



Cumulus Web Service 7.5

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Overview

Cumulus Web Service provides the technology that allows external processes (e.g. applications) to use a collection of Cumulus operations in a platform- and programming language-independent manner. The Cumulus operations can be accessed over the network through standardized XML messaging. Cumulus Web Service uses SOAP (Simple Object Access Protocol) as messaging protocol. WSDL (Web Services Description Language) is used to describe the operations.

System Requirements

- Windows Vista (and latest patches), Windows Server 2003 (SP2 and latest patches*), Windows XP (SP2 or latest patches*) or Windows 2000 (SP4 and latest patches*) – all including Microsoft Windows Installer 3.1 * *patch status 06/2006*
- Mac OS X version 10.4 (or later) or Mac OS X Server version 10.4 (or later)
- Sun Solaris 8 or later
- Linux x86 (libc6, kernel 2.4, glibc 2.3.2)
Not supported: Red Hat Linux 8.x; SuSE Linux 8.x (without any patches) and lower
- SUN Java2 (J2SE) 1.4.2 or higher
- Cumulus Server 7.5 or later with an active Cumulus Web Service Read/Write or Read Option serial number.
- Cumulus Java Classes 7.5
- Web Application Server supporting Servlet API 2.3 or later (e.g. Apache Jakarta Tomcat 5.5)

Installation

1. Add the CumulusJC.jar file of your Cumulus Java Classes Installation to the CLASSPATH environment of your Web application server.
For Tomcat Web application server for example:
You can add the path in the setclasspath.bat/setclasspath.sh behind the lib\tools.jar entry.
2. Deploy the CumulusWS.war web application to your Web application server.
For Tomcat Web application server:
Copy the CumulusWS.war file into the webapps folder and restart Tomcat.

Checking the Installation

To check if the Cumulus Web Service is correctly deployed:

Open the URL: "http://<localhost>:<8080>/CumulusWS/services" in a web browser (<localhost> is the host name and <8080> the port number your application server is running on.

You should see a page listing the Cumulus web service with is provided operations.

Configuring the Installation

You can configure the locations where the Cumulus Web Service stores assets and whether debug logging is active or not.

To change the storage locations you must change the default folders in the web.xml configuration file. You can find the file in the subfolder WEB-INF of the CumulusWS folder inside the webapps folder of your Web application server folder, e.g.: C:\Program Files\apache-tomcat-5.5.17\webapps\CumulusWS\WEB-INF

To change the default folders, you have to replace the corresponding parameter values with paths of the desired folders. To change the folder used by

- **checkout and checkin**
change the value of `<param-value>cumulusWS/checkout</param-value>` to the path of the desired folder.
- **catalogAssets**
change the value of `<param-value>cumulusWS/catalog</param-value>` to the path of the desired folder.
- **getAssets**
change the value of `<param-value>cumulusWS/tmp</param-value>` to the path of the desired folder.

NOTE: The paths of the folders are interpreted as relative to the WEB-INF unless you specify them as absolute.

In addition to error logging you can activate debug logging. But note that this will slow down the system performance. To have debug logging activated, you need to change the log4j.xml file (located in the WEB-INF folder). In the following block

```
<category name="com">
  <priority value="error"/>
  <appender-ref ref="CONSOLE"/>
  <appender-ref ref="CUMULUS_LOG"/>
</category>
```

change `<priority value="error"/>` to `<priority value="debug"/>`.

Using the Web Service

Calling the URL: "http://localhost:8080/CumulusWS/services/Cumulus?wsdl" should display the WSDL-File which you should use as an interface for your client applications.

IMPORTANT SECURITY NOTE: Due to the XML messaging employed, passwords are transmitted in clear text. It is recommended that you use a secure transport protocol, e.g. https.

Known Issues

- To avoid that temporary folders which are created when assets cataloged with the Cumulus Web Service remain forever in the Catalog Folder (default: WEB-INF/ cumulusWS/catalog folder), you should use an Asset Handling Set that has the "Copy Asset to Central Location" and the "Delete Original Asset" option activated. It is recommended that you set up such an Asset Handling Set to be used for cataloging with the Cumulus Web Service.
- Memory: For transmitting large files (> 10 MB) you might need to extend the memory for the Java VM used by your Web Application Server.

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