

## [DocV1.WhatisthestructureoftheeXoPlatformsources](#)

### The eXo Platform sources structure

The code source of eXo Platform is quite large but it is still quite to find the information you need. The next picture provides and expanded view of the sources structure. It is important to see that as much as we can, we have splitted the code in two parts the api/ and the impl/ dir (especially for the services).

```

+---build main exoplatform build directory, the developer can | +---conf
use maven multiproject:clean , multiproject:install, | +---env
exo:platform:deploy to clean, build and deploy the | +---info
exoplatform | ---src | +---application | +---database database script
and configuration for different database type. | +---exo-jboss |
+---exo-jetty specific J2EE server configuration | +---exo-jonas |
---exo-tomcat +---business-processes | +---holiday JBPM workflow process
sample | ---payraise +---commons | ---src | +---java common classes ,
util that share accross the platform, | ---test like jakarta-common
project +---container | +---conf | ---src The kernel container of
exoplatform. The container is an | +---conf extended implementation of
Piconcontainer to support | +---java configuration, jmx , monitor..... |
| +---conf | | | ---portal | | | ---session | | | ---org | |
---exoplatform | | | ---container | | | +---configuration the
container/component configuration data model and its xml parser | |
+---env OS, J2EE , JVM environment component | | +---groovy Groovy
classloader , and sript management implementation | | +---jmx JMX
adapter implementation | | +---mocks mock component for testing | |
+---monitor container monitor component implementation | | ---util Some
util class to build the container | ---test +---jsf-components | ---src
exoplatform jsf core component implementation | +---java | | +---conf |
| | ---portal | | | ---org | | | ---exoplatform | | | ---faces |
+---application | | +---core | | | +---component core component such
UIInput , UISimpleForm .... | | | | | ---model | | | +---event | | |
+---renderer | | | | +---html jsf component renderer for core component
| | | | ---xhtmlmp some recustomize renderer for the mobile device | | |
---validator component validator for UIInput , form ..... | | ---search
| | +---component search component that reuse in forum , message, | | |
---model content portlet ..... | | ---renderer | | ---html | ---test
+---lib | +---excalibur-component third party jar file that are not
available in the maven | +---excalibur-store public repository | |
---wars | +---saaj | | ---jars | ---struts | ---jars +---maven-plugins
exo maven plugin. This plugin use to build exo services, portlets |
---exo and deploy to different j2ee server | ---src | ---java +---portal
exo jsf portal component implementation such UIPortal, UIPage | +---api
All the interfaces to query the portal | +---impl | | ---src UIPortlet
..... | | ---java | | +---conf | | | ---portal | | | ---org | |
---exoplatform | | +---faces | | | ---user | | | ---portal | | | +---faces |
| | | +---component | | | +---event | | | +---listener | | | +---renderer
| | | +---html | | | | | ---xhtmlmp | | | | | ---tags | | | +---filter | |
+---launcher +---portlet-framework | +---cocoon Cocoon bridge
implementation, this bridge allow the developer | | ---src to port the
existing cocoon application to the exo portal world. | | +---java | |
---test | +---exomvc exomvc framework that allow developer develop the
portlet with | | ---src different view technology such jsp , velocity ,

