



Web Map Server Descriptions

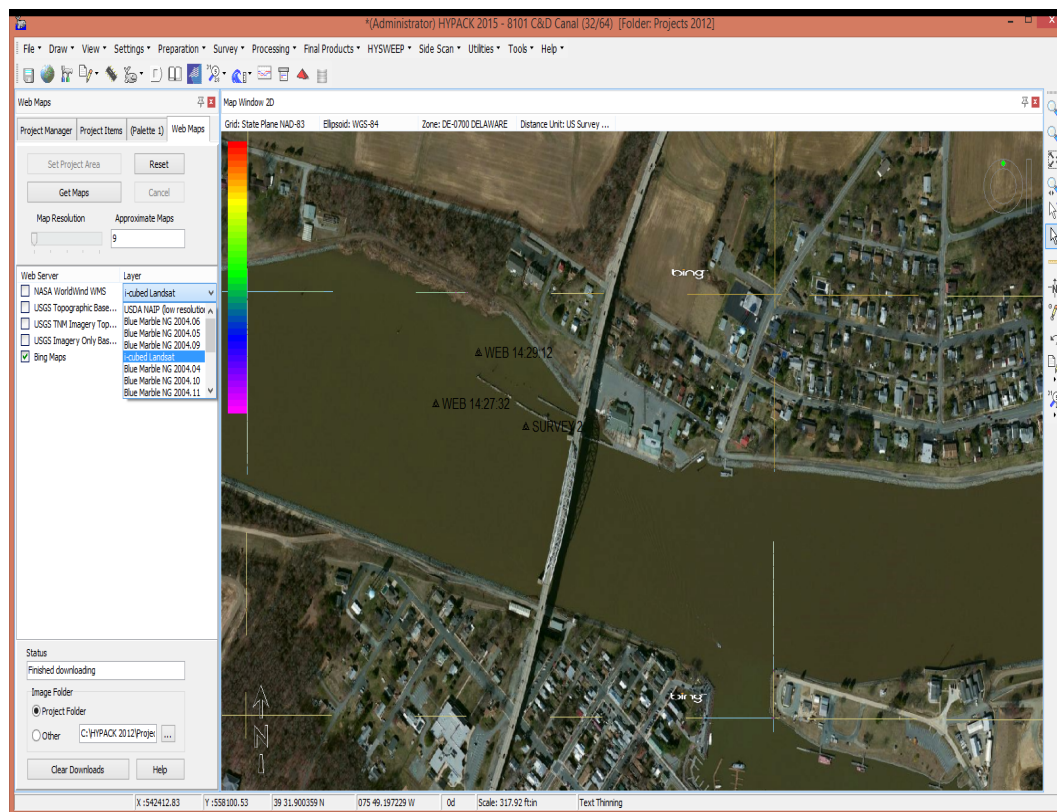
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In HYPACK® 2015, you are able to add and edit their own servers to the Web Map Service list. Many companies host their own Web Map Services (WMS). These services include things like satellite imagery, topography, weather, storm warnings, forecasts, and more. A single WMS server may contain several “layers” of information from which you can select to get different images from the same server.

HYPACK® 2015 comes with a few servers already added:

- The **NASA** server has the USDA NAIP layer, which provides low-detail satellite imagery for most of the USA. Clicking the drop-down menu for the layers reveals a list of other layers. Most of these are old, but one useful one is the i-cubed Landsat, which provides low-detail satellite imagery for the rest of the world.

FIGURE 1. *Selecting the i-cubed Landsat Layer of the Bing Server*



- There are **3 USGS WMS servers**, each with one layer. Most services provide these layers in one server, but USGS has split it into multiple servers. The first one provides a topographical map with roads and borders. The second one adds a satellite image behind the topographic information. The third one is just the imagery. This is only available in USA.
- Finally, **Bing Maps** is an option for users outside of the US. Unfortunately, this requires a yearly subscription that costs \$300 for 5 users. You can go to <http://>

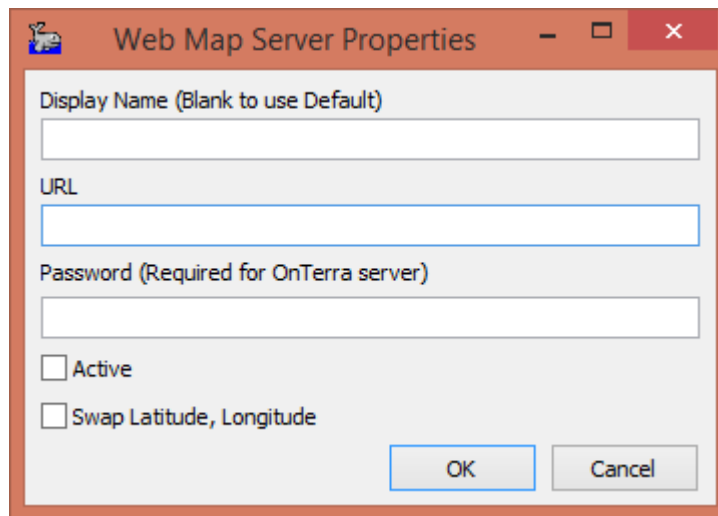
register.onterrasystems.com/wms.aspx to sign up and request a password. Once you have a password, right-click Bing Maps and click Properties. Paste the password into the password field and click [OK]. The server should now update with layer information. Bing only provides a satellite image layer. Fortunately, this is worldwide and high-resolution.

A list of servers is available at <http://nowcoast.noaa.gov/help/mapservices.shtml?name=mapservices>. Many other servers are available online from other sources as well.

ADDING A SERVER TO THE WEB MAP SERVER LIST

1. **Right-click the Web Server list and select Add Server.** The only required field is the URL field.

FIGURE 2. *Adding a Web Server*



The image shows a Windows-style dialog box titled "Web Map Server Properties". It has a standard title bar with a small icon on the left and minimize, maximize, and close buttons on the right. The dialog contains the following elements:

- A text input field labeled "Display Name (Blank to use Default)".
- A text input field labeled "URL".
- A text input field labeled "Password (Required for OnTerra server)".
- Two checkboxes: "Active" and "Swap Latitude, Longitude".
- Two buttons at the bottom right: "OK" and "Cancel".

2. **Copy the URL for a specific service (labeled as GetCapabilities URL), delete everything after the question mark ('?'), and paste it into the URL field in HYPACK® 2015.**
3. **Click [OK].**

Remember to click the checkbox next to any new servers you've added before getting maps to make sure you'll get images from those servers. If no imagery appears for a server you've added, make sure the URL is formatted correctly and that the server you're using has coverage for your area.