

Devices



Successfully pass the free certification exam at IW Academy and become an Infinet Certified Engineer.

[To the certification exam](#)

- [Devices review](#)
 - [Device profile](#)
- [Network infrastructure requirements](#)
- [Management](#)
 - [Configuration](#)
 - [Configuration changing](#)
 - [Configuration editing](#)
 - [Job creation](#)
 - [Applying the configuration](#)
- [Firmware](#)
 - [Upload firmware files](#)
 - [Software update](#)

InfIMONITOR NEXT allows the network engineers to monitor the status of the wireless devices and to manage their configurations.

Devices review

The section includes two key areas:

- **Devices list** - devices and their groups that are in the user's visibility area.
- **Side area for detailed information.**

The list of devices is displayed in a table with the following columns:

- **Device** - the device name.
- **Status** - current device status.
- **Family** - family to which this device belongs.
- **Serial number** - unique serial number assigned to device at the production stage.
- **IP address** - device's IP addresses list.

Device profile

Each device is presented by its profile contains the whole information about device. There are following section in profile:

- **Status** - device operation parameters.
- **Maintenance** - management tools: firmware, configurations etc.

The "Status" section consists of several parts:

- The status of device and its wireless link.
- Network interfaces statistics.
- General information.

There is special section includes both the current and remote device. This section presents characteristics of wireless link in downstream and upstream.



Figure - status of device and its links

Network infrastructure requirements

Management functionality requires network connectivity from wireless devices to the monitoring system port **2121/TCP**, please check your firewall rules.

Management

Management tools are presented in the "**Maintenance**" section of device's profile.

← Device list

UP V5 Master

Status Maintenance

Firmware

OCTOPUS ver. 2.0.1

Manage

Configuration

[Configuration from 02/22/2022 14:53](#)

Manage

Provisioning

✔ Done

Execute now

Figure - management tools

Configuration

The configuration is automatically loaded for each device added to **InfIMONITOR NEXT**. If the device's configuration has been changed, it will be reloaded, but the previous configuration won't be deleted. Thus, the monitoring system always stores both the current device configuration and its previous versions.



NOTE

Configuration and software management functions are available only for devices monitored via SNMP v3.

To view the device configurations list, click on the "**Manage**" button in the "**Configuration**" row:

The list of configurations includes the entire configuration history, displayed as a table with the following columns:

- **Status** - current configuration status, the following values are possible:
 - Draft - draft configuration stored in the monitoring system and not applied on the device.
 - Success - the configuration was successfully downloaded from the device or applied on it.
 - Error - the applying of the configuration on the device has failed.
- **Source** - configuration source, the following values are possible:
 - EMS - configuration applied using **InfIMONITOR NEXT**.
 - Device - configuration received from the device. Configuration changes were made directly on the device, the monitoring system has detected it and downloaded the updated configuration.
- **Version from** - configuration date and time:
 - The date and time of its uploading to the monitoring system.
 - For the draft, the date and time of the last change.

Configurations



Status	Source	Version from
Success	Host	11/18/2021 15:44
Failed	EMS	11/18/2021 15:44
Failed	EMS	11/18/2021 15:36
Success	Host	11/18/2021 15:34

List of configurations

Select any configuration to view it:

Configuration from 11/18/2021 15:44

Compare:

Name: Configuration from 11/18/2021 15:44

Source: Host

Property: Active config

Status: Success.
Successfully loaded from the device

```
#Factory password mode: single
sys name R5000-Lmn1
sys prompt R5000-Lmn1
sys user admin
sys guest guestLogin
setpass $1$I6JUV$05u20Y0gBu7F5gLF4OQBB1
rf rf5.0 grid 40 5100-5250/10
rf rf5.0 grid 20 4850-6050/2.5
rf rf5.0 grid 10 4850-6050/2.5
rf rf5.0 grid 5 4850-6050/2.5
rf rf5.0 grid 15 4850-6050/2.5
rf rf5.0 band 40
```

Figure - device configuration

Title

You can compare the two configurations to see how they differ. To do this, in the "Compare" list, select any other configuration.

To highlight changes in the comparison mode, click on the "Show the difference" button.

Compare configurations



```
#Factory password mode: single
sys name R5000-Lmn1
sys prompt R5000-Lmn1
sys user admin
sys guest guestLogin
setpass $1$I6JUV$05u20Y0gBu7F5gLF4OQBB1
rf rf5.0 grid 40 5100-5250/10
rf rf5.0 grid 20 4850-6050/2.5
rf rf5.0 grid 10 4850-6050/2.5
rf rf5.0 grid 5 4850-6050/2.5
rf rf5.0 grid 15 4850-6050/2.5
```

Figure - configurations comparing

Configuration changing

Changing the device's configuration includes the following steps:

1. Select the configuration version.
2. Edit selected configuration.
3. Create job - set a task for applying the configuration on the device.
4. Apply the configuration — the configuration is applied on the device.

Configuration editing

Click "Edit" button in the selected configuration. A draft will be created, with the content identical to the previously selected configuration. Each device may have only one configuration draft. If you create a new draft the previous will be rewritten.

After editing, you can save a draft without applying it on the device, or create a job to apply it. You may apply any configuration version without editing by clicking "Create job" button.

