

Management Web Console Operation

Table of Contents

INTRODUCTION	3
CHAPTER 1. WORKING WITH MANAGEMENT WEB CONSOLE	4
Logging into the management console	4
Structure of the management console's main window	4
Detailed information about the operation of applications	5
Managing applications	5
Managing application services	6
Executing batch commands for applications and services	8
Changing the configuration of applications and services	8
CHAPTER 2. DESCRIPTION OF MANAGEMENT WEB CONSOLE SCREEN FORMS	10
"Applications" Tab	10
"Services" Tab	10
"Logs" Tab	12
"Application" Tab	12
"Configurations" Tab	13
"Configuration" Tab	13


Introduction

This document is an introduction to Management Web Console ("m2_web_console" system application) user interface functionality.

When working with this document, it is recommended to use the following resources from the OpenWay documentation series:

- "Administering WAY4™ Application Server" ("Administering_WAY4_Application_Server.pdf" from the WAY4 Application Server distribution).
- "Management Web Console Installation and Configuration Manual" ("WAY4_Application_Server_M2_Web_Console_Setup" from the WAY4 Application Server distribution).

The following conventions are used throughout the document:

- Field labels in screen forms are shown in *italics*.
- Key combinations are indicated in angular brackets, for example <Ctrl>+<F3>.
- Screen form button labels and tab names are shown in square brackets, for example [OK].
- The names of commands and links in web console tabs are shown in curly brackets, such as {Create}.
- Variables that differ for each local instance, for example, directory and file names, as well as file paths are shown in angular brackets, for example, <AppServer_HOME>.
- Mandatory fields in web client forms are highlighted in yellow.
- Warnings that an incorrect action may result in serious consequences are marked with the  sign.
- Messages marked with the



sign contain information about important features, additional functionality or optimal use of certain system functions.

Chapter 1. Working with Management Web Console

Management Web Console ("m2_web_console" system application) provides a user web interface for monitoring and managing applications and application services in a WAY4 Application Server node, and for managing WAY4 NetServer JMX.

The console web interface is accessed through a web browser (see "Logging into the management console").

The management console's main screen is a set of tabs containing control elements (see "Structure of the management console's main window").

Management Web Console provides the following functionality:

- Detailed information about the operation of applications.
- Managing applications.
- Managing application services.
- Executing batch commands for applications and services.
- Changing the configuration of applications.

Logging into the management console

After the web console has been installed and configured (see the document "Management Web Console Installation and Configuration Manual (m2_web_console)"), the URL address of the resource must be entered in the browser:

```
http://<appserver_host_name>:<web_console_http_port>
```

where "<appserver_host_name>" is the domain name according to which WAY4 Application Server is accessed and "<web_console_http_port>" is the HTTP port allocated during installation of the "m2_web_console" application. The screen will then display a window for entering the username and password of the user working with the web console.

If user authentication is successful, the web console's main page will be displayed (see "Structure of the management console's main window").

Structure of the management console's main window

The main window consists of the following areas (see Fig. 1):

- **1** Header – area at the top of the screen that includes the name "Management Console", the name of the web console user and the {Logout} link.

- **2** Menu – area under the header, contains tab names and an audio element for error notifications.
- **3** Tab – data and control elements for the selected tab.
- **4** Footer – displays the copyright and information about the Application Server and management console versions.

