

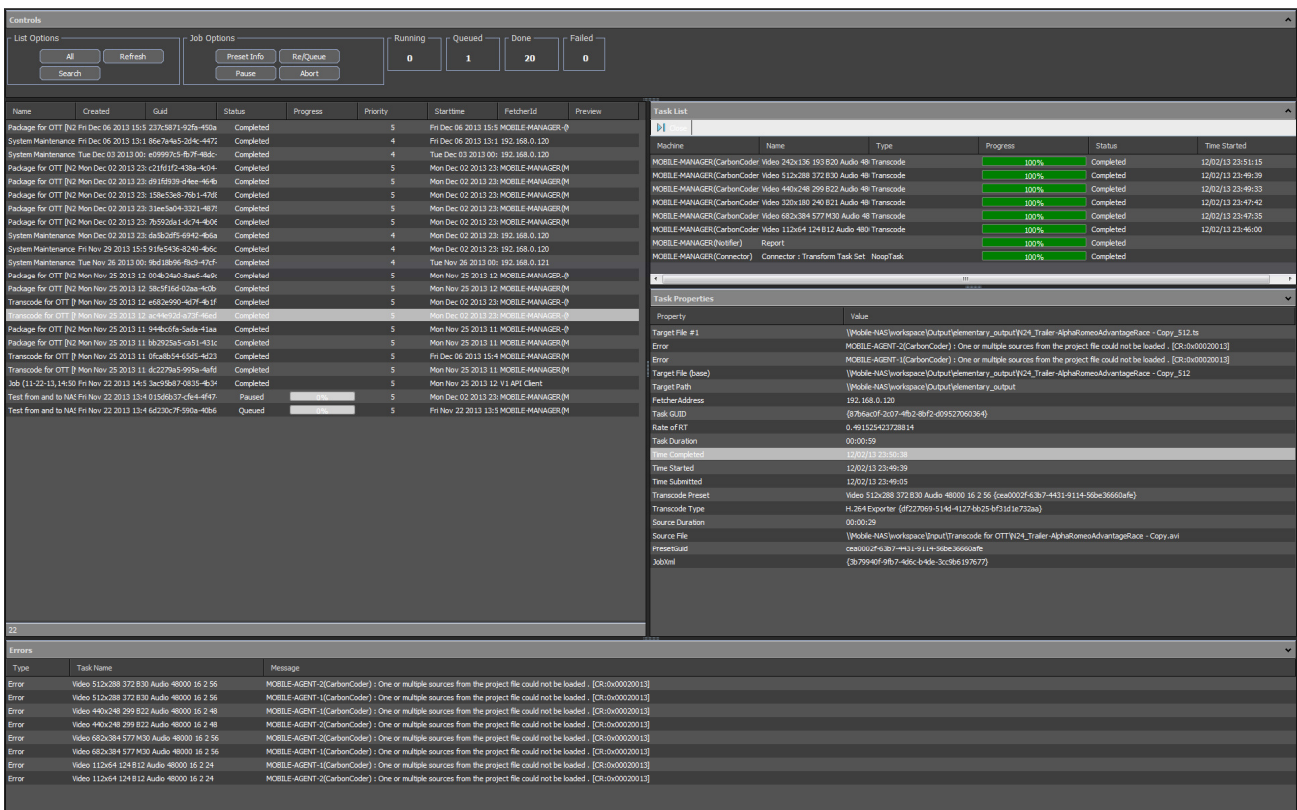
Harmonic (Rhozet) WFS WebGUI AddOn

About

This product is an AddOn to Harmonic's WFS transcoding farm management service. It adds a GUI that can be accessed either via a standard Web-Browser or via a Microsoft Windows Gadget that resides on the operators desktop.

Job Status	
Active:	Queued:
0	0
Fatal:	Completed:
145	1013

It gives access to all information and controls that are relevant to transcoding farm operators. Different access levels based on a user/group/role definition can be configured. A login dialogue grants access and manages the right options to be available. This said "customers" to the transcoding farm can be limited to watching the status while only operators can change priorities but just supervisors can stop and delete a job within Harmonic's ProMedia WFS.



