



# **OX2OX Migration Framework Source Technical Documentation** **for** **2.1.0**

2022-03-21

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# 1 General Information

## 1.1 Warnings

### Warning

This preview delivery is not for productive usage and not affected by service-level agreements.

### Warning

It is mandatory to restart the **open-xchange** service on all middleware nodes after performing the update.

### Warning

Custom configuration or template files are potentially not updated automatically. After the update, please always check for files with a **.dpkg-new** or **.rpmnew** suffix and merge the changes manually. Configuration file changes are listed in their own respective section below but don't include changes to template files. For details about all the configuration files and templates shipped as part of this delivery, please read the relevant section of each package.

## 1.2 Delivery Comment

This delivery was requested with following comment:

*OMF Source 2.1.0 Preview Delivery 21*

## 1.3 Install Package Repository

This delivery is part of a restricted preview software repository:

<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianBuster-7.10.6>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianStretch-7.10.6>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL7-7.10.6>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianBuster-7.10.5>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianStretch-7.10.5>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL7-7.10.5>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianBuster-7.10.4>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianStretch-7.10.4>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL7-7.10.4>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianStretch-7.10.3>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL6-7.10.3>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL7-7.10.3>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianStretch-7.10.2>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL6-7.10.2>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL7-7.10.2>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianStretch-7.10.1>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL7-7.10.1>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/DebianJessie-7.8.4>  
<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL6-7.8.4>

<https://software.open-xchange.com/components/omf-source/preview/2.1.0/RHEL7-7.8.4>  
[https://software.open-xchange.com/components/omf-source/preview/2.1.0/SLE\\_12-7.8.4](https://software.open-xchange.com/components/omf-source/preview/2.1.0/SLE_12-7.8.4)

## 1.4 Build Dependencies

This delivery was build with following dependencies:

```
frontend-7.8.4-rev67,guard-2.8.0-rev23,backend-7.10.6-rev10,
guard-2.10.6-rev5,backend-7.10.5-rev39,guard-2.10.5-rev12,backend-7.10.4-rev27,guard-
2.10.4-rev7,backend-7.10.3-rev36,guard-2.10.3-rev8,backend-7.10.2-rev29,guard-2.10.2-
rev10,backend-7.10.1-rev32,guard-2.10.1-rev9
```

## 1.5 Notice



### Info

Some configurations can be changed without restarting the service, please call following command for getting a list of supported settings.

```
/opt/open-xchange/sbin/listreloadables
```

Please use following command to enable capable and changed configurations on a running system.

```
/opt/open-xchange/sbin/reloadconfiguration
```

## 2 Shipped Packages and Version

### 2.1 Package open-xchange-omf-source

OMF Source Bundles Source component of the OX Migration Framework.

Version: 2.1.0-21

Type: OX Middleware Plugin

Depends on:

```
open-xchange-core (<<7.10.7)
open-xchange-core (>=7.8.4)
open-xchange-rest (<<7.10.7)
open-xchange-rest (>=7.8.4)
```

#### 2.1.1 Installation

Install on OX middleware nodes with package installer **apt-get**, **zypper** or **yum**:

```
<package installer> install open-xchange-omf-source
```

#### 2.1.2 Configuration

For details, please see appendix [A](#)

/opt/open-xchange/etc/omf-source.properties (page [10](#))

### 2.2 Package open-xchange-omf-source-dualprovisioning

OMF Dual-Provisioning Feature

Version: 2.1.0-21

Type: OX Middleware Plugin

Depends on:

```
open-xchange-admin (<<7.10.7)
open-xchange-admin (>=7.8.4)
open-xchange-omf-source (>=2.1.0)
```

### 2.2.1 Installation

Install on OX middleware nodes with package installer **apt-get**, **zypper** or **yum**:

```
<package installer> install open-xchange-omf-source-dualprovisioning
```

## 2.3 Package open-xchange-omf-source-guard

OMF Support to migrate Guard data

Version: 2.1.0-21

Type: OX Middleware Plugin

Depends on:

```
open-xchange-guard
open-xchange-omf-source (>=2.1.0)
```

### 2.3.1 Installation

Install on OX middleware nodes with package installer **apt-get**, **zypper** or **yum**:

```
<package installer> install open-xchange-omf-source-guard
```

## 2.4 Package open-xchange-omf-source-mailfilter

OMF Source Mail Filter only Part of the Source component of OMF that supplies a core Mail Filter Provider.

