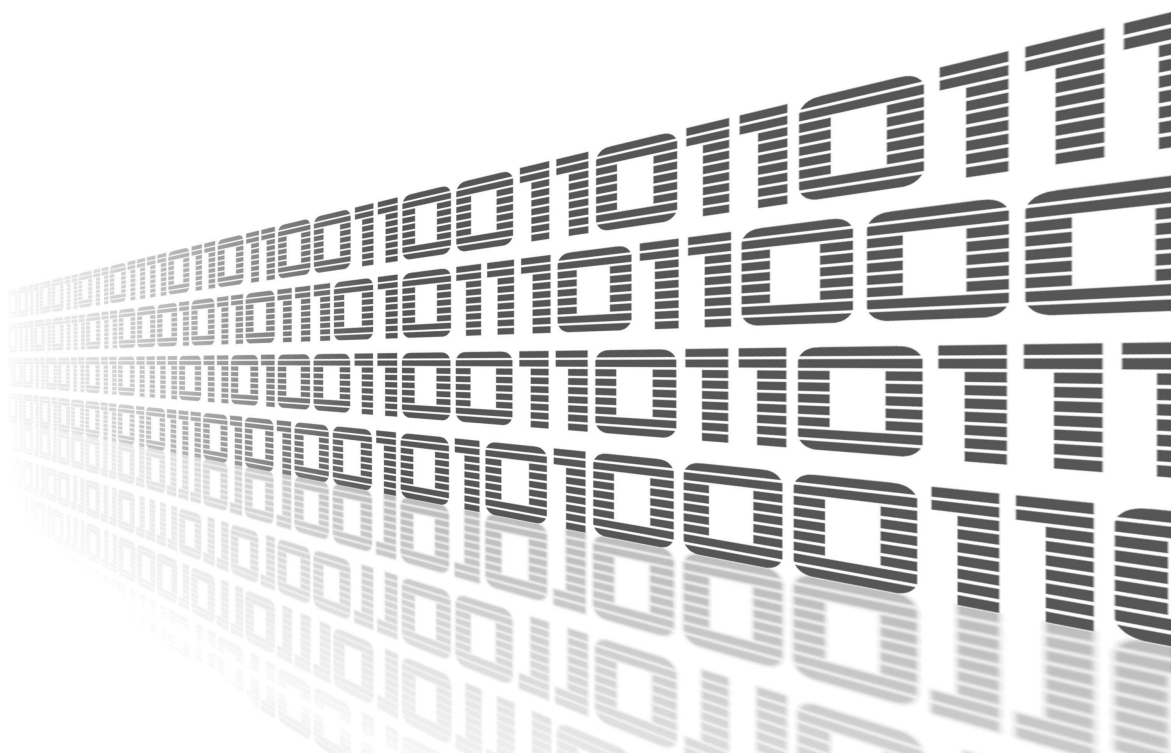




User Module

NTPv4

APPLICATION NOTE



Used symbols



Danger – Information regarding user safety or potential damage to the router.



Attention – Problems that may arise in specific situations.



Information or notice – Useful tips or information of special interest.



Example – Example of function, command or script.



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1. Description of the module



This user module is not installed on *Advantech* routers by default. See *Configuration Manual* for the description how to upload a user module to the router. For more information see the *Configuration manual*, chapter *Customization* → *User Modules*.

The Network Time Protocol (NTP) is widely used to synchronize computer clocks in the Internet. NTPv4 includes a modified protocol header to accommodate the Internet Protocol version 6 address family. NTPv4 includes fundamental improvements in the mitigation and discipline algorithms that extend the potential accuracy to the tens of microseconds with modern workstations and fast LANs.



Ntpq and ntpdc commands are supported from module version 1.2.0.

2. Web Interface

Once the installation of the module is complete, the module's GUI can be invoked by clicking the module name on the User modules page of router's web interface.

Left part of this GUI contains menu with Configuration menu section and Information menu section. Customization menu section contains only the Return item, which switches back from the module's web page to the router's web configuration pages. The main menu of module's GUI is shown on Figure 1.

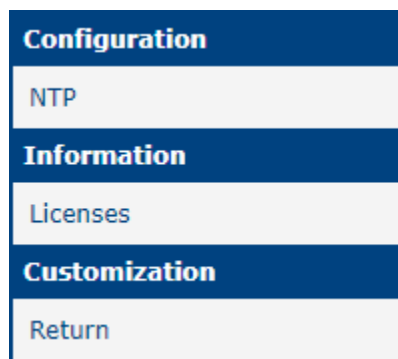


Figure 1: Menu

2.1 Configuration

2.1.1 NTP

Configuration of this user module can be done on Global page, under Configuration menu section. All configuration items for Global configuration page are described in the table below.

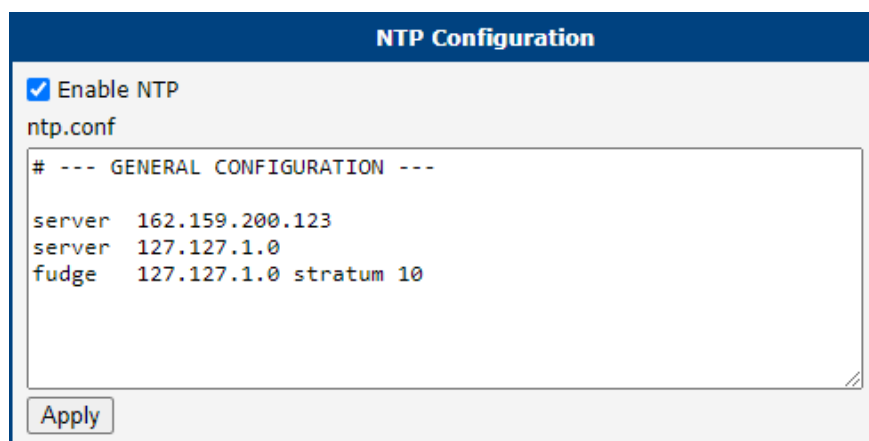


Figure 2: NTP

Item	Description
Enable NTP	Enabled, NTP functionality of the module is turned on.

Table 1: Configuration Example Items Description

2.2 Information

2.2.1 Licenses

You can check the license on the NTP Licenses Page in the Information section in the main menu.

NTP Licenses		
Project	License	More Information
ntp	NTP	License

Figure 3: Licenses

3. Related Documents

- [1] Advantech Czech: **v2 Routers Configuration Manual** (MAN-0021-EN)
- [2] Advantech Czech: **SmartFlex Configuration Manual** (MAN-0023-EN)
- [3] Advantech Czech: **SmartMotion Configuration Manual** (MAN-0024-EN)
- [4] Advantech Czech: **SmartStart Configuration Manual** (MAN-0022-EN)
- [5] Advantech Czech: **ICR-3200 Configuration Manual** (MAN-0042-EN)



Product related documents can be obtained on *Engineering Portal* at icr.advantech.cz address.