



Agenda

01 Introduction

02 Shapefiles

03 Comprehensive Map Review

04 Migration of Java Client Functionality







Introduction

David Sutton - Software Product Manager

- Primary role
 - The prioritization of new feature sets and improvements into the Yukon software platform
- Email: davidIsutton@eaton.com



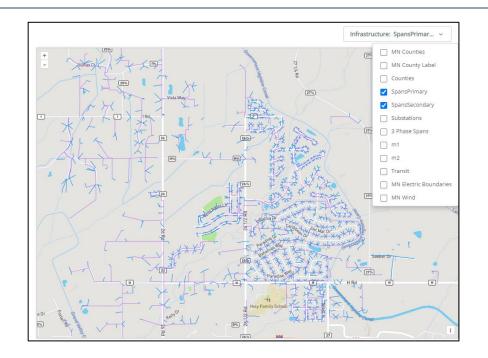
Shapefiles

New in Yukon v9.4



Shapefiles

- The mapping visualization tools will now support the display of user provided shapefiles
 - System administrators can import single layer shapefiles into the platform and choose to optionally display them on the maps
 - Meta data within is displayed by clicking in the map

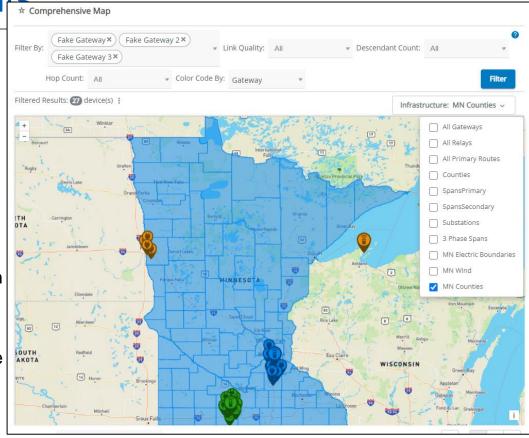




Mapping Improvement * Comprehensive Map

Shapefile Configuration

- System administrators add shapefiles via the Admin menu, Configuration and Mapping
- From the Mapping page, click the Add button to bring in additional files
- Select the appropriate zip file and a color to render the contents with
- Contents are now available throughout Yukon from the Infrastructure drop down available in all mapping tools

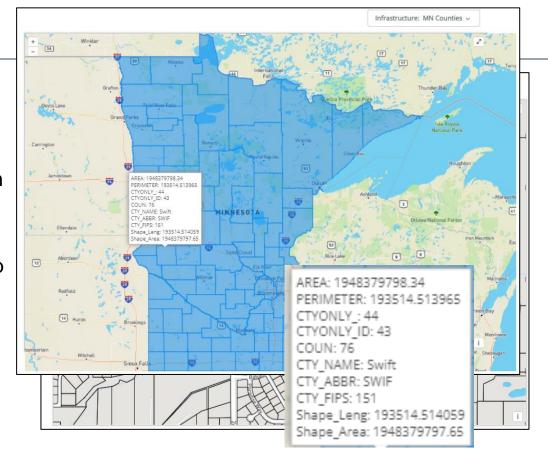




Shapefiles

Shapefile Examples

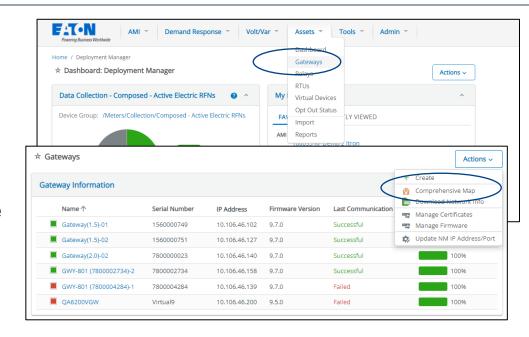
- For the current process, files must be less than 30 MB with alpha numeric file names
- Clicking on a point in the map will popup other data if included as part of the file







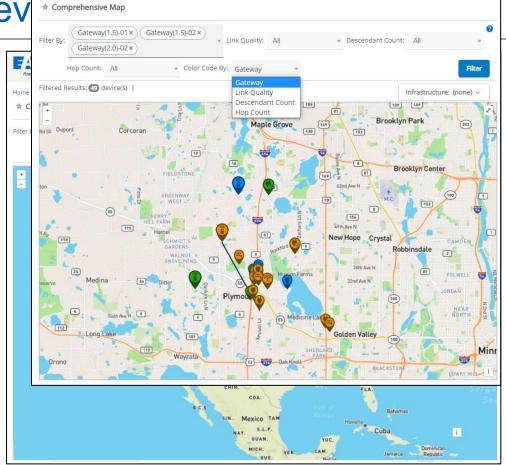
- The Comprehensive Map is a geo-visualization tool that allows the user to view device populations as they relate to each other on a map of their territory
- Access to the Comprehensive map is via the Assets menu, Gateways page
- Actions button "Comprehensive Map"





