.LdapException
8	CODE_ER- ROR	2		TODO	com.openex- change.groupware.set- tings.SettingException
8	CODE_ER- ROR	2	Missing affili- ation id	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
8	CODE_ER- ROR	2	A DBPool error occurred: 1\$%s	TODO	com.openex- change.tools.itera- tor.SearchIteratorExcep- tion
8	CODE_ER- ROR	3	Remove on cache failed	TODO	com.openex- change.cache.OX- CachingException
8	CODE_ER- ROR	3	Sessiond Config Ex- ception	TODO	com.openexchange.ses- siond.exception.Session- dException
8	CODE_ER- ROR	3	Can not create recurrence rule:	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
8	CODE_ER- ROR	3	Unknown action value: %1\$s	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
8	CODE_ER- ROR	3	Operation not allowed on a closed SearchItera- tor	TODO	com.openex- change.tools.itera- tor.SearchIteratorExcep- tion
8	CODE_ER- ROR	4	Invalid session given to implementation %1\$s.	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
8	CODE_ER- ROR	4	· · · · · · · · · · · · · · · · · · ·	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
8	CODE_ER- ROR	4	•	TODO	com.openex- change.tools.itera- tor.SearchIteratorExcep- tion
8	CODE_ER- ROR	5	Unknown event topic %s	TODO	

8	CODE_ER- ROR	5	AJP connection is not set to status ASSIGNED	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
8	CODE_ER- ROR	5	Can not generate uid.	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
8	CODE_ER- ROR	5	FreeBusyRe- sults calcula- tion prob- lem with oid: %1\$d	TODO	com.openex- change.tools.itera- tor.SearchIteratorExcep- tion
8	CODE_ER- ROR	6	Password could not be changed	TODO	com.openexchange.ses- siond.exception.Session- dException
8	CODE_ER- ROR	6	Response package ex- ceeds max package size value of 8192k: %1\$s	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
8	CODE_ER- ROR	6	SQL Prob- lem: %s	TODO	com.openex- change.group- ware.ldap.LdapException
8	CODE_ER- ROR	6	Missing parameter %1\$s	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
8	CODE_ER- ROR	6	Invalid con- structor ar- gument. In- stance of %1\$s not supported	TODO	com.openex- change.tools.itera- tor.SearchIteratorExcep- tion
8	CODE_ER- ROR	7	Max. session size for user %1\$s in con- text %2\$s ex- ceeded	TODO	com.openexchange.ses- siond.exception.Session- dException
8	CODE_ER- ROR	7	Validation of calendar failed.	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
8	CODE_ER- ROR	7	Problem putting/re-moving an object in-to/from the cache.	TODO	com.openex- change.group- ware.ldap.LdapException
8	CODE_ER- ROR	7	Unknown module: %1\$d	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
8	CODE_ER- ROR	7	No such ele- ment.	TODO	com.openex- change.tools.itera-

					tor.SearchIteratorException
8	CODE_ER- ROR	8	Can not resolve user:	TODO	com.openexchange.da- ta.conversion.ical.Conver- sionWarning
8	CODE_ER- ROR	8	Hash algo- rithm %s isn't found.	TODO	com.openex- change.group- ware.ldap.LdapException
8	CODE_ER- ROR	9	Empty ShokOy(GHJ)K package MUST NOT be sent	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
8	CODE_ER- ROR	9	Encoding %s cannot be used.	TODO	com.openex- change.group- ware.ldap.LdapException
8	CODE_ER- ROR	9	Invalid action value: %1\$s	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
8	CODE_ER- ROR	10	Integer value exceeds max allowed value (65535): %1\$d	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
8	CODE_ER- ROR	10	Cannot find resource group with identifier %d.	TODO	com.openex- change.group- ware.ldap.LdapException
8	CODE_ER- ROR	10	Upload file with id %1\$s could not be found	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
8	CODE_ER- ROR	11	Invalid content-type header value: %1\$s	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception
8	CODE_ER- ROR	11	Found resource groups with same identifier %d.	TODO	com.openex- change.group- ware.ldap.LdapException
8	CODE_ER- ROR	11	Upload file's content type %1\$s does not fit to given file fil- ter %2\$s	TODO	com.openex- change.groupware.up- load.impl.UploadExcep- tion
8	CODE_ER- ROR	12	Cannot find resource with identifi- er %d.	TODO	com.openex- change.group- ware.ldap.LdapException

source: %1\$s sionWarning com.openex-change.group-ware.ldap.LdapException er %d.  8						
8 CODE_ER- 13 Found re- TODO com.openex-change_group-ware.ldap.LdapException  8 CODE_ER- 14 Unsupport- TODO com.openex-change_aip13.exception.AJPv13Exception  8 CODE_ER- 14 Cannot find TODO com.openex-change_group-ware.ldap.LdapException  8 CODE_ER- 15 No attribute TODO com.openex-change.group-ware.ldap.LdapException  8 CODE_ER- 15 No attribute TODO com.openex-change.group-ware.ldap.LdapException  8 CODE_ER- 15 Cannot find TODO com.openex-change.group-ware.ldap.LdapException  8 CODE_ER- 15 Cannot find TODO com.openex-change.group-ware.ldap.LdapException  8 CODE_ER- 16 Found two TODO com.openex-change.group-ware.ldap.LdapException  8 CODE_ER- 16 Found two TODO com.openex-change.group-ware.ldap.LdapException  8 CODE_ER- 17 A messaging TODO com.openex-change.group-ware.ldap.LdapException  8 CODE_ER- 17 Cannot find TODO com.openex-change.group-ware.ldap.LdapException  8 CODE_ER- 17 Cannot find TODO com.openex-change.ajp13.exception.AJPv13Exception  8 CODE_ER- 17 Cannot find TODO com.openex-change.ajp13.exception.AJPv13Exception  8 CODE_ER- 22 File %1\$s in context %2\$d.  8 CODE_ER- 22 File %1\$s TODO com.openex-change.ajp13.exception.AJPv13Exception  8 CODE_ER- 23 Invalid cook-round ware.ldap.LdapException  8 CODE_ER- 23 Invalid cook-round ware.ldap.LdapException  9 CODE_ER- 23 Invalid cook-round ware.ldap.LdapException  10 COM.openex-change.ajp13.exception.AJPv13Exception  11 CODE_ER- 22 File %1\$s TODO com.openex-change.ajp13.exception.AJPv13Exception	8	_	13	solve re-	TODO	ta.conversion.ical.Conver-
ROR ed encoding: %1\$s  8	8	_	13	sources with same identifi-	TODO	com.openex-
8 CODE_ER- 14 Cannot find TODO com.openex-change.group-ware.ldap.LdapException code: %1\$d  8 CODE_ER- 15 No attribute TODO com.openex-change.group-ware.ldap.LdapException code: %1\$d  8 CODE_ER- 15 Cannot find TODO com.openex-change.group-ware.ldap.LdapException ware.ldap.LdapException ware.lda	8	_	14	ed encod-	TODO	change.ajp13.excep-
8 CODE_ER- 15 No attribute name could be found for code: %1\$d  8 CODE_ER- 15 Cannot find user with identifier %1\$s in context %2\$d.  8 CODE_ER- 16 Found two user with same identifier er %1\$s in context %2\$d.  8 CODE_ER- 17 A messaging TODO com.openex-change.group-ware.ldap.LdapException ware.ldap.LdapException com.openex-change.ajp13.exception.AJPv13Exception ware.ldap.LdapException ware.ldap.LdapException ware.ldap.LdapException ware.ldap.LdapException ware.ldap.LdapException com.openex-change.ajp13.exception.dlapException ware.ldap.LdapException ware.ldap.LdapException ware.ldap.LdapException com.openex-change.ajp13.exception ware.ldap.LdapException ware.ldap.LdapException com.openex-change.ajp13.exception ware.ldap.LdapException com.openex-change.ajp13.exception.AJPv13Exception com.openex-change.ajp13.exception.AJPv13Exception.AJPv13Exception.AJPv13Exception.AJPv13Exception.AJPv13Exception.AJPv13Exception.AJPv13Except	8	_	14	user with	TODO	change.group-
ROR user with identifier ware.ldap.LdapException  **N\$s in context %2\$d.  **ROR**  **CODE_ER-** **I\$ found two user with same identifier ware.ldap.LdapException  **CODE_ER-** **ROR**  **CODE_ER-** **CODE_ER-	8		15	name could be found for	TODO	com.openex- change.ajp13.excep-
ROR user with same identifier %1\$s in context %2\$d.  8	8	_	15	user with identifier %1\$s in con-	TODO	
ROR error oc- curred: %1\$s tion.AJPv13Exception  8 CODE_ER- 17 Cannot find TODO com.openex- ROR group with change.group- identifier ware.ldap.LdapException %1\$s in con- text %2\$d.  8 CODE_ER- 22 File %1\$s TODO com.openex- ROR could not be change.ajp13.excep- found. tion.AJPv13Exception  8 CODE_ER- 23 Invalid cook- TODO com.openex- ROR ie header change.ajp13.excep- value: %1\$s tion.AJPv13Exception  8 CODE_ER- 1002 Mail folder TODO com.openex- ROR could not be change.aip13.excep- tion.AJPv13Exception  8 CODE_ER- 1002 Mail folder TODO com.openex- ROR could not be change.mailmimeMIMEMailEx- found: %1\$s ception  8 CODE_ER- 1003 Folder is TODO com.openex- ROR closed: %1\$s changemailmimeMIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- hangemailmimeMIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- changemailmimeMIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- changemailmimeMIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- changemailmimeMIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- changemailmimeMIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- changemailmimeMIMEMailEx- ception	8		16	user with same identifi- er %1\$s in context	TODO	
ROR group with change.group- identifier ware.ldap.LdapException %1\$s in con- text %2\$d.  8 CODE_ER- 22 File %1\$s TODO com.openex- ROR could not be change.ajp13.excep- found. TODO com.openex- change.ajp13.excep- tion.AJPv13Exception CODE_ER- 23 Invalid cook- ROR ie header change.ajp13.excep- value: %1\$s tion.AJPv13Exception  8 CODE_ER- 1002 Mail folder TODO com.openex- ROR could not be changemailmime.MIMEMailEx- found: %1\$s ception  8 CODE_ER- 1003 Folder is TODO com.openex- ROR closed: %1\$s changemailmime.MIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- ROR attempt: TODO com.openex- changemailmime.MIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- hangemailmime.MIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- hangemailmime.MIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- hangemailmime.MIMEMailEx- ception	8		17	error oc-	TODO	change.ajp13.excep-
ROR could not be found. tion.AJPv13Exception  8 CODE_ER- 23 Invalid cook- TODO com.openex-change.ajp13.exception  8 CODE_ER- 1002 Mail folder TODO com.openex-dhange.mail.mime.MIMEMailExfound: %1\$s ception  8 CODE_ER- 1003 Folder is TODO com.openex-dhange.mail.mime.MIMEMailExfound: %1\$s ception  8 CODE_ER- 1003 Folder is TODO com.openex-dhange.mail.mime.MIMEMailExfound: %1\$s ception  8 CODE_ER- 1004 Illegal write TODO com.openex-dhange.mail.mime.MIMEMailExfound: TODO com.openex-dhange.mail.mime.mime.mime.mime.mime.mime.mime.mi	8	_	17	group with identifier %1\$s in con-	TODO	•
8 CODE_ER- 23 Invalid cook- TODO com.openex- ROR ie header change.ajp13.excep- value: %1\$s tion.AJPv13Exception  8 CODE_ER- 1002 Mail folder TODO com.openex- ROR could not be changemailmimeMIMEMailEx- found: %1\$s ception  8 CODE_ER- 1003 Folder is TODO com.openex- ROR closed: %1\$s changemailmimeMIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- ROR attempt: com.openex- changemailmimeMIMEMailEx- ception	8	_	22	could not be	TODO	change.ajp13.excep-
8 CODE_ER- 1002 Mail folder TODO com.openex- ROR could not be dangemailmimeMIMEMailEx- found: %1\$s ception  8 CODE_ER- 1003 Folder is TODO com.openex- ROR closed: %1\$s dangemailmimeMIMEMailEx- ception  8 CODE_ER- 1004 Illegal write TODO com.openex- ROR attempt: dangemailmimeMIMEMailEx-	8	_	23	Invalid cook- ie header	TODO	com.openex- change.ajp13.excep-
8 CODE_ER- 1003 Folder is TODO com.openex- ROR closed: %1\$s changemailmimeMIMEMailEx- ception 8 CODE_ER- 1004 Illegal write TODO com.openex- ROR attempt: changemailmimeMIMEMailEx-	8	_	1002	Mail folder could not be	TODO	com.openex- changemailmimeMIMEMailEx-
8 CODE_ER- 1004 Illegal write TODO com.openex- ROR attempt: dangemailmimeMIMEMailEx-	8	_	1003	Folder is	TODO	com.openex- changemailmimeMIMEMailEx-
	8	_	1004	attempt:	TODO	change.mail.mime.MIMEMailEx-

8	CODE_ER- ROR	1005	Invalid method on an ex- punged mes- sage: %1\$s	TODO	com.openex- changemail.mime.MIMEMailEx- ception
8	CODE_ER- ROR	1006	Method not supported: %1\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception
8	CODE_ER- ROR	1007	Session attempts to instantiate a provider that doesn't exist: %1\$s	TODO	com.openex- changemailmimeMIMEMailEx- ception
8	CODE_ER- ROR	1011	Invalid search ex- pression: %1\$s	TODO	com.openex- changemailmimeMIMEMailEx- ception
8	CODE_ER- ROR	1014	Store al- ready closed: %1\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception
8	CODE_ER- ROR	1021	A socket error occurred: %1\$s	TODO	com.openex- changemailmime.MIMEMailEx- ception
8	CODE_ER- ROR	1023	Messaging error: %1\$s	TODO	•
9	CONCUR- RENT_MOD- IFICATION	1	The object has been changed in the meantime.	TODO	com.openex- change.api2.OXConcur- rentModificationExcep- tion
10	SETUP_ER- ROR	1	Cannot find property %s.	TODO	com.openex- change.group- ware.ldap.LdapException
10	SETUP_ER- ROR	3	Class %s can not be load- ed.	TODO	com.openex- change.group- ware.ldap.LdapException
10	SETUP_ER- ROR	4	Missing property '%s'	TODO	com.openexchange.ses- siond.exception.Session- dException
10	SETUP_ER- ROR	4	Cannot instantiate class %s.	TODO	com.openex- change.group- ware.ldap.LdapException
10	SETUP_ER- ROR	18	Missing property AP_MM_ROUTE in file ajp.properties	TODO	com.openex- change.ajp13.excep- tion.AJPv13Exception

		10	SETUP_ER- ROR	1015	Could not bind connec- tion to local port %1\$s	TODO	com.openex- changemail.mime.MIMEMailEx- ception
		11	exter- Nal_re- Source_rul	1024	Mail server's quota is ex- ceeded		changemailmime.MIMEMailException
ACL	ACL_ER- ROR	5	SUBSYS- TBM_OR_SER- VICE_DOWN	2	An I/O error occurred while creating the socket connection to IMAP server (%1\$s): %2\$s	TODO	com.openex- change.imap.enti- ty2acl.Entity2ACLExcep- tion
ACL	ACL_ER- ROR	5	SUBSYS- TBM_OR_SER- VICE_DOWN	4	An I/O error occurred: %1\$s	TODO	com.openex- change.imap.enti- ty2acl.Entity2ACLExcep- tion
ACL	ACL_ER- ROR	8	CODE_ER- ROR	1	Implement- ing class could not be found	TODO	com.openex- change.imap.enti- ty2acl.Entity2ACLExcep- tion
ACL	ACL_ER- ROR	8	CODE_ER- ROR	3	Instantiating the class failed.	TODO	com.openex- change.imap.enti- ty2acl.Entity2ACLExcep- tion
ACL	ACL_ER- ROR	8	CODE_ER- ROR	6	Unknown IMAP server: %1\$s	TODO	com.openex- change.imap.enti- ty2acl.Entity2ACLExcep- tion
ACL	ACL_ER- ROR	8	CODE_ER- ROR	7	Missing IMAP server arguments to resolve IMAP login to a user	TODO	com.openex- change.imap.enti- ty2acl.Entity2ACLExcep- tion
ACL	ACL_ER- ROR	8	CODE_ER- ROR	8	IMAP login %1\$s could not be re- solved to a user	TODO	com.openex- change.imap.enti- ty2acl.Entity2ACLExcep- tion
ACL	ACL_ER- ROR	10	SETUP_ER- ROR	5	Missing property %1\$s in imap.properties.	TODO	com.openex- change.imap.enti- ty2acl.Entity2ACLExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	8	Mandatory field mail address for external par- ticipants	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion

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APP	AP- POINT- MENT	1	USER_IN- PUT	10	Folder type SHARED is not allowed in this situa- tion.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	20	End date is before start date	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	21	ERROR: Un- supported label value %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	22	ERROR: Private flag is only allowed inside of a private folder.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	23	ERROR: Private flag and participants are not supported.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	24	ERROR: Un- supported private flag value %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	25	ERROR:: Un- supported shown as value %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	26	Required value Start Date was not sup- plied.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	27	Required value End Date was not supplied.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	28	Required value Title was not supplied.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	29	Unable to create exception, recurring position can not be calculated!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion

APP	AP- POINT- MENT	1	USER_IN- PUT	31	Error: Got an UserPar- ticipant ob- ject with a private fold- er id < 1 : Identifier = %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	32	Error: Got an UserPar- ticipant ob- ject with a private fold- er id in a public folder : Identifier = %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	40	Fatal error. (DAILY) Missing or wrong Inter- val value: %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	41	Fatal error. (WEEKLY) Missing or wrong Inter- val value: %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	42	Fatal error. (MONTHLY) Missing or wrong value DayInMonth : %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	43	Fatal error. (MONTHLY) Missing or wrong value Month: %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	44	Fatal error. (MONTH- LY2) Missing or wrong Day value: %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	45	Fatal error. (MONTH- LY2) Missing or wrong DayInMonth value: %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	46	Fatal error. (YEARLY) Missing or wrong value	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion