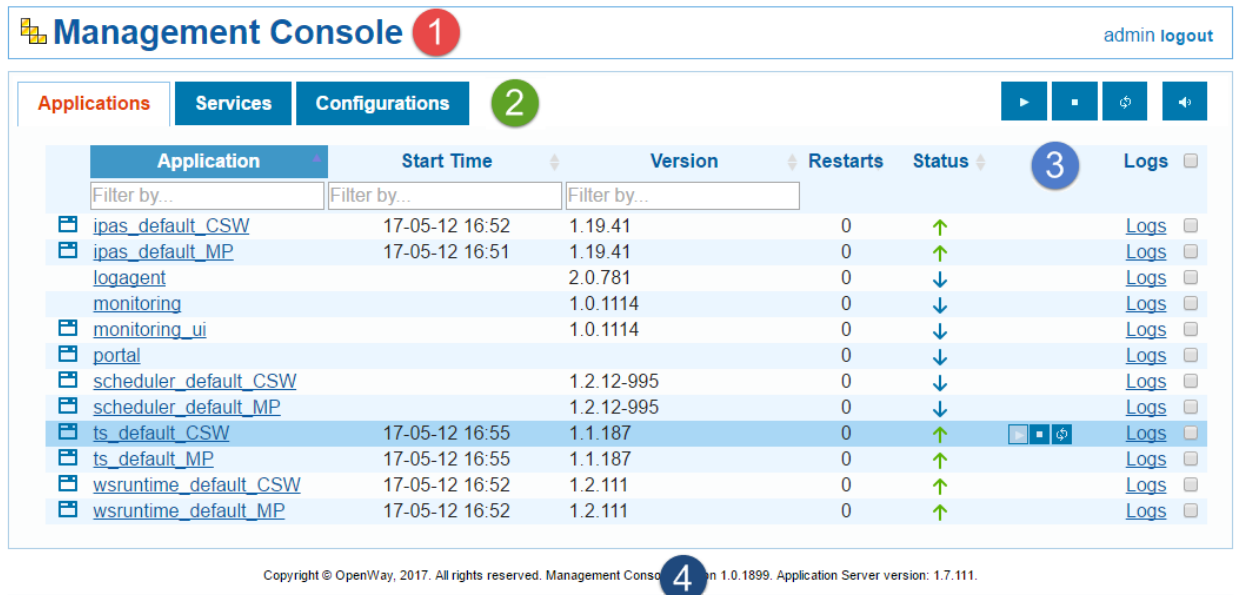


Fig. 1. Main web console window

Detailed information about the operation of applications

The "Applications" tab shows the main information about applications and their status (see "Applications" Tab"); for detailed information, click on the hyperlink with the name of an application to open the "Applications" tab (see "Application" Tab").

If necessary, application logs (log files) can be analysed. The set of files and the volume of information they contain are determined by the specific application's settings (maximum number and volume of files, logging level, etc.). To access a log, open the {Logs} link in the row with the desired application (see "Logs" Tab").

Managing applications







The main commands for applications (stop, restart, stop) are available in the web interface. In addition, the URL address of the resource can be opened for web applications.


The application control panel is located in an application's row (see Fig. 2) in the "Applications" tab (see "Applications" Tab"). This control panel only appears when the mouse cursor is pointed at the corresponding row. A similar panel is located in the right-hand part above the list of applications; this panel's commands will be executed for all applications with the checkbox selected (see "Executing batch commands for applications and services").

scheduler_default_MP		1.2.12-995	0	↓		Logs	<input type="checkbox"/>
ts_default_CSW	17-05-12 16:55	1.1.187	0	↑		Logs	<input type="checkbox"/>
ts_default_MP	17-05-12 16:55	1.1.187	0	↑		Logs	<input type="checkbox"/>
wsruntime_default_CSW	17-05-12 16:52	1.2.111	0	↑		Logs	<input type="checkbox"/>

Fig. 2. Application control panel

The tab shows the following application control elements:

-  (Start) – start the application. If the command is executed successfully, the application's status will change to "STARTED" and the *Status* field will show the  icon.
-  (Stop) – stop the application. If the command is executed successfully, the application's status will change to "STOPPED" and the *Status* field will show the  icon.
-  (Restart) – restart the application. If the command is executed successfully, the application's status will change to "STARTED" (the *Status* field will show the  icon) regardless of its initial status.

For web applications, the "Applications" tab will also show the  icon. Clicking on this icon opens the application's URL address in a new tab:

```
http://<appserver_host_name>:<app_http_port>/<app_name>
```

where "<appserver_host_name>" is the domain name for accessing WAY4 Application Server, "<app_http_port>" is the HTTP port allocated to the application during installation, and "<app_name>" is the name of the web application.