Controls

List Options: All, Refresh, Search

Job Options: Preset Info, Re/Queue, Pause, Abort

Running: 0, Queued: 1, Done: 20, Failed: 0

Name	Created	Guid	Status	Progress	Priority	Starttime	FetcherId	Preview
Package for OTT [N] Fri Dec 06 2013 15:1 23232971-429f-400a			Completed		5	Fri Dec 06 2013 15:5 MOBILE-MANAGER-0		
System Maintenance Fri Dec 06 2013 13:1 86e7945-2f44-4472			Completed		4	Fri Dec 06 2013 13:1 392.368.0.120		
System Maintenance Tue Dec 03 2013 00: e9999745-67f9-48dc			Completed		4	Tue Dec 03 2013 00: 392.368.0.120		
Package for OTT [N] Mon Dec 02 2013 23: c216f172-438a-40f4			Completed		5	Mon Dec 02 2013 23: MOBILE-MANAGER-M		
Package for OTT [N] Mon Dec 02 2013 23: 49145f039-48ee-4648			Completed		5	Mon Dec 02 2013 23: MOBILE-MANAGER-M		
Package for OTT [N] Mon Dec 02 2013 23: 158c3e68-7861-4766			Completed		5	Mon Dec 02 2013 23: MOBILE-MANAGER-M		
Package for OTT [N] Mon Dec 02 2013 23: 33e85e64-9321-4678			Completed		5	Mon Dec 02 2013 23: MOBILE-MANAGER-M		
Package for OTT [N] Mon Dec 02 2013 23: 76592d81-6174-4604			Completed		5	Mon Dec 02 2013 23: MOBILE-MANAGER-M		
System Maintenance Mon Dec 02 2013 23: da5b2d5f-6942-466a			Completed		4	Mon Dec 02 2013 23: 392.368.0.120		
System Maintenance Fri Nov 29 2013 15:5 516e5436-6942-466a			Completed		4	Mon Dec 02 2013 23: 392.368.0.120		
System Maintenance Tue Nov 26 2013 00: 86d18936-8163-47cf			Completed		4	Tue Nov 26 2013 00: 392.368.0.121		
Package for OTT [N] Mon Nov 25 2013 12: 068c36d5-69e4-466b			Completed		5	Mon Nov 25 2013 12: MOBILE-MANAGER-0		
Package for OTT [N] Mon Nov 25 2013 12: 36c4f96d-62aa-467b			Completed		5	Mon Nov 25 2013 12: MOBILE-MANAGER-M		
Transcode for OTT [N] Mon Nov 25 2013 12: e482e990-4d7f-461f			Completed		5	Mon Dec 02 2013 23: MOBILE-MANAGER-0		
Transcode for OTT [N] Mon Nov 25 2013 12: ac48e63d-479f-46ed			Completed		5	Mon Dec 02 2013 23: MOBILE-MANAGER-0		
Package for OTT [N] Mon Nov 25 2013 11: 944bc0fa-5ada-43aa			Completed		5	Mon Nov 25 2013 11: MOBILE-MANAGER-0		
Package for OTT [N] Mon Nov 25 2013 11: b62923a5-ca51-431c			Completed		5	Mon Nov 25 2013 11: MOBILE-MANAGER-M		
Transcode for OTT [N] Mon Nov 25 2013 11: 0fca8b34-6505-4d23			Completed		5	Fri Dec 06 2013 15:4 MOBILE-MANAGER-M		
Transcode for OTT [N] Mon Nov 25 2013 11: 682728a5-9959-461d			Completed		5	Mon Nov 25 2013 11: MOBILE-MANAGER-M		
Job [1]-22-13, 14:50 Fri Nov 22 2013 13:4 3ac95837-6d35-463d			Completed		5	Mon Nov 25 2013 12: V1 API Client		
Test from and to NAS Fri Nov 22 2013 13:4 01566937-6e44-4647			Paused		5	Mon Dec 02 2013 23: MOBILE-MANAGER-M		
Test from and to NAS Fri Nov 22 2013 13:4 66230c7f-950a-4666			Queued		5	Fri Nov 22 2013 13:5 MOBILE-MANAGER-M		

Task List

Machine	Name	Type	Progress	Status	Time Started
MOBILE-MANAGER(CarbonCoder)	Video 242x136	193.830 Audio 48 Transcode	100%	Completed	12/02/13 23:51:15
MOBILE-MANAGER(CarbonCoder)	Video 512x288	372.830 Audio 48 Transcode	100%	Completed	12/02/13 23:49:39
MOBILE-MANAGER(CarbonCoder)	Video 440x240	299.832 Audio 48 Transcode	100%	Completed	12/02/13 23:49:33
MOBILE-MANAGER(CarbonCoder)	Video 320x180	240.824 Audio 48 Transcode	100%	Completed	12/02/13 23:47:42
MOBILE-MANAGER(CarbonCoder)	Video 682x384	577.830 Audio 48 Transcode	100%	Completed	12/02/13 23:47:35
MOBILE-MANAGER(CarbonCoder)	Video 1126x4	124.812 Audio 480 Transcode	100%	Completed	12/02/13 23:46:00
MOBILE-MANAGER(Reporter)	Report		100%	Completed	
MOBILE-MANAGER(Connector)	Connector - Transform Task Set	NoopTask	100%	Completed	

Task Properties

Property	Value
Target File #1	\\Mobile-NAS\workspace\Output\elementary_output\Y24_Trailer-AlphaRomeoAdvantageRace - Copy_512.ts
Error	MOBILE-AGENT-2(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]
Target File (base)	\\Mobile-NAS\workspace\Output\elementary_output\Y24_Trailer-AlphaRomeoAdvantageRace - Copy_512
Target Path	\\Mobile-NAS\workspace\Output\elementary_output
Fetcher Address	392.368.0.120
Task GUID	{876a0f-207-482-887f-89527209364}
Rate of RT	0.49152423728814
Task Duration	00:00:59
Time Completed	12/02/13 23:46:00
Time Started	12/02/13 23:49:39
Time Submitted	12/02/13 23:49:35
Transcode Preset	Video 512x288 372.830 Audio 48000 16 2 56 (cea0002f-6397-4451-9114-56bc36660af6)
Transcode Type	H.264 Exporter (af227069-514d-4127-b825-f4f1d16722aa)
Source Duration	00:00:29
Source File	\\Mobile-NAS\workspace\Input\Transcode for OTT\Y24_Trailer-AlphaRomeoAdvantageRace - Copy.avi
Presestuid	cea0002f-6397-4451-9114-56bc36660af6
Jobuid	{2b79946f-4967-466c-b44e-3cc366197677}