					DayInMonth : %d		
APP	AP- POINT- MENT	1	USER_IN- PUT	47	Fatal error. (YEARLY2) Missing or wrong value day: %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	48	Fatal error. (YEARLY2) Missing or wrong day_or_type : %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	49	Fatal error. (YEARLY2) Missing or wrong Inter- val value: %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	51	Unable to remove participant because this participant is the last one	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	54	Folder is not of type Cal- endar	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	55	The required value interval is missing or wrong	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	56	The required value days is missing or wrong	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	57	Moving appointment to a public folder flaged as private is not allowed!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	64	Fatal error. (YEARLY) Missing or wrong Month val- ue: %d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	65	Fatal error. You are try- ing to create a new recur-	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion

					ring from an exception!		
APP	AP- POINT- MENT	1	USER_IN- PUT	66	You can not move one element of a recurring ap- pointment into another folder.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	68	Move not allowed to a shared folders if the private flag is set	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	69	You can not use different private flags for one element of a recurring appointment	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	70	You can not use the private flags in a non private folder	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	71	Bad character in field %1\$s. Error: %2\$s	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	74	Recurrence position %1\$s does not exist	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	75	One or more excep- tion dates are not con- tained in re- curring ap- pointment	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	78	Value %1\$d exceeds max. supported value of %2\$d.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	82	Changing recurrence type of a change exception denied	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion

APP	AP- POINT- MENT	1	USER_IN- PUT	83	Changing re- currence po- sition of a change ex- ception de- nied.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	86	Until is be- fore start date	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	87	Incomplete recurring in- formations: Missing inter- val.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	88	Incomplete recurring in- formations: Missing until date or number of occurrences.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	89	Incomplete recurring informations: Missing weekday.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	90	Incomplete recurring informations: Missing day in month.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	91	Incomplete recurring informations: Missing month.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	1	USER_IN- PUT	92	Incomplete recurring in- formations: Missing re- currence type.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	13	You do not have the necessary permissions	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	36	Insufficient rights to attach/detach an attachment to this folder!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion

APP	AP- POINT- MENT	3	PERMIS- SION	37	Insufficient read rights for this folder!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	58	You do not have the ap- propriate permissions to modify this object.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	59	Got the wrong folder identification. You do not have the appropriate permissions to modify this object.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	60	Got the wrong shared folder identification. You do not have the appropriate permissions to modify this object.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	61	You do not have the appropriate permissions to move this object.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	62	You do not have the ap- propriate permissions to read this object	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	63	You do not have the ap- propriate permissions to create an object	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	3	PERMIS- SION	76	Appoint- ment's own- er must not be removed from partici- pants	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion

APP	AP- POINT- MENT	5	SUBSYS- TEM_OR_SER- VICE_DOWN	5	Unexpected SQL Error!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	7	INTER- NAL_ER- ROR	7	Unexpected exception %d!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	7	INTER- NAL_ER- ROR	11	Unexpected state for deleting a virtual ap- pointment (exception). uid:oid:posi- tion %d:%d:%d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	7	INTER- NAL_ER- ROR	30	Error: Got an UserPar- ticipant ob- ject with an identifier < 1 Identifi- er:Fold- er_Type = %d:%d	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	7	INTER- NAL_ER- ROR	38	FATAL:: Can not resolve recurrence position be- cause we got neither the recur- ring position nor a recur- ring date po- sition	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	7	INTER- NAL_ER- ROR	67	Fatal error. An database update ex- ception oc- curred.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	7	INTER- NAL_ER- ROR	80	The recurrence pattern is too complex. Giving up.	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	7	INTER- NAL_ER- ROR	85	Some call- backs threw exceptions: %s	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	1	FATAL: Cal- endarFolder-	TODO	com.openex- change.groupware.calen-

					Object not initialized!		dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- : ROR	2		TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- : ROR	3	Shared fold- er owner not given!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- A	4	Folder type unresolvable !	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ( ROR	6	clientLast- Modified IS NULL. Abort action!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- S	9	FATAL: Would create an object without participants	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	12	SessionOb- ject not ini- tialized	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	14	Insert expected but the object id is already given. Aborting action	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	15	Update expected but no object id is given. Aborting action	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	16	Invalid request. Folder is shared!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	17	Invalid request. Folder is shared!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	18	Invalid request. Folder is shared!	TODO	com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	19	Unsupport- ed type de- tected : %d	TODO	com.openex- change.groupware.calen-

							dar.OXCalendarExcep-
APP	AP- POINT- MENT	8	CODE_ER- ROR	33	Move not supported: Source:Desti- nation %d:%d	TODO	tion com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	34	Move not allowed from shared folders	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	35	Calendar operation: Context not set.	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	39	Missing start date, unable to calculate recurring!	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	50	Unable to remove participant %d	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	52	Action type not support- ed: %d	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	53	SearchItera- tor NULL	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	73	Calendar calculation requires a proper de- fined time zone.	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	77	An event error occurred: %1\$s	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	79	Unable to calculate first occurrence.	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR		Unknown name-value- pair in recur- rence string: %1\$s=%2\$s		com.openex- change.groupware.calen dar.OXCalendarExcep- tion
APP	AP- POINT- MENT	8	CODE_ER- ROR	84	User changing the appointment is missing.	TODO	com.openex- change.groupware.calen dar.OXCalendarExcep- tion

APP	ΛD	12	TRUNCAT-	72	Sama data	TODO	com oponov
	POINT- MENT	12	ED		Some data exceeds a field limit. Please short- en the in- put(s) for af- fected field(s).		com.openex- change.groupware.calen- dar.OXCalendarExcep- tion
ATT	ATTACH- MENT	1	USER_IN- PUT	401	Attachments must con- tain a file.	An At- tach- ment must con- tain a file, other- wise it's in- valid.	
ATT	ATTACH- MENT	1	USER_IN- PUT	405	The attachment you requested no longer exists. Please refresh the view.	An at- tach- ment with	
ATT	ATTACH- MENT	1	USER_IN- PUT	413	The attachment you requested no longer exists. Please refresh the view.	The Attach- ment does	
ATT	ATTACH- MENT ATTACH- MENT		USER_IN- PUT SUBSYS- TEM_OR_SER- VICE_DOWN	418 400	Validation failed: %s Could not save file to	The file could	

ATT	ATTACH- MENT	5	SUBSYS- TEM_OR_SER- VICE_DOWN	404	Could not retrieve file: %s	not be saved in the file store. This probably means that the file store is not reachable. A file could not be loaded from the file store. This means either that the file does not exist (and your database is inconsistent), or that the file store is not reachable.	
ATT	ATTACH- MENT	5	SUBSYS- TBM_OR_SER- VICE_DOWN	415	Could not delete file from file store. File- store: %s Context: %s	A file could not be re-moved from	

_							
							the file
							store.
							This
							can lead
							to in-
							consis-
							ten-
							cies if
							the
							change
							could
							not be
							un-
							done.
							Keep
							your
							eyes
							peeled
							for
							mes-
							sages
							indicat-
							ing an
							incon-
							sisten-
							cy be-
							tween
							DB
							and
							file
							store.
	ATT	ATTACH-	7	INTER-	407	Could not	An er-
		MENT	,	NAL ER-	107	delete at-	ror oc-
				ROR		tachment.	curred
				KOK		tacimient.	while
							retriev-
							ing
							the at-
							tach-
							ments
							that
							should
							be
							delet-
			_				ed.
	ATT	ATTACH-	7	INTER-	408	Could not	Didn't
		MENT		NAL_ER-		find an at-	find
				ROR		tachment	an at-
						with the	tach-
						file_id %s. Ei-	
						ther the file	
						is orphaned	the

ATT	ATTACH-	7	INTER-	416	or belongs to another module.	given file_id, so the file is propably or- phaned or does not be- long to the Attach- ments. Could
	MENT		NAL_ER- ROR		delete files from file- store. Con- text: %d.	not delete files from file- store. Con- text: %d.
ATT	ATTACH- MENT		INTER- NAL_ER- ROR	600	Changes done to the object this attachment was added to could not be undone. Your database is probably in- consistent, run the con- sistency tool.	to the object this attachment was added to could not be undone. Your database is probably inconsistent, run the consistency tool.
ATT	ATTACH- MENT	7	INTER- NAL_ER- ROR	600	Changes were made to the ob-	Changes done to the

					inst of this	object
					ject of this attachment	object this at-
					and cannot	tach-
					be undone.	ment
					Your	was
					database is	added
					probably in-	
					consistent,	could
					run the con-	not be
					sistency	un-
					tool.	done.
						Your
						database
						is proba
						proba-
						bly in- consis-
						tent,
						run
						the
						consis-
						tency
						tool.
ATT	ATTACH-	7	INTER-	601	An error oc-	An er-
	MENT		NAL ER-		curred at-	ror oc-
			ROR		taching to	curred
					the given	attach-
					object.	ing to
						the
						given
						ob-
		_				ject.
ATT	ATTACH-	7	INTER-	601	An error oc-	
	MENT		NAL_ER-		curred at-	ror oc-
			ROR		taching to	curred
					the given	attach-
					object.	ing to
						the given
						ob-
						ject.
ATT	ATTACH-	7	INTER-	602	The Object	The
/ \ \ \ \	MENT	,	NAL ER-	JU2	could not be	
			ROR		detached	could
					because the	
					update to an	
					underlying	tached
					object	be-
					failed.	cause
						the
						up-
						date
						to an
						under-

ATT	ATTACH- 7 MENT	INTER- NAL_ER- ROR	602	The object could not be detached because the update to an underlying object failed.	could not be de- tached be- cause the
ATT	ATTACH- 8		100	Invalid SQL	up- date to an under- lying object failed. An in-
	MENT	ROR		Query: %s	valid SQL Query was sent to the Serv- er. This can only be fixed in R&D.
ATT	ATTACH- 8 MENT	CODE_ER- ROR	101	Invalid SQL Query: %s	An in- valid SQL Query was sent to the Serv- er. This can only be fixed in R&D.
ATT	ATTACH- 8 MENT	CODE_ER- ROR	200	Invalid SQL query: %s	An in- valid SQL

				query was sent to the Serv- er. This can only be fixed in R&D.
ATT	ATTACH- 8 MENT	CODE_ER- 201 ROR	Invalid SQL query: %s	An in- valid SQL query was sent to the Serv- er. This can only be fixed in R&D.
ATT	ATTACH- 8 MENT	CODE_ER- 300 ROR	Invalid SQL Query: %s	An in- valid SQL Query was sent to the Serv- er. This can only be fixed in R&D.
ATT	ATTACH- 8 MENT	CODE_ER- 301 ROR	Invalid SQL Query: %s	An in- valid SQL Query was sent to the Serv- er.

ATT	ATTACH- 8 MENT	CODE_ER- 402 ROR	Cannot generate ID for new attachment: %s	SQL
ATT	ATTACH- 8 MENT	CODE_ER- 403 ROR	Invalid SQL query: %s	new attach- ment. An in- valid SQL query was sent
ATT	ATTACH- 8 MENT	CODE_ER- 406 ROR	Invalid SQL query: %s	to the server An in-valid SQL query was sent
ATT	ATTACH- 8 MENT	CODE_ER- 409 ROR	Invalid SQL query: %s	to the database An in- valid SQL query was sent
ATT	ATTACH- 8 MENT	CODE_ER- 410 ROR	Invalid SQL query: %s	to the database. An invalid SQL query was sent to the database

AT	T ATTACH- MENT	8	CODE_ER- ROR	411	Invalid SQL query: %s	An invalid SQL query was sent to the database	
AT	T ATTACH- MENT	8	CODE_ER- ROR	412	Invalid SQL query: %s	An invalid SQL query was sent to the database	
AT	T ATTACH- MENT	8	CODE_ER- ROR	414	Invalid SQL query: %s	An invalid SQL query was snet to the database	
AT	T ATTACH- MENT	8	CODE_ER- ROR	417	Could not remove at- tachments from database. Context: %d.	Could not remove attachments from database Context: %d.	
AT	T ATTACH- MENT	8	CODE_ER- ROR	701	Invalid pa- rameter sent in request. Parameter '%s' was '%s' which does not look like a number		
AT	T ATTACH- MENT	8	CODE_ER- ROR	801	Invalid parameter sent in request. Parameter '%s' was '%s' which does not look like a number		
CA	C CACHE	8	CODE_ER- ROR	1		TODO	com.openex- change.caching.CacheEx- ception

CAC	CACHE	8	CODE ED	`	An 1/0	T000	
		O	CODE_ER- ROR	3	An I/O error occurred: %1\$s	1000	com.openex- change.caching.CacheEx- ception
CAC	CACHE	8	CODE_ER- ROR	5	· ·	TODO	com.openex- change.caching.CacheEx- ception
CAC	CACHE	8	CODE_ER- ROR	5		TODO	com.openex- change.caching.CacheEx- ception
CAC	CACHE	8	CODE_ER- ROR	6	Put into cache failed.	TODO	com.openex- change.caching.CacheEx- ception
CAC	CACHE	8	CODE_ER- ROR	7	Safe put into cache failed. An object bound to given key already exists.	TODO	com.openex- change.caching.CacheEx- ception
CAC	CACHE	8	CODE_ER- ROR	8	Remove on cache failed	TODO	com.openex- change.caching.CacheEx- ception
CAC	CACHE	10	SETUP_ER- ROR	2	Missing cache config file at location: %1\$s	TODO	com.openex- change.caching.CacheEx- ception
CAC	CACHE	10	SETUP_ER- ROR	4	Missing configuration property: %1\$s	TODO	com.openex- change.caching.CacheEx- ception
	CONFI- GURA- TION	8	CODE_ER- ROR	8	Property %1\$s is not an integer	TODO	com.openexchange.con- figuration.Configura- tionException
	CONFI- GURA- TION	8	CODE_ER- ROR	9	_	TODO	com.openexchange.con- figuration.Configura- tionException
	CONFI- GURA- TION	10	SETUP_ER- ROR	1	Filename for property file is not defined.	TODO	com.openexchange.con- figuration.Configura- tionException
	CONFI- GURA- TION	10	SETUP_ER- ROR	2	File %1\$s does not ex- ist.	TODO	com.openexchange.con- figuration.Configura- tionException
	CONFI- GURA- TION	10	SETUP_ER- ROR	3	File %1\$s is not read-able.	TODO	com.openexchange.con- figuration.Configura- tionException
	CONFI- GURA- TION	10	SETUP_ER- ROR	4	Cannot read file %1\$s.	TODO	com.openexchange.con- figuration.Configura- tionException

CFG	CONFI- GURA- TION	10	SETUP_ER- ROR	5	Property %1\$s is not defined.	TODO	com.openexchange.con- figuration.Configura- tionException
CFG	CONFI- GURA- TION	10	SETUP_ER- ROR	6	Cannot load class %1\$s.	TODO	com.openexchange.con- figuration.Configura- tionException
CFG	CONFI- GURA- TION	10	SETUP_ER- ROR	7	Invalid configuration: %1\$s	TODO	com.openexchange.con- figuration.Configura- tionException
CSTY	CONSIS- TENCY	7	INTER- NAL_ER- ROR	201	Could not register Con- sistency MBean. Inter- nal Error: %s		
CSTY	CONSIS- TENCY	7	INTER- NAL_ER- ROR	202	Could not unregister Consistency MBean. Inter- nal Error: %s		
CSTY	CONSIS- TENCY	7	INTER- NAL_ER- ROR	301	Error com- municating with mbean in server: %s		
CON	CON- TACT	1	USER_IN- PUT	100	The application was unable to validate a given email address from this contact: %s	0	
CON	CON- TACT	1	USER_IN- PUT	101	Unable to scale this contact image. Either the file type is not supported or the image is too large. Your mime type is %1\$s and your image size is %2\$d. The max. allowed image size is %3\$d.	1	
CON	CON- TACT	1	USER_IN- PUT	102	This gif image is too large. It can not be scaled and	2	

					will not be accepted	
CON	CON- TACT	1	USER_IN- PUT	122	No changes found. No update re- quiered. Context %1\$d Object %2\$d	22
CON	CON- TACT	1	USER_IN- PUT	136	Unable to save contact image. The image appears to be broken.	36
CON	CON- TACT	1	USER_IN- PUT	138	Unable to update con- tact image. The image appears to be broken.	38
CON	CON- TACT	1	USER_IN- PUT	156	One or more fields contain too much infor- mation. Field: %1\$d Character Limit: %2\$d Sent %3\$d	56
CON	CON- TACT	1	USER_IN- PUT	168	Bad character in field %2\$s. Error: %1\$s	68
CON	CON- TACT	1	USER_IN- PUT	170	Mime type is null	70
CON	CON- TACT	1	USER_IN- PUT	171	A contact with private flag cannot be stored in a public folder. Fold- er: %1\$d context %2\$d user %3\$d	71
CON	CON- TACT	1	USER_IN- PUT	172	Image size too large. Image size: %1\$d. Max. size: %2\$d.	72
CON	CON- TACT	1	USER_IN- PUT	400	Number of documents attached to	

					this contact is below ze- ro. You can not remove any more at- tachments.	
CON	CON- TACT	3	PERMIS- SION	103	You are not allowed to store this contact in a non-contact folder: fold- er id %1\$d in context %2\$d with user %3\$d	3
CON	CON- TACT	3	PERMIS- SION	104	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	4
CON	CON- TACT	3	PERMIS- SION	105	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	5
CON	CON- TACT	3	PERMIS- SION	110	You are not allowed to store this contact in a non-contact folder: folder id %1\$d in context %2\$d with user %3\$d	10
CON	CON- TACT	3	PERMIS- SION	111	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	11

