InfiMONITOR system

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InfiMONITOR is a Network Monitoring System that enables the status monitoring for the InfiNet Wireless units from a network operations center. Below are listed its key features:

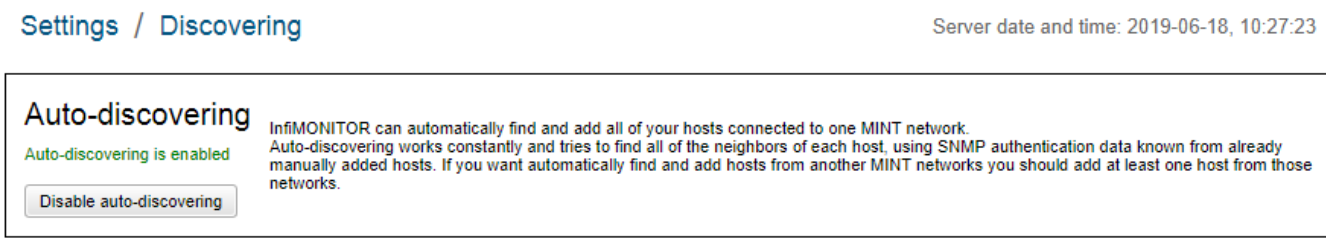
Reduced system requirements

The installation package is represented by a virtual image with all the software packages preinstalled. Optimal system functionality is ensured with reduced system requirements. For details about the required system resources, please check the Installation of InfiMONITOR.

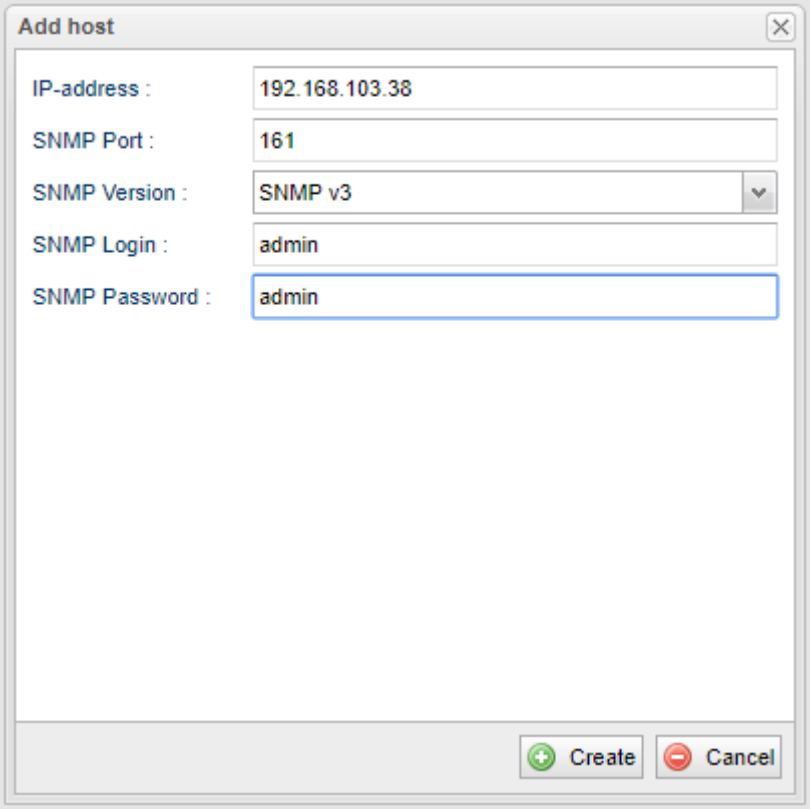
Automatic discovery

Devices and links can automatically be discovered using the MINT protocol and the configured IP address space. All discovered devices and links will be automatically added in the system. The newest auto discovery method used by InfiMONITOR will be based on SNMP and the MINT proprietary protocol.

By default, the automatic search function is enabled, to check the status or to disable it, proceed to the section "Settings" – > "Discovering".



An important feature of the detection subsystem is to search only within one MINT segment. In case that there are multiple MINT segments in a wireless network, it is necessary to add at least one device from each segment in order to enable automatic detection in the section "Settings" -> "Hosts management".



Multiple network layouts

Dashboards for links, devices and events.

Hosts section

The Devices view lists all the InfiNet units that are added in InfiMONITOR and provides detailed information about each of them.