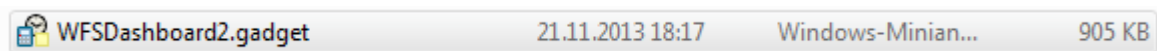
Errors

Type	Task Name	Message
Error	Video 512x288 372.830 Audio 48000 16 2 56	MOBILE-AGENT-2(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]
Error	Video 512x288 372.830 Audio 48000 16 2 56	MOBILE-AGENT-1(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]
Error	Video 440x240 299.832 Audio 48000 16 2 48	MOBILE-AGENT-1(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]
Error	Video 440x240 299.832 Audio 48000 16 2 48	MOBILE-AGENT-2(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]
Error	Video 682x384 577.830 Audio 48000 16 2 56	MOBILE-AGENT-2(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]
Error	Video 682x384 577.830 Audio 48000 16 2 56	MOBILE-AGENT-1(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]
Error	Video 1126x4 124.812 Audio 48000 16 2 24	MOBILE-AGENT-1(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]
Error	Video 1126x4 124.812 Audio 48000 16 2 24	MOBILE-AGENT-2(CarbonCoder) : One or multiple sources from the project file could not be loaded. [CR:0x00020013]

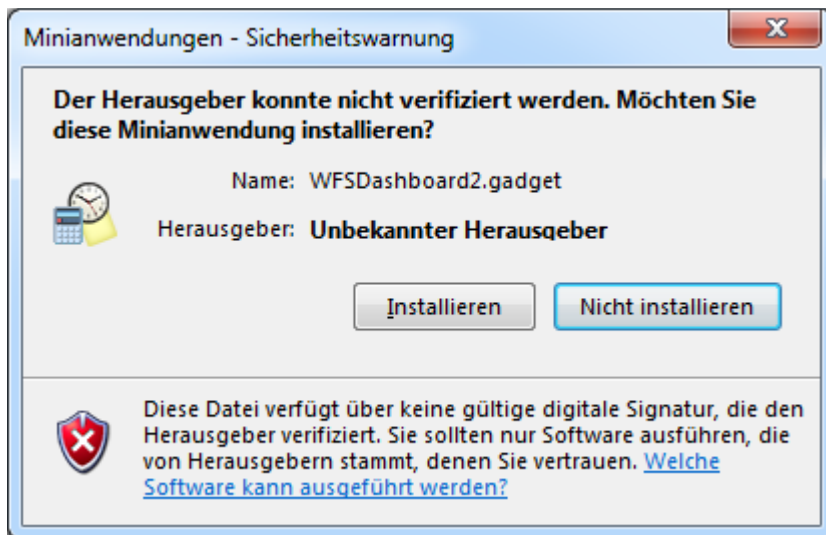
Installation – General

The WFS WebGUI gets delivered as a) Windows Desktop Gadget or as b) Webserver Application. The Proxy feature gets delivered as Tomcat Webserver Application in any case and is mandatory for the WebGUI to get access to the data from Harmonics WFS Controller.

- a) The installation of the **Windows Desktop Gadget** happens via a double click or right mouse button click + open option.

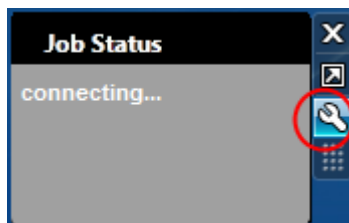


A pop up dialogue asks to confirm the installation.

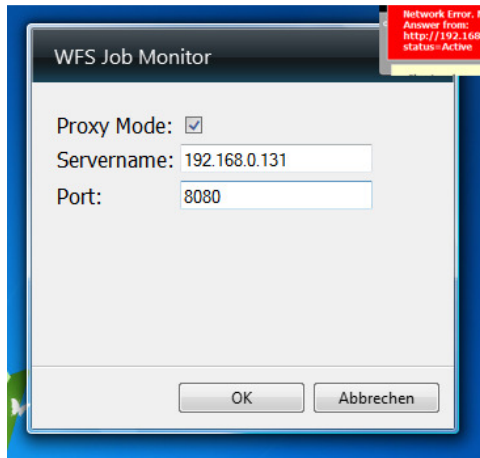


Immediately afterwards a new Gadget shows up on the Windows desktop.

The tool symbol gives access to the **configuration** dialogue.



Please insert the IP Address of either the WFS Controller or x-dream-media's WFS Proxy (see below).



A successful configuration will result the Gadget shows the number of queued, running, successful and failed jobs. The arrow symbol gives access to the fully featured job monitor GUI.