CON	CON- TACT	3	PERMIS- SION	112	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	12
CON	CON- TACT	3	PERMIS- SION	113	You are not allowed to store this contact in a non-contact folder: fold- er id %1\$d in context %2\$d with user %3\$d	13
CON	CON- TACT	3	PERMIS- SION	114	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	14
CON	CON- TACT	3	PERMIS- SION	115	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	15
CON	CON- TACT	3	PERMIS- SION	117	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	17
CON	CON- TACT	3	PERMIS- SION	118	You are not allowed to mark this contact as private contact: Context %1\$d Object %2\$d	18

CON	CON- TACT	3	PERMIS- SION	119	Edit Conflict. Your change cannot be completed because somebody else has made a conflicting change to the same item. Please refresh or synchronize and try again.	19
CON	CON- TACT	3	PERMIS- SION	142	-	42
CON	CON- TACT	3	PERMIS- SION	147		47
CON	CON- TACT	3	PERMIS- SION	152	Unable to delete contacts from user because this is a non-contact folder. Context %1\$d Folder %2\$d User %3\$d	52
CON	CON- TACT	3	PERMIS- SION	157	Unable to trigger ob- ject Events: Context %1\$d User %2\$d	57
CON	CON- TACT	3	PERMIS- SION	165	Unable to move this contact because it is marked as	65

C	ON	CON- TACT	3	PERMIS- SION	169	private: Context %1\$d Object %2\$d You do not have permis-	69
						sion to delete ob- jects from folder %1\$d in context %2\$d with user %3\$d	
C	ON	CON- TACT	3	PERMIS- SION	173	Primary email ad- dress in sys- tem contact must not be edited: Con- text %1\$d Object %2\$d User %3\$d	73
C	ON	CON- TACT	3	PERMIS- SION	174	The contact %1\$d is not located in folder %2\$s (%3\$d)	74
C	ON	CON- TACT	3	PERMIS- SION	202	You are not allowed to store this contact in a non-contact folder: folder id %1\$d in context %2\$d with user %3\$d	2
C	ON	CON- TACT	3	PERMIS- SION	204		4
C	ON	CON- TACT	3	PERMIS- SION	205	•	5

CON	CON- TACT	3	PERMIS- SION	209	You do not have permis-	9
					sion to create objects in this folder %1\$d in context %2\$d with user %3\$d	
CON	CON- TACT	3	PERMIS- SION	210	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	10
CON	CON- TACT	3	PERMIS- SION	215	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	15
CON	CON- TACT	3	PERMIS- SION	216	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	16
CON	CON- TACT	3	PERMIS- SION	222	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	22
CON	CON- TACT	3	PERMIS- SION	223	You do not have permis- sion to cre- ate objects in this folder %1\$d in con- text %2\$d with user %3\$d	23

CON	CON- TACT	3	PERMIS- SION	228	You do not have permis- sion to read objects in folder %1\$d in context %2\$d with user %3\$d	28
CON	CON- TACT	3	PERMIS- SION	232		32
CON	CON- TACT	3	PERMIS- SION	242	You do not have permis- sion to delete ob- jects from folder %1\$d in context %2\$d with user %3\$d	42
CON	CON- TACT	3	PERMIS- SION	246	You do not have permis- sion to delete ob- jects from folder %1\$d in context %2\$d with user %3\$d	46
CON	CON- TACT	3	PERMIS- SION	258	You do not have permis- sion to delete ob- jects from folder %1\$d in context %2\$d with user %3\$d	58
CON	CON- TACT	3	PERMIS- SION	401	Insufficient write rights for this folder. Unable to attach document. Context %4\$d Folder %1\$d Object	

					%2\$d User %3\$d	
CON	CON- TACT	3	PERMIS- SION	402	Insufficient write rights for this folder. Unable to attach document. Context %4\$d Folder %1\$d Object %2\$d User %3\$d	
CON	CON- TACT	4	TRY_AGAIN	158	The image you tried to attach is not a valid picture. It may be broken or is not a valid file.	58
CON	CON- TACT	4	TRY_AGAIN	159	The image you tried to attach is not a valid picture. It may be broken or is not a valid file.	59
CON	CON- TACT	4	TRY_AGAIN	162	Mandatory field last name is not set.	62
CON	CON- TACT	4	TRY_AGAIN	163		63
CON	CON- TACT	4	TRY_AGAIN	166	Unable to compare contacts for update. Make sure you have entered a valid display name. Context %1\$d Object %2\$d	66
CON	CON- TACT	4	TRY_AGAIN	167	The name you entered is not available. Choose another display name.	67

					Context %1\$d Object %2\$d	
CON	CON- TACT	4	TRY_AGAIN	226	The object you request- ed can not be found. Try again. Context %1\$d Folder %2\$d User %3\$d Object %4\$d	26
CON	CONTACT	4	TRY_AGAIN	240	Edit Conflict. Your change cannot be completed because somebody else has made a conflicting change to the same item. Please refresh or synchronize and try again. Context %1\$d Folder %2\$d User %3\$d Object %4\$d	40
CON	CON- TACT	4	TRY_AGAIN	259	The contact you requested is not valid.	59
CON	CON- TACT	6	SOCK- ET_CON- NECTION	203	Unable to pick up a connection from the DBPool	3
CON	CON- TACT	6	SOCK- ET_CON- NECTION	207	Unable to pick up a connection from the DBPool	7
CON	CON- TACT	6	SOCK- ET_CON- NECTION	213	Unable to pick up a connection from the DBPool	13

CON	CON- TACT	6	SOCK- ET_CON- NECTION	219	Unable to pick up a connection from the DBPool	19
CON	CON- TACT	6	SOCK- ET_CON- NECTION	220	Unable to pick up a connection from the DBPool	20
CON	CON- TACT	6	SOCK- ET_CON- NECTION	229	Unable to pick up a connection from the DBPool	29
CON	CON- TACT	6	SOCK- ET_CON- NECTION	230	Unable to pick up a connection from the DBPool	30
CON	CON- TACT	6	SOCK- ET_CON- NECTION	236	Unable to pick up a connection from the DBPool	36
CON	CON- TACT	6	SOCK- ET_CON- NECTION	243	Unable to pick up a connection from the DBPool	43
CON	CON- TACT	6	SOCK- ET_CON- NECTION	245	Unable to pick up a connection from the DBPool	45
CON	CON- TACT	6	SOCK- ET_CON- NECTION	247	Unable to pick up a connection from the DBPool	47
CON	CON- TACT	8	CODE_ER- ROR	106	Unable to insert contacts! Context: %d	6
CON	CON- TACT	8	CODE_ER- ROR	107		7
CON	CON- TACT	8	CODE_ER- ROR	108	Unable to scale image down.	8
CON	CON- TACT	8	CODE_ER- ROR	109	Unable to insert Contact. Context: %d	9

_						
CON	CON- TACT	8	CODE_ER- ROR	116	Unable to synchronize the old con- tact with the new changes: Context %1\$d Object %2\$d	16
CON	CON- TACT	8	CODE_ER- ROR	120	Unable to update con- tact. Context %1\$d Object %2\$d	20
CON	CON- TACT	8	CODE_ER- ROR	121	An error oc- curred: Ob- ject id is -1	21
CON	CON- TACT	8	CODE_ER- ROR	123	Unable to scale image down.	23
CON	CON- TACT	8	CODE_ER- ROR	124	Unable to update con- tact. Context %1\$d Object %2\$d	24
CON	CON- TACT	8	CODE_ER- ROR	125	Contact not found! Context %1\$d	25
CON	CON- TACT	8	CODE_ER- ROR	126		26
CON	CON- TACT	8	CODE_ER- ROR	127	Unable to delete Con- tact: Context %1\$d Con- tact %2\$d	27
CON	CON- TACT	8	CODE_ER- ROR	128	Unable to load dristri- butionlist: Context %1\$d Con- tact %2\$d	28
CON	CON- TACT	8	CODE_ER- ROR	129	Unable to save dristri- butionlist: Context %1\$d Con- tact %2\$d	29
CON	CON- TACT	8	CODE_ER- ROR	130	Unable to update dristribution-list: Context	30

				%1\$d Con- tact %2\$d	
CON	CON- TACT	8	CODE_ER- 131 ROR	Unable to delete dristribution- list by id: Context %1\$d Con- tact %2\$d	31
CON	CON- TACT	8	CODE_ER- 132 ROR		32
CON	CON- TACT	8	CODE_ER- 133 ROR	Unable to save Linking between Contacts: Context %1\$d Con- tact %2\$d	33
CON	CON- TACT	8	CODE_ER- 134 ROR	Unable to delete link- ing between contacts: Context %1\$d Con- tact %2\$d	34
CON	CON- TACT	8	CODE_ER- 135 ROR	Unable to load contact image: Con- text %1\$d Contact %2\$d	35
CON	CON- TACT	8	CODE_ER- 137 ROR		37
CON	CON- TACT	8	CODE_ER- 139 ROR		39
CON	CON- TACT	8	CODE_ER- 140 ROR	Unable to perform contact folder check for readable content:	40

					%1\$d Folder %2\$d	
CON	CON- TACT	8	CODE_ER- 1 ROR		Critical Error occurred. This folder contains a contact with no id. Con- text %1\$d Folder %2\$d	44
CON	CON- TACT	8	CODE_ER- 1 ROR	45	Unable to delete con- tacts from this folder. Context %1\$d Folder %2\$d	45
CON	CON- TACT	8	CODE_ER- 1 ROR		Unable to trigger ob- ject Events: Context %1\$d Folder %2\$d	46
CON	CON- TACT	8	CODE_ER- 1 ROR		Unable to delete dristribution- list by id: Context %1\$d Con- tact %2\$d	48
CON	CON- TACT	8	CODE_ER- 1 ROR	49	Unable to pick up a connection from the DBPool	49
CON	CON- TACT	8	CODE_ER- 1 ROR		Unable to pick up a connection from the DBPool	50
CON	CON- TACT	8	CODE_ER- 1 ROR	51	Unable to pick up a connection from the DBPool	51
CON	CON- TACT	8	CODE_ER- 1 ROR	53	Unable to pick up a connection from the DBPool	53
CON	CON- TACT	8	CODE_ER- 1 ROR	55	Unable to pick up a connection	55

					from the DBPool	
CON	CON- TACT	8	CODE_ER- ROR	160	This contact has no fold- er id: Entry %1\$d Con- text %2\$d	60
CON	CON- TACT	8	CODE_ER- ROR	161	This Contact has no FolderID: En- try %1\$d Context %2\$d	61
CON	CON- TACT	8	CODE_ER- ROR	200		0
CON	CON- TACT	8	CODE_ER- ROR	201	Unable to initialize Event queue	1
CON	CON- TACT	8	CODE_ER- ROR	206	•	6
CON	CON- TACT	8	CODE_ER- ROR	208	You are not allowed to store this contact in a non-contact folder: folder id %1\$d in context %2\$d with user %3\$d	8
CON	CON- TACT	8	CODE_ER- ROR	211	An error occurred during the load of folder objects. Context %1\$d Folder %2\$d User %3\$d	11
CON	CON- TACT	8	CODE_ER- ROR	212	An error oc- curred dur- ing the load of folder ob- jects. Con- text %1\$d Folder %2\$d User %3\$d	12

	CON- TACT	8	ROR	4 You are not allowed to store this contact in a non-contact folder: folder id %1\$d in context %2\$d with user %3\$d	
CON	CON- TACT	8	CODE_ER- 21'ROR	7 An error occurred during the load of folder objects by an extended search. Context %1\$d Folder %2\$d User %3\$d	17
CON	CON- TACT	8	CODE_ER- 21: ROR	An error oc- curred dur- ing the load of folder ob- jects by an extended search. Con- text %1\$d Folder %2\$d User %3\$d	18
CON	CON- TACT	8	CODE_ER- 22 ROR	1 You are not allowed to store this contact in a non-contact folder: folder id %1\$d in context %2\$d with user %3\$d	21
CON	CON- TACT	8	CODE_ER- 22- ROR		24
CON	CON- TACT	8	CODE_ER- 22 ROR		25

		jects by a simple search. Con- text %1\$d Folder %2\$d User %3\$d	
CON CON- TACT	CODE_ER- 2 ROR	You are not allowed to store this contact in a non-contact folder: folder id %1\$d in context %2\$d with user %3\$d	
CON CON- TACT	CODE_ER- 2 ROR		
CON CON- TACT	CODE_ER- 2 ROR	You do not have permission to create objects in this folder %1\$d in context %2\$d with user %3\$d	
CON CONTACT	CODE_ER- 2 ROR	A3\$0  234 An error occurred during the load of modified objects from a folder.  Context  %1\$d Folder  %2\$d User  %3\$d	
CON CONTACT	CODE_ER- 2 ROR		

					%2\$d User %3\$d	
CON CO	ON- ACT	8	CODE_ER- 2 ROR		An error occurred during the load of deleted objects from a folder. Context %1\$d Folder %2\$d User %3\$d	37
CON CO	ON- ACT	8	CODE_ER- 2 ROR	238	An error oc- curred dur- ing the load of deleted objects from a folder. Context %1\$d Folder %2\$d User %3\$d	38
CON CO	ON- ACT	8	CODE_ER- 2 ROR	239		39
CON CO	ON- ACT	8	CODE_ER- 2 ROR	241	You are not allowed to store this contact in a non-contact folder: folder id %1\$d in context %2\$d with user %3\$d	41
CON CO	ON- ACT	8	CODE_ER- 2 ROR	244		44
CON CO	ON- ACT	8	CODE_ER- 2 ROR	248	•	48

CON	CON- TACT	8	CODE_ER- ROR	249	Unable to load objects. Context %1\$d User %2\$d	49
CON	CON- TACT	8	CODE_ER- ROR	250	Unable to load objects. Context %1\$d User %2\$d	50
CON	CON- TACT	8	CODE_ER- ROR	251	Unable to load objects. Context %1\$d User %2\$d	51
CON	CON- TACT	8	CODE_ER- ROR	256	Unable to initialize Event queue	56
CON	CON- TACT	8	CODE_ER- ROR	500	Need at least a Con- tactObject and a value to set %s	
CON	CON- TACT	8	CODE_ER- ROR	600	Could not convert given string %s to a date.	
CON	CON- TACT	8	CODE_ER- ROR	600	Could not convert giv- en object %s to a date when setting %s.	
CON	CON- TACT	8	CODE_ER- ROR	800	Need at least a Con- tactObject to get the value of %s	
CON	CON- TACT	8	CODE_ER- ROR	910	Unable to pick up a connection from the DBPool	10
CON	CON- TACT	8	CODE_ER- ROR	913	Unable to load this LDAP addressbook: %1\$s	13
CON	CON- TACT	10	SETUP_ER- ROR	900	Unablel to load this LDAP addressbook. Check the configura-	0

CON	CON-	10	SETUP ER- 901	tion for this LDAP server: Folder %1\$d Context %2\$d Unablel to	1
CON	TACT		ROR	read this Object from this LDAP address- book. Check the configu- ration for this LDAP server: Ob- ject %1\$d Folder %2\$d Context %3\$d	
CON	CON- TACT	10	SETUP_ER- 902 ROR		2
CON	CON- TACT	10	SETUP_ER- 903 ROR	This action is not supported in this LDAP address-book: Folder %1\$d Context %2\$d	3
CON	CON- TACT	10	SETUP_ER- 904 ROR	This action is not supported in this LDAP address-book: Folder %1\$d Context %2\$d	4
CON	CON- TACT	10	SETUP_ER- 905 ROR	Unablel to load this LDAP addressbook. Check the configuration for this LDAP server:	5

