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Device monitoring setup

Note when changing settings don't forget to click on update at the bottom of the page.

- Monitoring Settings
 - $\circ\,$ Monitor Phone Handsets
 - $\circ\,$ Monitor Mikrotik Routers
 - $\circ\,$ Concurrent Background Processes
 - $\circ\,$ Monitor Mikrotik Configs
 - $\circ\,$ Monitor Unify Controllers
 - $\circ\,$ Monitor Wireless Client Radios
 - Monitor RaspberryPi Devices
- Mikrotik settings
 - Default Mikrotik API username
 - Default Mikrotik API password
 - Enable Neighbour scanning on all interfaces
- Syslog settings
 - Enable Syslog service
 - Syslog IP Address
 - Syslog Port No
 - $\circ\,$ Mikrotik topics to monitor
 - Keywords to ignore
- Speedtest Settings
 - Run Internal Speedtests
 - Run External Speedtests
 - Internal Speedtest Mikrotik IP



- Power Monitoring
 - Trigger Power Failure Events
 - Alert Solar Charge Failures
 - Voltage Alert Level

Highsites

Network Devices

- API user needs to be configured on the network device, if it is a non-Mikrotik device, the username and password needs to be specified. full control fo MT.
- SNMP need to be enabled on the network devices with public community
- FTP and API ports need to be enabled on Mikrotik's. For API user to be able to log into the MTm and for backups to be copied from a network device to HeroTill.
- Network devices need to be reachable from HeroTill.
- Device IP needs to be added to devices.

Network Device Fields

Go to Devices->Device Monitoring

- Device IP Address
- Device Description
- $\circ\,$ Device Location

These are the locations found in the asset register.

- Device Type
- Device Make
- Device Model
- Device Login Username
- Device Login Password
- Run Speedtests
- Firmware Version
- Router configuration
- Router Backups



Network Device Operations

- Add
- Edit

Network Device operations found in the edit device menu.

Scan Scan will Ping the device, test the SNMP and API Scan Results

If the Device is a Mikrotik Router or Ubiquity Device then the following additional functions are available:

Export Config . **Download Config** . **View Config changes** .Every Hour HeroTill checks for config changes, When it finds changes, it lists the changes here and creates a backup of the router. so manually backing up the router is not necessary. **Backup Router Config** .The Router Config can be downloaded. Every Hour HeroTill checks for config changes **Download Router Backup Config** . **View device performance** . **Configure Radius Syslog Topics** Here additional log topics can be added. This is specific to the network device. Each Network device will log the default topics that were set in the Syslog settings in Device monitoring settings.

View Config changes Config changes shows the new and previous config, highlighting any changes made. A full history of changes is kept.

Network Device Performance

Accessed by clicking on view performance (Green button) of the device you would like to view. gives an overview and history of the device. The history goes back up to one year.

Wireless Connections

Wireless Connections is all the wireless connections to a Highsite. These can be filtered by a station to give all the connections to a specific station.



Station Performance

Shows the overall performance of a wireless station, with a full history (CCQ, Signal, Noise, Tx and RX) which can go back up to 5 years.

Wireless Signal Distribution

Go to Devices->Wireless Signal Spread This gives a summary of the quality of the wireless connections of clients connected to a station.

Mikrotik NAS Users

The Mikrotik Nas Users shows all the users that are physically logged (Authenticated) into a router. A full history is kept of all past Authentications

Mikrotik Neighbours

The Mikrotik Neighbours shows all the users that are connected to a specific router. Use the Menu next to the refresh button to all the users connected to that router.

Mikrotik - Offline Netwatch Devices

This shows all the past Authenticated users that are not currently connected to a router.

Raspberry Pi

Go to Devices->RaspberryPi Devices

RaspberryPi Fields

Device Description . **Device Address** . **Device Login Username** . **Device Login Password** . **Generate Power Alerts (ON/OFF)** . **Thermal Printer Attached (ON/OFF)** This is used for printing hotspot vouchers **Voucher Printer Title** This is not a compulsory field. **Weather Station Title** This is not a compulsory field.



