Last Update: July 2, 2021

Enterprise Route Management

Configure Web Application

**Prepared for:**

ERM Customers

Contents

[1.0 Overview 3](#_Toc77006947)

[1.1 Configuration File 3](#_Toc77006948)

[2.0 Preferences 4](#_Toc77006949)

[3.0 Tables and Fields 6](#_Toc77006950)

[3.1 Name, Alias, and Width 6](#_Toc77006951)

[3.2 Visibility 6](#_Toc77006952)

[3.3 Sequence 6](#_Toc77006953)

[3.4 Editable 7](#_Toc77006954)

[3.4.1 Edit by Order Type 7](#_Toc77006955)

[3.5 Edit Location 8](#_Toc77006956)

[3.6 Type 8](#_Toc77006957)

[4.0 Popups 10](#_Toc77006958)

[5.0 Layer Index 11](#_Toc77006959)

[Appendix A Revision History 12](#_Toc77006960)

1. Overview

The Route Planner application uses a configuration file that controls many aspects of the application. These configurations include:

* Field visibility and order in all tables
* Editability of fields
* Controls specific functionality

If there is a configuration value found in the file that is not listed in this document, it should not be changed.

* 1. Configuration File

The configuration file for the web application is the config.json file under the root folder of the web application (normally named routeplanner).

1. Preferences

The preferences section contains controls for general functionality of the application.

* "alternateBasemap"
  + See the [Basemap Configuration](https://github.com/EsriPS/enterprise-route-management/blob/master/Configuration/Basemap%20Configuration.docx) document for details
* "timePickerDefaultHour"
  + Sets the default time on Create Plan Page
* "allowMaxWeightRecalculation”
  + If set to true, when user manually assigns orders to a route whose weight exceeds the max weight on the route, application will ask if they want to automatically increase max weight of route.
* "showEmptyCollections"
  + When set to true, the Collections tab will be hidden if there are 0 or 1 collections for a plan.
* "useOrderPairs"
  + When set to true, the application will assume that all orders are part of a pair (Pickup and Delivery). Certain functionality will be altered, such as not allowing manual re-sequencing.
* "showDashboardControls"
  + When set to true, the Create Dashboard and Open Dashboard buttons will be available. See [Dashboard Deployment Guide](https://github.com/EsriPS/enterprise-route-management/blob/master/Install-Deployment/ERM%20Dashboard%20Deployment%20Guide.docx) for more detail.
* “quickGPCheckInterval”, “slowGPCheckInterval”
  + A delay added onto the end of Create Plan, Refresh, Solve, Commit, Create Dashboard for when it checks that the geoprocessing service is complete.
    - Note that these values may need to be increased to give your BSI code time to complete.
  + “quickGPCheckInterval” applies to Refresh and Commit.
  + “slowGPCheckInterval” applies to the other functions.
* "allowClearAssignedOrders"
  + Controls the visibility of the Clear Assigned Orders button on Routes tab
* “allowAssignPickupOrders”
  + Controls if users can manually assign Pickup orders. When set to false, the selection box for Pickups will be disabled and logic will prevent user from manually adding or moving between routes.
* “allowAssignLoadedCompletedExceptionOrders”
  + Controls if users can manually assign orders that are in progress (as determined by GeoOrderState value). Usually updated with Workforce.
  + When set to false, any order with a GeoOrderState value will have its selection box disabled so it cannot be manually removed or reassigned.
  + Recommended to always have set to false.
* “showDateTimeTextDescription”
  + When set to true, some time stamps will have a text description, such as “16 minutes ago” or “within the last hour”. When set to false, always get specific time stamp.
* “timeUnits”
  + Defines units of time that fields with “fieldTypeTime” are stored in. Minutes, Hours, Days are valid values.
* “displayDays”
  + Affects fields configured with “fieldTypeTime” type. When true, format will be DD:HH:MM. When false, format will be HH:MM.
* “showOrderAssignmentSuccessMessage”
  + When set to false, will not see a success message when manually assigning, reassigning, or removing orders. This can improve productivity if doing lots of manual changes.
* “allowReloadPlan”
  + When set to true, the Reload Plan button will be visible. When run, this will pull in any changes from the Plan feature service without having to run a Refresh or close/open plan. This is most applicable when using Workforce, if you want to quickly pull in any changes drivers have made without pulling in updates from business system.
* “alternateReloadPlanButtonText”
  + Allows the Reload Plan button to have different text.
* "allPlansTableDefaultSortField"
  + Default field that All Plans table is sorted by. If left blank will show in same order as Registry table which reflects the order that plans were created.
* "allPlansTableDefaultSortDescending"
  + Default setting for how records in All Plans table are sorted. Set to true or false for descending or ascending.

