

AWIPS-2 Reference Sheet

Localization Perspective, userRoles.xml, and the AWIPS User Administration GUI

Updated for AWIPS Build OB13.5

Introduction

The file `userRoles.xml` in `/awips2/edex/data/utility/common_static/base/roles` provides a mechanism to assign site-wide editing permissions in the Localization Perspective for specific users and specific configuration areas. Prior to AWIPS Build 13.4, this file was in `edex_static`, and it had to be manually edited with a text editor by someone who had access to the *awips* account on the EDEX server. If you should see a roles area in `edex_static`, be aware configuration files located there may be inactive. In Build 13.4, the `userRoles.xml` file was moved to `common_static`; it is also editable using the AWIPS User Administration GUI, described later. Whether edited manually or with the GUI, the site-level override version of the file should be placed in `common_static/site/***/roles/userRoles.xml`.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<nwsRoleData>
  <application>Localization</application>
  <permission id="com.raytheon.localization.site/common_static/purge"/>
  <permission id="com.raytheon.localization.site/cave_static/colormaps"/>
  <permission id="com.raytheon.localization.site/cave_static/ffmp"/>
  <permission id="com.raytheon.localization.site/cave_static/fog"/>
  <permission id="com.raytheon.localization.site/common_static/fog"/>
  <permission id="com.raytheon.localization.site/cave_static/safeseas"/>
  <permission id="com.raytheon.localization.site/common_static/safeseas"/>
  <permission id="com.raytheon.localization.site/cave_static/snow"/>
  <permission id="com.raytheon.localization.site/common_static/snow"/>
  <permission id="com.raytheon.localization.site/cave_static/scan"/>
  <permission id="com.raytheon.localization.site/cave_static/aviation/config"/>
  <permission id="com.raytheon.localization.site/cave_static/aviation/tmp"/>
  <permission id="com.raytheon.localization.site/cave_static/monitorIcons"/>
  <permission id="com.raytheon.localization.site/cave_static/alertViz"/>
  <permission id="com.raytheon.localization.site/common_static/hydro"/>
  <permission id="com.raytheon.localization.site/common_static/gfe"/>
  <permission id="com.raytheon.localization.site/cave_static/gfe/combodata"/>
  <permission id="com.raytheon.localization.site/cave_static/gfe"/>
  <permission id="com.raytheon.localization.site/common_static/isc"/>
  <permission id="com.raytheon.localization.user/common_static/gfe"/>
  <permission id="com.raytheon.localization.site/cave_static/gfe"/>
  <permission id="com.raytheon.localization.site/common_static/ffmp"/>
  <permission id="com.raytheon.localization.site/common_static/scan"/>
  <permission id="com.raytheon.localization.site/common_static/monitoring"/>
  <permission id="com.raytheon.localization.site/cave_static/scan/config/trendSets/CellTrendSets.xml"/>
  <permission id="com.raytheon.localization.site/cave_static/aviation/avnwatch"/>
  <permission id="com.raytheon.localization.site/common_static/radar/rmr/rmrAvailableRequests.xml"/>
  <permission id="com.raytheon.localization.site/common_static/shef"/>
  <permission id="com.raytheon.localization.site/common_static/roles"/>
  <permission id="com.raytheon.localization.site/common_static/datadelivery"/>
  <permission id="com.raytheon.localization.site/common_static/archive"/>
  <permission id="com.raytheon.localization.site/cave_static/menus"/>
  <permission id="com.raytheon.localization.site/cave_static/bundles"/>
  <permission id="com.raytheon.localization.site.OUN/cave_static/derivedParameters/functions/Cape.py"/>
  <user userId="ALL">
    <userPermission>com.raytheon.localization.site/common_static/purge</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/colormaps</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/ffmp</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/fog</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/fog</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/safeseas</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/safeseas</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/snow</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/snow</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/scan</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/aviation/config</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/aviation/tmp</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/monitorIcons</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/alertViz</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/hydro</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/gfe</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/gfe/combodata</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/gfe</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/isc</userPermission>
    <userPermission>com.raytheon.localization.user/common_static/gfe</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/gfe</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/ffmp</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/scan</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/monitoring</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/scan/config/trendSets/CellTrendSets.xml</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/aviation/avnwatch</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/radar/rmr/rmrAvailableRequests.xml</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/shef</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/roles</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/datadelivery</userPermission>
    <userPermission>com.raytheon.localization.site/common_static/archive</userPermission>
  </user>
  <user userId="dmorris">
    <userPermission>com.raytheon.localization.site/cave_static/bundles</userPermission>
    <userPermission>com.raytheon.localization.site/cave_static/menus</userPermission>
  </user>
  <user userId="aanderson">
    <userPermission>com.raytheon.localization.site.OUN/cave_static/derivedParameters/functions/Cape.py</userPermission>
  </user>
</nwsRoleData>
```

A sample SITE level `userRoles.xml` file (the baseline file plus the additions in the blue and red boxes). The additions grant the "dmorris" user permission to edit site-level bundles and menus and the "aanderson" user the ability to create and edit a site-version of the derived parameter function for CAPE.

Permissions

Permissions must first be defined. Once defined, they can be assigned to individual users or be defined as a user role (e.g., a GFE Focal Point, D2D Focal Point, etc) as groups of permissions. Permissions can be as generic as `com.raytheon.localization.site` (can edit any SITE file in the Localization Perspective) or as specific as `com.raytheon.localization.site/cave_static/bundles/volume/DefaultFamily.xml` (can edit only one specific bundle XML file). Thus, users can be limited to a certain level, directory, site, or file. Users can be limited to editing a specific site such as `com.raytheon.localization.site.BOU`.

Many common permissions are already defined and included in the BASE version of `userRoles.xml`. However, the base file does not include every conceivable permission, so additions may or may not be required depending on local needs. For example, the blue and red boxes in the figure on the previous page illustrate three additional permissions granted to two particular users.

Syntax of Permissions for User Roles

userPermission rolePermssion or Permission id	<p>Files or directories for which the control is valid</p> <pre>com.raytheon.localization.<level>.<specificLevel>/<type>/<directory structure>/<filename></pre> <p>level – Configuration level such as user, workstation, site, etc. specificLevel – Specific site (such as OAX) or workstation (lx2), etc. type – Configuration type such as cave_static, common_static, cave_config. directory structure/filename – Path and/or filename to allow editing permission.</p> <p>Only level is required. All other parts of the role are optional and are used depending on how the permission needs to be assigned.</p>
User ID	<p>There are two possible entries:</p> <p>userId -- System user id to grant access to a specific user. There is no limit to the number of users allowed for a given role.</p> <p>ALL – Gives all users access to the given role.</p>
Description	<p>Permissions can have an optional embedded <code><description></description></code> tag.</p>

Note: Other permissions (outside of `userRoles.xml`) can be granted on the system. These permissions are seen in other files residing in `common_static/base/roles` in the Utility Tree.

Examples

Give access to edit all files at the site level for any site