					Folder %1\$d Context %2\$d	
CON CO	ON- ACT	10	SETUP_ER- ROR	906	Unablel to load this LDAP ad- dressbook. Check the configura- tion for this LDAP server: Folder %1\$d Context %2\$d	6
CON CO	ON- ACT	10	ROR		This action is not sup- ported in this LDAP address- book: Folder %1\$d Con- text %2\$d	
CON CO	ON- ACT	10	SETUP_ER- ROR	908	You are not allowed to see this ad- dressbook! Folder %1\$d Context %1\$d	8
CON CO	ON- ACT	10	SETUP_ER- ROR	909	You are not allowed to see this ad- dressbook! Folder %1\$d Context %1\$d	9
CON CO	ON- ACT	10	SETUP_ER- ROR	911	You are not allowed to see this ad- dressbook! Folder %1\$d Context %1\$d	11
CON CO	ON- ACT	10	SETUP_ER- ROR	912	You are not allowed to see this ad- dressbook! Folder %1\$d Context %1\$d	12
CON CO	ON- ACT	10	SETUP_ER- ROR	914	This action is not sup- ported in this LDAP	14

					address- book: Folder %1\$d Con- text %2\$d		
CON	CON- TACT	10	SETUP_ER- ROR	915	This action is not sup- ported in this LDAP address- book: Folder %1\$d Con- text %2\$d	15	
CON	CON- TACT	10	SETUP_ER- ROR	916	This action is not supported in this LDAP address-book: Folder %1\$d Context %2\$d	16	
CON	CON- TACT	12	TRUNCAT- ED	154	Import failed. Some data entered exceed the database field limit. Please short- en following entries: %1\$s Character Limit: %2\$s Sent %3\$s	54	
СТХ	CON- TEXT	1	USER_IN- PUT	10		TODO	com.openex- change.groupware.con- texts.impl.ContextExcep- tion
СТХ	CON- TEXT	4	TRY_AGAIN	7	Updating database Try again later.	TODO	com.openex- change.groupware.con- texts.impl.ContextExcep- tion
СТХ	CON- TEXT	5	SUBSYS- TEM_OR_SER- VICE_DOWN	5	Cannot get connection to database.	TODO	com.openex- change.groupware.con- texts.impl.ContextExcep- tion
СТХ	CON- TEXT	7	INTER- NAL_ER- ROR	3	Cannot put object %s into cache.	TODO	com.openex- change.groupware.con- texts.impl.ContextExcep- tion
СТХ	CON- TEXT	7	INTER- NAL_ER- ROR	9	Cannot remove object %s from cache.	TODO	com.openex- change.groupware.con- texts.impl.ContextExcep- tion
СТХ	CON- TEXT	8	CODE_ER- ROR	6	SQL prob- lem: %1\$s.	TODO	com.openex- change.groupware.con-

							texts.impl.ContextException
CTX	CON- TEXT	10	SETUP_ER- ROR	1	Cannot resolve mailadmin for context %d.	TODO	com.openex- change.groupware.con- texts.impl.ContextExcep tion
CTX	CON- TEXT	10	SETUP_ER- ROR	2	Cannot find context %d.	TODO	com.openex- change.groupware.con- texts.impl.ContextExcep tion
CTX	CON- TEXT	10	SETUP_ER- ROR	8	Problem initializing the cache.	TODO	com.openex- change.groupware.con- texts.impl.ContextExcep tion
DBP	DB_POOL- ING	5	SUBSYS- TEM_OR_SER- VICE_DOWN	1	Cannot get connection to config DB.	TODO	com.openexchange.serv er.impl.DBPoolingExcep tion
DBP	DB_POOL- ING	5	SUBSYS- TEM_OR_SER- VICE_DOWN	3	Cannot get connection to database %d.	TODO	com.openexchange.serv er.impl.DBPoolingExcep tion
DBP	DB_POOL- ING	5	SUBSYS- TEM_OR_SER- VICE_DOWN	12	Connection used for %1\$d milliseconds.	TODO	com.openexchange.server.impl.DBPoolingException
DBP	DB_POOL- ING	6	SOCK- ET_CON- NECTION	4	Cannot set schema in database connection.	TODO	com.openexchange.serv er.impl.DBPoolingExcep tion
DBP	DB_POOL- ING	8	CODE_ER- ROR	2	Resolving database for context %1\$d and server %2\$d not possible!	TODO	com.openexchange.serv er.impl.DBPoolingExcep tion
DBP	DB_POOL- ING	8	CODE_ER- ROR	5	Null is returned to connection pool.	TODO	com.openexchange.serv er.impl.DBPoolingExcep tion
DBP	DB_POOL- ING	8	CODE_ER- ROR	6	Problem with executing SQL: %s	TODO	com.openexchange.serv er.impl.DBPoolingExcep tion
DBP	DB_POOL- ING	8	CODE_ER- ROR	7	Cannot get information for pool %d.	TODO	com.openexchange.serv er.impl.DBPoolingExcep tion
DBP	DB_POOL- ING	8	CODE_ER- ROR	9	Cannot re- turn connec- tion to pool	TODO	com.openexchange.serv er.impl.DBPoolingExcep tion

DBP	DB_POOL- ING	8	CODE_ER- ROR	11	%s is not ini- tialized.	TODO	com.openexchange.serv- er.impl.DBPoolingExcep- tion
DBP	DB_POOL- ING	8	CODE_ER- ROR	13	%1\$d state- ments aren't closed.	TODO	com.openexchange.serv- er.impl.DBPoolingExcep- tion
DBP	DB_POOL- ING	8	CODE_ER- ROR	14	Connection not reset to auto commit.	TODO	com.openexchange.serv- er.impl.DBPoolingExcep- tion
DBP	DB_POOL- ING	10	SETUP_ER- ROR	8	Driver class missing.	TODO	com.openexchange.serv- er.impl.DBPoolingExcep- tion
DBP	DB_POOL- ING	10	SETUP_ER- ROR	10	Server name is not defined.	TODO	com.openexchange.serv- er.impl.DBPoolingExcep- tion
DEL	DHETE EVENT	8	CODE_ER- ROR	1	Unknown delete event type: %1\$d	TODO	com.openex- change.group- ware.delete.Delete- FailedException
DEL	DELEE EVENT	8	CODE_ER- ROR	2	A SQL error occurred: %1\$s	TODO	com.openex- change.group- ware.delete.Delete- FailedException
DEL	DELETE EVENT	8	CODE_ER- ROR	3	An error oc- curred: %1\$s	TODO	com.openex- change.group- ware.delete.Delete- FailedException
DOW	DOWN- GRADE_EVENT	8	CODE_ER- ROR	1	A SQL error occurred: %1\$s	TODO	com.openex- change.groupware.down- grade.Downgrade- FailedException
DOW	DOWN- GRADE_EVENT	8	CODE_ER- ROR		An error oc- curred: %1\$s		change.groupware.down- grade.Downgrade- FailedException
FLS	FILE- STORE	1	USER_IN- PUT	3	The file can- not be added to filestore. File size: %s Quo- ta: %s Used: %s	TODO	com.openex- change.tools.file.QuotaFileStor- ageException
FLS	FILE- STORE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	3	An IO error occurred: %s	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	4	Couldn't reach the filestore: %s	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	13	Cannot re- move lock file.	TODO	com.openex- change.tools.file.FileStor- ageException

FLS	FILE- STORE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	14	Cannot create lock file.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	15	Cannot create file %1\$s.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	16	Eliminating the FileStor- age failed.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	305	Can't access DBPool	No De- scrip- tion	
FLS	FILE- STORE	7	INTER- NAL_ER- ROR	4	A file storage error occurred on the server. Please try again later. Additional information: file storage id: %1\$s, context id: %2\$s, message from the low-level file storage class: %3\$s	TODO	com.openex- change.tools.file.QuotaFileStor- ageException
FLS	FILE- STORE	8	CODE_ER- ROR	1	Invalid constructor parameter at %1\$d with type %2\$s.	TODO	com.openex- change.tools.file.QuotaFileStor- ageException
FLS	FILE- STORE	8	CODE_ER- ROR	2	An invalid SQL query was sent to the server.	TODO	com.openex- change.tools.file.QuotaFileStor- ageException
FLS	FILE- STORE	8	CODE_ER- ROR	5	Invalid constructor parameter at %1\$d with type %2\$s.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	8	CODE_ER- ROR	7	'Depth' must be >= 1 but is %1\$d.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	8	CODE_ER- ROR	8	'Entries' must be >= 1 but is %1\$d.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	8	CODE_ER- ROR	9	Unsupport- ed encod- ing.	TODO	com.openex- change.tools.file.FileStor- ageException

FLS	FILE- STORE	8	CODE_ER- ROR	10	Number parsing problem.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	8	CODE_ER- ROR	12	•	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	8	CODE_ER- ROR	201	Wrong file- store %1\$d for context %2\$d need- ing filestore %3\$d.		
FLS	FILE- STORE	8	CODE_ER- ROR	306	Got SQL Ex- ception	scrip- tion	
FLS	FILE- STORE	10	SETUP_ER- ROR	1	Cannot find property %s.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	10	SETUP_ER- ROR		Class %s can not be loaded.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	10	SETUP_ER- ROR	6	Cannot create directory %1\$s for FileStorage.	TODO	com.openex- change.tools.file.FileStor- ageException
FLS	FILE- STORE	10	SETUP_ER- ROR	202	Problem with URI when creating context specific filestore location.		
FLS	FILE- STORE	10	SETUP_ER- ROR	303	Cannot find filestore with id %1\$d.		
FLS	FILE- STORE	10	SETUP_ER- ROR	304	Cannot create URI from %1\$s.		
FLS	FILE- STORE	11	EXTER- NAL_RE- SOURCE_FULL	11	File storage is full.	TODO	com.openex- change.tools.file.FileStor- ageException
FLD	FOLDER	1	USER_IN- PUT	58	Bad value %1\$s in pa- rameter %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	1	USER_IN- PUT	71	Owner %1\$s of default folder %2\$s must keep the folder admin per- mission	TODO	com.openex- change.tools.oxfolder.OX- FolderException

FLD	FOLDER	1	USER_IN- PUT	76	Folder contains invalid data: %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	1	USER_IN- PUT	77			
Please en- ter an- oth- er name to share the fold- er.	TODO	compened dangtodox fold- er.OX- FolderEx- ception					
FLD	FOLDER	1	USER_IN- PUT	78	Folder mod- ule cannot be updated since folder is not empty	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	2	US- ER_CONFI- GURA- TION	2	User %1\$s has no ac- cess to mod- ule %2\$s in context %3\$s due to user configu- ration	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	2	US- ER_CONFI- GURA- TION	4	User %1\$s has no ac- cess on shared fold- er %2\$s in context %3\$s due to user configu- ration	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	2	US- ER_CONFI- GURA- TION	5	User %1\$s has no write access on public folder %2\$s in con- text %3\$s due to user configura- tion	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	2	US- ER_CONFI- GURA- TION	72	User %1\$s is not allowed to share folder %2\$s in context %3\$s due to	TODO	com.openex- change.tools.oxfolder.OX- FolderException

FLD	FOLDER	2	US- ER_CONFI- GURA-	73	user configuration Defined permissions for folder %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
			TION		in context %2\$s are not applicable to user %3\$s due to user configura- tion		rolderException
FLD	FOLDER	3	PERMIS- SION	3	Folder %1\$s not visible to user %2\$s in context %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	6	User %1\$s has no cre- ate-subfold- er permis- sion on fold- er %2\$s in context %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	10	User %1\$s has no ad- min access to folder %2\$s in con- text %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	11	Default folder %1\$s cannot be renamed in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	12	A duplicate folder exists in parent folder %1\$s in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	21	Not allowed to move de- fault folder %1\$s in con- text %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	22	Target fold- er %1\$s con- tains a dupli- cate folder in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException

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	FOLDER		PERMIS- SION	23	Shared fold- er %1\$s can- not be moved in context %2\$s		change.tools.oxfolder.OX-FolderException
FLD	FOLDER	3	PERMIS- SION	24	Shared folder %1\$s cannot be target of move operation in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	25	System folder %1\$s cannot be moved in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	26	Private fold- er %1\$s can only be moved to a private fold- er in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	27	Public folder %1\$s can on- ly be moved to a public folder in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	28	Target and source fold- er cannot be equal in context %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	29	User %1\$s is not allowed to move all subfolders of folder %2\$s in con- text %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	30		TODO	com.openex- change.tools.oxfolder.OX- FolderException

	FOLDER		PERMIS- SION	31	not allowed to delete de- fault folder %2\$s in con- text %3\$s		com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	32	User %1\$s is not allowed to delete all contained objects in folder %2\$s in context %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	49	A source folder of module %1\$s must not be moved to a target folder of module %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	54	User %1\$s has no write permission on folder %2\$s in con- text %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	63	Shared folder %1\$s MUST NOT be updated in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	69		TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	70	User %1\$s grants invalid permissions on shared folder %2\$s in context %3\$s. Only owner of parental shared folder %4\$s may	TODO	com.openex- change.tools.oxfolder.OX- FolderException

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FLD	FOLDER	3	PERMIS- SION	74	be folder admin Folder %1\$s in context %2\$s contains a hidden subfolder. User %3\$s has no delete rights for this subfolder and consequently cannot delete its parent folder.	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	3	PERMIS- SION	75	An infostore folder named %1\$s already exists below folder %2\$s (%3\$s) in context %4\$s. Please choose another display name.	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	7	INTER- NAL_ER- ROR	36		TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	7	INTER- NAL_ER- ROR	67	A runtime error oc- curred in context %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	7	Missing field %1\$s in fold- er %2\$s in context %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	8	Folder %1\$s does not ex- ist in con- text %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	13	Parent fold- er %1\$s does not al- low folder's type setting	TODO	com.openex- change.tools.oxfolder.OX- FolderException

					%2\$s in con- text %3\$s		
FLD	FOLDER	8	CODE_ER- ROR	14	Parent folder %1\$s does not allow folder's module setting (%2\$s) in context %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	15	Only one admin permission is allowed on a private folder	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	16	A group must not hold admin permission on a private folder	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	17	Only folder owner may hold admin permission on a private folder	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	18	Administration rights required. In the Rights tab add at least one user with administration rights.	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	19	Invalid ob- ject ID %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	20	Not allowed to change parent id of folder %1\$s through an update call. Use move method in- stead	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	33	No admin user found in context %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException

FLD	FOLDER	8	CODE_ER- 3 ROR		No default folder could be found in module %1\$s for us- er %2\$s in context %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- 3 ROR		Folder %1\$s could not be loaded in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- 3 ROR		Effective permission of folder %1\$s could not be determined for user %2\$s in context %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- 3 ROR		An SQL er- ror occurred in context %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- 3 ROR		An SQL er- ror occurred in context %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- 4 ROR	11	Delivered sequence id %1\$s from database is less than al- lowed min. folder id of %2\$s in con- text %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- 4 ROR		Module %1\$s is un- known in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- 4 ROR	13		TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- 4 ROR		Invalid enti- ty id %1\$s detected in permissions of folder	TODO	com.openex- change.tools.oxfolder.OX- FolderException

FLD	FOLDER	8	CODE_ER- ROR	45	%2\$s in context %3\$s Folder %1\$s must not be moved to one of its subfolders in context	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	46	%2\$s UNKNOWN EXCEPTION	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	47	A LDAP er- ror occurred in context %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	48	Attribute %1\$s is not set in FolderOb- ject instance %2\$s in con- text %3\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	50	Operation not exe- cutable on folder %1\$s in context %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	51	=	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	52		TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	53	· ·	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	55	A JSON er- ror oc- curred: %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException

FLD	FOLDER	8	CODE_ER- ROR	56	Unknown parameter container type: %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	57	Missing pa- rameter %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	59	Unknown field: %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	60	Parameter %1\$s does not match JSON key %2\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	61	Invalid permission values: fp=%1\$s orp=%2\$s owp=%3\$s odp=%4\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	62	Unknown action: %1\$s	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	65	Unable to map OCL permission value %1\$s to a JSON permission value	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	66	Folder exis- tence can- not be checked due to unsuffi- cient folder information)	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	8	CODE_ER- ROR	68	This method is not appli- cable to an IMAP permis- sion	TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	9	Concur- rent_mod- ification	9		TODO	com.openex- change.tools.oxfolder.OX- FolderException
FLD	FOLDER	12	TRUNCAT- ED	64	The at- tribute %1\$s contains too much charac-	TODO	com.openex- change.tools.oxfolder.OX- FolderException

					ters. Current length %3\$d is more than allowed length of %2\$d charac- ters.		
GRP	GROUP	1	USER_IN- PUT	4	The mandatory field %1\$s is not defined.	TODO	com.openex- change.group.GroupEx- ception
GRP	GROUP	1	USER_IN- PUT	5	The simple name contains this not allowed characters: %1\$s.	TODO	com.openex- change.group.GroupEx- ception
GRP	GROUP	1	USER_IN- PUT	6	Another group with same identifier name exists: %1\$d.	TODO	com.openex- change.group.GroupEx- ception
GRP	GROUP	1	USER_IN- PUT	7	Group contains a not existing member %1\$d.	TODO	com.openex- change.group.GroupEx ception
GRP	GROUP	1	USER_IN- PUT	8	Group contains invalid data: %1\$s.	TODO	com.openex- change.group.GroupEx ception
GRP	GROUP	1	USER_IN- PUT	13	Group %1\$s can not be deleted.	TODO	com.openex- change.group.GroupEx ception
GRP	GROUP	1	USER_IN- PUT	14	Group %1\$s can not be changed.	TODO	com.openex- change.group.GroupEx ception
GRP	GROUP	3	PERMIS- SION	9	-	TODO	com.openex- change.group.GroupEx ception
GRP	GROUP	3	PERMIS- SION	11	You are not allowed to change groups.	TODO	com.openex- change.group.GroupEx ception
GRP	GROUP	3	PERMIS- SION	12		TODO	com.openex- change.group.GroupEx ception
GRP	GROUP	5	TBM_OR_SER- VICE_DOWN	1	Cannot get database connection.	TODO	com.openex- change.group.GroupEx ception
GRP	GROUP	8	CODE_ER- ROR	2	SQL Prob- lem: %1\$s	TODO	com.openex- change.group.GroupEx ception

GRP	GROUP	8	CODE_ER- ROR	3	No group given.	TODO	com.openex- change.group.GroupEx- ception
GRP	GROUP	9	CONCUR- RENT_MOD- IFICATION	10	Edit Conflict. Your change cannot be completed because somebody else has made a conflicting change to the same item. Please refresh or synchronize and try again.	TODO	com.openex- change.group.GroupEx- ception
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	202	User input error %s		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	302	User input error %s		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	502	User input error %s		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	503	Problem while reading ICal file: %s.		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	505	Broken file uploaded: %s		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	506	Cowardly refusing to import an entry flagged as confidential.		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	509	The element %s is not supported.		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	510	Couldn't convert ob- ject: %s		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	511	No ICal to import found.		
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	513	Failed im- porting ap- pointment due to hard		

					conflicting resource.
ΙE	IM-	1	USER IN-	602	
	PORT_EX- PORT	•	PUT	002	error %s
I_E	IM-	1	USER_IN-	605	Could not
_	PORT_EX-		PUT		recognize
	PORT				format of
					the follow-
		_			ing data: %s
I_E		1		608	No VCard to
	PORT_EX- PORT		PUT		import found.
ΙE		1	USER IN-	800	Can only im-
'	PORT EX-	•	PUT	000	port into
	PORT				one folder
					at a time.
I_E		1	USER_IN-	804	
	PORT_EX-		PUT		translate a
	PORT				single col-
					umn title. Is this a valid
					CSV file?
ΙE	IM-	1	USER IN-	805	Could not
·	PORT EX-	•	PUT	005	translate a
	PORT				single field
					of informa-
					tion, did not
					insert entry %s.
ΙE	IM-	1	LICED IN	1000	Broken CSV
'_L	PORT EX-	ı	PUT	1000	file: Lines
	PORT		101		have differ-
					ent number
					of cells, line
					#1 has %d,
					line #%d has
					%d. Is this really a CSV
					file?
ΙE	IM-	1	USER IN-	1200	
	PORT_EX-		PUT		translate
	PORT				id=%d to a
					constant
					from Types.
I_E		1	USER_IN-	1201	
	PORT_EX- PORT		PUT		translate id=%d to a
	IONI				constant
					from Folder-
					Object.
I_E	IM-	1	USER_IN-	1300	Can only
	PORT_EX-		PUT		handle one
	PORT				file, not %s