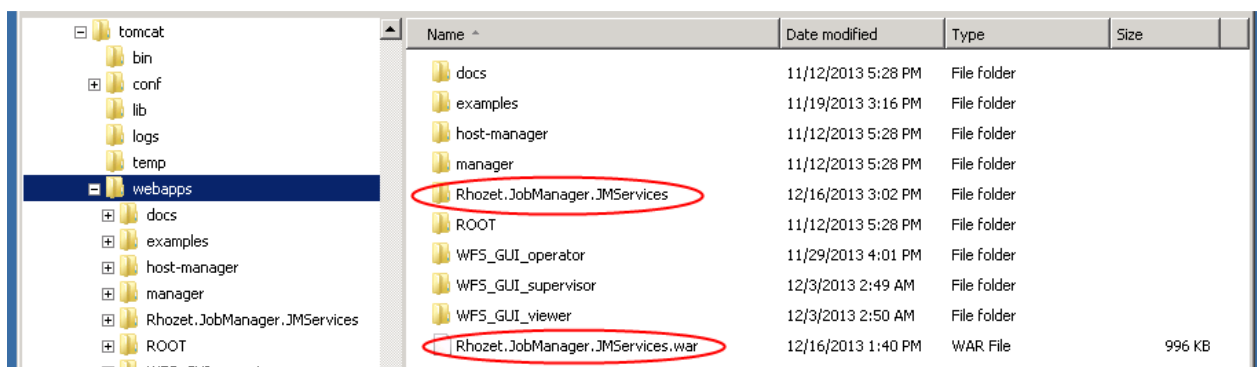


- b) The installation of the **WebGUI** requires a pre-installed and -configured Apache Webserver + a Tomcat Java Application server. This manual does not show how this is done. We do refer to the documentation from the Apache and Tomcat community.

The installation of the WebGUI happens fully automatically after copying the Tomcat Application file

 Rhozet.JobManager.JMServices.war	16.12.2013 13:40	WAR-Datei	996 KB
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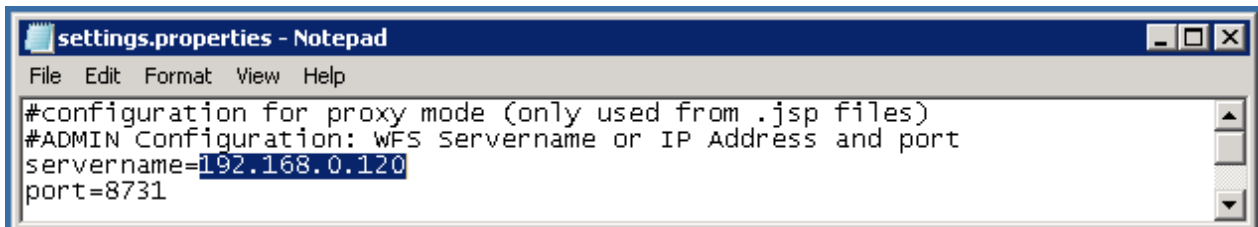
into Tomcats Application folder:



As result the Application files are being unpackaged.

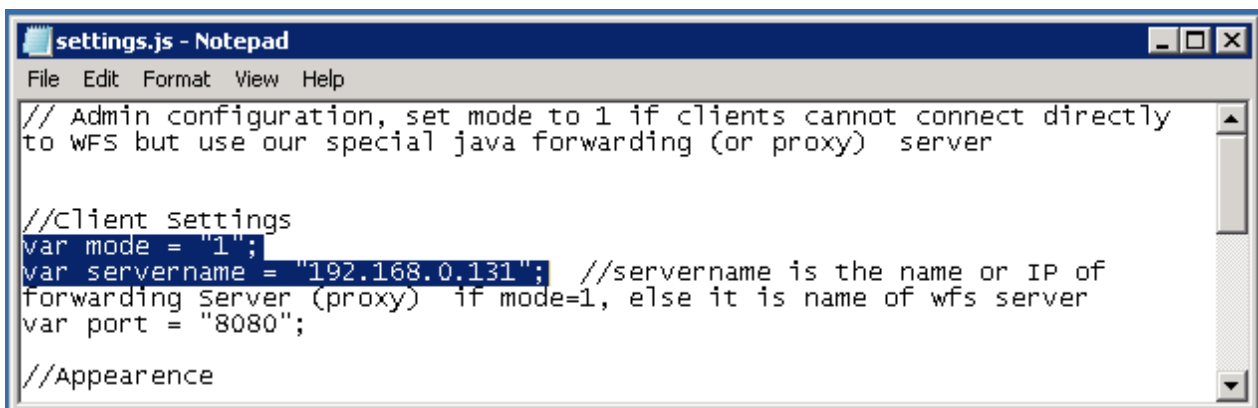
The **configuration** happens via two XML files:

“**settings.properties**” file defines the behaviour of the proxy feature. The relevant parameter to set is the IP Adress of the WFS Controller.



```
settings.properties - Notepad
File Edit Format View Help
#configuration for proxy mode (only used from .jsp files)
#ADMIN Configuration: WFS Servername or IP Address and port
servername=192.168.0.120
port=8731
```

“**settings.js**” file defines via what IP address or URL the GUI connects to the WFS Controller. This can be the WFS Controller. In this case the “mode” needs to be set to “0”. But usually it should be the Tomcat proxy service from above. In this case the “mode” needs to be set to “1” and the “servername” set to the WFS Controller IP address or URL.

