

Rationale for building EMMA

As many of you know, MnDOT implemented the Linear Referencing System (LRS), an Esri Suite of tools, in 2015 and replaced the TIS (Roadlog) system. The data in TIS (Roadlog) and BaseMap are no longer being updated and have been frozen/outdated as of January 2014.

As new applications are being implemented at MnDOT, there is a need for them to integrate with LRS data. There will NOT be any old, TIS data in these applications – only LRS data. Because of this, all location data interactions for these new systems/applications, must reference LRS data. Old applications/systems which have not yet been updated/converted to LRS data should still use old TIS/GIS Basemap location data. Please verify which data any applications you are interacting with use. This application is only to integrate/provide location data for use in LRS integrated/converted systems.

The Enterprise MnDOT Mapping Application (EMMA) is a new application that has been developed which references the most current version of LRS data. It does not reference the Highway Performance Monitoring System (HPMS) snapshot version, which is used by some converted systems such as CHIMES or FMIS. For measures to match those systems please use the Roadway Project Mapping Application (RPMA) which is only available internally.

- EMMA is for users wishing the most current LRS data & locations. RPMA should be used for those needing to match the most recent HPMS data and locations.
- RPMA should be used when segmentation of a project components is needed for the different federal fund types on a project as is required for federal authorization.
- The Logpoint Listing is using old, frozen TIS data (from 2014) and should no longer be used in updated systems. If True Miles for the Logpoint listing continue to be used, there is the risk that you will be corrupting data in newer systems.
- The Videolog is using old, frozen TIS data (from 2014) and should no longer be used in updated systems. If True Miles for the Videolog continue to be used, there is the risk that you will be corrupting data.

Frequently asked questions

Who do I contact to send comments on or ask questions about the app?

There are contact links under the 'About this App' tool in the applications upper right corner (the tool looks like a circle with an 'i' in the center).

Why is it when I try to 'Print' a map I get a busy signal that just hangs?

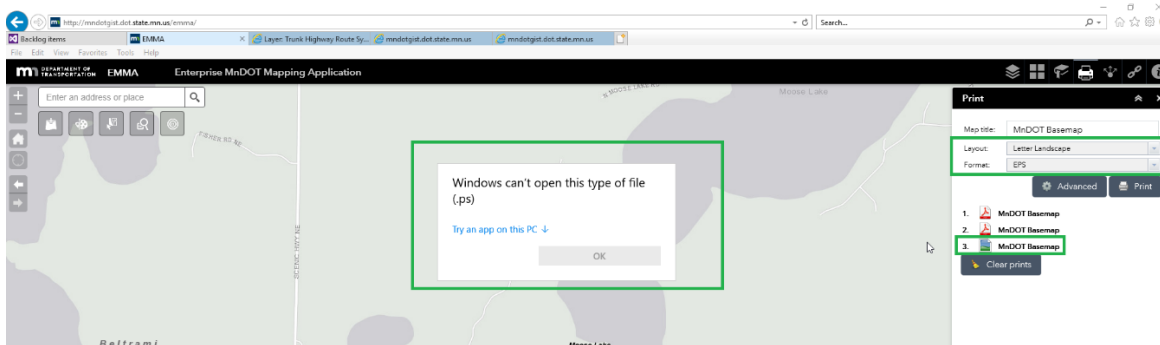
There is too much data within your view. Try to reduce the number of layers or zoom into a smaller area and print again.

Why doesn't the legend for Functional Class show when using the 'Print' function?

This is a known bug due to the symbology of the layer. It should be fixed in the next release.

Why do I get a "Windows can't open this type of file" error when using the print tool?

Some of the Print tool's format and layout combinations throw error's because they are downloadable files and can't be printed directly in the browsers. The screenshot below is an example for one of these combinations.



Why does the app hang when I first use the Route Info tool?

The web service that runs behind the scenes has gone into a sleep mode and needs awakening. Once you have run it once it will be faster on subsequent clicks.

Why do I get a lot of routes returned when I click on the map with the Route Info Tool?

The tool buffers the point you select and returns all routes within the buffer. If the buffer included an intersection it will snap to the intersection point to return the measures there.

Also the data contains separate routes for the different directions of travel on the road, so an undivided road will have a minimum of two routes one for the increasing (typically NB or EB) direction and another for the Decreasing (typically the SB or WB) direction.

Also in some cases, routes may be Co-Incident (two or more routes occupy the same stretch of pavement). The info for each of these routes will be displayed. If too many routes are co-incident you may get a 'Too many routes' error, this is a known bug that should be fixed in the next release.

Why is it that after I checked a layer to turn it on I do not see anything in the map?

Many of the layers have scale dependencies which require you to zoom in closer in order to see them, if this is the issue the layer will appear grayed out in the layers list. Otherwise there might not be any data for that layer within your view extent, try panning to another area.

Why is it when I use the Select Tool everything gets selected not just the layer I want.

By default Trunk Highways, Bridges, Construction Districts, Counties and Cities Townships and Unorganized Territories are all selectable. In the Tool dialog, you need to clear the selection, uncheck the layers you are not interested in and then reselect on the map.