```
<permission id="com.raytheon.localization.site"/>
```

Give access to the site-level `monitorIcons` directory for any site

```
<permission id="com.raytheon.localization.site/cave_static/monitorIcons"/>
```

Give permission to edit any site files in cave_static for OAX

```
<permission id="com.raytheon.localization.site.OAX/cave_static"/>
```

Give permission to edit the Volume Browser levelmappingfile.xml file for any site

```
<permission  
id="com.raytheon.localization.site/cave_static/volumebrowser/LevelMappingFile.xml"/>
```

Give permission to edit OUN's SITE version of the CAPE derived parameter, with a description.

```
<permission  
id="com.raytheon.localization.site.OUN/cave_static/derivedParameters/functions/Cape.py">  
  <description>Grants permission to edit the CAPE derived parameter function  
  </description>  
</permission>
```

Roles

Roles are groups of permissions. They allow you to assign the same permissions to multiple people who perform the same role, like a D2D focal point, who might be given permission to edit menus, bundles, style rules, and derived parameters. This is an alternative to assigning the same permissions to multiple users.

Here is an example of defining the role for the D2D focal point:

```
<role roleId="D2DFocal">  
  <roleDescription>Grants permission for the D2D focal point  
  </roleDescription>  
  <rolePermission>com.raytheon.localization.site/cave_static/menus</rolePermission>  
  <rolePermission>com.raytheon.localization.site/cave_static/bundles</rolePermission>  
  <rolePermission>com.raytheon.localization.site/cave_static/styleRules</rolePermission>  
  <rolePermission>com.raytheon.localization.site/cave_static/derivedParameters</rolePermission>  
</role>
```

Once defined, the roles can be assigned to individual users:

```
<user userId="dmorris">  
  <userRole>D2DFocal</userRole>  
</user>  
<user userId="aanderson">  
  <userRole>D2DFocal</userRole>  
</user>
```

Individual permissions and roles can also be combined for an individual user:

```
<user userId="dmorris">  
  <userRole>D2DFocal</userRole>  
  <userPermission>com.raytheon.site.OUN/cave_static/cloudheight</userPermission>  
</user>
```

Another example of defining a role for a GFE focal point and assigning the role to particular users is provided on the NCLADT wiki: <https://collaborate.nws.noaa.gov/trac/ncladt/wiki>.

The AWIPS User Administration GUI

The AWIPS User Administration GUI provides a graphical way of editing the userRoles.xml (and the corresponding permissions files for other applications). However, as of AWIPS Build 13.5, the GUI is a work in progress and it doesn't yet provide for comprehensive editing of these files. These other applications include Data Delivery, User Administration, Localization, and Official User Product (OUP).

For the userRoles.xml file, the GUI uses the top section of the file (where the individual permissions are defined) to populate the GUI with permissions that can be assigned. The GUI edits the bottom section of the file to assign permissions and roles.

After first launching the GUI, you need to choose the Component. It defaults to User Administration, but you can select Localization, Data Delivery, and Official User Product from this box.

Once in a particular component, you can define new users, new roles, and new permissions, by clicking on the New button. Be aware that the Edit button applies to whatever is selected in the left-hand box, not the right-hand box.

One other caution: Once a permission ID, user ID, or role ID is defined, it cannot yet be changed in the GUI. Hence, if you make a typographical error in a permission ID (which may be common since the IDs can be lengthy), you **must** use a text editor to manually correct your error.

Assigning (or removing) permissions, once defined, is relatively straight-forward in the GUI. Simply pick one or more permissions from the left box or right box and use the appropriate arrow buttons to the move back and forth between the Available and Selected boxes.

