

# Settings

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## 1. Settings simBio\_JavaSpacesClient

Software settings for simBio\_JavaSpacesClient.

### 1.1. Configure ServiceURL and Codebase

When running protocol XML-files on simBio\_JavaSpaces the file needs some additional tags. These are the ServiceURL and Codebase tags. You need to change the ServiceURL and Codebase so it fits your system. The tag **service URL** is the simBio\_JavaSpaces servers IP number and the tag **codebase/URLset URL** is the base URL path for the code, which start with the clients IP number followed by the port number. The codebase for simBio\_JavaSpacesClient's JAR Archive are required.

Below shows an example of ServiceURL and Codebase for a protocol XML-file with the servers IP number 10.238.63.40 and the client IP number 10.238.63.14 using port 8083.

```
<service URL="jini://10.238.63.40" />
<codebase>
  <URLset
URL="http://10.238.63.14:8083/simBio/lib/simBio_JavaSpacesClient-1.0.jar" />
</codebase>
```

### 1.2. Settings http server

After following the instruction, [Getting simBio JavaSpaces and simBio JavaSpacesClient](#), some editing of the DOS batch file httpd.bat or the UNIX/LINUX Shell Script httpd.sh, depending on which operating systems the http server are running on, may be needed. The files are found in the bin folder of the simBio\_JavaSpacesClient project.

The following script shows an example of the DOS batch file httpd.bat, where **-jar "../lib/tools.jar"** is the file path for one of Jinis Java class libraries and the relative path **-dir "../../"** will together with the path for Codebase, see [Change the ServiceURL and Codebase so it fits your system](#), give the absolute path for the code to the simBio\_JavaSpaces workers.

```
@ECHO OFF
REM
REM start class server
REM this script is assumed to be located at project\bin
REM
start "httpd class server" java -jar "../lib/tools.jar" -port 8083 -dir "../../"
-trees -verbose
```

#### Using another PC

It is recommended to execute the http server on the same PC as the client. This is however not necessary.

### 1.3. Settings RemoteClient

After following the instruction, [Getting RemoteClient](#), a remote node file, remoteNode.xml, is needed to get the RemoteClient to find the simBio\_JavaSpaces workers.

To make it easier a sample file has been created, remoteNode.xml.sample, which may be use to create the remoteNode.xml file.

Below is an example of a remoteNode.xml file.

```
<worker>
  <!-- Windows Worker 1 -->
  <!-- element, Sodium -->
  <address>10.238.63.40</address>
  <!-- element, Magnesium -->
  <address>10.238.63.39</address>
  <!-- element, Alminium -->
  <address>10.238.63.43</address>
  <!-- element, Silicon -->
  <address>10.238.63.42</address>
  <!-- element, Phosphorus -->
  <address>10.238.63.41</address>
</worker>
```

## 2. Settings simBio\_JavaSpaces

Software settings for simBio\_JavaSpaces servers and workers.

### 2.1. Settings simBio\_JavaSpaces servers

#### 2.1.1. Settings batch file/Shell Script for simBio\_JavaSpaces servers

After following the installation instruction, [Install simBio JavaSpaces servers](#), some editing of the DOS batch file startJavaSpaces.bat or the UNIX/LINUX Shell Script startJavaSpaces.sh, depending on which operating systems the simBio\_JavaSpaces servers are running on, may be needed. Verify that the environment variable JINI\_HOME is correct.

### 2.2. Settings simBio\_JavaSpaces workers

#### 2.2.1. Settings batch file/Shell Script for simBio\_JavaSpaces workers

After following the installation instruction, [Install simBio JavaSpaces workers](#), some editing of the DOS batch files startWorker.bat and stopWorker.bat or the UNIX/LINUX Shell Scripts stopWorker.sh and stopWorker.sh, depending on which operating systems the simBio\_JavaSpaces workers are running on, may be needed. Verify that the environment variable SIMBIO\_HOME is correct for both files. Also check that the environment variable WORKER\_THREAD in startWorker is as desired.

#### 2.2.2. Settings simBioServer properties files

To get the workers to find the simBio\_JavaSpaces server, a simBioServer properties file is needed. This is however not true if only one server are installed on the network, then the workers will find it without a simBioServer properties file. It is however recommended to have a simBioServer properties file. This file was created during the installation instruction, [Install simBio JavaSpaces workers](#) at the file path SIMBIO\_HOME/conf/. Correct the simBioServer properties files to point out the servers IP number.

Shown below is an example of a simBioServer.properties file with the servers IP number 10.238.63.40.

```
org.simBio.sim.js.jini.ServiceLocator.URL=jini://10.238.63.40
```