Managing application services

The main commands for application services (start, restart, and stop) are available in the web interface. Commands are applied for each specific service of a certain application.

The service control panel is located in a service's row (see Fig. 3) in the "Services" tab (see "Services" Tab"). This control panel only appears when the mouse cursor is pointed at the corresponding row. A similar panel is located in the right-hand part above the list of services; this panel's commands will be executed for all services with the checkbox selected (see "Executing batch commands for applications and services").




















Log	ts_default_MP		0	0		webapps/ts_default_MP/WEB-INF/conf/application/Log.s.xml	
Platform	ts_default_MP		0	0		webapps/ts_default_MP/WEB-INF/conf/application/Platform.s.xml	
Platform	ts_default_CSW		0	0		webapps/ts_default_CSW/WEB-INF/conf/application/Platform.s.xml	
WAY4DB	ts_default_CSW		56	4		webapps/ts_default_CSW/WEB-INF/conf/application/WAY4DB.s.xml	
WAY4DB	ts_default_MP		56	4		webapps/ts_default_MP/WEB-INF/conf/application/WAY4DB.s.xml	


Fig. 3. Service control panel

The tab shows the following service control elements:

-  (Start) – start the service. If the command is executed successfully, the service's status will change to "STARTED" and the *Status* field will show the  icon.
-  (Stop) – stop the service. If the command is executed successfully, the service's status will change to "STOPPED" and the *Status* field will show the  icon.

 Note that SAF service cannot be stopped. For more information about the service, see the document "Installing and Configuring Transaction Switch Platform-Based Solutions".

-  (Restart) – restart the service. If the command is executed successfully, the service's status will change to "STARTED" (and the *Status* field will show the  icon) regardless of its initial status.
-  (Execute command) – call a context menu with a list of additional commands available for the service. This button only appears for services with additional commands.

Clicking on the  button opens a pop-up menu with a list of commands available for the service (an example is shown in Fig. 4).

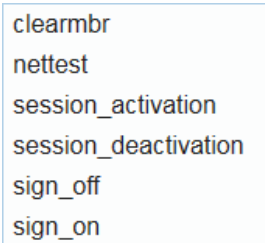


Fig. 4. Example of a service command context menu

 Note that the list of commands depends on the service.

When a command is selected, a form will be displayed for executing the command (an example is shown in Fig. 5).

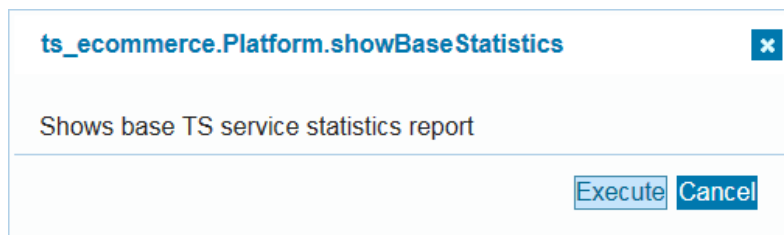


Fig. 5. Example of a form for executing a service command

When the [Execute] button is clicked, the command will be executed, after which the "Result" screen form will be displayed with the result of the command (see Fig. 6).