Version: 2.1.0-21

Type: OX Middleware Plugin

Depends on:

```
open-xchange-core (<<7.10.7)
open-xchange-core (>=7.8.4)
open-xchange-mailfilter (<<7.10.7)
open-xchange-mailfilter (>=7.8.4)
open-xchange-omf-source (<<3.0.0)
open-xchange-omf-source (>=2.1.0)
```

### 2.4.1 Installation

Install on OX middleware nodes with package installer **apt-get**, **zypper** or **yum**:

```
<package installer> install open-xchange-omf-source-mailfilter
```

## A Configuration Files

### File 1 /opt/open-xchange/etc/omf-source.properties

```
1 #
2 # The login of the user allowed to access the webservice
3 # Parameter is mandatory
4 #
5 com.openexchange.omf.source.webserviceLogin=
6
7 #
8 # The password of the user allowed to access the webservice
9 # Parameter is mandatory
```

```
10 #
11 com.openexchange.omf.source.webservicePassword=
12
13 # ldap connection pool setting, see
14 # https://docs.ldap.com/ldap-sdk/docs/getting-started/connection-pools.html
15 # all other ldap parameters are read from /opt/open-xchange/etc/cloudplugins.properties
16 # com.openexchange.cloudplugins.read.*
17 com.openexchange.omf.source.ldappool.initialConnections=10
18
19 # ldap connection pool setting, see
20 # https://docs.ldap.com/ldap-sdk/docs/getting-started/connection-pools.html
21 # all other ldap parameters are read from /opt/open-xchange/etc/cloudplugins.properties
22 # com.openexchange.cloudplugins.read.*
23 com.openexchange.omf.source.ldappool.maxConnections=20
24
25 # Location of the JKS trust store file that contains the certificates of the target HTTPS
26 # endpoint.
27 # Note that this configuration setting is only applied when the URL the
28 # target AppSuite endpoints are using the HTTPS protocol.
29 #
30 # The default value is empty, which causes the use of the CA certificates that are bundled
31 # with the Java Runtime Environment.
32 #
33 # Example:
34 # com.openexchange.omf.source.ssl.truststore.file=/opt/open-xchange/omf/source-keystore.
35 # jks
36 #
37 # Example for using the bundled CA certificates:
38 # com.openexchange.omf.source.ssl.truststore.file=
39 # com.openexchange.omf.source.ssl.truststore.file=
40
41 # The password to use to open the JKS trust store file.
42 # Only relevant when the configuration parameter above has been set.
43 # Leave empty if no password is necessary (which is the common practice and, hence, the
44 # default).
45 #
46 # Example:
47 # com.openexchange.omf.source.ssl.truststore.password=
48 # com.openexchange.omf.source.ssl.truststore.password=secret
49 com.openexchange.omf.source.ssl.truststore.password=
50
51 # Should the dual provisioning be enabled?
52 # Dual provisioning ensures send mail related provisioning requests to the migration
53 # target
54 # Default: false
55 #
56 # Note that the dual provisioning feature also requires the open-xchange-omf-source-
57 # dualprovisioning
58 # package to be installed.
59 com.openexchange.omf.source.dualprovision.enabled=false
60
61 # Migration target URL
62 # Parameter is mandatory
63 # Example: https://provisioning.example.com
64 com.openexchange.omf.source.dualprovision.targetUrl=
65
66 # Migration source name
67 # Parameter is mandatory
68 # An alias for this this system used as migration source. The name must be known to the
69 # target.
70 # Example: foo.customer.site
71 com.openexchange.omf.source.dualprovision.sourceName=
72
73 # Ignore dual provisioning failures when the context cannot be found by the Target.
74 # This is useful when enabling dual provisioning before all contexts have been provisioned
75 # on the Target.
76 # It should not be enabled if you expect all contexts to already be provisioned.
77 com.openexchange.omf.source.dualprovision.ignoreContextNotFound=false
78
79 # Ignore dual provisioning failures when the user cannot be found by the Target.