Network Monitoring / Hosts

Host name	Status	Reboot reason	Family	Device model	Device se...	Software version	Tags
XG1-Master	Down	manual restart	XG	Um/5X.500.2x500	500267	1.7.12	-
Master	Up	unexpected restart	R5000	SkyMAN R5000-...	225871	2.1.11	-
Slave1	Down	firmware upgrade	R5000	SkyMAN R5000-...	260755	2.1.11	-
XG1-Master	Up	manual restart	XG	Um/5X.500.2x500	500268	1.7.12	-
Slave 2	Up	unexpected resta...	R5000	SkyMAN R5000-...	260756	2.1.11	-

Links section

The Links view displays all the links between the units and detailed monitoring parameters, such as status, modulation scheme and current load.

Network Monitoring / Links

Link name	Type	Status	MCS	RX Load, ...	RX Lo...	Tags
Master1 ⇄ Slave1	MINT	Down	64QAM 3/4 / 64QAM 2/3	2 / 7	4 / 12	-
Slave1 ⇄ Slave1	JOIN	Down	/	0 / 1	0 / 1	-
XG1-Master ⇄ XG1-Master	XG	Down	256QAM 7/8 / 256QAM 7/8	0 /	0 / 0	-
Master ⇄ Slave 2	MINT	Up	64QAM 5/6 / 64QAM 5/6	1 / 13	7 / 23	-

Events section

The Events view allows operators to receive information from all the events generated according to the events generation rules. Event status shows the process of the problem resolution, it is set automatically or can be changed by the operator.

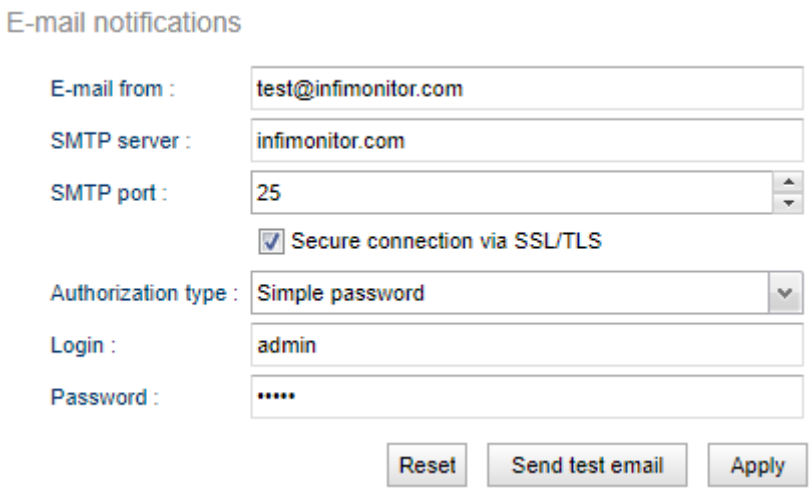
Network Monitoring / Events

Live | History | Show : 50 records

Status	Severity	Name	Rule	Description	First seen	Last seen	Count
New	CRIT			nk Slave1 ⇄ Slave1 status has b...	2019-04-10, 15:40:18	2019-06-18, 10:49:57	18694
New	CRIT			ost Slave1 status has been chan...	2019-04-23, 12:08:07	2019-06-18, 10:49:57	14997
Resolved	INF			terface mgmt IP address has be...	2019-06-18, 10:05:53	2019-06-18, 10:05:53	1
Resolved	CRIT			st...	2019-05-30, 13:47:12	2019-06-17, 09:38:11	10269
Resolved	CRITICAL	XG1-Ma...	Host down	Ho n ...	2019-05-30, 13:47:12	2019-06-17, 09:38:11	5135
Resolved	CRITICAL	Master ⇄...	Link down	Li ...	2019-06-11, 17:28:36	2019-06-11, 18:19:28	22
Resolved	CRITICAL	Slave 2	Host down	Ho a...	2019-06-11, 17:28:36	2019-06-11, 18:18:32	11
Resolved	CRITICAL	Master	Host down	Host Master status has been chan...	2019-06-11, 18:14:37	2019-06-11, 18:14:37	1
Resolved	CRITICAL	Master	Host down	Host Master status has been chan...	2019-06-11, 17:49:37	2019-06-11, 17:49:37	1
Resolved	CRITICAL	XG1-Ma...	Host down	Host XG1-Master status has been ...	2019-05-20, 10:20:00	2019-05-30, 13:39:42	2964
Resolved	INFO	XG1-Ma...	IP addre...	Interface mgmt IP address has be...	2019-05-30, 12:02:08	2019-05-30, 12:02:08	1
Resolved	NOTICE	XG1-Ma...	CPU loa...	CPU load is on critical level 100 %...	2019-05-20, 16:40:48	2019-05-20, 16:40:48	1
Resolved	NOTICE	XG1-Ma...	CPU loa...	CPU load is on critical level 99 % ...	2019-05-20, 14:25:01	2019-05-20, 14:25:01	1

