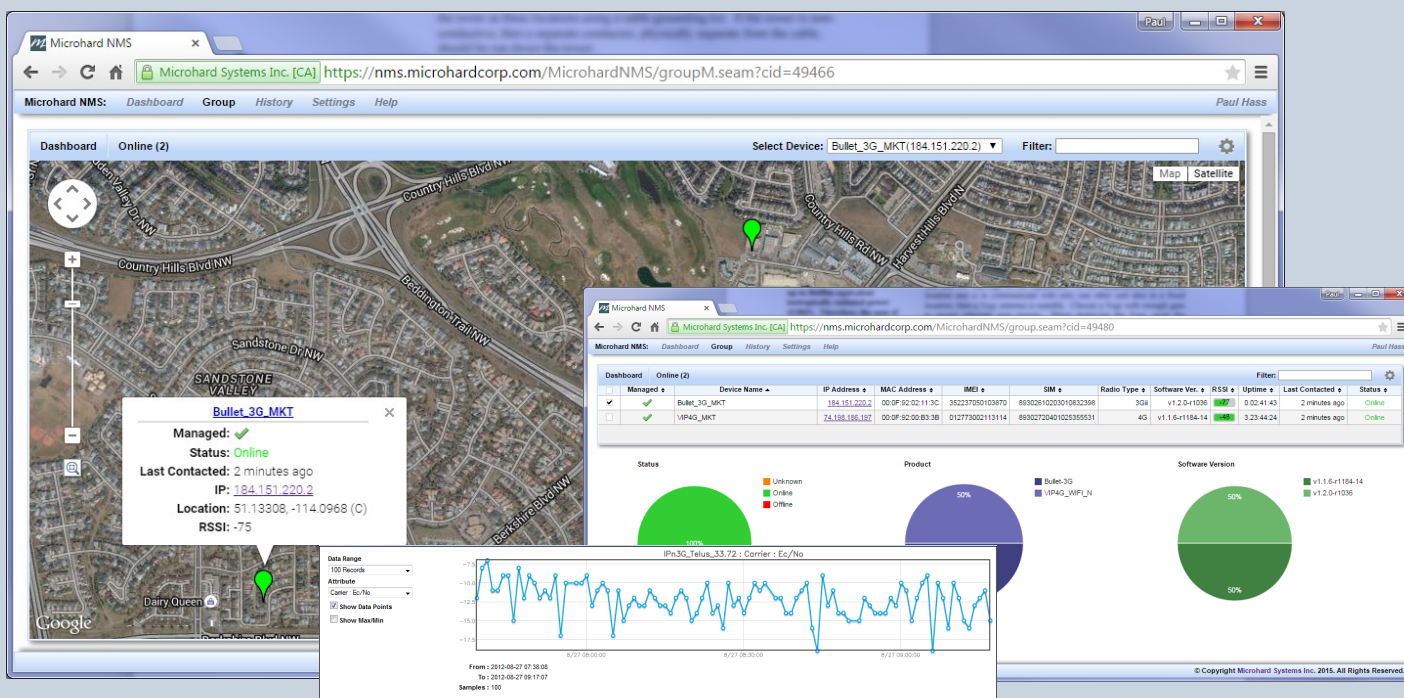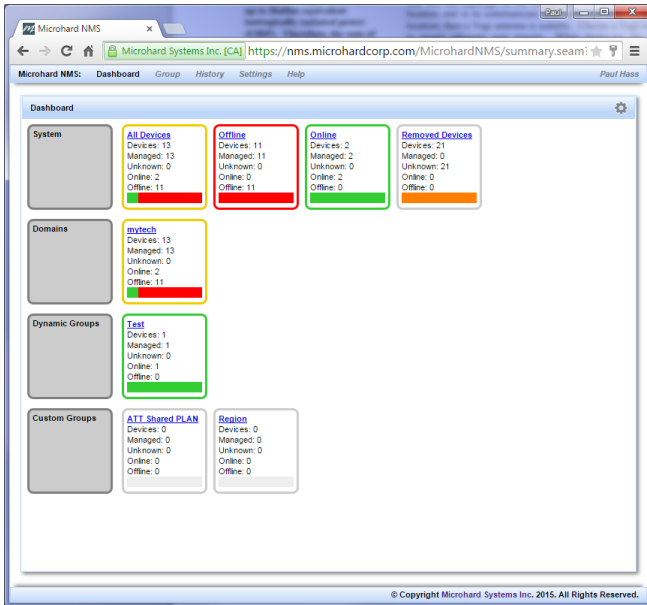# Microhard NMS

