



OX2OX Migration Framework Source Technical Documentation

for
2.1.0

2021-09-01

Copyright notice

©2021 by OX Software GmbH. All rights reserved. Open-Xchange and the Open-Xchange logo are trademarks or registered trademarks of OX Software GmbH. All other company and/or product names may be trademarks or registered trademarks of their owners. Information contained in this document is subject to change without notice.



Contents

1	General Information	2
1.1	Warnings	2
1.2	Delivery Comment	2
1.3	Install Package Repository	2
1.4	Build Dependencies	2
1.5	Notice	3
2	Shipped Packages and Version	3
2.1	Package open-xchange-omf-source	3
2.1.1	Installation	3
2.1.2	Configuration	3
2.2	Package open-xchange-omf-source-dualprovisioning	3
2.2.1	Installation	3
2.3	Package open-xchange-omf-source-guard	4
2.3.1	Installation	4
2.4	Package open-xchange-omf-source-mailfilter	4
2.4.1	Installation	4
A	Configuration Files	4

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 14

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-7.10.4>
<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

1.4 Build Dependencies

This delivery was build with following dependencies:

`frontend-7.8.4-rev65,guard-2.8.0-rev22,backend-7.10.4-rev25,`

```
guard-2.10.4-rev7,backend-7.10.3-rev34,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: 2.1.0-14

Type: OX Middleware Plugin

Depends on:

```
open-xchange-core (<<7.10.5)
open-xchange-core (>=7.8.4)
open-xchange-rest (<<7.10.5)
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 [8](#))

2.2 Package open-xchange-omf-source-dualprovisioning

OMF Dual-Provisioning Feature

Version: 2.1.0-14

Type: OX Middleware Plugin

Depends on:

```
open-xchange-admin (<<7.10.5)
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: 2.1.0-14

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: 2.1.0-14

Type: OX Middleware Plugin

Depends on:

```
open-xchange-core (<<7.10.5)
open-xchange-core (>=7.8.4)
open-xchange-mailfilter (<<7.10.5)
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 webservices
3  # Parameter is mandatory
4  #
5  com.openexchange.omf.source.webserviceLogin=
6
7  #
8  # The password of the user allowed to access the webservices
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
    endpoint.
26 # Note that this configuration setting is only applied when the URL the
27 # target AppSuite endpoints are using the HTTPS protocol.
28 #
29 # The default value is empty, which causes the use of the CA certificates that are bundled
30 # with the Java Runtime Environment.
31 #
32 # Example:
33 # com.openexchange.omf.source.ssl.truststore.file=/opt/open-xchange/omf/source-keystore.
    jks
34 #
35 # Example for using the bundled CA certificates:
36 # com.openexchange.omf.source.ssl.truststore.file=
37 com.openexchange.omf.source.ssl.truststore.file=
38
39 # The password to use to open the JKS trust store file.
40 # Only relevant when the configuration parameter above has been set.
41 # Leave empty if no password is necessary (which is the common practice and, hence, the
    default).
42 #
43 # Example:
44 # com.openexchange.omf.source.ssl.truststore.password=
45 # com.openexchange.omf.source.ssl.truststore.password=secret
46 com.openexchange.omf.source.ssl.truststore.password=
47
48 # Should the dual provisioning be enabled?
49 # Dual provisioning ensures send mail related provisioning requests to the migration
    target
50 # Default: false
51 #
52 # Note that the dual provisioning feature also requires the open-xchange-omf-source-
    dualprovisioning
53 # package to be installed.
54 com.openexchange.omf.source.dualprovision.enabled=false
55
56 # Migration target URL
57 # Parameter is mandatory
58 # Example: https://provisioning.example.com
59 com.openexchange.omf.source.dualprovision.targetUrl=
60
61 # Migration source name
62 # Parameter is mandatory
63 # An alias for this this system used as migration source. The name must be known to the
    target.
64 # Example: foo.customer.site
65 com.openexchange.omf.source.dualprovision.sourceName=
66
67 # Brand usernames and passwords to use to authenticate when provisioning users
68 # using the Dual-Provisioning feature.
69 #
70 # Format:
71 # com.openexchange.omf.source.dualprovision.targetBrandPassword.<brandName>=<password>
72 #
73 # Example:
74 # com.openexchange.omf.source.dualprovision.targetBrandPassword.acme=secret
75 # com.openexchange.omf.source.dualprovision.targetBrandPassword.name.of.the.brand=
    super_secret
76 #
77 # Note that when the com.openexchange.omf.source.metadata.brandProvider property is
78 # set to 'single', then there should only be a single such entry, as exemplified below:
79 # com.openexchange.omf.source.metadata.brandProvider=single
80 # com.openexchange.omf.source.dualprovision.targetBrandPassword.acme=secret
81 # With that configuration above, new contexts will be provisioned into the target
82 # brand "acme", using "acme:secret" as the basic authentication credentials to do so.
83 #
84 # This setting is mandatory and has no default value.
85
86 # com.openexchange.omf.source.dualprovision.targetBrandPassword.<brandName>=<password>
87
```