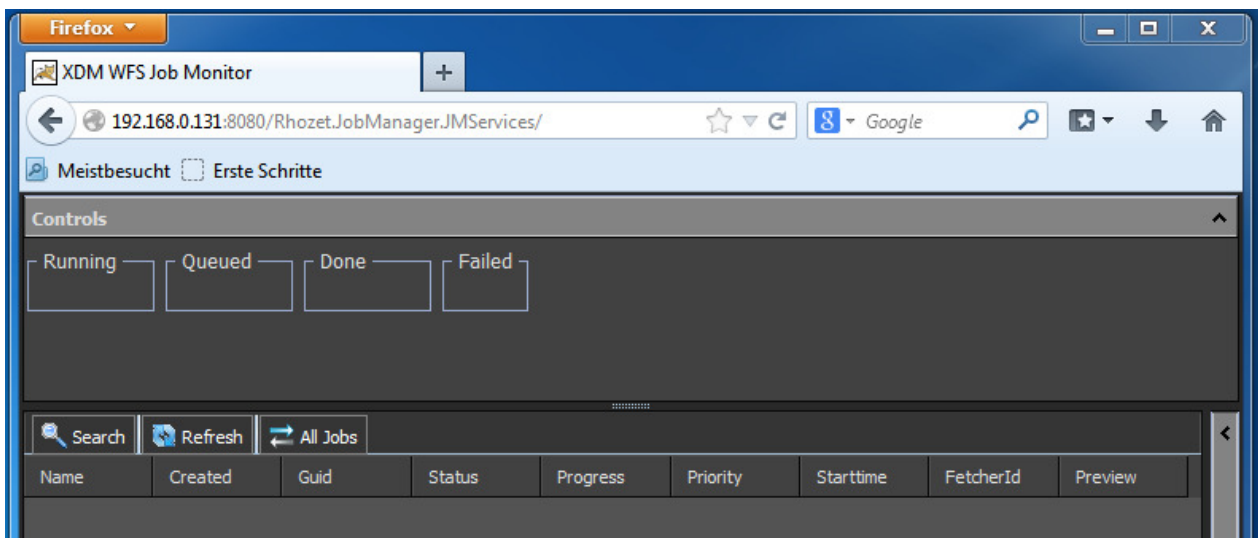


```
settings.js - Notepad
File Edit Format View Help
// Admin configuration, set mode to 1 if clients cannot connect directly
to WFS but use our special java forwarding (or proxy) server

//Client Settings
var mode = "1";
var servername = "192.168.0.131"; //servername is the name or IP of
forwarding Server (proxy) if mode=1, else it is name of wfs server
var port = "8080";

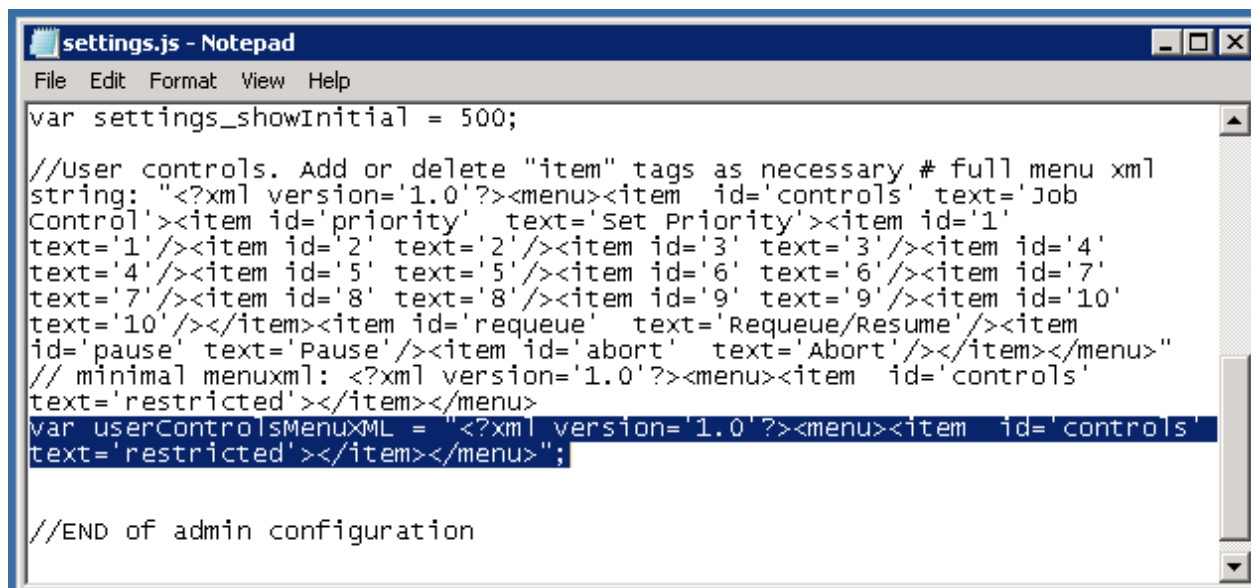
//Appearance
```

Afterwards the WebGUI can be access via it’s IP address or URL.