Microhard NMS (Network Management Software) is a powerful server based application that allows multiple users to graphically, monitor, troubleshoot and perform centralized upgrade and configuration operations for Microhard Cellular Modem networks. Locations of the units in the network can be positioned on a detailed map interface with precise GPS coordinates. The entire network status can then be monitored and diagnostics can be used to prevent, identify and resolve problems.

Features

- Detailed graphical representation of Microhard Cellular Devices
- Hosted, server based software with multi-user capabilities
- Precise mapping capabilities via point and click or GPS coordinates
- Quickly indentify offline devices
- Customizable Email Alerts
- Centralized wireless firmware upgrade and configuration capabilities
- View status of radios by groups or location.
- Direct access to Cellular Radio Configuration WebUI
- Schedule and automate configuration and firmware changes
- Advanced event and action logging, task history
- Import and export event logs
- Monitor Cellular & network traffic, RSSI, Ec/No, uptime of the entire network
- Backup/Restore device configurations
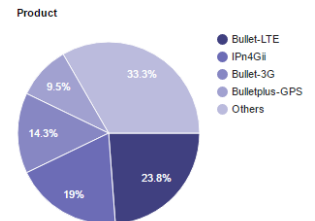
Network Management Software (NMS)

- The NMS Dashboard provides a snap shot of the network health and status, allowing users to quickly take stock of online and offline units.
- Device grouping allows to segregation of devices by type, carrier, network, project, geography etc for easy identification.
- Simple to navigate device tree and grouping folders for easy device selection.
- The detailed view device summary shows information such as the MAC and IP Addresses, Device Name, Carrier, SIM, Service & Radio Type, Ec/No, RSSI/RCP, Device Status.
- Quick link to specific device's WebUI Configuration.
- Powerful Filter to show only devices of interest.
- Map View allows robust mapping capabilities using GPS coordinates, with color coded icons for easy to view device status.
- Detailed information for each device in contact.

Dashboard	All Devices (21)											Filter:		
	Managed	Device Name	IP Address	MAC Address	Activity Status	IMEI	SIM	Radio Type	Software Ver.	RSSI	Uptime	Last Contacted	Status	
	✓	VIP4G_MKT	74.198.186.197	00:0F:92:00:B3:3B	Connected	012773002113114	89302720405899364586	4G	v1.1.6-r1196	-59	6.22:46:46	less than a minute ago	Online
	✓	IPn3G-VC1	70.28.248.59	00:0F:92:00:F0:BA	Call in progress	352861036570538	89302610102008686180	3G	v2.2.0-r2122	-71	27.08:57:04	3 minutes ago	Online
	✓	IPn4G-MKT	184.151.234.235	00:0F:92:00:B5:EE	Connected	012773002108403	89302610202035581717	4G	v1.1.0-r1089-7	-45	0.00:21:19	2 years ago	Offline

- Device Details provide general information about the device such as hardware & firmware versions, date/time last contacted, configuration details.
- Carrier details provides current APN, Call Status, Roaming info, Cell ID, SIM Card Info, Temperature and Supply Voltage etc.
- Device local network settings and statistics
- Activity and log history of network events for specific interfaces such as Ethernet, Serial/USB interfaces, VPN status and statistics.
- Advanced logging capabilities in XLS format. Import and Export Event Logs.
- Extensive settings for User Management, Device Access Settings, SNMP, Local Device Discovery.
- Web Service for upgrades and configuration backup/restore.
- Customizable SMS & Email Alerts for events.

Register at nms.microhardcorp.com to setup your domain on the Microhard NMS Servers

Contact Information

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