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RUT900 NTP

The information in this page is updated in accordance with firmware version .
***Note**: **click here** for the old style WebUI (FW version RUT9XX_R_00.06.09.5 and earlier) user manual page.*

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Summary

Network Time Protocol (**NTP**) is a networking protocol for clock synchronization between computer systems over packet-switched, variable-latency data networks. This chapter is an overview of the NTP section for RUT900 devices.

General

The **Time Synchronization** section lets you select time zone and synchronize the time.

The figure below is an example of the Time Synchronization section and the table below provides information about the fields contained in that section:

Field	Value	Description
Current system time	time; default: **none**	Current local time of the device.
Sync with browser	-(interactive button)	Click to synchronize device time and time zone to browsers, if your device time or time zone is not correct.
Time zone	time zone; default: **UTC**	The device will sync time in accordance with the selected time zone.

NTP

This section is used to configure NTP client, server and time servers.

Time Synchronization

Field	Value	Description
Enable NTP Client	off | on; default: **on**	Turns NTP on or off.
Save time to flash	off | on; default: **off**	Saves last synchronized time to flash memory.
Force Servers	off | on; default: **off**	Forces unreliable NTP servers.
Update interval (in seconds)	integer; default: **86400**	How often the device will update the time.
Offset frequency	integer; default: **0**	Adjusts the minor drift of the clock so that it will run more accurately.
Count of time synchronizations	integer; default: **none**	The amount of times the device will perform time synchronizations. Leave empty in order to set to infinite.
Operator Station Synchronization	off | on; default: **off**	Synchronizes time with mobile operator's base station.
Timezone Synchronization	off | on; default: **off**	Sync time data with mobile operator.
Hostname	ip | url; default: **0.openwrt.pool.ntp.org**	NTP servers that this device uses to sync time.

NTP Server

The device can also act as an **NTP Server**, providing clock synchronization to other devices in the network. From this section you can turn this feature on or off:

NTPD

The **NTPD** program is an operating system daemon that synchronizes the system clock to remote NTP time servers or local reference clocks. NTPD includes the ability to use this to keep your clock in sync and will run more accurately than a clock on a device not running NTPD. NTPD will also use several servers to improve accuracy. It is a complete implementation of NTP version 4 defined by RFC-5905, but also retains compatible with version 3 defined by RFC-1305 and versions 1 and 2, defined by RFC-1059 and RFC-1119, respectively.

Field	Value	Description
Enable NTPD	off | on; default: **off**	Turns NTPD on or off.
Enable NTP config from file	off | on; default: **off**	Run NTPD with uploaded configuration file.
NTP configuration file	.conf file; default: **none**	Upload a custom configuration file.

Server	ip | url; default: **0.openwrt.pool.ntp.org**	NTP servers that this device uses to sync time.
Enable Server	off | on; default: **off**	Enables NTPD server to make the router act as an NTP server so that it can provide time synchronization services for other network devices.