

HeroTill now monitors and reports on Network Device interface changes.

[This change is in affect from v.1.21.01]

A new cron job called “scan_devices” runs on a fast interval of every 5 minutes. This cron job is written exclusively in perl so as to be fast & lightweight, and does not call any PHP code. It scans all network devices via snmp or Mikrotik API to read the current status of the attached ethernet & vlan interfaces.

Network interface change detection:

When it detects a network interface change of mtu, sync speed, running state or interface name it generates a notification which will be sent to all admin users subscribed to the new “Network Devices Interface Changes” notification. These notifications can be delivered via email, sms or push message (slack).

Edit User #1

Account Details Permissions Notifications API Single Sign On Audit Trail

Mobile device registered	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON
Network Outage Report	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON
Client Devices Detected	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON
Network Devices Interface Changes	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON
Customer usage trigger reached	<input type="checkbox"/> OFF	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON
Customer 100% usage reached	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON
Customer topup processed	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON
Customer package changed	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON
Customer account expiry	<input checked="" type="checkbox"/> ON	<input type="checkbox"/> OFF	<input checked="" type="checkbox"/> ON

Close Delete Save changes

Notification example:

Cloud Command

Network device interface changes detected


[View](#)





Highsite	Device	Device IP	Interface	Change	Date
Highsite	Highsite-Device	10.10.10.1	vlan100-WayStation	State changed from down to running	2017-09-25 18:18:09
Highsite	Highsite-Device	10.10.10.2	vlan100-TourismcenterShop	State changed from down to running	2017-09-25 18:18:09
Highsite	Highsite-Device	10.10.10.3	vlan100-BongRelay	State changed from down to running	2017-09-25 18:18:09
Highsite	Highsite-Device	10.10.10.4	vlan120-KleinKant	State changed from down to running	2017-09-25 18:18:09
Highsite	Highsite-Device	10.10.10.5	vlan100-TourismcenterOffice	State changed from down to running	2017-09-25 18:18:09
Highsite	Highsite-Device	10.10.10.6	ether7-ToughSwitch	State changed from down to running	2017-09-25 18:18:08

Network device interfaces summary view:

There is a new summary view available on the Devices, Network Devices sub menu that lists all detected network interfaces, with changes highlighted.

This list is sorted by most recent changed interface on top.


Customers ▾ Asterisk ▾ Radius ▾ RAIN LTE ▾ Hotspots ▾ Workflow ▾ Devices ▾ Sales ▾ Billing ▾ Reports ▾ Tools ▾ Setup ▾ ⓘ ▾




































Network Device Interfaces

All Highsites ▾
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Show 10 ▾ Rows

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Highsite	Device	Model	IP Address	Interface	Speed	Change Date	Last Change	Num	Status	
Highsite	Bahadri Repeater	CRS125-24G-1S	10.10.10.1	vlan 10	vlan10-DV (Not in Use)	13 minutes ago	Interface renamed to vlan10-DV (Not in Use)	1	Running	  
Highsite	Bahadri Repeater	CRS125-24G-1S	10.10.10.2	eth	sfp1	14 minutes ago	Sync speed changed from 100Mb/s to 1Gb/s	20	Down	  
Highsite	Bahadri Repeater	CRS125-24G-1S	10.10.10.3	eth	ether10	3 days ago		2	Down	  
Highsite	Bahadri Repeater	RB3011UIAS	10.10.10.4	eth	sfp1	3 days ago		2	Down	  
Highsite	DV Free WiFi	CCR1009-8G-1S	10.10.10.5	eth	sfp1	3 days ago		2	Down	  
Highsite	CC Brick Re	CCR1009-7G-1C	10.10.10.6	eth	combo1	3 days ago		2	Down	  
Highsite	Bahadri Repeater	CRS125-24G-1S	10.10.10.7	eth	ether11	3 days ago		56	Disabled	  
Highsite	Bahadri Repeater	CRS125-24G-1S	10.10.10.8	eth	ether17	3 days ago		13	Disabled	  
Highsite	DV Free WiFi	CCR1009-8G-1S	10.10.10.9	eth	ether2-PreProxy-Unauth				Disabled	  
Highsite	DV Free WiFi	CCR1009-8G-1S	10.10.10.10	eth	ether6				Down	  

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On this list users are able to view change details.

Detected Interface Changes

Change Date	Change Description	
2017-09-26 10:43:34	State changed from down to running	53 minutes ago
2017-09-26 10:37:05	State changed from running to down	59 minutes ago
2017-09-26 08:59:44	State changed from down to running	2 hours ago
2017-09-26 08:53:37	State changed from running to down	2 hours ago

OK

Users with “Devices Write” permission are able to set individual interfaces to be ignored. This would then stop the background job from alerting on changes on these individual interfaces.

Network devices screen:

On the existing Network Devices list screen a new hidden column has been added, allow users to sort devices by the last interface change date.