```

88 # Login resolver strategy: how should logins be determined when exporting metadata.
89 #
90 # Two strategies are available:
91 # * cloudplugins: mailLogin = {userId}@{contextId}
92 # * loginsource: mailLogin = depends on the value of the config cascade aware
    configuration
93 #     property com.openexchange.mail.loginSource
94 #
95 # The parameter is optional and defaults to loginsource.
96 #
97 # Examples:
98 # com.openexchange.omf.source.loginResolver=cloudplugins
99 # com.openexchange.omf.source.loginResolver=loginsource
100 #
101 com.openexchange.omf.source.metadata.loginResolver=loginsource
102
103 # The method to use to determine the brand to use when creating contexts
104 # on the Target tier, which is used in two mechanisms:
105 # - in the Source metadata, which is used for the pre-provisioning operations,
106 # - in the Dual-Provisioning feature.
107 #
108 # For Source metadata and pre-provisioning operations, this setting determines the
109 # name of the plugin to use to push the brand to use for provisioning contexts and
110 # users on the target side by including it in the metadata.
111 # Not populated if left empty.
112 #
113 # For Dual Provisioning, that brand both determines the authentication credentials
114 # to use (specifically the basic authentication username) as well as in which target
115 # brand the context ought to be created.
116 # The matching password is configured using the property
117 # com.openexchange.omf.source.dualprovision.targetBrandPassword.<brandName>=<password>
118 #
119 # Built-in providers:
120 # - configCascade: looks up a configurable property via config cascade, optionally maps it
    and
121 #     injects that as the brand
122 # - single: uses the brand credentials configuration properties to determine the brand,
    requiring
123 #     that one and only one set of credentials is configured that way
124 #
125 # Example:
126 # com.openexchange.omf.source.metadata.brandProvider=configCascade
127 # com.openexchange.omf.source.metadata.brandProvider=single
128 #
129 # This configuration setting is optional and defaults to "single".
130 com.openexchange.omf.source.metadata.brandProvider=
131
132 # When using the configCascade brand provider, configures the name
133 # of the property that contains the brand information.
134 #
135 # Is mandatory when using the configCascade brand provider and has
136 # no default value.
137 #
138 # Example:
139 # com.openexchange.omf.source.metadata.brandProvider.configCascade.propertyName=config/io.
    ox/core//theme
140 #
141 com.openexchange.omf.source.metadata.brandProvider.configCascade.propertyName=
142
143 # When using the configCascade brand provider, configures the optional
144 # default value that should be used when there is not a value found at the context
145 # level for the property configured in com.openexchange.omf.source.metadata.brandProvider.
    configCascade.propertyName
146 #
147 # This property is optional. When not used, the brand will not be provided.
148 #
149 # Example:
150 # com.openexchange.omf.source.metadata.brandProvider.configCascade.default=defaultBrand
151 #
152 com.openexchange.omf.source.metadata.brandProvider.configCascade.default=
153
154 # When using the configCascade brand provider, optionally maps

```



```
155 # the values from the property defined above to another value that is
156 # then exported as the brand information.
157 #
158 # Syntax:
159 # com.openexchange.omf.source.metadata.brandProvider.configCascade.map.<from>=<to>
160 #
161 # Example:
162 # com.openexchange.omf.source.metadata.brandProvider.configCascade.map.pink_theme=brand1
163 #
164 # com.openexchange.omf.source.metadata.brandProvider.configCascade.map.<from>=
165
166 # The following property is only used when installing the open-xchange-omf-source-
  mailfilter
167 # package. Otherwise, you can ignore it.
168 #
169 # The master authentication password to use when using the core mailfilter provider.
170 # If the core mail filter properties are already configured to use master password,
171 # then this property will not be used.
172 com.openexchange.omf.source.mailfilter.masterPassword=
173
174 # If the mail filter hierarchy separator character (delimiter) that is used on
175 # the Source IMAP server differs from the character used on the Target, then
176 # the Source character will need to be mapped to the Target, and any reference
177 # of the Target character will need to be escaped.
178 # Reference: https://datatracker.ietf.org/doc/html/rfc3501#section-5.1.1
179 #
180 # If mail filters will not be migrated by OMF or the delimiters are the same
181 # on each system, then there is no need to use these properties.
182 #
183 # Specify the Source delimiter with:
184 # com.openexchange.omf.source.mailfilter.sourceDelimiter
185 # Specify the Target delimiter with:
186 # com.openexchange.omf.source.mailfilter.targetDelimiter
187 # Specify the Target delimiter escape character with:
188 # com.openexchange.omf.source.mailfilter.targetEscapeChar
189
190 # When usernames (uid) are not unique, a different strategy needs to be used to determine
191 # what to send as the username (uid) as part of the metadata.
192 #
193 # Built-in strategies are:
194 # - uid: it's the default and uses the 'uid' field from the 'login2user' table
195 # - email: uses the 'mail' field from the 'user' table
196 # - brand: concatenates the following fields with '_':
197 #   * 'uid' field from the 'login2user' table
198 #   * the numeric user id
199 #   * the numeric context id
200 #   * the source name
201 #   * the target brand
202 # - brandcontext: concatenates the following fields with '_':
203 #   * 'uid' field from the 'login2user' table
204 #   * the numeric user id
205 #   * the numeric context id
206 #   * the context name
207 #   * the source name
208 #   * the target brand
209 #
210 # Note that using 'brand' or 'brandcontext' requires a target brand strategy to be
211 # enabled and selected using the property com.openexchange.omf.source.metadata.
  brandProvider,
212 # as well as a source name to be set in com.openexchange.omf.source.dualprovision.
  sourceName.
213 #
214 # Using 'brandcontext' also incurs a slight performance penalty since it requires
  resolving
215 # the context name from the context id using the 'context' table in the configdb.
216 #
217 # It can also be configured as a chain of strategies to attempt, with the
218 # leftmost strategy winning (first hit wins), e.g.:
219 # com.openexchange.omf.source.metadata.usernameStrategy=email, uid
220 #
221 # Note that this property is optional, defaulting to using the 'uid' column.
222 #
```

```
223 # If the architecture of the Source is Cloud-Plugins, then this property must be empty or
    # 'uid'
224 #
225 # Example:
226 # com.openexchange.omf.source.metadata.usernameStrategy=email
227 com.openexchange.omf.source.metadata.usernameStrategy=
```