80 # This is different from ignoreContextNotFound which will only ignore when the Target
81 # context cannot be found. This property will ignore the error when the Target context is
```

```

76 # found, but the user is not.
77 # If dual-provisioning is enabled prior to provisioning all contexts, and
    ignoreContextNotFound
78 # is enabled, it's possible that a context may be created but a user create event executed
79 # at the same time does not get propagated to the Target. That means that a user existing
80 # on Source may not exist on Target yet. This would be eventually be resolved, by follow
    up
81 # pre-provisioning runs or identified during presync or cutover, however, it would cause
82 # provisioning errors in the mean time.
83 com.openexchange.omf.source.dualprovision.ignoreUserNotFound=false
84
85 # Brand usernames and passwords to use to authenticate when provisioning users
86 # using the Dual-Provisioning feature.
87 #
88 # Format:
89 # com.openexchange.omf.source.dualprovision.targetBrandPassword.<brandName>=<password>
90 #
91 # Example:
92 # com.openexchange.omf.source.dualprovision.targetBrandPassword.acme=secret
93 # com.openexchange.omf.source.dualprovision.targetBrandPassword.name.of.the.brand=
    super_secret
94 #
95 # Note that when the com.openexchange.omf.source.metadata.brandProvider property is
96 # set to 'single', then there should only be a single such entry, as exemplified below:
97 # com.openexchange.omf.source.metadata.brandProvider=single
98 # com.openexchange.omf.source.dualprovision.targetBrandPassword.acme=secret
99 # With that configuration above, new contexts will be provisioned into the target
100 # brand "acme", using "acme:secret" as the basic authentication credentials to do so.
101 #
102 # This setting is mandatory and has no default value.
103
104 # com.openexchange.omf.source.dualprovision.targetBrandPassword.<brandName>=<password>
105
106 # Login resolver strategy: how should logins be determined when exporting metadata.
107 #
108 # Two strategies are available:
109 # * cloudplugins: mailLogin = {userId}@{contextId}
110 # * loginsource: mailLogin = depends on the value of the config cascade aware
    configuration
111 #     property com.openexchange.mail.loginSource
112 #
113 # The parameter is optional and defaults to loginsource.
114 #
115 # Examples:
116 # com.openexchange.omf.source.loginResolver=cloudplugins
117 # com.openexchange.omf.source.loginResolver=loginsource
118 #
119 com.openexchange.omf.source.metadata.loginResolver=loginsource
120
121 # The method to use to determine the brand to use when creating contexts
122 # on the Target tier, which is used in two mechanisms:
123 # - in the Source metadata, which is used for the pre-provisioning operations,
124 # - in the Dual-Provisioning feature.
125 #
126 # For Source metadata and pre-provisioning operations, this setting determines the
127 # name of the plugin to use to push the brand to use for provisioning contexts and
128 # users on the target side by including it in the metadata.
129 # Not populated if left empty.
130 #
131 # For Dual Provisioning, that brand both determines the authentication credentials
132 # to use (specifically the basic authentication username) as well as in which target
133 # brand the context ought to be created.
134 # The matching password is configured using the property
135 # com.openexchange.omf.source.dualprovision.targetBrandPassword.<brandName>=<password>
136 #
137 # Built-in providers:
138 # - configCascade: looks up a configurable property via config cascade, optionally maps it
    and
139 #     injects that as the brand
140 # - single: uses the brand credentials configuration properties to determine the brand,
    requiring
141 #     that one and only one set of credentials is configured that way