Managing User Control Restrictions

“settings.js” file defines what controls are available for the user by a right click on a particular job.



```

settings.js - Notepad
File Edit Format View Help
var settings_showInitial = 500;

//User controls. Add or delete "item" tags as necessary # full menu xml
string: "<?xml version='1.0'?><menu><item id='controls' text='Job
Control'><item id='priority' text='Set Priority'><item id='1'
text='1'></item><item id='2' text='2'></item><item id='3' text='3'></item><item id='4'
text='4'></item><item id='5' text='5'></item><item id='6' text='6'></item><item id='7'
text='7'></item><item id='8' text='8'></item><item id='9' text='9'></item><item id='10'
text='10'></item><item id='requeue' text='Requeue/Resume'><item
id='pause' text='Pause'><item id='abort' text='Abort'></item></menu>"
// minimal menuxml: <?xml version='1.0'?><menu><item id='controls'
text='restricted'></item></menu>
var userControlsMenuXML = "<?xml version='1.0'?><menu><item id='controls'
text='restricted'></item></menu>";

//END of admin configuration

```

The minimal set (no controls) for a “viewer” role is defined by the following definition:

```

var userControlsMenuXML = "<?xml version='1.0'?><menu><item id='controls'
text='restricted'></item></menu>";

```

For an “operator” role we do recommend the following settings:

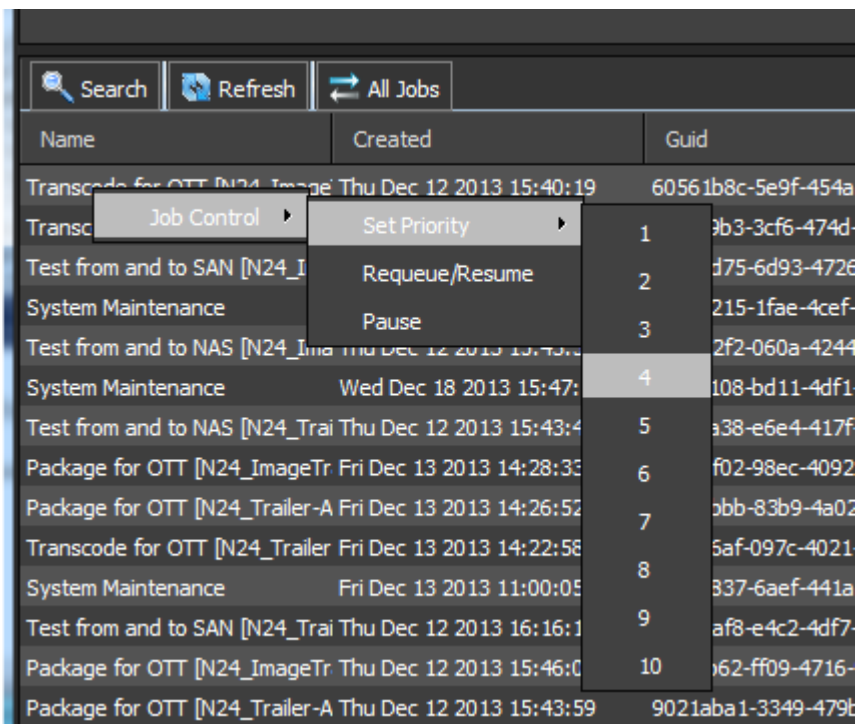
```

var userControlsMenuXML = "<?xml version='1.0'?><menu><item id='controls'
text='Job Control'><item id='priority' text='Set Priority'><item id='1'
text='1'></item><item id='2' text='2'></item><item id='3' text='3'></item><item id='4'
text='4'></item><item id='5' text='5'></item><item id='6' text='6'></item><item id='7'
text='7'></item><item id='8' text='8'></item><item id='9' text='9'></item><item id='10'
text='10'></item><item id='requeue' text='Requeue/Resume'></item></menu>";

```


And finally for a **“supervisor”** role the complete control set is made available via the following settings:

```
var userControlsMenuXML = "<?xml version='1.0'?><menu><item id='controls'
text='Job Control'><item id='priority' text='Set Priority'><item id='1'
text='1'></item><item id='2' text='2'></item><item id='3' text='3'></item><item id='4'
text='4'></item><item id='5' text='5'></item><item id='6' text='6'></item><item id='7'
text='7'></item><item id='8' text='8'></item><item id='9' text='9'></item><item id='10'
text='10'></item><item id='requeue' text='Requeue/Resume'><item id='pause'
text='Pause'></item><item id='abort' text='Abort'></item></menu>";
```

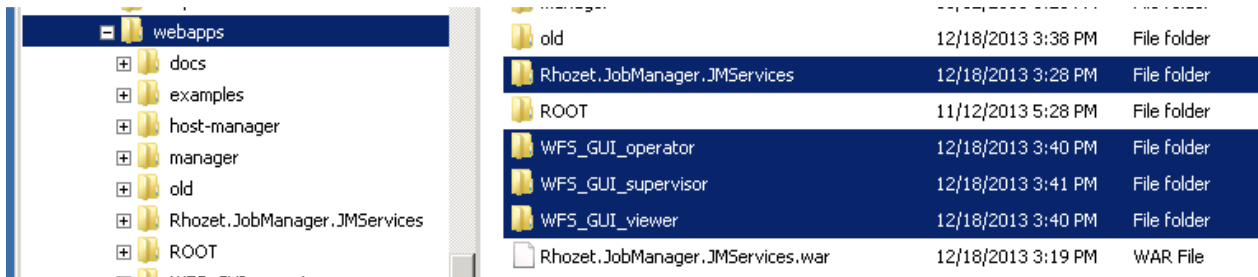


Managing Roles

Offering **different roles** at the same point in time is achieved by copying the WebGUI as often as roles to allow access. For easiness of access we recommend to rename the copies to names according to the roles.