Customers ▾ Radius ▾ RAIN LTE ▾ Hotspots ▾ Workflow ▾ Devices ▾ Sales ▾ Billing ▾ Reports ▾ Tools ▾ Setup ▾ ⓘ ▾

Network Devices

All Locations ▾ All Manufacturers ▾ Normal ▾ + Add Device Update DataTill Passwords Update Mikrotik Passwords Refresh

Show 10 ▾ Rows Search: Copy Columns Clipboard Export Columns CSV Export Columns Excel Show / Hide Columns

Model	SW Ver	Description	Location	IP Address	CPU	Last Scan	Last Config Change	Last Interface Change	Last Backup	Down MTD	Scan Status	
Mikrotik RB2011UIAS	6.40.3	Mikrotik RB2011UIAS	...	...	6%	2017-09-26 11:12:11 27 minutes ago	2017-09-26 09:09:53 2 hours ago	2017-09-26 11:10:16 29 minutes ago	2016-08-30 15:09:03 a year ago		Ping 7 ms Scan 7 sec	
Mikrotik RB951Ui-2HnD	6.38.1	Mikrotik RB951Ui-2HnD	...	...	18%	2017-09-26 11:20:18 19 minutes ago	2017-09-08 17:53:06 18 days ago	2017-09-26 10:43:34 an hour ago	2017-02-07 15:01:27 8 months ago	23.6 hours	Ping 101 ms Scan 5 sec	
Mikrotik CCR1036-12G-4S	6.40.1	Mikrotik CCR1036-12G-4S	...	...	1%	2017-09-26 11:10:43 28 minutes ago	2017-09-26 06:07:05 6 hours ago	2017-09-26 08:13:32 3 hours ago	2017-08-22 09:12:41 a month ago	1.6 hours	Ping 1 ms Scan 23 sec	
Mikrotik RB2011UIAS	6.38.1	Mikrotik RB2011UIAS	...	...	2%	2017-09-26 11:14:30 25 minutes ago	2017-09-26 07:40:13 4 hours ago	2017-09-26 07:47:27 4 hours ago	2016-08-30 11:54:33 a year ago	3.0 hours	Ping 8 ms Scan 5 sec	
Mikrotik RB2011UIAS	6.38.1	Mikrotik RB2011UIAS	...	...	11%	2017-09-26 11:20:03 19 minutes ago	2017-09-26 07:47:12 4 hours ago	2017-09-26 06:28:38 5 hours ago	2016-12-12 13:44:43 9 months ago	4.1 hours	Ping 11 ms Scan 4 sec	
Mikrotik RB951Ui-2HnD	6.38.5	Mikrotik RB951Ui-2HnD	...	...	4%	2017-09-26 11:20:45 18 minutes ago	2017-07-16 15:35:15 2 months ago	2017-09-25 19:48:13 18 hours ago	2017-03-20 09:40:32 6 months ago	2.0 hours	Ping 7 ms Scan 2 sec	
Mikrotik RB1100AHx2	6.38.1	Mikrotik RB1100AHx2	...	...	13%	2017-09-26 11:16:14 23 minutes ago	2017-09-22 22:53:52 4 days ago	2017-09-25 17:46:04 18 hours ago	2016-08-30 12:57:39 a year ago		Ping 11 ms Scan 12 sec	
Mikrotik RB1100AHx2	6.38.1	Mikrotik RB1100AHx2	...	...	8%	2017-09-26 11:11:59 27 minutes ago	2017-09-18 12:12:23 8 days ago	2017-09-25 17:25:41 18 hours ago	2016-08-30 14:59:37 a year ago	8 minutes	Ping 6 ms Scan 8 sec	
Mikrotik RB3011UIAS	6.38.1	Mikrotik RB3011UIAS	...	...	3%	2017-09-26 11:11:50 27 minutes ago	2017-09-19 15:31:25 7 days ago	2017-09-25 16:47:39 18 hours ago	2016-08-30 16:02:56 a year ago	2.0 hours	Ping 7 ms Scan 9 sec	
Mikrotik CCR1009-8G-1S	6.38.1	Mikrotik CCR1009-8G-1S	0%	2017-09-26 11:13:26 28 minutes ago	2017-08-29 18:16:23 a month ago		2016-08-30 15:44:13 a year ago	2.5 hours	Ping 4 ms Scan 2 sec	

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When editing a network device a new tab has been added where the device's interfaces and it's changes are displayed.

Edit Network Device #2623

Device **Interfaces** Configs Backups Syslog Downtime Passwords MT Users Audit Trail

Network Interfaces Refresh Scan Router

Inf Name	Type	Sync	VLAN	Status	Last Detected Change
ether7-Main-Pull	eth	100Mb/s		Down	2017-09-26 11:10:16 30 minutes ago
ether1	eth	100Mb/s		Down	
ether10	eth	100Mb/s		Down	
ether2-Hardware-Ligo	eth	100Mb/s		Running	
ether3-Service-East	eth	100Mb/s		Running	
ether4	eth	100Mb/s		Down	
ether5-P1	eth	100Mb/s		Running	
ether6-Camera	eth	100Mb/s		Down	
ether8-Hardware-Hogler-P1#42	eth	100Mb/s		Running	
ether9	eth	100Mb/s		Down	

Close Scan Ping SNMP API Hotspot Delete Add to LibreNMS Save Changes

Interfaces can also be set to “ignored” on this tab.