I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	1301	Unknown format: %s
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	1302	Uploaded file is of type %s, can-not handle that
I_E	IM- PORT_EX- PORT	1	USER_IN- PUT	1303	Empty file uploaded.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	100	Could not export the folder %s in the format %s.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	200	Could not import into the folder %s.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	300	Could not import into the folder %s.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	500	Could not import into the folder %s.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	507	Module Calendar not enabled for user, cannot import appointments.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	508	Module Tasks not enabled for user, cannot import tasks.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	600	Could not import into the folder %s.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	607	Module Contacts is not enabled for this user, cannot store contacts contained in VCard.
I_E	IM- PORT_EX- PORT	3	PERMIS- SION	806	Module Contacts not enabled for

					user, cannot import contacts
I_E	IM- PORT EX-	5	SUBSYS- TEM OR SER-	101	Could not load folder
	PORT		VICE_DOWN		%s
I_E	IM- PORT_EX-	5	${\tt TBM\_OR\_SER-}$	102	Could not load con-
	PORT	_	MCE_DOWN	201	tacts
I_E	IM- PORT_EX- PORT	5	SUBSYS- TEM_OR_SER- VICE DOWN	201	Could not import into folder %s
I_E	IM-	5	_	301	Could not
_	PORT_EX- PORT		TBM_OR_SER- VICE_DOWN		import into folder %s
I_E	IM- PORT_EX- PORT	5	SUBSYS- TEM_OR_SER- VICE DOWN	501	Subsystem down
I_E	IM- PORT_EX- PORT	5	SUBSYS- TEM_OR_SER- VICE_DOWN	601	Subsystem down
I_E	IM- PORT_EX-	5	SUBSYS- TBM_OR_SER-	900	Could not load folder
ΙE	PORT IM-	5	VICE_DOWN SUBSYS-	1100	%s Cannot find
1_6	PORT_EX- PORT	3	TEM_OR_SER- VICE_DOWN	1100	an importer for format %s into fold- ers %s
I_E	IM- PORT_EX- PORT	5	SUBSYS- TEM_OR_SER- VICE_DOWN	1101	Cannot find an exporter for folder %s to format %s
I_E	IM- PORT_EX- PORT	7	INTER- NAL_ER- ROR	104	
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	103	Could not create fold-er id from string %s
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	203	Could not import into folder %s
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	204	
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	303	
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	504	

ΙE	IM-	8	CODE ER-	603	Program-	
'	PORT_EX- PORT	Ü	ROR	003	ming error - folder %s	
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	604	Could not load folder %s	
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	606	Could not use UTF-8 encoding.	
I_E	IM- Port_ex- Port	8	CODE_ER- ROR	801	Cannot import this kind of data. Use method canImport() first.	
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	802	Cannot read given Input- Stream.	
I_E	IM- Port_ex- Port	8	CODE_ER- ROR	901	Could not create fold- er id from string %s	
I_E	IM- Port_ex- Port	8	CODE_ER- ROR	902	Could not read Input- Stream as string	
I_E	IM- Port_ex- Port	8	CODE_ER- ROR	903	Missing ability to encode or decode UTF-8 on server, cannot read file.	
I_E	IM- PORT_EX- PORT	8	CODE_ER- ROR	1001	Illegal state: Found data after pre- sumed last line.	
I_E	IM- PORT_EX- PORT	10	SETUP_ER- ROR	205	Could not find ICalEmitter service. Has the service been exported?	No De- scrip- tion
I_E	IM- PORT_EX- PORT	10	SETUP_ER- ROR	512		
I_E	IM- Port_ex- Port	12	TRUNCAT- ED	1500	The follow- ing field(s) are too long	

I_E	IM-	12	TRUNCAT-	1600	to be import- ed: %s The follow-	
	PORT_EX- PORT		ED		ing field(s) are too long to be import- ed: %s	
I_E	IM- PORT_EX- PORT	13	WARNING	514		
I_E	IM- Port_ex- Port	13	WARNING	803	Could not find the fol- lowing fields %s	
IFO	INFOS- TORE	1	USER_IN- PUT	0	Validation failed: %s	
IFO	INFOS- TORE	1	USER_IN- PUT	300	The requested item does not exist.	foitem
IFO	INFOS- TORE	1	USER_IN- PUT	301	Could not load documents to check the permissions	To check per-mis-sions in-foitems must be load-ed to find their folderld and cre-ator.
IFO	INFOS- TORE	1	USER_IN- PUT	400	You do not have suffi- cient read permissions.	The User does

IFO	INFOS- TORE	1	USER_IN- PUT	401	You do not have suffi- cient read permissions.	sions on the re- quest- ed In- foitem. The User does not have read per- mis- sions on the re- quest- ed In- foitem.
IFO	INFOS- TORE	1	USER_IN- PUT	402	You do not have suffi- cient permis- sions to cre- ate objects in this fold- er.	-
IFO	INFOS- TORE	1	USER_IN- PUT	403	You are not allowed to update this item.	The user doesn't have the required write permissions to update the infoitem.
IFO	INFOS- TORE	1	USER_IN- PUT	404	You are not allowed to create objects in the target folder.	The user isn't al-lowed to create objects in the target

		-				
IFO	INFOS-	1	USER IN-	406	You do not	folder when mov- ing an in- foitem. The
	TORE		PUT		have sufficient permission to delete this version.	user
IFO	INFOS- TORE	1	USER_IN- PUT	407	You do not have suffi- cient permis- sions to read objects in this fold- er.	The user may not
IFO	INFOS- TORE	1	USER_IN- PUT	408	You do not have suffi- cient permis- sions to read objects in this fold- er.	The user may not
IFO	INFOS- TORE	1	USER_IN- PUT	409	You do not have suffi- cient permis- sions to read objects in this fold- er.	The user may not
IFO	INFOS- TORE	1	USER_IN- PUT	410	You do not have sufficient permis-	The user

					sions to read objects in this fold- er.	not read ob- jects in the given folder.
IFO	INFOS- TORE	1	USER_IN- PUT	411	You do not have suffi- cient permis- sions to read objects in this fold- er.	not read
IFO	INFOS- TORE	1	USER_IN- PUT	417	You need write permissions to unlock a document.	The user does
IFO	INFOS- TORE	1	USER_IN- PUT	418	You need write permissions to lock a document.	The user does
IFO	INFOS- TORE	1	USER_IN- PUT	421	You are not allowed to delete objects in the source folder, so this document	Need delete per- mis- sions in origi-

					cannot be mo Tved.	nal folder to move an item
IFO	INFOS- TORE	1	USER_IN- PUT	438	The document you requested doesn't exist.	The docu- ment could not be load- ed be- cause it doesn't exist.
IFO	INFOS- TORE	1	USER_IN- PUT	441	Files attached to InfoStore items must have unique names. Filename: %s. The other document with this file name is %s.	To remain consistent in Web- DAV no two cur-

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file to
                                                        a ver-
                                                       sion
                                                       with a
                                                        differ-
                                                        ent
                                                       file-
                                                        name.
IFO INFOS- 1
                         USER_IN- 1700 This folder is The
     TORE
                         PUT
                                          a virtual
                                                       fold-
                                          folder. It
                                                        ers to
                                          cannot con- which
                                          tain docu-
                                                       this us-
                                          ments.
                                                        er has
                                                        ac-
                                                       cess,
                                                       but
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                                                       be-
                                                       long
                                                       to oth-
                                                        er
                                                       users,
                                                        are
                                                        collect-
                                                        ed in
                                                       a virtu-
                                                       al fold-
                                                        er.
                                                       This
                                                       virtual
                                                       folder
                                                        can-
                                                       not
                                                        con-
                                                       tain
                                                        docu-
                                                        ments
                                                       itself.
IFO INFOS- 4
                         TRY_AGAIN 219 Cannot pre- Thrown
                                          fetch results. when
     TORE
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                                                       not be
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IFO INFOS- 4
                        TRY_AGAIN 221 Cannot pre- Thrown
     TORE
                                        fetch results. when
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IFO INFOS- 4
                        TRY_AGAIN 223 Cannot pre- Thrown
     TORE
                                        fetch results. when
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IFO INFOS- 4
                        TRY_AGAIN 225 Cannot pre- Thrown
     TORE
                                        fetch results. when
                                                      a re-
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IFO INFOS- 4
                        TRY_AGAIN 601 Cannot pre- Thrown
     TORE
                                        fetch results. when
                                                      a re-
                                                     sult
                                                     can-
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						DB
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						tion.
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						at the
						under-
						lying
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IFO	INFOS-	4	TRY_AGAIN	1900	Could not	Could
	TORE				fetch result	not
					from result	
					set. Probably	
					the database	I
					may be busy or not run-	result set.
					ning. Please	
					try again.	bly
						the
						database
						may
						be
						busy
						or not
						run- ning.
						Please
						try
						again.
IFO	INFOS-	4	TRY_AGAIN	1903	Could not	Could
	TORE		_		fetch result	not
					from result	fetch
					set. Probably	
					the database	
					may be busy or not run-	set.
					ning. Please	Proba-
					try again.	bly
					,	the
						database
						may
						be
						busy .
						or not
						run-
						again.
						ning. Please try
						again.

IFO	INFOS- TORE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	203	Could not access file store.	This indicates a problem accessing the underlying filestorage. Look at the exceptions given as cause for this
IFO	INFOS- TORE	5	SUBSYS- TBM_OR_SER- VICE_DOWN		remove file. %s	curred while removing the file from the file stor- age.
IFO	INFOS- TORE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	419	The file store could not be reached.	The file store couldn't be reached.
IFO	INFOS- TORE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	435	Cannot reach the file store so I cannot remove the documents.	Cannot reach the file store so some documents were not

IFO	INFOS- TORE		SUBSYS- TIEM_OR_SER- VICE_DOWN		move file. Database and file store are probably in- consistent. Please con- tact an ad- ministrator to run the recovery tool.	so some docu- ments were not delet- ed. This propably means that file store and db are incon- sis- tent. Run the re- covery tool.
IFO	INFOS- TORE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	437	Could not remove file from file store.	Could not re- move file from file store.
IFO	INFOS- TORE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	439	The file store could not be reched	The file store couldn't be reached and is probably down.
IFO	INFOS- TORE	5	SUBSYS- Tem_or_ser- Vice_down	440	The file could not be retrieved.	The file could not be found in the

						file store. This means either that the
						file store was not avail- able or that
						database and file store are in- consis- tent. Run
IFO	INFOS- TORE	7	INTER- NAL_ER- ROR	230	Cannot find file store location.	the re- covery tool. A Con-
						curred while trying to open the filestor- age. Look at the Con- text Excep- tion for fur- ther details
IFO	INFOS- TORE	7	INTER- NAL_ER- ROR	232	Could not remove file. %s	An er-

IFO	INFOS- TORE	7	INTER- NAL_ER- ROR	233	Could not remove file. %s	curred while remov- ing the
IFO	INFOS- TORE	7	INTER- NAL_ER- ROR	413	Could not it- erate result	sys- tem couldn't iterate the re- sult dataset.
IFO	INFOS- TORE	7	INTER- NAL_ER- ROR	414	Could not it- erate result	sys- tem couldn't
						iterate the re- sult dataset. This can have numer- ous excit- ing

IFO	INFOS-	7	INTER-	420	Could not	caus- es. The
"	TORE	,	NAL ER-	720	generate	IDGen-
			ROR		new ID.	erator
						threw
						an SQL
						Excep-
						tion
						look
						at that
						one to find
						out
						what's
		_				wrong.
IFO		7	INTER-	442		The
	TORE		NAL_ER- ROR		determine number of	query to
			on		versions for	
					infoitem %s	the
					in context	ver-
					%s. Invalid Query: %s	sions in a
					Query. 103	docu-
						ment
						failed.
IFO		7	INTER-	443		
	TORE		NAL_ER- ROR		erate result	sys- tem
			NON			couldn't
						iterate
						the re-
						sult dataset.
						This
						can
						have
						numer-
						ous excit-
						ing
						caus-
		_				es.
IFO	INFOS-	7	INTER-	444		
	TORE		NAL_ER- ROR		erate result	sys- tem
			on			couldn't
						iterate
						the re-
						sult dataset.
						This
1						

IFO	INFOS- TORE	7	INTER- NAL_ER- ROR	1902	Cannot close database connection	can have numer- ous excit- ing caus- es. Can- not close database con- nec- tion
IFO	INFOS- TORE	8	CODE_ER-ROR	200	Invalid SQL Query: %s	A faulty SQL Query was sent to the SQL server. This can only be fixed in R&D
IFO	INFOS- TORE	8	CODE_ER-ROR	201	Invalid SQL Query: %s	A faulty SQL Query was sent to the SQL server. This can only be fixed in R&D
IFO	INFOS- TORE	8	CODE_ER- ROR	202	Invalid SQL Query: %s	R&D A faulty SQL Query was sent to the

IFO	INFOS- TORE	8	CODE_ER- ROR	204	Could not get file store location.	SQL server. This can only be fixed in R&D The con- text specif- ic data about a filestor- age could not be load- ed. Look at the under- lying excep-
IFO	INFOS- TORE	8	CODE_ER- ROR	214	Invalid SQL Query: %s	tions for a hint. A faulty SQL Query was sent to the SQL server.
IFO	INFOS- TORE	8	CODE_ER- ROR	215	Invalid SQL Query: %s	This can only be fixed in R&D A faulty SQL Query was sent to the SQL

IFO	INFOS- TORE	8	CODE_ER- 216 ROR	Invalid SQL Query: %s	server. This can only be fixed in R&D A faulty SQL Query was sent to the SQL server. This can
IFO	INFOS- TORE	8	CODE_ER- 217 ROR	Invalid SQL Query: %s	only be fixed in R&D A faulty SQL Query was sent to the SQL server. This can
IFO	INFOS- TORE	8	CODE_ER- 218 ROR	Incorrect SQL Query: %s	only be fixed in R&D Indi- cates a faulty SQL Query. Only R&D
IFO	INFOS- TORE	8	CODE_ER- 220 ROR	Incorrect SQL Query: %s	can fix this Indi- cates a faulty

IFO	INITOS	0	CODE ED 333	Incorrect	SQL Query. Only R&D can fix this
IFO	INFOS- TORE	o	CODE_ER- 222 ROR	SQL Query: %s	Indi- cates a faulty SQL Query. Only R&D can fix
IFO	INFOS- TORE	8	CODE_ER- 224 ROR	Incorrect SQL Query.	this Indi- cates a faulty SQL Query. Only R&D can fix
IFO	INFOS- TORE	8	CODE_ER- 226 ROR	Invalid SQL Query: %s	this A faulty SQL Query was sent to the SQL server. This can only be fixed in R&D
IFO	INFOS- TORE	8	CODE_ER- 227 ROR	Invalid SQL Query: %s	A faulty SQL Query was sent to the SQL server. This can only

IFO	INFOS- TORE	8	CODE_ER- 228 ROR	Invalid SQL Query: %s	be fixed in R&D A faulty SQL Query was
					sent to the SQL server. This can only be fixed in R&D
IFO	INFOS- TORE	8	CODE_ER- 229 ROR	Invalid SQL Query: %s	A faulty SQL Query was sent to the SQL server. This can only be fixed in R&D
IFO	INFOS- TORE	8	CODE_ER- 234 ROR	Invalid SQL Query : %s	An in- valid SQL Query was sent to the server.
IFO	INFOS- TORE	8	CODE_ER- 235 ROR	Invalid SQL Query: %s	A faulty SQL Query was sent to the SQL server. This

					can only be fixed in R&D
IFO	INFOS- TORE	8	CODE_ER- 302 ROR	The folder %d is not an Infostore folder	The client tries to put an infoitem into a non infoitem folder.
IFO	INFOS- TORE	8	CODE_ER- 500 ROR	Illegal argument: Document %d contains no file	A Web- davPath

IFO	INFOS- TORE	8	CODE_ER- 501 ROR	Folder %d has two subfolders named %s. Your database is not consistent.	be fixed by R&D. A fold- er con- tains two fold- ers with the same	
					folder name. This points to an incon- sisten- cy in the databæe, as the sec- ond folder	
					by the same name should not have been created. This will certainly cause some heathes	
IFO	INFOS- TORE	8	CODE_ER- 502 ROR	Incorrect SQL Query: %s	in R&D. A faulty SQL state- ment was sent to the DB.	