```



```

142 #
143 # Example:
144 # com.openexchange.omf.source.metadata.brandProvider=configCascade
145 # com.openexchange.omf.source.metadata.brandProvider=single
146 #
147 # This configuration setting is optional and there is not a default
148 com.openexchange.omf.source.metadata.brandProvider=
149
150 # When using the configCascade brand provider, configures the name
151 # of the property that contains the brand information.
152 #
153 # Is mandatory when using the configCascade brand provider and has
154 # no default value.
155 #
156 # Example:
157 # com.openexchange.omf.source.metadata.brandProvider.configCascade.propertyName=config/io.
    ox/core//theme
158 #
159 com.openexchange.omf.source.metadata.brandProvider.configCascade.propertyName=
160
161 # When using the configCascade brand provider, configures the optional
162 # default value that should be used when there is not a value found at the context
163 # level for the property configured in com.openexchange.omf.source.metadata.brandProvider.
    configCascade.propertyName
164 #
165 # This property is optional. When not used, the brand will not be provided.
166 #
167 # Example:
168 # com.openexchange.omf.source.metadata.brandProvider.configCascade.default=defaultBrand
169 #
170 com.openexchange.omf.source.metadata.brandProvider.configCascade.default=
171
172 # When using the configCascade brand provider, optionally maps
173 # the values from the property defined above to another value that is
174 # then exported as the brand information.
175 #
176 # Syntax:
177 # com.openexchange.omf.source.metadata.brandProvider.configCascade.map.<from>=<to>
178 #
179 # Example:
180 # com.openexchange.omf.source.metadata.brandProvider.configCascade.map.pink_theme=brand1
181 #
182 # com.openexchange.omf.source.metadata.brandProvider.configCascade.map.<from>=
183
184 # The following property is only used when installing the open-xchange-omf-source-
    mailfilter
185 # package. Otherwise, you can ignore it.
186 #
187 # The master authentication password to use when using the core mailfilter provider.
188 # If the core mail filter properties are already configured to use master password,
189 # or per user passwords will be supplied by OMF, then there is no need to use this.
190 com.openexchange.omf.source.mailfilter.masterPassword=
191
192 # The following property is only used when installing the open-xchange-omf-source-
    mailfilter
193 # package. Otherwise, you can ignore it.
194 #
195 # When using SASL PLAIN authentication, it's possible to specify an authentication user
    which
196 # is normally selected from the user's credentialSource, however, the auth user can be
197 # overridden here. This is useful when master auth uses a master user.
198 # This property is optional.
199 com.openexchange.omf.source.mailfilter.masterUser=
200
201 # The following property is only used when installing the open-xchange-omf-source-
    mailfilter
202 # package. Otherwise, you can ignore it.
203 #
204 # Format the username with printf style format. This is useful when a separate pair of
    credentials
205 # have been setup for mail migration. For instance, if the username is jon.doe@domain and
    you

```

```

206 # specify a userFormat of "mig-%s" then the username will be "mig-jon.doe@domain".
207 # This property is optional.
208 com.openexchange.omf.source.mailfilter.userFormat=
209
210 # The following property is only used when installing the open-xchange-omf-source-
211 # mailfilter
212 # package. Otherwise, you can ignore it.
213 #
214 # Format the authname with printf style format. For instance, if the authname is jon.
215 #   doe@domain
216 # and you specify an authFormat of "mig-%s" then the authname will be "mig-jon.doe@domain
217 # ".
218 # This property is optional.
219 com.openexchange.omf.source.mailfilter.authFormat=
220
221 # The following property is only used when installing the open-xchange-omf-source-
222 # mailfilter
223 # package. Otherwise, you can ignore it.
224 #
225 # Override the configured mailfilter server.
226 # This property is optional.
227 com.openexchange.omf.source.mailfilter.server=
228
229 # The following property is only used when installing the open-xchange-omf-source-
230 # mailfilter
231 # package. Otherwise, you can ignore it.
232 #
233 # Override the configured mailfilter port. Only used when server is also overridden.
234 # This property is optional.
235 # Default: 4190
236 com.openexchange.omf.source.mailfilter.port=
237
238 # If the mail filter hierarchy separator character (delimiter) that is used on
239 # the Source IMAP server differs from the character used on the Target, then
240 # the Source character will need to be mapped to the Target, and any reference
241 # of the Target character will need to be escaped.
242 # Reference: https://datatracker.ietf.org/doc/html/rfc3501#section-5.1.1
243 #
244 # If mail filters will not be migrated by OMF or the delimiters are the same
245 # on each system, then there is no need to use these properties.
246 #
247 # Specify the Source delimiter with:
248 #   com.openexchange.omf.source.mailfilter.sourceDelimiter
249 # Specify the Target delimiter with:
250 #   com.openexchange.omf.source.mailfilter.targetDelimiter
251 # Specify the Target delimiter escape character with:
252 #   com.openexchange.omf.source.mailfilter.targetEscapeChar
253
254 # Configure Standard folder names that should be mapped from one value to another during
255 # the mail filter migration process.
256 # For example, if you instruct OMF to map folder Draft to Drafts, then a reference in a
257 # mail filter of Draft.Subfolder would end up as Drafts.Subfolder.
258 # Note: this only takes care of cases when the Standard folder is at the root, so
259 #   cases like INBOX.Draft.Subfolder will stay as is.
260 #
261 # There is no default value.
262 #
263 # Format:
264 #   com.openexchange.omf.source.mailfilter.folder.<fromfoldername>=<tofoldername>
265 #
266 # Example:
267 #   com.openexchange.omf.source.mailfilter.folder.Draft=Drafts
268 #   com.openexchange.omf.source.mailfilter.folder.Drafts=Draft
269
270 # When usernames (uid) are not unique, a different strategy needs to be used to determine
271 # what to send as the username (uid) as part of the metadata.
272 #
273 # Built-in strategies are:
274 # - uid: it's the default and uses the 'uid' field from the 'login2user' table
275 # - email: uses the 'mail' field from the 'user' table
276 # - brand: concatenates the following fields with '_':
277 #   * 'uid' field from the 'login2user' table