1. Tables and Fields

Each of the tables can be customized to

* "planTableFields"
  + This section controls the configuration for the All Plans table
* “collections”
  + This section controls the configuration of the Collections table
* “orders”
  + This section controls the configuration of the Orders table. This includes Unassigned Orders, Assigned Orders, and Orders viewed under Collections.
* “routes”
  + This section controls the configuration of the Routes table.
  1. Name, Alias, and Width

These are basic configuration for each field.

* “name”
  + This must match the name of the field in the feature service.
* “alias”
  + How the field is visible to the user. Does not need to match the alias of the field in the feature service.
* “width”
  + How wide the field column will be by default.
  1. Visibility

By default, all fields are visible. There are two tags to use to control visibility.

* “hidden”
  + When true, the field is turned off by default but the user can turn on in the Hide/Show section
* “hiddenAlways”
  + When true, the user never sees the field. Note that the application will still see the field so if it is used for any calculations hiding always will not affect functionality.
  1. Sequence

To change the sequence (order) of how the fields appear in the table, simply change the order they are listed under each table section.

* 1. Editable

Each field in each table can be controlled individually to define if user can edit.

* “editable”
  + If true, user can edit. If not defined the field will be editable.
    1. Edit by Order Type

If using more than one delivery type, whether fields are editable can be controlled by type. The “default” value is if an order is not defined as listed type.

"name": "assignmentrule",

"alias": "Assignment Rule",

"editable": {

"byRowField": {

"stoptype": {

"Delivery": true,

"Pickup": true

},

"default": true

}

.

.

"name": "assignmentrule",

"alias": "Assignment Rule",

"editable": true,

.

.

.

* 1. Edit Location

In the “orders” table, there is a unique field “\_editLocation” that controls whether the user can edit the physical location of an order point. And what type of edit can be made. Each type can be further divided by order type.

* “map”
  + If set to true, user will have option of moving order location by clicking on the map.
* “list”
  + If set to true, user will have option to choose from a list of locations and can select to move order to that point.
  + The MDM\_Locations feature service must also have points for the list to be populated.

|  |  |
| --- | --- |
|  | "name": "\_editLocation",  "alias": "Location",  "editableType": {  "byRowField": {  "stoptype": {  "map": {  "Delivery": true,  "Pickup": false  },  "list": {  "Delivery": true,  "Pickup": false  }  },  "default": true  }  .  . |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

* 1. Type

For fields, a type can be defined. If the type is not listed below, it is only reflecting the type in the feature service and is a placeholder for possible future functionality.

* “fieldTypeTime”
  + If field has this type, Route Planner will convert to display in HH:MM or DD:HH:MM format.
  + Is used in conjunction with “timeUnits” and “displayDays” settings.
  + For example, 130 would become 02:10.

1. Popups

The attributes that are displayed in popups when you click on a feature in the map are configured in the “popupTemplates” section. There is a section for “orders” and “routes”.

* “title”
  + Text and field displayed at top of popup.
* “fieldInfos”
  + Which fields are displayed in the body of the popup. Can add as many fields as needed.
  + “fieldname” matches the field name in the feature service
  + “label” is what is shown in the popup, comparable to alias.

"orders": {

"title": "Order ID: {orderid}",

"content": [

{

"type": "fields",

"fieldInfos": [

{

"fieldName": "specialty",

"label": "Specialty"

},

{

"fieldName": "routeid",

"label": "Route ID"

}

.

.

.

1. Layer Index

In the data section, there is a place to set the index values for the different layers. These are based on the ERM\_Plan\_Template feature service.

* "planRoutesLayerId"
* "planOrdersLayerId"
* "planCollectionsLayerId"
* "planSpecialtiesLayerId"
* "planZonesLayerId"
* "planMetadataLayerId"
* "orderPairsLayerId"

1. Revision History

|  |  |  |
| --- | --- | --- |
| Date | Description | Editor |
| 9/16/2020 | Initial version | Mike Nelson |
| 3/3/2021 | Update for interval config | Mike Nelson |
| 3/22/2021 | Detail on interval config and Clear Assigned Orders | Mike Nelson |
| 4/8/2021 | Added detail on showDateTimeTextDescription, allowAssignPickupOrders and allowAssignLoadedCompletedExceptionOrders | Mike Nelson |
| 4/29/2021 | Added values for the Time Display configuration | Mike Nelson |
| 5/21/2021 | Updates for Reload Plan and Show Message | Mike Nelson |
| 5/24/2021 | New section with layer index details | Mike Nelson |