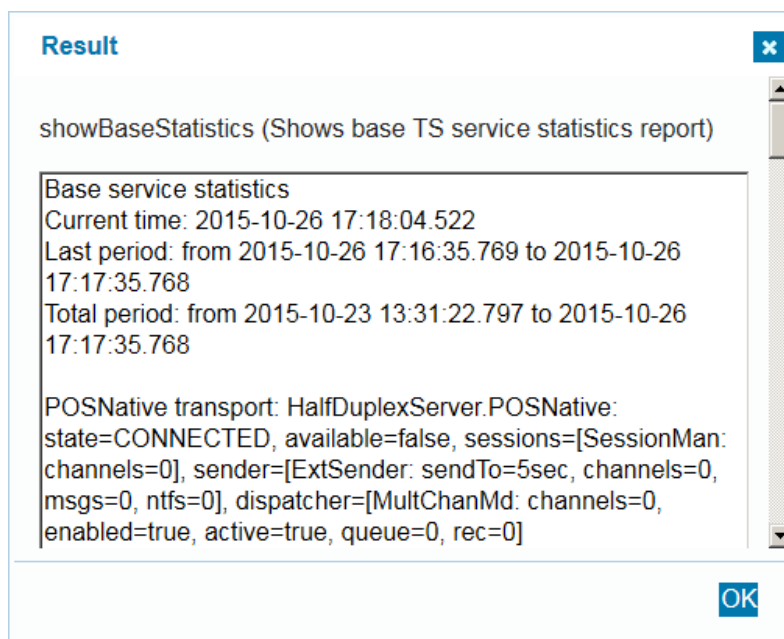


Fig. 6. Example of a form with command results

Executing batch commands for applications and services

It is possible to execute batch commands in the web console (start, stop, and restart) for selected applications or their services. To execute a batch command:

- Go to the "Applications" tab with the list of applications (see "Applications" Tab") or "Services" tab with the list of services (see "Services" Tab").
- Select the required applications/services by selecting the checkbox in the row with the application/service **1** (see Fig. 7).
- Click on the button to execute the command. This button is located in the panel above the list of applications/services **2** (see Fig. 7).

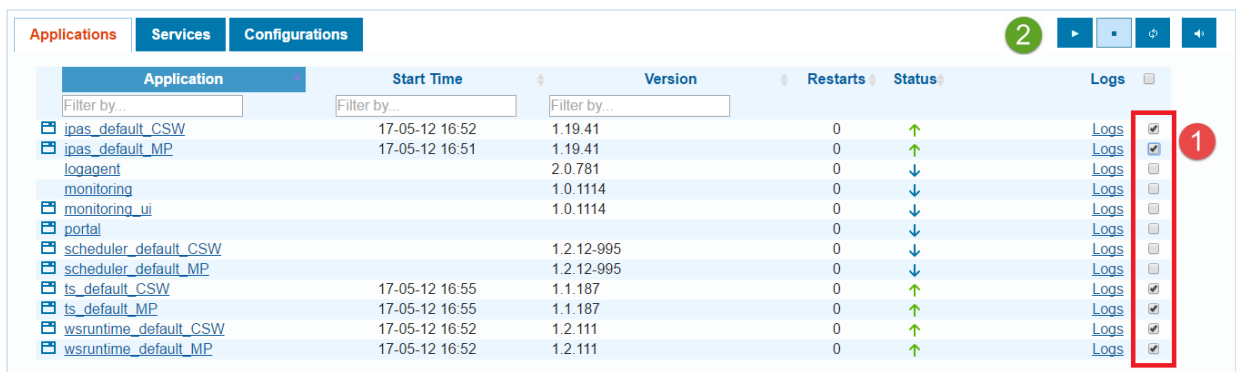


Fig. 7. Executing a batch command

Changing the configuration of applications and services

The configuration of applications and application services can be edited in the web console.

To modify a configuration:

- Open the "Configurations" tab (see "Configurations" Tab").
- Select an application by clicking on the hyperlink with its name; the "Configuration" tab will open as a result (see "Configuration" Tab").
- In the left-hand part of the tab (directory and file tree), select the configuration file that must be changed. The contents of the selected file are shown in the right-hand part of the window.

i Note that in the tree (left-hand part of the tab), files with the "*.txt", "*.properties", and "*.xml" extension are available for editing. If an attempt is made to choose a file not intended for editing, the message "Unable to edit file of this type" will be shown in the right-hand part of the tab.
- Edit the file. The colour of the file's name will change to red in the tree.
- To save changes, click on the [Save All] button (save changes in files) or [Save & Restart Modified Services] (save changes in files and restart application services).