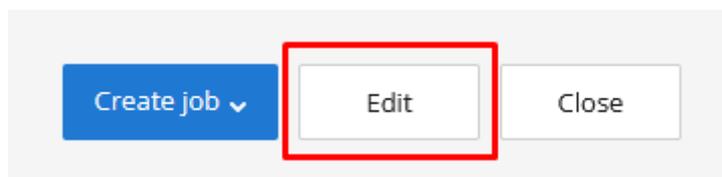


Figure - edit existing configuration

Job creation

When you are ready to apply configuration draft please click "Create job" button.

In the menu, you can schedule the time for applying the configuration, the following options are available:

- Create job at a required date and time.
- Create job for the current time.



Note

In order to perform the jobs execution at a required time, it is necessary to set date and time on the virtual machine where **InfMONITOR NEXT** is installed. Time settings can not be made in the monitoring system.

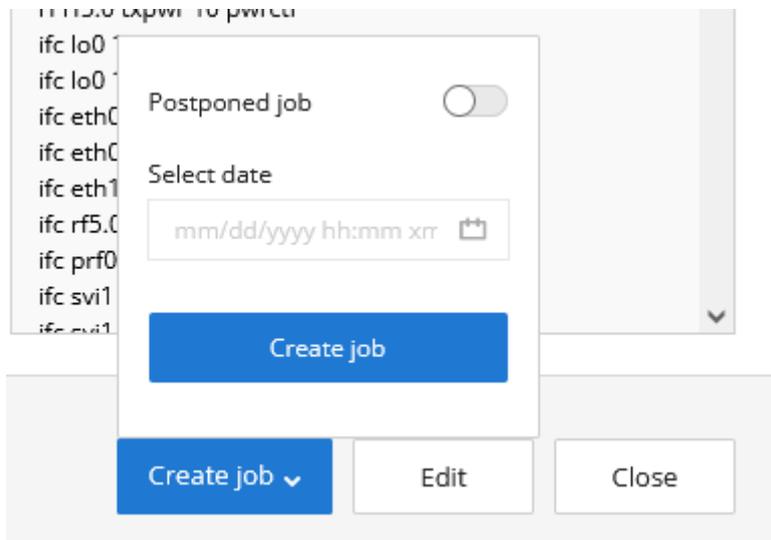


Figure - job creation

Applying the configuration

At the set time, the configuration will be downloaded to the device. After successful validation, the configuration will be applied and the device will reboot.



Configuration applying procedure eliminates the risk of loss of communication with the device due to configuration errors or other failures. For details, see the [Description and operational principles](#).

After rebooting the device, **InfMONITOR NEXT** will re-poll it and perform a configuration check. If it was applied correctly, then the job will be marked as completed successfully. Otherwise, the job will fail.

Config update	● Completed	07/03/2020, 15:49:53	07/03/2020, 15:49:53	admin
---------------	-------------	----------------------	----------------------	-------

Figure - completed job

Firmware

The monitoring system provides the ability to update the software, both on one and on a group of devices.

Upload firmware files

To update the software, it must be previously uploaded into a special storage of the monitoring system. In order to do this, go to the "Management" section and click the "Software" button.



Figure - software files storage

Each file in the repository has the following fields:

Title

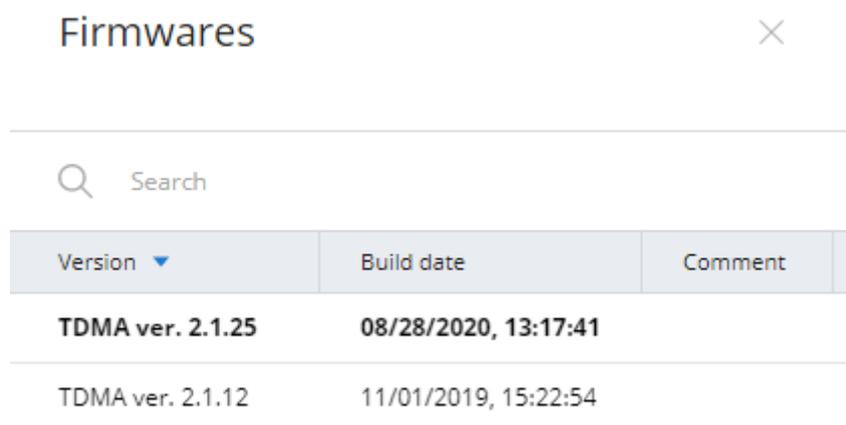
- **Version** - the software version.
- **Platform** - the hardware platform for which the software is intended. The monitoring system will allow to create an update task using only those files that are suitable for the device selected.
- **Type** - the software type, MINT or TDMA.
- **Source** - firmware files can be uploaded to the repository either manually or automatically from the update center (not available at the moment). Here will be displayed the source of the file.
- **Build date** - date when the software file was built.
- **Comment** - the monitoring system administrators can leave comments to each file.

Version	Platform	Type	Source	Build date	Comment
1.8.2-18	H12	XG	admin	08/21/2020, 15:22:44	
2.1.25	H08	TDMA	admin	08/28/2020, 13:17:36	
2.1.12	H11	TDMA	admin	11/01/2019, 15:22:54	

Figure - software files list

Software update

The software update is performed via a special update job. In order to do this, go to the "**Maintenance**" section of the device card. In the "**Firmware**" line click the "**Manage**" button. This will open a list of software files suitable for this device.



Version	Build date	Comment
TDMA ver. 2.1.25	08/28/2020, 13:17:41	
TDMA ver. 2.1.12	11/01/2019, 15:22:54	

Figure - firmware files list

Select the software version to be applied to the device, then click the "**Create job**" button. Same to the configuration update jobs, you can run the update immediately or schedule it for a later time.