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Enterprise Route Management

Configure Basemaps

**Prepared for:**

ERM Customers

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1. Overview

The Route Planner application supports toggling between a Default and an Alternate basemap. There are many publicly available basemaps that Esri maintains. Administrators can also setup custom basemaps in Portal. Instructions below.

Both vector and raster basemaps are supported.

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|  | * Basemaps are defined when a plan is created. If changes are made to either Default or Alternate basemap, any existing Plans will not be adjusted. |

1. Default Basemap

The default basemap is set in the ERM API configuration. This is found where you have installed ERM, under middleware\src\config\config.js

* 1. Basemap Definition

If using a vector basemap, you will need to use the *planBasemapDefinition* section in the API config.

See developer help for more details on configuring the section.

* <https://developers.arcgis.com/web-map-specification/objects/baseMap/>
* <https://developers.arcgis.com/web-map-specification/objects/baseMapLayer/>

config.planBasemapDefinition = {

baseMapLayers: [

{

id: "VectorTile\_6361",

type: "VectorTileLayer",

layerType: "VectorTileLayer",

title: "World Navigation Map",

styleUrl: "https://cdn.arcgis.com/sharing/rest/content/items/63c47b7177f946b49902c24129b87252/resources/styles/root.json",

visibility: **true**,

opacity: 1,

},

],

title: "Navigation",

};

Tip: You can use AGOL Assistant to pull the JSON for existing basemaps.

1. In your Portal, create a Web Map with the Basemap you want to use.
2. Log into [AGOL Assistant](https://ago-assistant.esri.com/)
3. Choose the “View Item JSON” option and select your Web Map
4. Scroll down and find the Basemap section
5. Copy and Paste the basemap parameters into the API configuration file

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| --- | --- |
|  | * As of release 4.1, “national-geographic” basemap is no longer supported in the underlying Javascript API that ERM uses. |

* 1. Single URL

To support pre 3.5 versions, the *config.planBasemapUrl* value is still available and supports URLs for Raster Basemaps.

The full URL will need to be added to *config.planBasemapUrl*, for example, URL and tag information for these can be found <https://developers.arcgis.com/javascript/latest/api-reference/esri-Map.html#basemap>

1. Alternate Basemap

The alternate basemap is set in the config.json file for the application. This is found on the web server under wwwroot\routeplanner\config.json. Path could be different depending on your hosting server.

The “alternateBasemap” setting is in the “preferences” section. When using the public Esri basemaps, place the tag value rather than the full URL. Such as “hybrid” or “satellite”. Tag values can be found here:

<https://developers.arcgis.com/javascript/latest/api-reference/esri-Map.html#basemap>

Use tags from the “For use without an API key” section.

1. Using Custom Basemap

Administrators can create a custom basemap with different layers through Portal.

1. In Portal, create a new web map
   1. Recommend to store in same location as the web map and application items used by Route Planner
2. Open the web map
3. Add the layers you want in the basemap
   1. For example, can search the Living Atlas under Add and add the “World Boundaries and Places” and “World Transportation” layers
4. For each layer added, click the 3 dots on the layer and choose Move to Basemap
5. Save your webmap
6. Share your web map with your organization
7. Copy the ID out of the URL of the web map
8. Put the ID in the “alternateBasemap” setting in the web app configuration file
9. Document History

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| --- | --- | --- |
| Date | Description | Editor |
| 7/17/2020 | Initial version | Mike Nelson |
| 8/20/22 | Updates for 3.5 – support for vector basemaps | Mike Nelson |
|  | Updates for 4.1 – remove support for national\_geographic |  |
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