



## → Embedded Web Server

### Starter class

OpenMobileIS provides a "Starter" to run its embedded web server.

The "Starter" class is:

`org.openmobileis.embedded.webserver.StartWebServer`.

Its main method starts the web server, looking for its configuration file ('`properties/webserver.properties`').

Depending on the jvm used, the '`properties/webserver.properties`' will or will not be found in the classpath. If the jvm does not look for files into its classpath (as it's the case with IBM's j9), the `StartWebServer` main method accepts a parameter, which is the absolute path to the directory containing '`properties/webserver.properties`'.

### Configuration files

#### - Main configuration file

When starting, the embedded webserver parses its main configuration file (`properties/webserver.properties`). It can contain three properties :

`port=<port-number>` (*optional*)

This is of course the port number the web server will be listening on. If not declared, the webserver will listen on port 8080 by default.

`.installPath=<install-path>` (*required*)

This is the execution directory of the web server. This is important, as it will be the path added in the `getRealPath()` method of the servlets loaded by the web server.

`servletFile=<servlet-configuration-file>` (*required*)

Just as Tomcat, the embedded web server parses a file, where servlets are declared. This configuration file is detailed in the coming part.

#### - Servlet configuration file

This servlet configuration file is more simple than Tomcat one's. It can only take two types of arguments

`servlet.<servlet-name>.code=<servlet-class>`

`servlet.<servlet-name>.initArgs=<name=value>,<name=value>`

These arguments have to be repeated for each servlet declared.

In order to run Open Mobile IS, we need to declare the `openmis` servlet, with the right init arguments. We also need to declare the `file` servlet, provided by the project, as the default servlet. Indeed, Open Mobile IS' embedded web server does not have any default action to do when no servlet is found.

Declaring the `file` servlet as the default servlet allows to retrieve files (images for example) on the server. The servlet file then looks like :

```
servlet.services.code=org.openmobileis.services.servlet.OpenMISServlet servlet.services.initArgs=org.openmis.services.conf:file=/WEB-INF/conf/properties/openmis.properties servlet.defaultServlet.code=org.openmobileis.services.servlet.FileServlet servlet.defaultServlet.initArgs=htdocs=/htdocs
```

The argument taken by the `file` servlet (`htdocs=<htdocs-dir>`) defines the base directory where the servlet will look for files. If not defined, the base directory will be `<installPath>`, as defined in the server's main configuration file. Otherwise, it will be `<installPath>/<htdocs-dir>`.

The arguments taken by `openmis` servlet will be detailed in the next part.

To request a servlet the URI is constituted as follow:

`/<servlet-name>`.

For example these servlet properties :

`servlet.myservlet.code=org.openmobileis.services.servlet.MyServlet`

`servlet.myservlet.initArgs=` can be request with the URI: `/myservlet`