If a file was modified but changes were not saved, these changes can be cancelled. To do so, click on the [Revert] button in the right-hand part of the screen. The content of the file at the time it was last saved will be restored.

Chapter 2. Description of Management Web Console Screen Forms

"Applications" Tab

The "Applications" tab (see Fig. 1 in the section "Structure of the management console's main window") shows a list of installed WAY4 applications, statistic information about their operation and interface elements (buttons and hyperlinks) for managing applications.

Description of elements:

- *Filter by...* – filter applications shown in the tab. Filtering is performed according to a mask of characters (not case-sensitive) entered in the field. Regular expressions or the "%" character can be set in the field (the name contains the required character/characters after the "%" character) to limit the list.
- *Application* – link to the tab with detailed information about an application (see "Application" Tab).
- *Start Time* – the date and time the application began working is specified for an application that is running (the *Status* field shows "STARTED" and the  icon).
- *Version* – application version.
- *Restarts* – number of automatic restarts of the application.
- *Status* – application status:
 -  (STARTED) – the application has been started.
 -  (STOPPED) – the application has been stopped.
 -  (STARTING) – the application is starting.
 -  (STOPPING) – the application is stopping.
 -  (RESTARTING) – the application is restarting.
 -  (CRASHED) – the application is not running due to an error in its behaviour (for example, the application needs a connection with the database, but the database is unavailable).
 -  (CORRUPTED) – a directory with the name of the application has been created, but files required to run the application are missing.
 -  (MALFUNCTION) – one or several of the application's services has the "CRASHED" or "MALFUNCTION" status.
- *Logs* – link to the "Logs" tab (see "Logs" Tab") for working with application logs.

"Services" Tab

The "Services" tab (see Fig. 8) shows a list of the available services for installed applications, a filter for the list, buttons for managing services, and links to the "Configuration" tab (see "Configuration" Tab").

To show the list of application services in this tab, specify "true" as the value of the "appcontainer_extension" parameter in the "<Console_HOME>/conf/config.properties" file and restart WAY4 Application Server. Note that the tab will only show the services of applications that are running.

Applications		Services	Configurations				
Service	Application	Status	Status Codes	Srv	Srv Error	Config File	
Filter by...	Filter by...						
AcqDB	trsw1	↑		0	0	webapps/trsw1/WEB-INF/conf/application/AcqDB.s.xml	
Correct	trsw2	↑				conf/Correct.properties	
Crashed	trsw2	↓				conf/Crashed.properties	
HSMAdapter	trsw1	↑		0	584	webapps/trsw1/WEB-INF/conf/application/HSMAdapter.s.xml	
Malfunction	trsw2	↑	DISCONN01	0	1	conf/Malfunction.properties	
MC_CREDIT	trsw1	↑	DISCONN01, UNAVAIL01	0	0	webapps/trsw1/WEB-INF/conf/application/MC_CREDIT.s.xml	
Platform	trsw1	↑		0	0	webapps/trsw1/WEB-INF/conf/application/Platform.s.xml	
Second	trsw2	↑				conf/Correct.properties	
WAY4DB	trsw1	↑		1330	0	webapps/trsw1/WEB-INF/conf/application/WAY4DB.s.xml	

Fig. 8. "Services" tab

Description of elements:

- *Filter by...* – filter the list of services shown in the tab. Filtering is performed according to a mask of characters (not case-sensitive) entered in the field. A regular expression or the "%" character can be set in the field (the name contains the required character/characters after the "%" character) to limit the list.
- *Service* – name of service.
- *Application* – name of the application providing the service.
- *Status* – service status:
 - ↑ (STARTED) – the service has been started.
 - ↓ (STOPPED) – the service has been stopped.
 - ⚙ (STARTING) – the service is starting.
 - ⚙ (STOPPING) – the service is stopping.
 - 🔄 (RESTARTING) – the service is restarting.
 - ❗ (CRASHED) – the service was not started due to an error.
 - 🚨 (MALFUNCTION) – the service was started with errors.
- *Status Codes* – service status code:
 - "DISCONN01" – the service was not connected with an external system.
 - "UNAVAIL01" – the service is unavailable for internal calls.
 - "CONF01" – the service cannot be started to syntax errors in its configuration.
- *Srv* – number of successful messages/transactions.
- *Srv Error* – number of unsuccessful messages/transactions.
- *Config File* – link to the "Configurations" tab (see "Configuration" Tab") for working with application logs.

