



Building XchangeCore from Open Source Code

XchangeCore Software Version 2.X

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The XchangeCore Community

www.XchangeCore.com



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1.0 Scope

1.1 Identification

This document applies to the XchangeCore Web Service Data Orchestration.

1.2 Document Overview

This document describes how to obtain the XchangeCore Open Source code and the steps to compile the code.

2.0 XchangeCore on GitHub

The XchangeCore open source code are posted on GitHub. The url is <https://GitHub.com/XchangeCore>. is a Git repository with source code management functionality of Git. If you are not familiar with Git, these links provide a good introduction and references.

- <http://git-scm.com/book/en/v2/Getting-Started-Git-Basics>
- <http://rogerdudler.github.io/git-guide/>

3.0 How to Build XchangeCore

3.1 Build Environment

The followings are the required:

1. Git installed. For example: Git for Windows, <https://git-for-windows.github.io/> , or for linux users, use apt package management tools to install git, \$ sudo apt-get install git.
2. Java 1.8 jdk installed.
3. Apache Maven installed.
4. Cywin installed (for Windows environment).

3.2 XchangeCore code from GitHub

3.2.1 How to build

The XchangeCore's core code are broken up into multiple repositories on github. To build, follow the steps below:

1. Execute “git clone https://github.com/xchangecore/xchangecore-core”
2. Change directory to the cloned xchangecore-core directory
3. Execute “git clone https:// github.com/xchangecore/infra-services”
4. Execute “git clone https:// github.com/xchangecore/infra-xmpp”
5. Execute “git clone https:// github.com/xchangecore/infra-xmpp-tools”
6. Execute “git clone https:// github.com/xchangecore/em-services”
7. Execute “git clone https:// github.com/xchangecore/em-processes”
8. Execute “git clone https:// github.com/xchangecore/em-war”
9. All the cloned repositories from step 3 to step 8 are now the subdirectories of xchangecore-core
10. From a cywin terminal, change directory to the xchangecore-core directory
11. Run “maven clean install -Pmssql -Dmaven.test.skip” to build the code for Windows install.
Run “maven clean install -Pmysql -Dmaven.test.skip” to build the code for Linux install.



If the build is successful, the xchangecore-2.0.0.war file can be found in the xchangecore-core\em-war\target directory. The war file essentially is a zip file which contains all the compiled XchangeCore jar files.

3.2.2 Maven Repository

The maven repository provides artifacts for download during build. The XchangeCore maven repository is also on github. The url of XchangeCore maven repository is <https://github.com/xchangecore/xchangecore-mvn-repo/raw/master>. This maven repository is being specified in the build pom file. This pom.xml file can be found in the xchangecore-core directory.

3.2.3 Xmlbeans

The xmlbeans are the schemas . The xmlbeans artifacts are in the XchangeCore maven repository. However, if for some reason, you want to change the schema, use git clone to get the appropriate xmlbeans code from github as in section 3.2.1 step 3 to step 8. The url for the the xmlbeans are:

- <https://github.com/xchangecore/xmlbeans-infrastructure>
- https://github.com/xchangecore/xmlbeans-edxl_rm
- <https://github.com/xchangecore/xmlbeans-em>
- <https://github.com/xchangecore/xmlbeans-have>

After changes to the xmlbeans, uncomment the specific xmlbeans <module> in the pom.xml file in xchangecore-core directory and rebuild the code as discussed in section 3.2.1

3.3 How to deploy the new jar files

This section assumed you have an XchangeCore installed and running. The following are the steps to deploy the new compiled jar files.

1. Stop tomcat
2. Extract the xchangecore-2.0.0.war file
3. Replace the changed jar file(s) in the XchangeCore\ServerApps\xchangecore\WEB-INF\lib directory
4. Restart tomcat