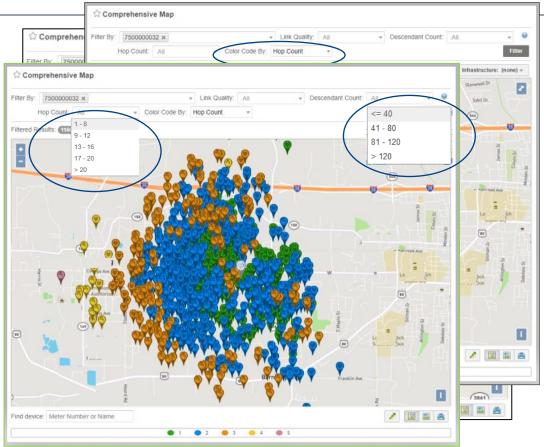
 Select up to 5 gateways to review at one time

- Filter and color code the resulting pins by
 - Gateway
 - Link Quality
 - Descendant Count
 - Hop Count





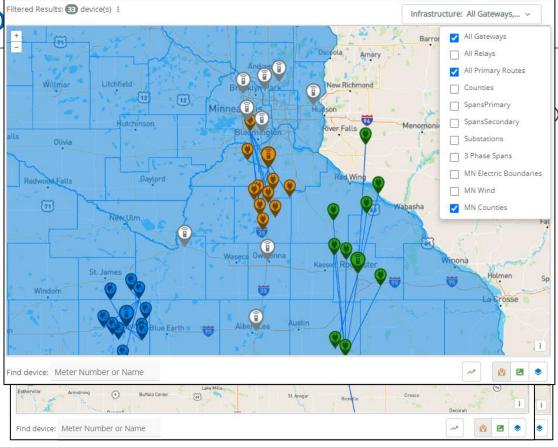
- For example, select a single gateway to review on the map
- Color code by Hop Count to show the network rings around a single gateway
 - Notice the key at the bottom that displays what hop count each color represents
- Filter the results further by hop count to look at a subset of nodes
 - Select multiple gateways to review nodes greater than 15 hops away
- Filter further by descendant count to review possible high traffic problem areas





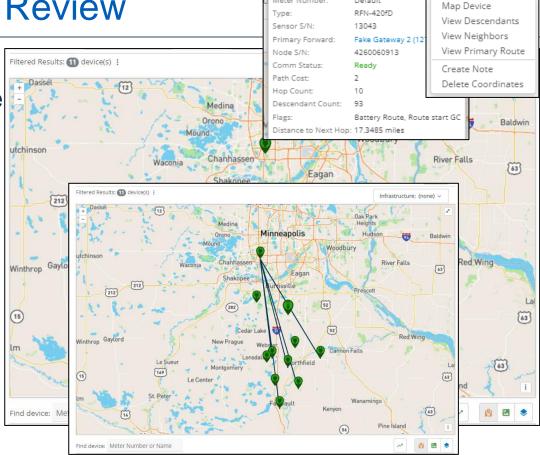
Comprehensive Map

- Returning to the main map, also notice the Infrastructure drop down
- Use the optional layers to further troubleshoot your system
 - All Gateways or Relays
 - All Primary Routes of your set of devices
 - Shapefile Layers





- Individual device pop ups available by clicking on the pin
- Display data associated with the device in question
- Three dot menu provides addition functionality
 - View descendants,
 Neighbors or Primary Route



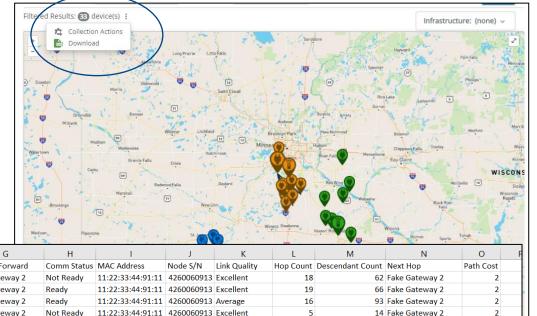
RFN-420fD 1000017

Default

Meter Number:



- Export network data of the filtered option
- Produces a CSV of the selected devices containing helpful network information