```

```
273 # * the numeric user id
274 # * the numeric context id
275 # * the source name
276 # * the target brand
277 # - brandcontext: concatenates the following fields with '_':
278 # * 'uid' field from the 'login2user' table
279 # * the numeric user id
280 # * the numeric context id
281 # * the context name
282 # * the source name
283 # * the target brand
284 #
285 # Note that using 'brand' or 'brandcontext' requires a target brand strategy to be
286 # enabled and selected using the property com.openexchange.omf.source.metadata.
    brandProvider,
287 # as well as a source name to be set in com.openexchange.omf.source.dualprovision.
    sourceName.
288 #
289 # Using 'brandcontext' also incurs a slight performance penalty since it requires
    resolving
290 # the context name from the context id using the 'context' table in the configdb.
291 #
292 # It can also be configured as a chain of strategies to attempt, with the
293 # leftmost strategy winning (first hit wins), e.g.:
294 # com.openexchange.omf.source.metadata.usernameStrategy=email, uid
295 #
296 # Note that this property is optional, defaulting to using the 'uid' column.
297 #
298 # If the architecture of the Source is Cloud-Plugins, then this property must be empty or
    'uid'
299 #
300 # Example:
301 # com.openexchange.omf.source.metadata.usernameStrategy=email
302 com.openexchange.omf.source.metadata.usernameStrategy=
303
304 # Comma separated list of user attributes that should be included in source metadata
305 #
306 # Example:
307 # com.openexchange.omf.source.metadata.userAttributes=foo,bar,spam
308
309 # Comma separated list of database table names that should be excluded from the migration
310 # Example:
311 # com.openexchange.omf.source.database.export.excludedTableNames=myTable1,anotherTable2
312 com.openexchange.omf.source.database.export.excludedTableNames=
313
314 # The connect timeout for all outbound HTTP/REST requests.
315 #
316 # Example:
317 # com.openexchange.omf.http.connect.timeout=2m
318 #
319 # Defaults to 1m.
320 com.openexchange.omf.http.connect.timeout=1m
321
322 # The read timeout for all outbound HTTP/REST requests.
323 #
324 # Example:
325 # com.openexchange.omf.http.read.timeout=10m
326 #
327 # Defaults to 5m.
328 com.openexchange.omf.http.read.timeout=5m
329
330 # The write timeout for all outbound HTTP/REST requests.
331 #
332 # Example:
333 # com.openexchange.omf.http.write.timeout=10m
334 #
335 # Defaults to 5m.
336 com.openexchange.omf.http.write.timeout=5m
337
338 # The read timeout for slow outbound HTTP/REST requests.
339 #
340 # Example:
```

```
341 # com.openexchange.omf.http.slow.read.timeout=20m
342 #
343 # Defaults to 30m.
344 com.openexchange.omf.http.slow.read.timeout=30m
345
346 # The write timeout for slow outbound HTTP/REST requests.
347 #
348 # Example:
349 # com.openexchange.omf.http.slow.write.timeout=12m
350 #
351 # Defaults to 30m.
352 com.openexchange.omf.http.slow.write.timeout=30m
```