

# Single Sign-On for Cumulus web solutions

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## 1. Scope

By utilizing this module from Sunstone Systems, end users can start the Cumulus web interface, either Internet Client Pro (ICP) or Web Publisher Pro (WPP), without having to explicitly enter their user name and password to log in to Cumulus. This is achieved by utilizing the login which the users make prior to starting ICP/WPP, e.g. to a Windows domain or to an intranet or extranet.

## 2. System requirements

### 2.1 Platform

The module consists of two files, which are added to the Cumulus ICP/WPP application and the Cumulus Server (Workgroup or Enterprise), respectively. One of the files is added to the Cumulus web application is a JAR file and can be used on any platform that supports an application server running Cumulus ICP/WPP. The other file is added to the Cumulus Server and is currently distributed as a Windows DLL and consequently the Cumulus Server must be running on the Windows platform. This file could also be compiled for other platforms. Please contact Sunstone Systems if you are interested in this.

### 2.2 Cumulus

The module is compatible with Cumulus version 7.0 and later. When ordering the module from Sunstone Systems, you should specify which Cumulus version that it is to be used with, so that we can deliver the module compiled for this version.

## 3. Installation

### 3.1 Prerequisites

Your Cumulus web solution must be set up and configured so that the RemoteUser property is set and available for the web application. Two examples of how this can be achieved with the application server Apache Tomcat are:

1. Letting Microsoft Internet Explorer (or Mozilla Firefox) communicate the Windows user name to Microsoft Internet Information Server (IIS) using NTLM in a Windows environment and using the Apache JServ Protocol (AJP) to communicate the Windows user name from IIS to Tomcat.
2. Using authentication in Tomcat to set a user name that is available to one or more web applications, including Cumulus ICP/WPP.

If you don't know whether your web solution meets this requirement, or if you know that it doesn't but you don't know how to fix it, feel free to contact Sunstone Systems. We can provide you with professional services to evaluate your current solution, advise you on how it can be modified to support the SSO module and also to help you make any necessary changes.

### 3.2 Additional files

#### **sunstone-cumulus.jar**

The `sunstone-cumulus.jar` file should be placed in the `WEB-INF/lib` directory inside the webapp of your Cumulus web solution.

#### **Sso\_Authenticator.dll**

The `Sso_Authenticator.dll` file should be placed in the `ServerModules` directory of your Cumulus Server installation.

### 3.3 Webapp modifications

#### **web.xml**

The `web.xml` file in the `WEB-INF` directory should be modified to include the following declaration:

```
<web-app>
[... ]
  <jsp-config>
[... ]
    <taglib>
      <taglib-uri>http://sunstone.se/cumulus</taglib-uri>
      <taglib-location>/WEB-INF/lib/sunstone-cumulus.jar</taglib-location>
    </taglib>
[... ]
  </jsp-config>
[... ]
</web-app>
```

#### **selectcatalog.jspx**

The `selectcatalog.jspx` file in the `ng` directory should be modified to include the following namespace declaration and tag:

```
<jsp:root
[... ]
  xmlns:sunstone="http://sunstone.se/cumulus"
[... ]
>
[... ]
  <jsp:useBean id="CumulusBean"
    class="com.canto.cumulus.web.beans.CumulusBean"
    scope="page">
    <jsp:setProperty name="CumulusBean" property="*" />
  </jsp:useBean>
  <sunstone:sso />
  <cumulus:useServer writeAccess="true" id="CumulusServer"
    scope="session" />
[... ]
</jsp:root>
```

Please note that the order of the tags is significant, i.e. the tag `sunstone:sso` must be inserted between the two tags `jsp:useBean` and `cumulus:useServer`.



## 4. Using SSO

The SSO functionality is invoked by calling Cumulus WebPublisherPro like this:

```
http://[yourapplicationserver]:[yourport]/Cumulus/ng/selectcatalog.jspx?server=[yourcumulusserver]
```

For Cumulus InternetClientPro, substitute `Cumulus` with `CumulusE` in the URL. By using the standard login form users can log in to ICP/WPP without using SSO.

## 5. User set-up

### 5.1 Cumulus Workgroup

With Cumulus Workgroup, the Cumulus User Manager is used to define each user and to select the user's Authentication Method. Users that should utilize SSO for Cumulus Web Publisher Pro or Internet Client Pro need to have "Single sign-on" selected as their Authentication Method. Note that these users can not login to the Cumulus Server using the native Windows or Macintosh Cumulus Clients.

### 5.2 Cumulus Enterprise

With Cumulus Enterprise (or Cumulus Workgroup together the module "Roles and Extended LDAP Support"), users can be defined with the Cumulus User Manager or in an LDAP directory. Users which are defined with the Cumulus User Manager and should utilize SSO for Cumulus Web Publisher Pro or Internet Client Pro need to have "Single sign-on" selected as their Authentication Method. Note that these users can not login to the Cumulus Server using the native Windows or Macintosh Cumulus Clients. Users which are defined in an LDAP directory can utilize SSO for Cumulus Web Publisher Pro or Internet Client Pro and also login to the Cumulus Server using the native Windows or Macintosh Cumulus Clients.

## 6. Trust model

The module requires some trust between components in the system. The Java component must be able to trust the value of the `RemoteUser` property provided by the servlet engine. This trust can typically be achieved by being in control of the servlet engine environment. Since this component is located on a server, no end users or other entities should be able to manipulate the value of the `RemoteUser` property or access the JAR-file used by the Java component.

## 7. Additional information and help

Should you require more information on the SSO module or assistance when installing or using it, please contact Sunstone Systems:

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