Note: The WebGUI folder includes the WebGUI + the proxy service. But for easiness of rollout and cause of the small number of files we do recommend to copy the complete folder.

In our example with 3 roles for “viewer”, “operator” and “supervisor” as shown above we got the following folder structure:



Within the folders “WFS_GUI_viewer”, “WFS_GUI_operator” and “WFS_GUI_supervisor” please adjust the available controls as shown earlier.

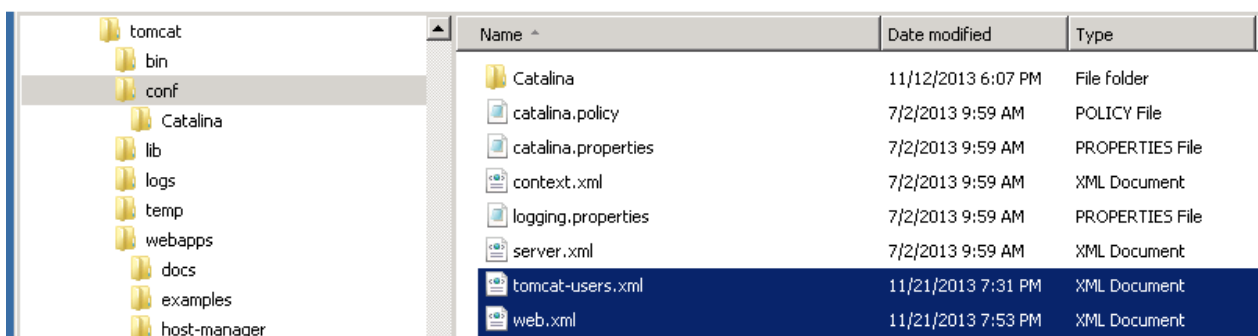
The three different GUIs are now accessible via the following URLs:

[http://\[servername or IP\]:8080/WFS_GUI_viewer/](http://[servername or IP]:8080/WFS_GUI_viewer/)
[http://\[servername or IP\]:8080/WFS_GUI_operator/](http://[servername or IP]:8080/WFS_GUI_operator/)
[http://\[servername or IP\]:8080/WFS_GUI_supervisor/](http://[servername or IP]:8080/WFS_GUI_supervisor/)

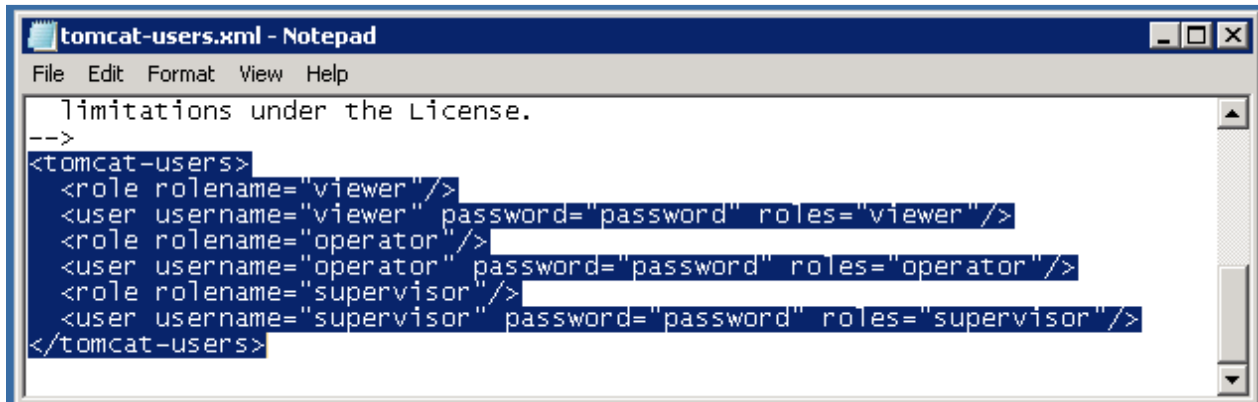
Managing Access Restrictions

So far the users can access the role based GUIs without any password protection. The access restriction can be added via Tomcats user management.

Two files are relevant to do so: “tomcat-users.xml” and “web.xml”. They can be found in the “conf” folder within the tomcat installation folder.