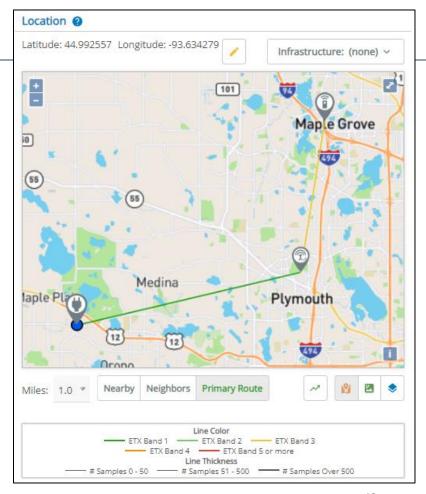


4	1 A	В	C	D	E	F	G	H		J	K	L	M	N	O
1	Device	Meter Number	Туре	Sensor S/N	Latitude	Longitude	Primary Forward	Comm Status	MAC Address	Node S/N	Link Quality	Hop Count	Descendant Count	Next Hop	Path Cost
2	RFN-420fD 1000019	Default	RFN-420fD	13045	44.457112	-93.35409	Fake Gateway 2	Not Ready	11:22:33:44:91:11	4260060913	Excellent	18	62	Fake Gateway 2	2
3	RFN-420fD 1000018	Default	RFN-420fD	13044	44.515545	-93.194554	Fake Gateway 2	Ready	11:22:33:44:91:11	4260060913	Excellent	19	66	Fake Gateway 2	2
4	RFN-420fD 1000017	Default	RFN-420fD	13043	44.874636	-93.391162	Fake Gateway 2	Ready	11:22:33:44:91:11	4260060913	Average	16	93	Fake Gateway 2	2
5	RFN-420fD 1000016	Default	RFN-420fD	13042	44.699205	-93.410952	Fake Gateway 2	Not Ready	11:22:33:44:91:11	4260060913	Excellent	5	14	Fake Gateway 2	2
6	RFN-420fL 1000010	Default	RFN-420fL	1000010	44.363597	-93.307478	Fake Gateway 2	Ready	11:22:33:44:91:11	4260060913	Excellent	19	36	Fake Gateway 2	2
7	RFN-430SL2 1000008	Default	RFN-430SL2	13096	44.372703	-92.395357	Gateway-CarrieTest	Not Ready	11:22:33:44:91:11	4260060913	Excellent	4	122	Gateway-CarrieTest	2
8	RFN-430SL2 1000007	Default	RFN-430SL2	13095	43.494262	-92.576935	Gateway-CarrieTest	Ready	11:22:33:44:91:11	4260060913	Fvaluating	7	29	Gateway-CarrieTest	2
							20000000								



Mapping Improvements

- Individual device mapping
- Hops within a node's primary path are colored by ETX band to indicate link quality
 - This will allow the user to review the link quality of every node in a meter's path back to the gateway to find the weakest area
 - From the Meters Details page, find the Actions button "Map Network"
 - Clicking on the Primary Route button on the Map Network page will result in the route lines being color coded by ETX Band.

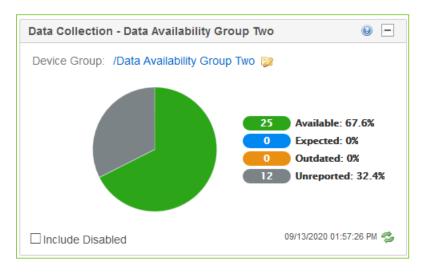






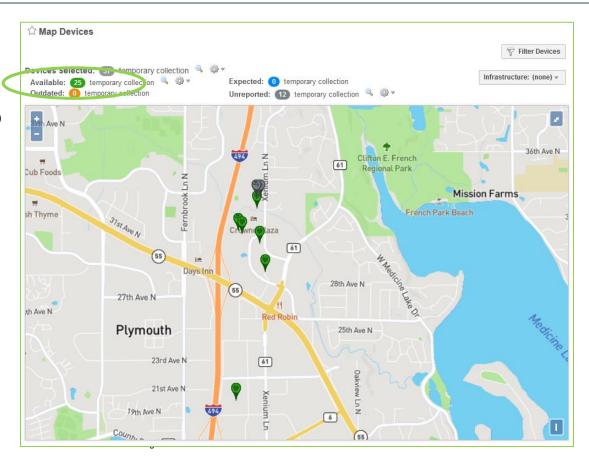
Eaton.com/WhatMatters

 Color coded pins indicating the Data Collection widget category on the map



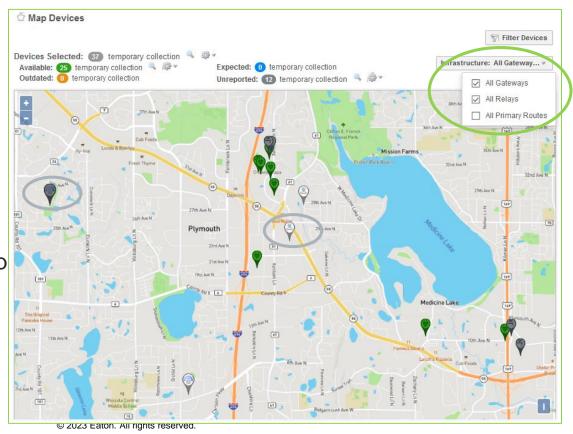


 Color coded pins indicating the Data Collection widget category on the map





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- Clicking the 'Infrastructure' button provides the option to display all gateways and relays on the map





- Color coded pins indicating the Data Collection widget category on the map
- Clicking the 'Infrastructure' button provides the option to display all gateways and relays on the map
- Displaying Primary
 Routes provides a
 view of how other
 devices communicate
 in the area