IFO	INFOS- TORE	8	CODE_ER- 600 ROR	Incorrect SQL Query: %s	R&D must fix this. Indi- cates a faulty SQL Query. Only R&D can fix this
IFO	INFOS- TORE	8	CODE_ER- 800 ROR	Invalid SQL: '%s'	
IFO	INFOS- TORE	8	CODE_ER- 801 ROR	Error in SQL Update	

IFO	INFOS- TORE	8	CODE_ER- 80 ROR	2 Invalid SQL: '%s'	about this. Indi- cates a faulty SQL query or a prob- lem with the database Ususal- ly only R&D
IFO	INFOS- TORE	8	CODE_ER- 80 ROR	3 Invalid SQL: '%s'	can do any- thing about this. Indi- cates a faulty SQL query or a prob- lem with the database
IFO	INFOS- TORE	8	CODE_ER- 80 ROR	14 Invalid SQL: '%s'	Ususally only R&D can do any-thing about this. Indicates a faulty SQL query or a problem with

						the database Ususal- ly only R&D can do any- thing
IFO	INFOS- TORE	8	CODE_ER- ROR	805	Invalid SQL: '%s'	about this. Indi- cates a faulty SQL query or a prob- lem with the database Ususal- ly only R&D can
IFO	INFOS- TORE	8	CODE_ER-ROR	806	Invalid SQL: '%s'	do any- thing about this. Indi- cates a faulty SQL query or a prob- lem with the database Ususal- ly only R&D can do any- thing about this.

IFO	INFOS- TORE	8	CODE_ER- ROR	807	Invalid SQL: '%s'	cates
						a faulty
						SQL query
						or a
						prob- lem
						with
						the database.
						Ususal-
						ly only R&D
						can
						do any-
						thing
						about this.
IFO		8		900	Invalid SQL:	Indi-
	TORE		ROR		'%s'	cates a
						faulty SQL
						query
						or a prob-
						lem
						with the
						database.
						Ususal- ly only
						R&D
						do an
						any-
						thing about
IFO	INITOC	0	CODE ED	001	استعانا دراء	this.
IFO	INFOS- TORE	8	CODE_ER- ROR	901	Invalid SQL: '%s'	Indi- cates
						a faulty
						SQL
						query or a
						prob-
						lem with
						the
						database.

I	FO	INFOS- TORE	8	CODE_ER- ROR	902	Invalid SQL: '%s'	Ususally only R&D can do any- thing about this. Indi- cates a faulty SQL query or a prob- lem with the
1	FO	INFOS- TORE	8	CODE_ER- ROR	903	Invalid SQL: '%s'	cbtabase Ususal- ly only R&D can do any- thing about this. Indi- cates a faulty SQL query or a prob- lem with the
I	FO	INFOS- TORE	8	CODE_ER- ROR	904	Invalid SQL: '%s'	clabase Ususal- ly only R&D can do any- thing about this. Indi- cates a

					faulty SQL query or a prob- lem with the database Ususal- ly only R&D can do
IFO	INFOS- TORE	8	CODE_ER- 905 ROR	Invalid SQL: '%s'	any- thing about this. Indi- cates a faulty SQL query or a prob- lem with
IFO	INFOS- TORE	8	CODE_ER- 906 ROR	Invalid SQL: '%s'	the cbtabase Ususal- ly only R&D can do any- thing about this. Indi- cates a faulty SQL
					query or a prob- lem with the chalabase Ususal- ly only R&D

IFO	INFOS- TORE	8	CODE_ER- ROR	1000	Invalid SQL query: %s	can do any- thing about this. An in- valid SQL query was used sent to the SQL Serv- er.
IFO	INFOS- TORE	8	CODE_ER- ROR	1001	Invalid SQL query: %s	This can only be fixed by R&D An in- valid SQL query was used sent to the SQL Serv- er. This
IFO	INFOS- TORE	8	CODE_ER- ROR	1100	Invalid SQL Query : %s	can only be fixed by R&D An in- valid SQL Query was
IFO	INFOS- TORE	8	CODE_ER- ROR	1101	Invalid SQL Query : %s	sent to the server An in- valid SQL Query

						was sent to the
IFO	INFOS- TORE	8	CODE_ER- ROR	1200	Invalid SQL Query : %s	server An in- valid SQL
						Query was sent to the server
IFO	INFOS- TORE	8	CODE_ER- ROR	1201	Invalid SQL Query : %s	An in- valid SQL Query
IFO	INFOS-	8	CODE ER-	1300	Invalid SQL	was sent to the server An in-
	TORE	Ü	ROR	1300	Query : %s	valid SQL Query was
IFO	INFOS-	8		1301	Invalid SQL	sent to the server An in-
	TORE		ROR		Query : %s	valid SQL Query was sent
IFO	INFOS- TORE	8	CODE_ER- ROR	1400	Invalid SQL Query : %s	to the server An in- valid SQL
						Query was sent to the server
IFO	INFOS- TORE	8	CODE_ER- ROR	1401	Invalid SQL Query : %s	An in- valid SQL Query
IFO	INFOS-	8	CODE FR-	1500	Invalid SQL	was sent to the server An in-
" 0	TORE	J	ROR	1500	Query: %s	valid

IFO	INFOS- TORE	8	CODE_ER- 1 ROR	501	Invalid SQL Query : %s	SQL Query was sent to the server An in- valid SQL Query
IFO	INFOS- TORE	8	CODE_ER- 1 ROR	600	Invalid SQL Query : %s	was sent to the server An in- valid SQL
IFO	INFOS- TORE	8	CODE_ER- 1 ROR	601	Invalid SQL Query : %s	Query was sent to the server An in- valid
IFO	INFOS- TORE	8	CODE_ER- 1 ROR	901	Invalid SQL query: %s	SQL Query was sent to the server An in- valid
IFO	INFOS-	8	CODE ER- 2	2400		query was sent to the database An in-
	TORE		ROR		Query : %s	valid SQL Query was sent to the server
IFO	INFOS- TORE	8	CODE_ER- 2 ROR	2401	Invalid SQL Query : %s	An in- valid SQL Query was sent to the server

IFO	INFOS- TORE	8	CODE_ER- ROR	2500	Invalid SQL Query : %s	An invalid SQL Query was sent to the server
IFO	INFOS- TORE	8	CODE_ER- ROR	2501	Invalid SQL Query : %s	An in- valid SQL Query was sent to the server
IFO	INFOS- TORE	8	CODE_ER- ROR	2601	Invalid SQL Query : %s	An in- valid SQL Query was sent to the server
IFO	INFOS- TORE	9	CONCUR- RENT_MOD- IFICATION	405	Could not delete all objects.	Not all in- foitems in the given folder could be delet- ed. This may be due to the in- foitems being modi- fied since the last re- quest, or the ob- jects might not even exist

IFO	INFOS- TORE	9	CONCUR- 4 RENT_MOD- IFICATION	415	This document is locked.	any- more or the user doesn't have enough delete per- mis- sions on cer- tain ob- jects. The in- foitem was locked by some other user. Only the us- er that locked the item (the one that modi- fied the en- try) can modi- fy a locked in-
IFO	INFOS- TORE	9	CONCUR- 4 RENT_MOD- IFICATION	416	You cannot unlock this document.	foitem. The infoitem was locked by some other user. Only the us- er that locked

IFO	INFOS- TORE	9	CONCUR- RENT_MOD- IFICATION	700	Could not delete DocumentMetadata %d. Please try again.	ment- Meta- data entry in the DB for the given re- source could not be creat- ed. This is mostly due to some- one else modi- fying the en- try. This can al- so mean, that the en- try has been delet-
IFO	INFOS- TORE	9	CONCUR- RENT_MOD- IFICATION	1302	The docu- ment could not be up-	ed al- ready. The docu- ment

					dated be- cause it was modified. Reload the view.	could not be updat- ed be- cause it was modi- fied.
IFO	INFOS- TORE	9	CONCUR- RENT_MOD- IFICATION		ment was updated in between do and undo. The Database is now proba- bly inconsis- tent.	do and undo. The Database is now probal- by in- consis- tent.
IFO	INFOS- TORE	9	CONCUR- RENT_MOD- IFICATION	1402	The document could not be updated because it was modified. Reload the view.	The docu- ment could not be updat- ed be- cause it was modi- fied.
IFO	INFOS- TORE	9	CONCUR- RENT_MOD- IFICATION	1403	The document was updated in between do and undo. The Database is now probalby inconsistent.	The docu- ment was updat- ed in be-

IFO	INFOS- TORE	12	TRUNCAT- ED	100	Some fields have values, that are too long	
LNK	LINKING	1	USER_IN- PUT	101	Unable to create a link between these two objects. This link already exists. 1. Object %1\$d Folder %2\$d 2. Object %3\$d Folder %4\$d Context %5\$d	Sidia
LNK	LINKING	3	PERMIS- SION	100		
LNK	LINKING	3	PERMIS- SION	105	Unable to create a link between these two objects. Insufficient rights. 1. Object %1\$d 2. Object %2\$d Context %3\$d	
LNK	LINKING	3	PERMIS- SION	106	Unable to create a link between	

LNK	LINKING	3	PERMIS- SION	110	these two objects. In- sufficient rights. 1. Ob- ject %1\$d Folder %2\$d 2. Object %3\$d Folder %4\$d Con- text %5\$d Unable to create a link between these two objects. In- sufficient rights. Ob- ject %1\$d Folder %2\$d
					Context
LNIZ	LINKING	0	CODE ER-	102	%3\$d
LINK	LIINKIING	0	ROR	102	pick up a
					connection
					from the
INK	LINKING	Q	CODE ER-	103	DBPool An error oc-
LIVIX	LIMININO	Ü	ROR	103	curred. Un-
					able to save
					this linking between
					those two
					objects. 1.
					Object %1\$d Folder %2\$d
					2. Object
					%3\$d Folder
					%4\$d Con-
LNK	LINKING	8	CODE ER-	104	text %5\$d An error oc-
			ROR		curred. Un-
					able to save
					this linking between
					those two
					objects. 1. Object %1\$d
					Folder %2\$d
					2. Object
					%3\$d Folder %4\$d Con-
					text %5\$d
LNK	LINKING	8	CODE_ER-	107	An error oc-
			ROR		curred. Un-

					able to load some links for this ob- jects. 1. Ob- ject %1\$d 2. Object %2\$d Context %3\$d		
LNK LI	NKING	8	CODE_ER- ROR	109	Unable to load all links from this objects. Ob- ject %1\$d Folder %2\$d User %3\$d Context %4\$d		
LNK LI	NKING	8	CODE_ER- ROR	111	An error occurred. Unable to delete some links from this objects. Object %1\$d Folder %2\$d Context %3\$d		
LNK LI	NKING	8	CODE_ER- ROR	112			
LNK LI	NKING	8	CODE_ER- ROR	113			
LNK LI	NKING	8	CODE_ER- ROR	114	Unable to load all links from this objects. Ob- ject %1\$d User %2\$d Context %3\$d		
LGI LO	OGIN	1	USER_IN- PUT	2	Too few (%d) login attributes.	TODO	com.openexchange.con- figjump.ConfigJumpEx- ception

LGI	LOGIN	5	SUBSYS- TEM_OR_SER- VICE_DOWN	3	Problem while communicating with external authorization.	TODO	com.openexchange.con- figjump.ConfigJumpEx- ception
LGI	LOGIN	8	CODE_ER- ROR	1	Unknown problem: %s.	TODO	com.openexchange.con- figjump.ConfigJumpEx- ception
LGI	LOGIN	8	CODE_ER- ROR	4	Instantiating the class failed.	TODO	com.openexchange.con- figjump.ConfigJumpEx- ception
LGI	LOGIN	8	CODE_ER- ROR	7	URL %s is malformed.	TODO	com.openexchange.con- figjump.ConfigJumpEx- ception
LGI	LOGIN	10	SETUP_ER- ROR	5	Class %1\$s can not be found.	TODO	com.openexchange.con- figjump.ConfigJumpEx- ception
LGI	LOGIN	10	SETUP_ER- ROR	6	Missing property %1\$s in system.properties.	TODO	com.openexchange.con- figjump.ConfigJumpEx- ception
LGI	LOGIN	10	SETUP_ER- ROR	8	Extras link is not implemented.	TODO	com.openexchange.con- figjump.ConfigJumpEx- ception
MSG	MAIL	1	USER_IN- PUT	24	No attach- ment was found with id %1\$s in message	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	1	USER_IN- PUT	25	Versit attachment could not be saved due to an unsupported MIME type: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	1	USER_IN- PUT	28	Upload quo- ta (%1\$s) ex- ceeded for file %2\$s (size=%3\$s)	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	1	USER_IN- PUT	29	Upload quo- ta (%1\$s) ex- ceeded	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	1	USER_IN- PUT	46	Bad value %1\$s in pa- rameter %2\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	1	USER_IN- PUT	47	No reply on multiple message possible	TODO	com.openex- change.mail.MailExcep- tion

MSG	MAIL	1	USER_IN- PUT	56	The specified email address %1\$s is not covered by allowed email address aliases	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	3	PERMIS- SION	13	No mail module ac- cess permit- ted	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	3	PERMIS- SION	50	Folder %1\$s does not hold mes- sages and is therefore not se- lectable	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	4	TRY_AGAIN	15	Process was interrupted while waiting for a free mail connection. Please try again.	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	7	INTER- NAL_ER- ROR	0	-	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	7	INTER- NAL_ER- ROR	7	A part's content could not be read from message %1\$s in mail folder %2\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	1	Missing pa- rameter %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	1	Missing pa- rameter %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	2	Invalid permission values: fp=%1\$s orp=%2\$s owp=%3\$s odp=%4\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	3	A JSON er- ror oc- curred: %1\$s	TODO	com.openex- change.mail.MailExcep- tion

MSG	MAIL	8	CODE_ER- ROR	4	Missing pa- rameter in user's mail config: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	6	Invalid multi- part con- tent. Num- ber of en- closed con- tents is 0	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	8	An I/O error occurred %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	9	Invalid mes- sage path: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	10	Unknown color label: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	16	Unsupport- ed charset- encoding: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	17	Header %1\$s could not be properly parsed	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	18	Missing de- fault %1\$s folder in us- er mail set- tings	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	20	-	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	21	Messaging error: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	22	Message field %1\$s cannot be handled	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	23		TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	26	Invalid pa- rameter name: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- ROR	27	Could not create a PartModifier instance	TODO	com.openex- change.mail.MailExcep- tion

					from name %1\$s		
MSG	MAIL	8	CODE_ER- ROR	31	-	TODO	com.openex- change.mail.MailExcep tion
MSG	MAIL	8	CODE_ER- ROR	32	Mail(s) %1\$s could not be found in folder %2\$s	TODO	com.openex- change.mail.MailExcep tion
MSG	MAIL	8	CODE_ER- ROR	33	Action %1\$s is not sup- ported by %2\$s	TODO	com.openex- change.mail.MailExcep tion
MSG	MAIL	8	CODE_ER- ROR	35	Message could not be sent	TODO	com.openex- change.mail.MailExcep tion
MSG	MAIL	8	CODE_ER- ROR	36	Unknown or unsupported action: %1\$s	TODO	com.openex- change.mail.MailExcep tion
MSG	MAIL	8	CODE_ER- ROR	37	Missing field %1\$s	TODO	com.openex- change.mail.MailException
MSG	MAIL	8	CODE_ER- ROR	38	Unsupport- ed MIME type %1\$s	TODO	com.openex- change.mail.MailException
MSG	MAIL	8	CODE_ER- ROR		part with sequence ID %1\$s could not be found in message %2\$s in folder %3\$s		com.openex- change.mail.MailExcep tion
MSG	MAIL	8	CODE_ER- ROR	41	No content available in mail part	TODO	com.openex- change.mail.MailException
MSG	MAIL	8	CODE_ER- ROR	45	Protocol cannot be parsed: %1\$s	TODO	com.openex- change.mail.MailExcep tion
MSG	MAIL	8	CODE_ER- ROR	48	Illegal system flag argument %1\$s. Flag must be to the power of 2	TODO	com.openex- change.mail.MailExcep tion
MSG	MAIL	8	CODE_ER- ROR	49	Attachment %1\$s not found inside mail %2\$s of mail folder %3\$s	TODO	com.openex- change.mail.MailExcep tion

MSG	MAIL	8	CODE_ER- 51 ROR	Insufficient folder attributes: Either existence status or fullname have to be present to determine if a mail folder create or update shall be performed	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- 52 ROR	Root folder must not be modified or deleted	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- 54 ROR	Missing mail folder full- name	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- 55 ROR	Image at- tachment with Con- tent-Id %1\$s not found inside mail %2\$s of mail folder %3\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- 57 ROR	Checking default folders on connect failed: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	8	CODE_ER- 58 ROR	The types of specified data source are not supported	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	10	SETUP_ER- 5 ROR	Configura- tion error: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	10	SETUP_ER- 11 ROR	Cannot in- stantiate class %1\$s.	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	10	SETUP_ER- 12 ROR	Cannot ini- tialize mail module	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	10	SETUP_ER- 14 ROR	No mail account exists for admin user in context %1\$s	TODO	com.openex- change.mail.MailExcep- tion

MSG	MAIL	10	SETUP_ER- ROR	19	Spam handler initialization failed: %1\$s	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	10	SETUP_ER- ROR	44	· ·	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	10	SETUP_ER- ROR	53	•	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	11	Exter- Nal_re- Source_rul	39	Mail could not be moved to trash folder. Quota ex- ceeded	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	11	EXTER- NAL_RE- SOURCE_FUIL	42	Message has been suc- cessfully sent, but a copy could not be placed in your sent folder due to exceeded quota.	TODO	com.openex- change.mail.MailExcep- tion
MSG	MAIL	11	EXTER- NAL_RE- SOURCE_FUIL	43	•	TODO	com.openex- change.mail.MailExcep- tion
	PERMIS- SION	1	USER_IN- PUT	1	No permission for modul: %s.	TODO	com.openex- change.api.OXPermis- sionException
PER-	PERMIS- SION	3	PERMIS- SION	2	No folder permission.	TODO	com.openex- change.api.OXPermis- sionException
REM	RE- MINDER	8	CODE_ER- ROR	1	User is missing for the reminder.	TODO	com.openex- change.groupware.re- minder.ReminderExcep- tion