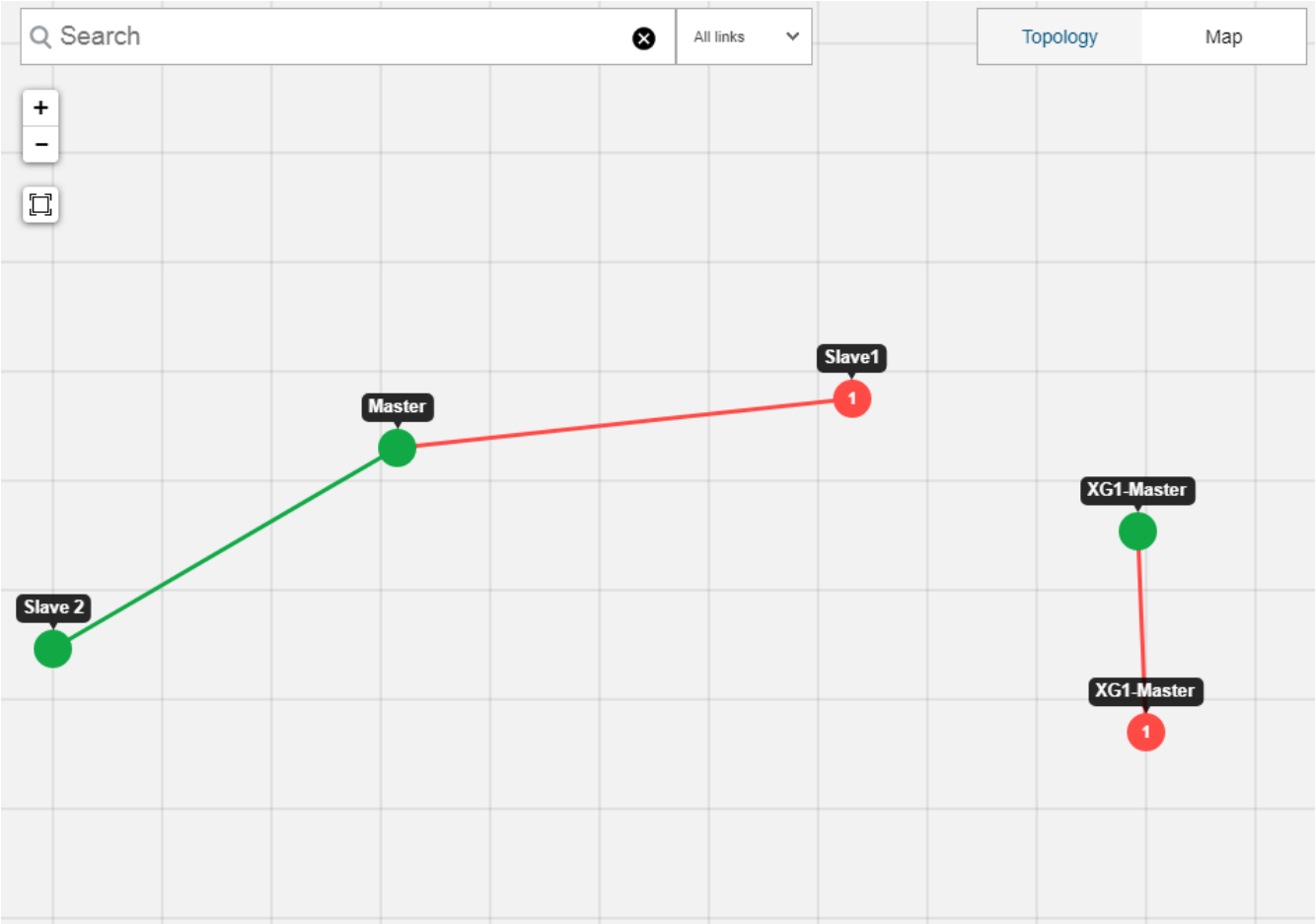
Go to link: Slave1 ⇄ Slave1
Go to host: Slave1
Set status
New
Acknowledged
Aged
Resolved

In case that an event like a link going down occurs, there is an action that can be taken by InfiMONITOR in order to inform about the change: it sends an e-mail. In order to send a notification via e-mail the monitoring system is connected to a certain SMTP-server and gives it a task for sending. The credentials for connection to this server must be specified in the settings.