"Logs" Tab

The "Logs" tab (see Fig. 9) is used to work with an application's logs. This tab is accessed by opening the {logs} link in the "Applications" tab (see "Applications" Tab") or in the "Application" tab (see "Application" Tab").

Applications > monitoring on Test_Server > Logs

Search...

File name	Size	Date modified
appserver-monitoring-error.1.log	15729029	Tue, 27 Oct 2015 01:18:20 GMT
appserver-monitoring-error.2.log	15728643	Mon, 26 Oct 2015 12:09:03 GMT
appserver-monitoring-error.3.log	15729307	Sun, 25 Oct 2015 23:00:24 GMT

Fig. 9. "Logs" tab

Description of elements:

- *File name* – hyperlink to the tab with a log's last 204800 bytes and the [Download] button for saving the log to a disk.
- *Size* – size (in bytes) of a log.
- *Date modified* – date the file was last modified (at the time of updating the tab) in the format corresponding to the RFC1123 specification.

"Application" Tab

The "Application" tab (see Fig. 10) contains detailed information about an application. To access this tab, click on the hyperlink with the name of the application in the "Applications" tab (see "Applications" Tab").

The menu area shows the name of the selected application and the name of the host in which the application is installed. For example, "monitoring on Test_Server" means that an application named "monitoring" is installed on a host named "Test_Server".

Applications > ts_default_MP on Test_Server

Application		Properties
Name	ts_default_MP	
State	STARTED	
Type	ts_war	
Version	1.1.187	
System	false	
Core	false	
RestPort	0	
StartedTime	17-05-12 16:55	
HttpPort	10279	
Restarts	0	
MemoryUsed	74.5m	
StartRequestTime	17-05-12 16:54	
Web Link	http://win-techwr:10279/ts_default_MP/	
		Logs

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Fig. 10. "Application" tab

The tab contains the application name, status, version number, memory used, etc. It also contains the {Logs} link to a tab with application logs (see "Logs" Tab").

"Configurations" Tab

The "Configurations" tab (see Fig. 11) is used to access application configuration files.

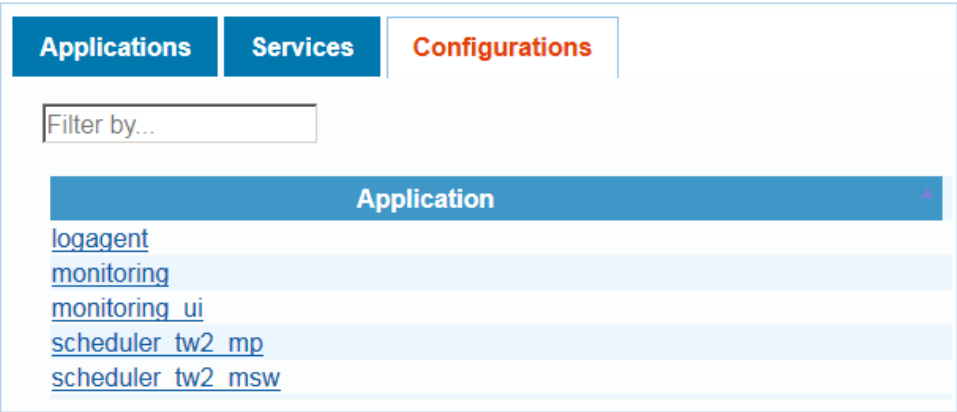


Fig. 11. "Configurations" tab

The *Application* field of this tab contains hyperlinks to the names of installed applications; opening a link shows the "Configuration" tab (see "Configuration" Tab") for editing application configuration files.