REM RE- 8 CODE_ER- 7 Unable to MINDER ROR ROR DIST reminder  REM RE- 8 CODE_ER- 7 Unable to MINDER ROR ROR DIST reminder  REM RE- 8 CODE_ER- 7 Unable to MINDER ROR ROR DIST reminder  REM RE- 8 CODE_ER- 8 Unable to TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 7 Unable to ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 7 Unable to ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 7 Unable to ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 8 Unable to ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 9 Cannot find ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 10 Folder of ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 11 Module type ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 11 Module type ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 11 Module type ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 11 Module type ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 11 Module type ToDO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO com.openex- change.groupware minder.ReminderBettion  REM RE- 8 CODE_ER- 12 Updated too TODO co								
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	REM		8	_	13		TODO	change.groupware.re- minder.ReminderExcep
RES RE- 1 USER_IN- 11 Invalid re- TODO com.openexchang SOURCE PUT source iden- source.ResourceEx tifier: %1\$s tion	RES		1	_	11	source iden-	TODO	source. Resource Excep-

RES	RE- SOURCE	1	USER_IN- PUT	12	Invalid resource email address: %1\$s	TODO	com.openexchange.re- source.ResourceExcep- tion
RES	RE- SOURCE	3	PERMIS- SION	9	No permission to modify resources in context %1\$s	TODO	com.openexchange.re- source.ResourceExcep- tion
RES	RE- SOURCE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	1	Cannot get database connection.	TODO	com.openexchange.resource.ResourceException
RES	RE- SOURCE	8	CODE_ER- ROR	2	SQL Prob- lem: %1\$s	TODO	com.openexchange.resource.ResourceException
RES	RE- SOURCE	8	CODE_ER- ROR	3	Cannot find resource group with identifier %1\$d.	TODO	com.openexchange.re- source.ResourceExcep- tion
RES	RE- SOURCE	8	CODE_ER- ROR	4	Found resource groups with same identifier %1\$d.	TODO	com.openexchange.re- source.ResourceExcep- tion
RES	RE- SOURCE	8	CODE_ER- ROR	5	Cannot find resource with identifier %1\$d.	TODO	com.openexchange.re- source.ResourceExcep- tion
RES	RE- SOURCE	8	CODE_ER- ROR	6	Found resource(s) with same identifier %1\$s.	TODO	com.openexchange.re- source.ResourceExcep- tion
RES	RE- SOURCE	8	CODE_ER- ROR	7	No resource given.	TODO	com.openexchange.resource.ResourceException
RES	RE- SOURCE	8	CODE_ER- ROR	8	Missing mandatory field(s) in given re- source.	TODO	com.openexchange.re- source.ResourceExcep- tion
RES	RE- SOURCE	8	CODE_ER- ROR	10	Found resource(s) with same email address %1\$s.	TODO	com.openexchange.re- source.ResourceExcep- tion
RES	RE- SOURCE	9	CONCUR- RENT_MOD- IFICATION	13	The resource has been changed in the meantime	TODO	com.openexchange.re- source.ResourceExcep- tion

SRV	SERVICE	4	TRY_AGAIN	1	The required service %1\$s is temporary not available. Please try again later.	TODO	com.openexchange.serv- er.ServiceException
SRV	SERVICE	8	CODE_ER- ROR	2	An I/O error occurred	TODO	com.openexchange.serv- er.ServiceException
SRV	SERVICE	8	CODE_ER- ROR	3	Service ini- tialization failed	TODO	com.openexchange.serv- er.ServiceException
SVL	SERVLET	1	USER_IN- PUT	5	Value %1\$s of attribute %2\$s contains non digit characters.	TODO	com.openex- change.tools.servlet.OXJ- SONException
SVL	SERVLET	1	USER_IN- PUT	6	Too many digits within field %1\$s.	TODO	com.openex- change.tools.servlet.OXJ- SONException
SVL	SERVLET	1	USER_IN- PUT	8	Invalid value %2\$s in JSON attribute %1\$s.	TODO	com.openex- change.tools.servlet.OXJ- SONException
SVL	SERVLET	4	TRY_AGAIN	3	Invalid cook- ie.	TODO	com.openex- change.tools.servlet.OXJ- SONException
SVL	SERVLET	7	INTER- NAL_ER- ROR	5	I/O error while writing to Writer object: %s	TODO	com.openex- change.tools.servlet.Ajax- Exception
SVL	SERVLET	8	CODE_ER- ROR	1	Unknown AJAX action: %s.	TODO	com.openex- change.tools.servlet.Ajax- Exception
SVL	SERVLET	8	CODE_ER- ROR	1	Exception while writing JSON.	TODO	com.openex- change.tools.servlet.OXJ- SONException
SVL	SERVLET	8	CODE_ER- ROR	2	Missing the following request parameter: %s	TODO	com.openex- change.tools.servlet.Ajax- Exception
SVL	SERVLET	8	CODE_ER- ROR	2	Exception while parsing JSON: %s.	TODO	com.openex- change.tools.servlet.OXJ- SONException
SVL	SERVLET	8	CODE_ER- ROR	3	Missing upload image.	TODO	com.openex- change.tools.servlet.Ajax- Exception
SVL	SERVLET	8	CODE_ER- ROR	4	Invalid pa- rameter: %s	TODO	com.openex- change.tools.servlet.Ajax- Exception

SVL	SERVLET	8	CODE_ER- ROR	4	Exception while building JSON.	TODO	com.openex- change.tools.servlet.OXJ- SONException
SVL	SERVLET	8	CODE_ER- ROR	4	Servlet mappings could not be loaded due to following error: %s	TODO	com.openex- change.tools.servlet.OXServle- tException
SVL	SERVLET	8	CODE_ER- ROR	6	Missing AJAX re- quest han- dler for module %s	TODO	com.openex- change.tools.servlet.Ajax- Exception
SVL	SERVLET	8	CODE_ER- ROR	7	Unknown module: %s.	TODO	com.openex- change.tools.servlet.Ajax- Exception
SVL	SERVLET	8	CODE_ER- ROR	7	Unable to parse value %1\$s within field %2\$s as a number.	TODO	com.openex- change.tools.servlet.OXJ- SONException
SVL	SERVLET	8	CODE_ER- ROR	7	SecurityEx- ception while load- ing servlet class %s	TODO	com.openex- change.tools.servlet.OXServle- tException
SVL	SERVLET	8	CODE_ER- ROR	8	Couldn't find servlet class %s	TODO	com.openex- change.tools.servlet.OXServle- tException
SVL	SERVLET	8	CODE_ER- ROR	9	No default constructor specified in servlet class %s	TODO	com.openex- change.tools.servlet.OXServle- tException
SVL	SERVLET	10	SETUP_ER- ROR	1	Missing property %s in 'sys- tem.proper- ties'	TODO	com.openex- change.tools.servlet.OXServle- tException
SVL	SERVLET	10	SETUP_ER- ROR	2	Servlet map- ping directo- ry does not exist: %s	TODO	com.openex- change.tools.servlet.OXServle- tException
SVL	SERVLET	10	SETUP_ER- ROR	3	File is not a directory: %s	TODO	com.openex- change.tools.servlet.OXServle- tException
SVL	SERVLET	10	SETUP_ER- ROR	5	No servlet class name found for key %s. Please check servlet map- pings.	TODO	·

SVL	SERVLET	10	SETUP_ER- ROR	6	Name %s already mapped to %s. Ignoring servlet class %s	TODO	com.openex- change.took <i>s</i> ervlet.OXServle- tException
SES	SESSION	3	PERMIS- SION	205	Wrong client IP address.	If a session exists every request is checked for its client IP address to match the one while creating the session.	
SES	SESSION	4	TRY_AGAIN	203	Your session %s expired. Please start a new browser ses- sion.	sion with the	
SES	SESSION		TRY_AGAIN  CODE_ER- ROR		Context is locked. The session parameter is missing.	Every	

SES	SESSION	8	CODE_ER- ROR	202	The cookie with the session identifier is missing.	er	
TSK	TASK	1	USER_IN- PUT	8	Cannot create private task in public/shared folder %1\$d.		com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	28	Private flagged tasks cannot be delegated.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	30	Percent is %d but must be between 0 and 100.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	31	For tasks which are not started the percentage done must be 0 and not %d.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	36	Unknown recurrence type %d.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	37	Value for the recur- rence is missing: %d.	TODO	com.openex- change.group- ware.tasks.TaskException

TSK	TASK	1	USER_IN- PUT	38	For finished tasks the percentage must be 100 and not %d.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	40	Start date %1\$s must be before end date %2\$s.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	43	Only the task creator is allowed to set private flag.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	44	Cannot add external par- ticipant without email ad- dress.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	1	USER_IN- PUT	47	Task con- tains invalid data: %1\$s	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	6	Folder %1\$s (%2\$d) is not a task folder.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	14	You are not allowed to delete the task.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	23	You are not allowed to read the contents of folder %1\$s (%2\$d).	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	24	Tasks are disable for you (%d).	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	25	You are not allowed to create tasks in folder %1\$s (%2\$d).	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	26	You are not allowed to delegate tasks.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	33	You are not allowed to edit tasks in	TODO	com.openex- change.group- ware.tasks.TaskException

					folder %1\$s (%2\$d).		
TSK	TASK	3	PERMIS- SION	34	Moving items from or into shared folder %1\$s (%2\$d) is not allowed.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	42	Task with private flags cannot be moved to public folder %1\$s (%2\$d).	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	46	You are not allowed to see the task %1\$d in folder %2\$s (%3\$d).	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	3	PERMIS- SION	48	The task %1\$d is not stored in folder %2\$s (%3\$d).	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	5	SUBSYS- TEM_OR_SER- VICE_DOWN	2	Problem setting auto commit to true.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	5	SUBSYS- TEM_OR_SER- VICE_DOWN	3	Cannot get database connection.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	1	Error while inserting task: %s.	TODO	com.openex- change.group- ware.tasks.TaskException
	TASK	8	CODE_ER- ROR		is not imple- mented.		com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	5	SQL Prob- lem: %s.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	9	SQL prob- lem while updating task: %s.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	10	Counting tasks did not return a result.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	11	SQL prob- lem while deleting task: %s.	TODO	com.openex- change.group- ware.tasks.TaskException

TSK	TASK	8	CODE_ER- ROR	12	Cannot find folder of task participant %1\$d.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	13	SQL prob- lem while listing tasks: %s.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	15	Tried to delete %1\$d folders but only %2\$d were delet- ed.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	16	Tried to delete %1\$d participants but only %2\$d were deleted.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	18	Participant %d for task %d is not found.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	19	Cannot find task %d in context %d.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	20	Unknown task at- tribute %d.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	21	Date range in search must con- tain 2 and not %d val- ues.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	22	Cannot decrease number of attachments below zero.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	27	Missing folder id for creating task.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	32	•	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	35	Missing folder mapping for task %1\$d.	TODO	com.openex- change.group- ware.tasks.TaskException

TSK	TASK	8	CODE_ER- ROR	39	Invalid task state %d.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	45	Problem with a thread.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	8	CODE_ER- ROR	49	Unknown participant type %1\$d.	TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	9	CONCUR- RENT_MOD- IFICATION	7		TODO	com.openex- change.group- ware.tasks.TaskException
TSK	TASK	12	TRUNCAT- ED	41	The task could not be saved. Please shorten the %1\$s and try again. Current length %3\$d is more than allowed length of %2\$d characters.	TODO	com.openex- change.group- ware.tasks.TaskException
TAX	TRANS- ACTION	5	SUBSYS- TBM_OR_SER- VICE_DOWN	100	Database cannot be reached.	The Database does not seem to be reachable. This must be fixed by the system	

TAX	TRANS- ACTION	5	SUBSYS- TBM_OR_SER- VICE_DOWN		Database cannot be reached.	administration The Database does not seem to be reach- able. This must be fixed by the sys- tem administra- tion
TAX	TRANS- ACTION	5	SUBSYS- TEM_OR_SER- VICE_DOWN	400	Cannot commit transaction to write DB	
TAX	TRANS- ACTION	5	SUBSYS- TEM_OR_SER- VICE_DOWN	401	Cannot roll- back transac- tion in write DB	
TAX	TRANS- ACTION	5	SUBSYS- TEM_OR_SER- VICE_DOWN	402	Cannot fin- ish transac- tion	
TAX	TRANS- ACTION	7	INTER- NAL_ER- ROR	201	This transaction could not be fully undone. Some components are probably not consistent anymore. Run the recovery tool!	trans- action could not be fully un- done. Some com-

						covery tool!
UPD	UPDATE	3	PERMIS- SION	108	Update conflict detected. Another process is currently updating schema %1\$s.	
UPD	UPDATE	3	PERMIS- SION	112	Update conflict detected. Schema %1\$s is not marked as LOCKED.	
UPD	UPDATE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	801	Cannot get database connection.	
UPD	UPDATE	5	SUBSYS- TEM_OR_SER- VICE_DOWN	803	Cannot get database connection.	
UPD	UPDATE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	805	Cannot get database connection.	
UPD	UPDATE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	901	Cannot get database connection.	
UPD	UPDATE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	903	Cannot get database connection.	
UPD	UPDATE	5	SUBSYS- TBM_OR_SER- VICE_DOWN	908	Cannot get database connection.	
UPD	UPDATE	7	INTER- NAL_ER- ROR	107	Though expected, SQL query returned no result.	
UPD	UPDATE	7	INTER- NAL_ER- ROR	109	Table up- date failed. Schema %1\$s could not be locked.	
	UPDATE		INTER- NAL_ER- ROR	111	pected, SQL query re- turned no result.	
UPD	UPDATE	7	INTER- NAL_ER- ROR	113	Table up- date failed. Schema %1\$s could	

not be unlocked.  UPD UPDATE 8 CODE_ER- 101 A SQL error occurred while reading schema version information: %1\$s.  UPD UPDATE 8 CODE_ER- 103 A SQL exception ocing if curred while a tachecking for ble exschema version table: failed. %1\$s.  UPD UPDATE 8 CODE_ER- 106 A SQL error
ROR occurred while reading schema version information: %1\$s.  UPD UPDATE 8 CODE_ER- 103 A SQL excep- Check- ROR tion ocing if curred while a ta- checking for ble ex- schema ver- ist sion table: failed. %1\$s.  UPD UPDATE 8 CODE_ER- 106 A SQL error
version information: %1\$s.  UPD UPDATE 8 CODE_ER- 103 A SQL excep- Checktion oc- ing if curred while a tachecking for ble exschema versist sion table: failed. %1\$s.  UPD UPDATE 8 CODE_ER- 106 A SQL error
UPD UPDATE 8  CODE_ER- 103 A SQL excep- Checktion ocing if curred while a tachecking for ble exschema verist sion table: failed.  W1\$s.  UPD UPDATE 8  CODE_ER- 106 A SQL excep- Checking if curred while a tachecking for ble exschema verist sion table: failed.  %1\$s.
ROR tion oc- ing if curred while a tachecking for ble exschema verist sion table: failed.  W1\$s.  UPD UPDATE 8 CODE_ER- 106 A SQL error
checking for ble ex- schema ver- ist sion table: failed. %1\$s. UPD UPDATE 8 CODE_ER- 106 A SQL error
schema ver- ist sion table: failed. %1\$s. UPD UPDATE 8 CODE_ER- 106 A SQL error
%1\$s. UPD UPDATE 8 CODE_ER- 106 A SQL error
_
DOD
ROR occurred while read-
ing schema
version infor- mation:
%1\$s.
UPD UPDATE 8 CODE_ER- 110 A SQL error
ROR occurred while read-
ing schema
version infor-
mation: %1\$s.
UPD UPDATE 8 CODE_ER- 114 A SQL error
ROR occurred while creat-
ing table
'version':
%1\$s. UPD UPDATE 8 CODE ER- 115 A database
ROR error oc-
curred while
creating ta- ble 'version':
%1\$s.
UPD UPDATE 8 CODE_ER- 116 A database  ROR error oc-
ROR error oc- curred while
reading
schema ver- sion informa-
tion: %1\$s.
UPD UPDATE 8 CODE_ER- 130 A SQL error
ROR occurred
while creat-

			'version': %1\$s.
UPD UP	DATE 8	CODE_ER- 131 ROR	
UPD UP	DATE 8	CODE_ER- 601 ROR	
UPD UP	DATE 8	CODE_ER- 700 ROR	
UPD UP	DATE 8	CODE_ER- 701 ROR	
UPD UP	DATE 8	CODE_ER- 701 ROR	
UPD UP	DATE 8	CODE_ER- 701 ROR	An SQL er- ror oc- curred: %1\$s.
UPD UP	DATE 8	CODE_ER- 701 ROR	An SQL er- ror oc- curred: %1\$s.
UPD UP	DATE 8	CODE_ER- 701 ROR	An SQL er- ror occurred while per- forming task ClearLeft- overAttach- mentsUp- dateTask: %1\$s.
UPD UP	DATE 8	CODE_ER- 701 ROR	An SQL er- ror oc- curred: %1\$s.
UPD UP	DATE 8	CODE_ER- 701 ROR	An SQL er- ror occurred while per- forming task Con- tactsChanged-

UPD	UPDATE	8	CODE_ER- ROR	701	FromUpdate- Task: %1\$s.  SQL error occurred while per- forming task Contacts- FieldSizeUp- dateTask: %1\$s.
UPD	UPDATE	8	CODE_ER- ROR	701	
UPD	UPDATE	8	CODE_ER- ROR	701	
UPD	UPDATE	8	CODE_ER- ROR	701	An SQL er- ror oc- curred: %1\$s.
UPD	UPDATE	8	CODE_ER- ROR	701	An SQL er- ror oc- curred: %1\$s.
UPD	UPDATE	8	CODE_ER- ROR	701	An SQL er- ror occurred while per- forming task Cre- ateTableVer- sion: %1\$s.
UPD	UPDATE	8	CODE_ER- ROR	701	An SQL er- ror occurred while per- forming task DelFold- erTreeTable- UpdateTask: %1\$s.
UPD	UPDATE	8	CODE_ER- ROR	701	SQL error occurred while per- forming task FolderAd- dPerm- ColumnUp- dateTask: %1\$s.