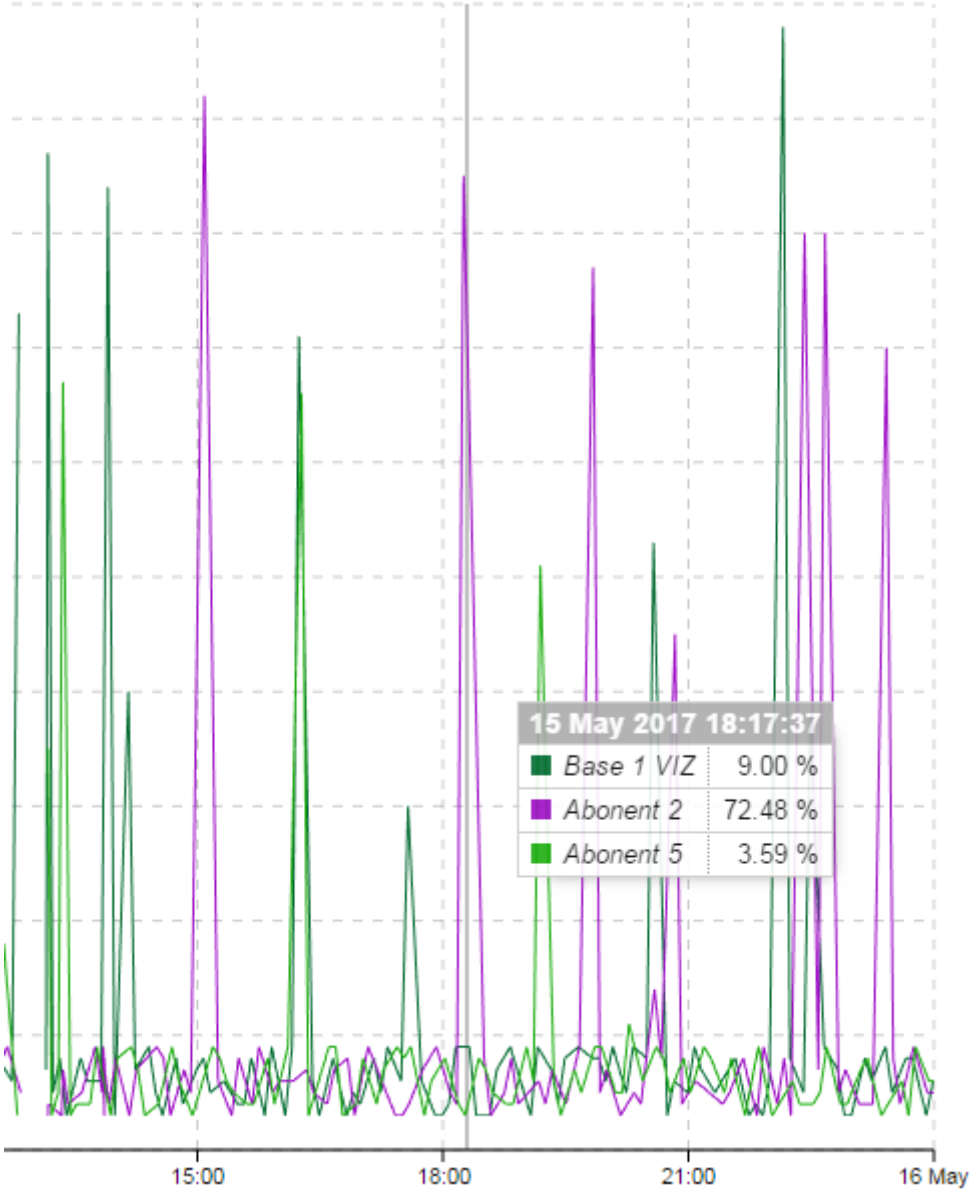
Network map section

The network map allows to visually determine the hosts connectivity and to get necessary information about the hosts's and the link's status and their active events. There are two possible logical (topology) and geographical (map) views that can be selected using the button on the right top corner. The geographical view works with Google Maps API.



User friendly

The menus are easy to use, clear and intuitive. To obtain full information about the InfiMONITOR capabilities please proceed to InfiMONITOR - Technical User Manual.

Graphical features

Automatic creation of graphs for key parameters, analysis tools and unlimited history. The graphs permit configurable views (zoom etc) and export as .csv.