Operations

Edit Show RaspberryPi Information This will load the Pi's webpage **Shutdown** . **Execute remote command on RaspberryPi Update software**

RaspberryPi Weather Summary

Raspberry Pi Power Summary

Generate A List Of Down Devices

Where to get the text format that you can copy and paste to Whatsapp:

Go to Devices -> Downtime Summary -> Text Format

https://yourdomain/devices/summary_text



Highsite Summary
active PPP radius sessions 6 active non-PPP radius sessions
highsites in total devices in total
25 highsites affected 33 devices down
5 devices, 2 down Down since 2017-06-07 13:26:10 (4 days, 23 hours)
Down since 2017-06-07 13:26:10 (4 days, 23 hours)
11 device, all down X - Mikrotik Down since 2017-06-12 12:52:04 (1 minute, 31 seconds)

Copied and Pasted into Whatsapp:



Device Monitoring



To see the normal format of the downtime

Go to Devices -> Downtime Summary -> Normal Format

https://yourdomain/devices/summary



Device Downtime Summary												
Total Highsites 22	Total Highsites 222 Total Devices 610		Total Active Radius Sessions									
Highsites Un-Affected	199 Devices 584 Online		Active PPP Sessions									
Highsites Affected	ighsites Affected 23 Devices 28 Offline		es 26	Active Non PPP Se	ssions 5							
		Total Devices					La	ast Known /	own Active Sessions			
Highsite Name		Devices	Offline	Device Name	Device IP	Make	Model	РРР	Wireless	Radius	Hotspot	Down Since
Butochryses		5	2	Cit Broaton Dealor RW	040.0.00	Ubiquiti	100 C		9			2017-06-07 13:26:10 (4 days, 23 hours)
				Cit Broker Dealer Name	104070.00	Ubiquiti	1000		10			2017-06-07 13:26:10 (4 days, 23 hours)
COMe		10	1	Contract Contra-	1000.000.00	Ubiquiti						2017-06-01 00:01:47 (11 days, 12 hours)
Princip System Secondary		2	2	Collection New	10.00	Mikrotik	RECEIVEN					$\begin{array}{c} 2017\text{-}06\text{-}12 \ 12\text{:}42\text{:}36 \ (\text{17 minutes}, \text{39} \\ \text{seconds}) \end{array}$
				of Schemes	10.000	Mikrotik	800 C	1	2	1		2017-06-10 15:17:10 (1 day, 21 hours)

This montitors all devices added in HeroTill, and reports on these. If the device or power monitor is not added to HeroTill, it will not appear in the list.

Include Network Devices and Power Monitors in the "Device Downtime Summary":

Every device and power monitor also now has a switch on the edit screen allowing you to exclude or include it from the monitoring page, should you wish to do so.

Make sure "Include in Monitoring" is enabled on power monitors:



Edit Power Monitor								
Device IP Address	1.2 ms	^						
Device Description								
Device Location	Add New							
Power Monitor Device	Raspberry Pi							
Device Login Username								
Device Login Password	•••••							
Generate Power Alerts	ON							
Include in Monitoring	ON							
Normal Voltage	24 Volts							
Thermal Printer Attached	OFF							
Voucher Printer Title	Voucher Printer Title	*						
Close Scan Ping	SNMP Delete Save Changes							

Make sure "Include in Monitoring" is enabled on network devices:



			-									
E	Edit Network Device											
	Device Det	tails	Configs	Backups	Syslog Entries	Downtime	Passwords	MT Users	Audit Trail		^	
Device IP Address					10.0023				3.7 ms		I.	
Device Description					The Prickwalls							
Device Location					200 in the state			×	* Add Nev	v		
Parent Device (Default gateway)					Station 78 - 0	00.000 pe	int fairs		×	Ŧ		
			Device	е Туре	Router				×	Ŧ		
Device Make					Mikrotik				×	Ŧ		
Device Model					1000-0320							
Device Login Username					qitani -							
Device Login Password					•••••	•••						
SNMP Community					(e.8%)							
		I	Run Spee	edtests	ON							
		Includ	e in Mon	itoring	ON						~	
	Close	Scan	Ping	SNMP A	PI Hotspot	Dele	te Add to	LibreNMS	Save Cha	ange	es	