TETRA TECH

OSC ON-SCENE COORDINATOR

Introduction

This document describes the steps and elements required to secure your hosted Web AppBuilder (WAB) for ArcGIS application with EPAOSC Authentication. By implementing the procedures detailed below, a GIS Developer can securely host their WAB application and make it accessible through an EPAOSC map page.

Requirements

- LocalLayerWidget 1.2.2.
  - Allows for the direct addition of ArcGIS for Server Map Services to a WAB, without needing to wrap the desired services in an ArcGIS Online/Portal Web Map.
  - LocalLayerWidget: https://github.com/cmndrbensisko/LocalLayer
- The R7Validate_MMDDYY.zip file.
- Access to an EPAOSC website with Modify privileges to the site.

Overview

Hosted WAB applications can be made accessible through an EPAOSC website at https://www.epaosc.org/site/map_list.aspx?site_id=<YOUR_SITE_ID>. Access to this page requires that a user first login to the website at https://www.epaosc.org/site/login.aspx.
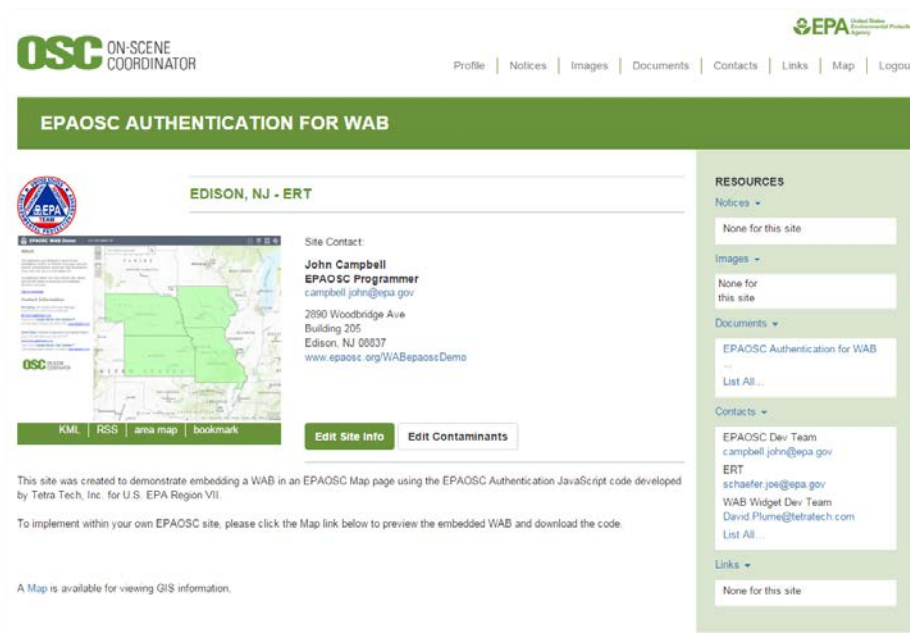
Site maps are specified in the site profiles page, under the heading "Website Profile" (https://www.epaosc.org/site/site_profile_update.aspx?site_id=<YOUR_SITE_ID>). The profile specifies a map URL; the following example points to a development WAB on the R7 ER Cloud.

Site maps specified by the profile map URL are called from the EPAOSC site using an EPAOSC Token. This Token is used in the WAB validation process to allow or deny access to the WAB.

If the WAB URL is called directly (e.g. https://r7.ercloud.org/EPAOSC_WAB_DemoLL/) the validation routine will detect that no token is present and redirect the user back to the EPAOSC login page. The redirect URL string includes a callback by Site ID argument. This callback allows the user to be redirected back to the WAB after login.