"Configuration" Tab

The "Configuration" tab (see Fig. 12) is used to work with application and application service configuration files. To access this tab, click the hyperlink with the application name in the "Configurations" tab (see "Configurations" Tab").

Configurations > monitoring

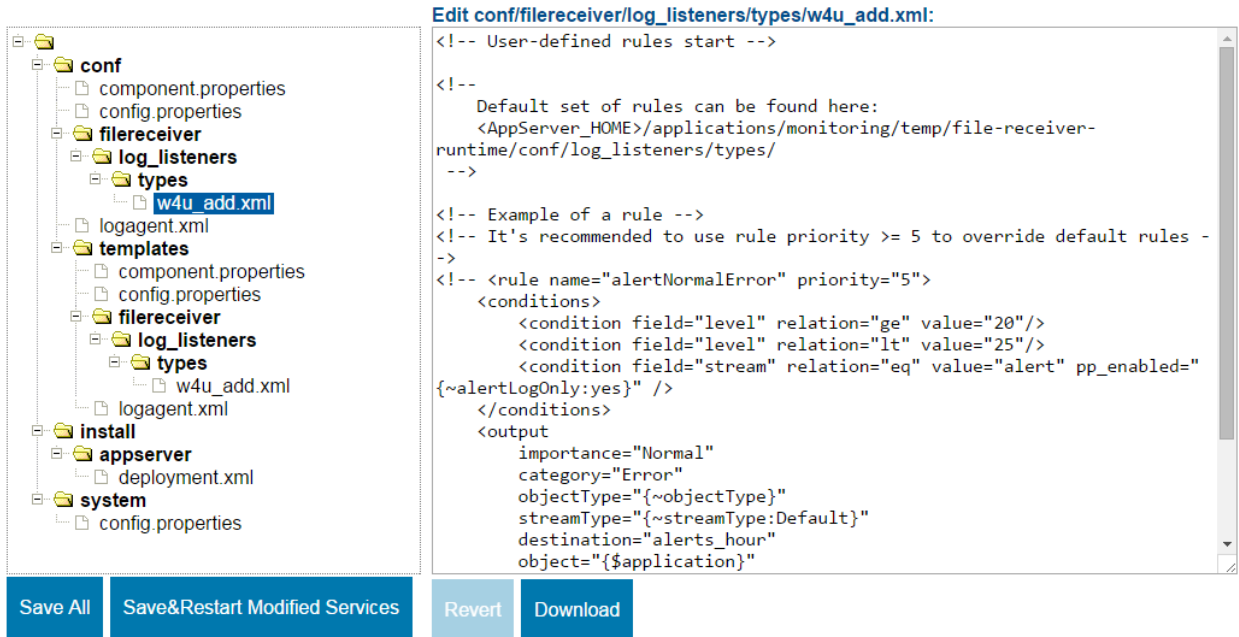




Fig. 12. "Configuration" tab

Description of elements:

- The left-hand part of the tab shows a tree of directories and application and service configuration files. Names of files that have been modified will be red.
-  Note that in the tree, files with the "*.txt", "*.properties", and "*.xml" extension are available for editing.
- The right-hand part of the tab shows the contents of the configuration file selected in the left-hand part (only for files that can be edited); this file can be edited. If an attempt is made to choose a file not intended for editing, the message "Unable to edit file of this type" will be shown in the right-hand part of the tab.
- [Save All] – save all changes. The [Revert] button will be inactive after changes have been saved.
- [Save&Restart Modified Services] – save all changes and restart application services. The [Revert] button will be inactive after all changes have been saved.
- [Revert] – cancel unsaved changes to the configuration file. The content of the file at the last time of saving will be restored.
- [Download] – save the selected configuration file on the local computer.

 If an attempt is made to leave the tab without saving changes, a warning will be displayed. Leaving the tab without saving changes causes them to be irreversibly lost.