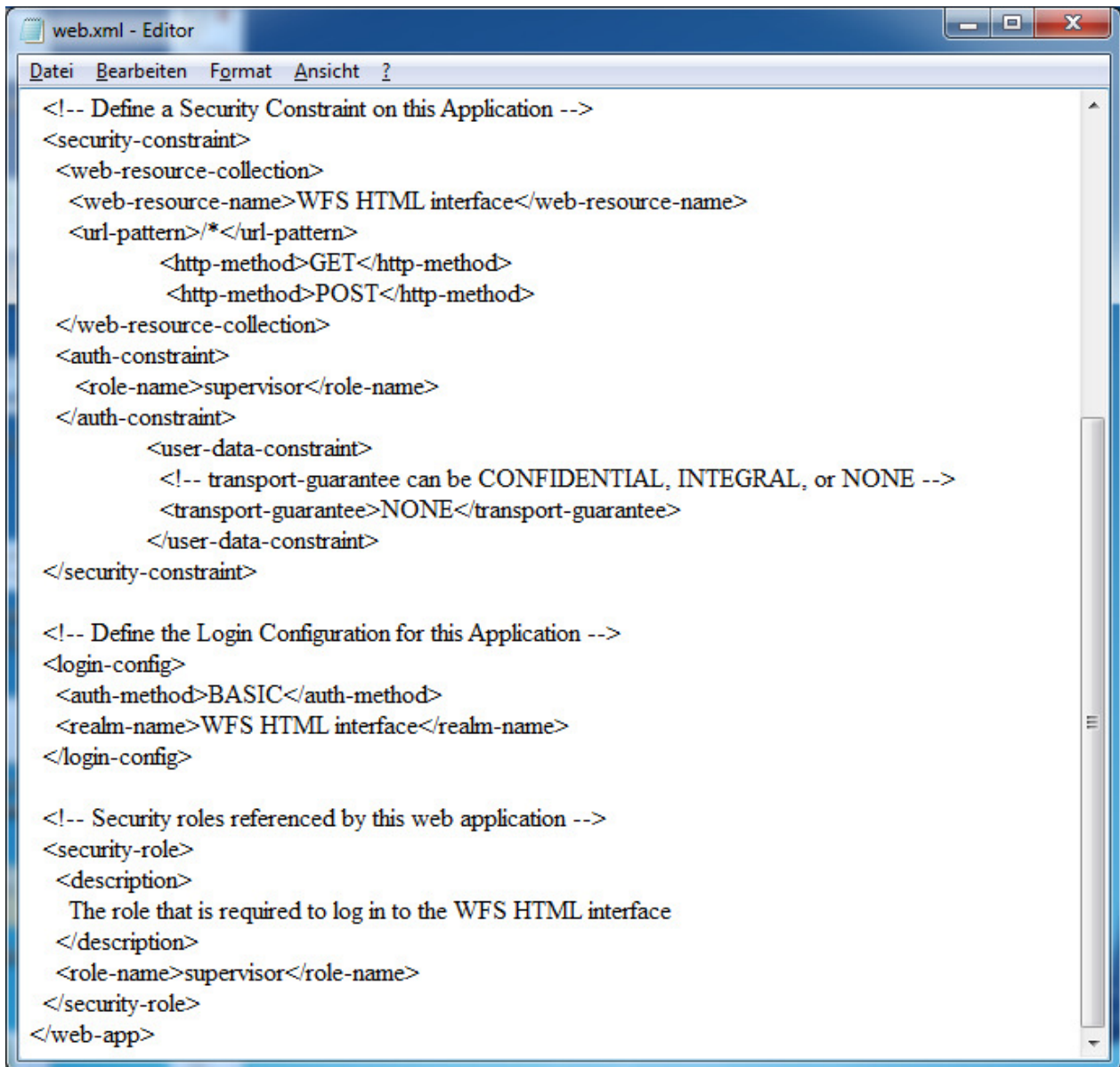
The “tomcat-users.xml” file defines the roles, usernames and passwords as follows:

A screenshot of a Notepad window titled 'tomcat-users.xml - Notepad'. The window contains XML code defining roles and users. The code is as follows:

```
limitations under the License.
-->
<tomcat-users>
  <role rolename="viewer"/>
  <user username="viewer" password="password" roles="viewer"/>
  <role rolename="operator"/>
  <user username="operator" password="password" roles="operator"/>
  <role rolename="supervisor"/>
  <user username="supervisor" password="password" roles="supervisor"/>
</tomcat-users>
```

The “web.xml” within the “WEB-INF” folder as subfolder of each “webapps” folder defines the role that may access such folder.

The coded on the following page shows the definition or the “supervisor” user.

A screenshot of a text editor window titled 'web.xml - Editor'. The window contains XML code for a web application configuration. The code includes a security constraint for the WFS HTML interface, a login configuration using BASIC authentication, and a security role named 'supervisor'.

```
<!-- Define a Security Constraint on this Application -->
<security-constraint>
  <web-resource-collection>
    <web-resource-name>WFS HTML interface</web-resource-name>
    <url-pattern>/*</url-pattern>
    <http-method>GET</http-method>
    <http-method>POST</http-method>
  </web-resource-collection>
  <auth-constraint>
    <role-name>supervisor</role-name>
  </auth-constraint>
  <user-data-constraint>
    <!-- transport-guarantee can be CONFIDENTIAL, INTEGRAL, or NONE -->
    <transport-guarantee>NONE</transport-guarantee>
  </user-data-constraint>
</security-constraint>

<!-- Define the Login Configuration for this Application -->
<login-config>
  <auth-method>BASIC</auth-method>
  <realm-name>WFS HTML interface</realm-name>
</login-config>

<!-- Security roles referenced by this web application -->
<security-role>
  <description>
    The role that is required to log in to the WFS HTML interface
  </description>
  <role-name>supervisor</role-name>
</security-role>
</web-app>
```

Version

Version 1.1

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