The validation code validates tokens using AJAX GET to the EPAOSC service: https://www.epaosc.org/svc/auth/ValidateToken.ashx?EPAOSC_Token=<TOKEN_HERE>.
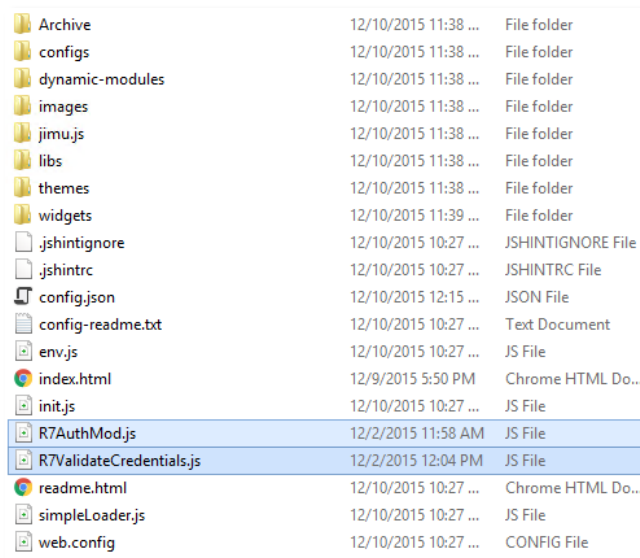
Installation Steps

WAB installations may be upgraded to include the validation described in the Introduction by following the steps below:

1. Extract the files from the R7Validate_MMDDYY.zip.
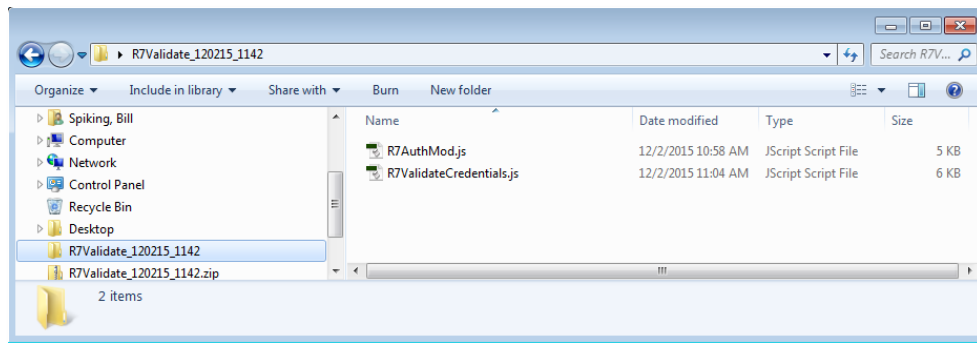
2. Copy the R7AuthMod.js and the R7ValidateCredentials.js files to the root folder of your WAB.

3. In the WAB root folder open the index.html file and insert the following references to the files extracted in Step 1. These are inserted into the Body section **AFTER** simpleloader.js and **BEFORE** init.js.

    <script type="text/javascript" src="R7AuthMod.js"></script>
    <script type="text/javascript" src="R7ValidateCredentials.js"></script>

```
130
131         <script src="env.js"></script>
132         <script type="text/javascript" src="simpleLoader.js"></script>
133
134  ⊟       <!--
135
136         The following two modules handle some simple authentication
137         calling the EPA_OSC Token validation service. These modules expect
138         a valid token on startup - if the token is not present or valid
139         the flow redirects to the EPA OSC login with a call back url
140
141         -->
142
143         <script type="text/javascript" src="R7AuthMod.js"></script>
144         <script type="text/javascript" src="R7ValidateCredentials.js"></script>
145
146         <script type="text/javascript" src="init.js"></script>
147     </body>
148  └</html>
```

    NOTE: for development and testing other parts of your WAB you can override the behavior of this install by simply commenting out these three <script> references with the <!-- --> html comment symbols.

4. Add the jQuery library to the HEAD of the WAB index.html.

    <script type="text/javascript" src="http://r7.ercloud.org/jsapis/jquery/jquery-1.11.3.min.js"></script>

```
97      <!-- Support for validation -->
98      <script type="text/javascript" src="http://r7.ercloud.org/jsapis/jquery/jquery-1.11.3.min.js"></script>
```

5. Update *R7ValidateCredentials.js* to specify the EPAOSC Site ID as appropriate for this WAB. The Site ID is the EPAOSC numeric identifier for each site. This value is used to compose a callback URL.

```
117    var sSiteId = "11265"
118    var sLoginUrl = "https://www.epaosc.org/site/login.aspx?ReturnURL=/site/map_list.aspx/?site_id=" + sSiteId;
```

Contact Information

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