UPD	UPDATE	8	CODE_ER- ROR	701	Error in SQL Statement
LIPD	UPDATE	8	CODE ER-	701	An SQL er-
010	OIDAIL	U	ROR	701	ror occurred
			KOK		while per-
					forming task
					MailUpload-
					QuotaUp-
					dateTask:
					%1\$s.
LIPD	UPDATE	Ω	CODE_ER-	701	A SQL error
OID	OLDAIL	O	ROR	/01	occurred
			KOK		while per-
					forming task
					NewInfos-
					toreFold-
					erTreeUp-
					dateTask:
					%1\$s.
LIPD	UPDATE	8	CODE ER-	701	An SQL er-
0.5	0. 5,2	Ü	ROR	,	ror occurred
					while per-
					forming task
					Password-
					MechUpdate-
					Task: %1\$s.
UPD	UPDATE	8	CODE_ER-	701	An SQL er-
			ROR		ror occurred
					while per-
					forming task
					SpamUpdate-
					Task: %1\$s.
UPD	UPDATE	8	CODE_ER-	701	A SQL error
			ROR		occurred
					while per-
					forming task
					SpellCheckUser-
					DictTable-
1100	1100 475	0	CODE 55	704	Task: %1\$s.
טיט	UPDATE	8	CODE_ER-	/01	An SQL er-
			ROR		ror occurred
					while per-
					forming task DelFold-
					erTreeTable-
					UpdateTask:
					%1\$s.
UPD	UPDATE	8	CODE ER-	702	SQL error
3, 5	J. D/ (IL	-	ROR	. 52	occurred
					while per-
					forming task
					Contacts-
					FieldSizeUp-
1					- 1

					dateTask: %1\$s.
UPD	UPDATE	8	CODE ER-	702	SQL error
			ROR		occurred
					while per-
					forming task
					FolderAd-
					dPerm-
					ColumnUp-
					dateTask:
					%1\$s.
UPD	UPDATE	8	CODE_ER-	702	
			ROR		ror occurred
					while per-
					forming task
					Password-
					MechUpdate- Task: %1\$s.
LIDU	UPDATE	Q	CODE ER-	702	
OID	OIDAIL	O	ROR	702	ror occurred
			KOK		while per-
					forming task
					Password-
					MechUpdate-
					Task: %1\$s.
UPD	UPDATE	8	CODE ER-	703	SQL error
			ROR		occurred
					while per-
					forming task
					FolderAd-
					dPerm-
					ColumnUp-
					dateTask: %1\$s.
LIBD	UPDATE	0	CODE ED	002	
UrD	OFDATE	O	CODE_ER- ROR	002	lem: %s.
IIDU	UPDATE	8	CODE ER-	80 <i>/</i> I	
טוט	JIDAIL	5	ROR	JU <del>-1</del>	lem: %s.
UPD	UPDATE	8	CODE ER-	806	
J. <b>D</b>	J. J. 11 L	-	ROR		lem: %s.
UPD	UPDATE	8	CODE ER-	807	
	_		ROR		lem: %s.
UPD	UPDATE	8	CODE_ER-	808	SQL Prob-
			ROR		lem: %s.
UPD	UPDATE	8	CODE_ER-	902	
			ROR		lem: %s.
UPD	UPDATE	8	CODE_ER-	904	
			ROR		lem: %s.
		Q	CODE ER-	905	SQL Prob-
UPD	UPDATE	U	_		
			ROR		lem: %s.
	UPDATE		_	906	

UPD	UPDATE	8	CODE_ER- ROR	907	SQL Prob- lem: %s.		
UPD	UPDATE	8	CODE_ER-	909	SQL Prob-		
UPD	UPDATE	8	ROR CODE_ER-	910	lem: %s. SQL Prob-		
UPD	UPDATE	10	ROR SETUP ER-	102	lem: %s. No row		
			ROR		found in table update.		
UPD	UPDATE	10	SETUP_ER-	104	Multiple rows found.		
UPD	UPDATE	10	ROR SETUP_ER-	105	Resolving	Strange	
			ROR		schema for context	con- text	
					%1\$d failed.	identi-	
						fier or a map-	
						ping is miss-	
						ing.	
UPD	UPDATE	10	SETUP_ER- ROR	301	Class %1\$s can not be		
LIDD	UPDATE	10	CETLID ED	202	loaded.		
UPD	UPDATE	10	SETUP_ER- ROR	302	stantiate		
UPD	UPDATE	10	SETUP ER-	501	class %1\$s. Cannot in-		
			ROR		stantiate up-		
					dater imple- mentation		
UPD	UPDATE	10	SETUP ER-	702	%1\$s. Can't re-	No De-	
0. 2	0. 272		ROR	. • -	solve file-	scrip-	
USR	USER	1	USER IN-	15	store. New pass-	tion TODO	com.openex-
			PUT		word con- tains invalid		change.group- ware.ldap.UserException
					characters		
USR	USER	3	PERMIS- SION	13	No permis- sion to mod-	TODO	com.openex- change.group-
					ify resources in context		ware.ldap.UserException
					%1\$s		
USR	USER	5	SUBSYS- TEM OR SER-	5	Cannot get database	TODO	com.openex- change.group-
LICE	LICED	0	MCE_DOWN	2	connection.	TODO	ware.ldap.UserException
USK	USER	8	CODE_ER- ROR	2	Cannot build distin-	TODO	change.group-
					guished name from		ware.ldap.UserException
					%s.		

USR	USER	8	CODE_ER- ROR	6	Cannot clone object %1\$s.	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	8	CODE_ER- ROR	7	SQL Prob- lem: %s.	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	8	CODE_ER- ROR	8	Hash algo- rithm %s isn't found.	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	8	CODE_ER- ROR	9	Encoding %s cannot be used.	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	8	CODE_ER- ROR	10	Cannot find user with identifier %1\$s in con- text %2\$d.	TODO	·
USR	USER	8	CODE_ER- ROR	11	Found two user with same identifi- er %1\$s in context %2\$d.	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	8	CODE_ER- ROR	12	Problem putting/re-moving an object in-to/from the cache.	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	8	CODE_ER- ROR	14	Missing or unknown password mechanism %1\$s	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	10	SETUP_ER- ROR	1	Cannot find property %s.	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	10	SETUP_ER- ROR	3	Class %s can not be load- ed.	TODO	com.openex- change.group- ware.ldap.UserException
USR	USER	10	SETUP_ER- ROR	4	Cannot instantiate class %s.	TODO	com.openex- change.group- ware.ldap.UserException
USS	US- ER_SET- TING	1	USER_IN- PUT	9	Invalid value %s written to setting %s.	TODO	com.openex- change.groupware.set- tings.SettingException
USS	US- ER_SET- TING	3	PERMIS- SION	3	Writing the setting %1\$s is not permitted.	TODO	
USS	US- ER_SET- TING	5	SUBSYS- TEM_OR_SER- VICE_DOWN	1	Cannot get connection to database.	TODO	com.openex- change.groupware.set- tings.SettingException

US	S US- ER_SET- TING	8	CODE_ER- ROR	1	A SQL error occurred: %1\$s	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
US	S US- ER_SET- TING	8	CODE_ER- ROR	2	A DBPooling error oc- curred	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
US:	S US- ER_SET- TING	8	CODE_ER- ROR	3	Configuration for user %1\$s could not be found in context %2\$d	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
US:	S US- ER_SET- TING	8	CODE_ER- ROR	4	Unknown setting path %1\$s.	TODO	com.openex- change.groupware.set- tings.SettingException
US	S US- ER_SET- TING	8	CODE_ER- ROR	5	Setting %1\$s is not a leaf one.	TODO	com.openex- change.groupware.set- tings.SettingException
US	S US- ER_SET- TING	8	CODE_ER- ROR	6	Exception while parsing JSON.	TODO	com.openex- change.groupware.set- tings.SettingException
US	S US- ER_SET- TING	8	CODE_ER- ROR	6	Instantiating the class failed.	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
US	S US- ER_SET- TING	8	CODE_ER- ROR	7	Cache initial- ization failed. Re- gion: %1\$s	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
US	S US- ER_SET- TING	8	CODE_ER- ROR	8	Problem while initialising configuration tree.	TODO	com.openex- change.groupware.set- tings.SettingException
US	S US- ER_SET- TING	8	CODE_ER- ROR	8	User configuration could not be put into cache: %1\$s	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
US	S US- ER_SET- TING	8	CODE_ER- ROR	9	User configuration cache could not be cleared: %1\$s	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
USS	S US- ER_SET- TING	8	CODE_ER- ROR	9		TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
US	S US- ER_SET- TING	8	CODE_ER- ROR	10	Found duplicate database	TODO	com.openex- change.groupware.set- tings.SettingException

					identifier %d. Not adding pref- erences item.		
USS	US- ER_SET- TING	8	CODE_ER- ROR	10	Mail settings for user %1\$s could not be found in context %2\$d	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
USS	US- ER_SET- TING	8	CODE_ER- ROR	11	Exception while writing JSON object.	TODO	com.openex- change.groupware.set- tings.SettingException
USS	US- ER_SET- TING	10	SETUP_ER- ROR	4	Missing property %1\$s in system.properties.	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
USS	US- ER_SET- TING	10	SETUP_ER- ROR	5	Class %1\$s can not be found.	TODO	com.openex- change.groupware.user- configuration.UserConfig- urationException
IMAP	imap_imaps	1	USER_IN- PUT	25	Versit attachment could not be saved due to an unsupported MIME type: %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	1	USER_IN- PUT	2013	Mail folder cannot be created/re- named. Name must not contain character '%1\$s'	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	1	USER_IN- PUT	2017	No adminis- ter permis- sion speci- fied for fold- er %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	1	USER_IN- PUT	2036	Message move abort- ed for user %1\$s. Source and destina- tion folder are equal: %2\$s	TODO	com.openex- change.imap.IMAPExcep- tion

IMAP	imap_imaps	1	USER_IN- PUT	2043	No attach- ment was found with id %1\$s in message	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	2	US- ER_CONFI- GURA- TION	2003	User %1\$s has no mail module ac- cess due to user configu- ration	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	50	Folder %1\$s does not hold mes- sages and is therefore not se- lectable	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	1010	An attempt was made to open a read- only folder with read- write: %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2003	No access to mail folder %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2004	No lookup access to mail folder %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2005	No read access to mail folder %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2006	No delete access to mail folder %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2007	No insert access to mail folder %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2008	No create access to mail folder %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2009		TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2010	No write access to IMAP folder %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion

IMAP	imap_imaps	3	PERMIS- SION	2011	No keep- seen access to mail fold- er %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2012	Folder %1\$s does not allow subfolders.	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2014	A folder named %1\$s already ex- ists	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2016	The composed rights could not be applied to new folder %1\$s due to missing administer right in its initial rights specified by IMAP server. However, the folder has been created.	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2018	Default folder %1\$s cannot be updated	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2023	Folder %1\$s cannot be deleted	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2024	Default folder %1\$s cannot be deleted	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2032	Mail folder %1\$s must not be moved to subsequent folder %2\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	3	PERMIS- SION	2041	Not allowed to open folder %1\$s due to miss- ing read ac- cess	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	5	SUBSYS- TBM_OR_SER- VICE_DOWN	1016	Connection was refused or timed out	TODO	com.openex- change.imap.IMAPExcep- tion

					while at- tempting to connect to remote serv- er %1\$s for user %2\$s		
IMAP	imap_imaps	5	SUBSYS- TEM_OR_SER- WCE_DOWN	2029	IMAP search failed due to following reason: %1\$s. Switching to application- based search	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	5	SUBSYS- TBM_OR_SER- VICE_DOWN	2030	IMAP sort failed due to following reason: %1\$s Switching to application- based sort- ing	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	7	INTER- NAL_ER- ROR	2025	Flag %1\$s could not be changed due to fol- lowing rea- son: %2\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	7	INTER- NAL_ER- ROR	2039	Message(s) %1\$s in fold- er %2\$s could not be deleted due to following error: %3\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap <u>i</u> maps	7	INTER- NAL_ER- ROR	2047	A protocol exception occurred during execution of an IMAP request: %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	1	Missing pa- rameter %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	2	Invalid permission values: fp=%1\$s orp=%2\$s owp=%3\$s odp=%4\$s	TODO	com.openex- change.imap.IMAPExcep- tion

IMAP	imap_imaps	8	CODE_ER- ROR	3	A JSON er- ror oc- curred: %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	4	Missing parameter in user's mail config: %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	8	An I/O error occurred %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	16	Unsupport- ed charset- encoding: %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	22	Message field %1\$s cannot be handled	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	1002	Mail folder could not be found: %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	2001	No connection available to access mailbox	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	2015	Mail folder %1\$s could not be creat- ed (maybe due to insuf- ficient per- mission on parent fold- er %2\$s or due to an in- valid folder name)	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	2019	Deletion of folder %1\$s failed	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	2020	IMAP de- fault folder %1\$s could not be creat- ed	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	2021	Missing de- fault %1\$s folder in us- er mail set- tings	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP	imap_imaps	8	CODE_ER- ROR	2022	Update of folder %1\$s failed	TODO	com.openex- change.imap.IMAPExcep- tion

IMAP imap	o_imaps	8	CODE_ER- ROR	2028	Number of search fields	TODO	com.openex- change.imap.IMAPExcep-
					(%d) do not match num- ber of search pat- terns (%d)		tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2031	Unknown search field: %1\$s	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2035	Missing %1\$s folder in mail move operation	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2037	IMAP folder read-only check failed	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2038	Unknown folder open mode %d	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2042	The raw content's in- put stream of message %1\$s in fold- er %2\$s can- not be read	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2045	Versit object could not be saved	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2046	IMAP server does not support ca- pability THREAD=REF- ERENCES	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2048	Mailbox' root folder must not be source or the destination fullname of a move operation.	TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2049		TODO	com.openex- change.imap.IMAPExcep- tion
IMAP imap	o_imaps	8	CODE_ER- ROR	2050		TODO	com.openex- change.imap.IMAPExcep- tion

IMAP	imap_imaps	11	exter- Nal_re- Source_full	2034	Message could not be moved to trash folder	TODO	com.openex- change.imap.IMAPExcep- tion
LGI	compenex changeau- thentica- tion	3	PERMIS- SION	1	Account %s is locked.		
LGI	compenex changeau- thentica- tion	4	TRY_AGAIN	2	Account %s is not ready yet.		
LGI	compenex changeau- thentica- tion	8	CODE_ER- ROR	3	Unknown problem: %s.		
LGI	compenex changeau- thentica- tion	5	SUBSYS- TEM_OR_SER- VICE_DOWN	5	Login not possible at the mo- ment. Please try again lat- er.		
LGI	compened changeau- thentica- tion	1	USER_IN- PUT	6	Invalid credentials.		
LGI	compenex changeau- thentica- tion	8	CODE_ER- ROR	7	Instantiating the class failed.		
LGI	compenex changeau- thentica- tion	10	SETUP_ER- ROR	8	Class %1\$s can not be found.		
LGI	compenex changeau- thentica- tion	10	SETUP_ER- ROR	9	Missing property %1\$s.		
LGI	compenex changeau- thentica- tion	5	SUBSYS- TBM_OR_SER- VICE_DOWN	10	Database down.		
LGI	compense changeau- thentica- tion	3	PERMIS- SION	11	Your pass- word has ex- pired. In or- der to change it, please log in to %1\$s.		
CNV	compenex changecon- version	8	CODE_ER- ROR	1	The given type of %1\$s is not sup- ported		

CNV	compenex changecon- version	8	CODE_ER- ROR	2	Missing argu- ment %1\$s	
CNV	compenex dhangecon- version	8	CODE_ER- ROR	3	Invalid value for argu- ment %1\$s: %2\$s	
CNV	compenex dhangecon- version	8	CODE_ER- ROR	4	Unknown data source identifier: %1\$s	
CNV	compenex drangecon- version	8	CODE_ER- ROR	5	Unknown data handler identifier: %1\$s	
CNV	compense drangecon- version	8	CODE_ER- ROR	6	No matching type could be found for data source %1\$s and data handler %2\$s	
CNV	compenex changecon- version	8	CODE_ER- ROR	7	An error oc- curred: %1\$s	
CNV	compenex changecon- version	12	TRUNCAT- ED	8	The following field(s) are too long: %1\$s	
118N	compenex changeil8n	10	SETUP_ER- ROR	101	Unexpected token %s in .po file %s:%s. Expect- ed one of %s	check that the
I18N	companek changei18n	10	SETUP_ER- ROR	102	Unexpected token %s in .po file %s:%s. Expect- ed one of %s	Please check that the
I18N	compenex changei18n	10	SETUP_ER- ROR	103	Got %s, but expected a number in	Please check that the

					.po file	file is
					%s:%s.	cor-
						rectly
						for-
						mat-
						ted.
118N	compane <del>x</del>	10	SETUP_ER-	104	Malformed	Please
	changei18n		ROR		token or a	check
					unsupported	that
					token. Got	the
					%s but ex-	file is
					pected %s in	cor-
					.po file	rectly
					%s:%s.	for-
						mat-
						ted.
118N	comparex-	10	SETUP_ER-	105	An IOExcep-	Please
	changei18n		ROR		tion ocurred	make
					reading .po	sure
					file %s.	the
						file is
						read-
						able
						by the
						group-
						ware.

Table 12.1. Registry entries for themeability

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