```

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groovy..... | | ---java | +---jsf | | ---src jsf extension to support
jsf in portlet | | ---java | ---struts struts bridge implementation .
this bridge allow the developer to port | ---src the existing struts
application to exo portal. | ---java +---portlets | +---core | |
+---admin exo admin portlets such , log , monitor, resources bundle
management... | | | ---src | | | +---java | | | ---webapp | |
+---communications communitcation portlets such forum , mail portlet ,
sms ..... | | | ---src | | | +---java | | | ---webapp | | | +---content
file , jcr explorer portlet , content search portlet , content portlet..
| | | ---src | | | +---java | | | ---webapp | | | +---exomvc some exomvc
sample portlet with velocity , jsp , groovy | | | ---src | | | +---java
| | | ---webapp | | | +---navigation menu , toolbar portlets..... | | |
---src | | | +---java | | | ---webapp | | | +---user user profile , login
, user management portlet..... | | | ---src | | | +---java | | |
---webapp | | | +---web rss portlet... | | | ---src | | | +---java | | |
+---test | | | ---webapp | | | +---workflow jbpm work flow portlet... | | |
---src | | | +---java | | | ---webapp | | | ---wsrp wsrp admin and
consumer portlets | | | +---src | | | +---java | | | ---webapp | | | ---ext |
---weather weather portlet that use soap protocol to access a weather
server. | | | ---src | | | +---java | | | ---webapp +---services | | | +---backup A
backup framework to backup database for the other services. | | | +---api
| | | ---impl | | | +---cms cms service that import on top of a jcr 170
service | | | +---api | | | ---impl | | | +---common some basic and common
service such logging, task service..... | | | +---api | | | ---impl |
+---communication Forum , message , sms services api and implementation
| | | +---api | | | ---impl | | | +---database some database related services
such hibernate, datasource configuration... | | | +---api | | | ---impl |
+---id-generator a portable api and implementation of key generator for
exoplatform | | | +---api | | | ---impl | | | +---indexing an indexing framework
that implement on top of jakarta lucene | | | +---api | | | ---impl |
+---jcr jsr 170 implementation | | | +---api | | | ---impl | | | +---ldap ldap
service that provide some configuration and easy to use interface to | | |
+---api access a ldap server | | | ---impl | | | +---organization user , group
, membership api and implementation. | | | +---api | | | ---impl |
+---portal portal service that manage the portal configuration
(portal-config.xml , | | | +---api pages.xml , navigation.xml). | | |
---impl | | | +---portlet-container jsr 168 implementation | | | +---api | | |
---impl | | | +---portlet-registery This service manage the acess role and
permission of a portlet and | | | +---api portlet application | | | ---impl
| | | +---resources This service manage the resource bundle properties file.
The service save | | | +---api the properties file to the database on the
first read and the admin can | | | ---impl recustomize the resource via
resource portlet | | | +---security | | | +---api This service manage the
authentication and maintain the list of the online user | | | ---impl |
+---workflow | | | +---api jbpm extension to support exoplatform | | |
---impl | | | +---wsrp | | | +---api web service remote portlet implementation
| | | ---impl | | | ---xml-processing this service allow developer query and
transform an xml data file | | | +---api | | | ---impl +---test | | | +---framework
some junit extension and mock classes | | | ---src | | | +---java | | |
---test | | | ---org | | | +---webunit-framework exo web unit test framework ,
it implements on top of httpunit | | | ---src | | | ---java |
---webunit-suites exo portal test suites. They are written in grrovy and
use exo web | | | +---src unit test framework | | | ---groovy ---web
+---portal | | | ---src portal instance configuration ..... | | | ---webapp |
+---images | | | ---banner | | | ---WEB-INF | | | +---classes | | | ---locale | | |
+---custom the resource bundle properties file of the portal | | |
+---portal | | | ---users | | | +---conf configuration.xml that override the
default configuration in service jar file | | | +---content | | |
+---admin pre configuration data for the portal. | | | +---exo | | |
+---community the data file should be copied to the jcr on | | |
+---company the first portal launch. | | | +---press | | | +---portal |
| | | ---products | | | ---template | | | ---community | | | ---users |
+---groovy Some customize goovy scrip for the portal such | | | ---org new
user listener groovy script. | | | ---exoplatform ---skin ---src ---webapp

```

```
Shared skin for the portals... +---components | +---ic3-button | ---search
+---container | ---images +---decorators | ---ic3-border +---icons |
+---blue-lagoon-tab | +---dark-blue-tab | +---metal-tab |
---page-template +---images | +---calendar | +---flags | ---icons +---js
| ---calendar | ---lang +---portal +---portlet | +---decorators | |
+---box-2 | | | ---icons | | +---box-3 | | +---box-4 | | +---box-5 | |
+---default-action-icons | | ---info-company | | ---icons | ---styles |
---images
```

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