

RUT955 SMS Utilities (legacy WebUI)

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The information in this page is updated in accordance with firmware version **[RUT9XX_R_00.06.09.5](#)**.

Note: this user manual page is for RUT950's old WebUI style available in earlier FW versions. [Click here](#) for information based on the latest FW version.

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Summary

SMS Utilities provide a possibility to monitor and modify device configuration files, monitor the status of the device and issue commands to it via SMS messages. The page also contains the **Call Utilities** section which provides some measure of control over the device using phone calls, and some other SMS related commands and configurations.

This chapter of the user manual provides an overview of the SMS Utilities page for RUT950 devices.

SMS Utilities

Execution

To execute a rule, just send an SMS message to the router's SIM card number with the rule's SMS Text, e.g., if you send a message with the text **"reboot"**, the router will reboot provided the selected Authorization method is **"No authorization"**. However, if there is an Authorization method present you will need to include the **"Authorization key"** in the text message. This **"Authorization key"** depends on the chosen **Authorization method**, i.e., if the method is **"By serial"**, the **"Authorization key"** is the router's serial number, if the method is **"By router admin password"**, the **"Authorization key"** is the router's admin password. The **"Authorization key"** must precede the activation text and they must be separated by a space symbol. For example, if the chosen Authorization method is **"By router admin password"** and the password is "admin01", the entire message should look like this: **"admin01 reboot"**. The same applies to **"By serial"** authorization.

Here are a few examples of how certain rules can be executed with various Authorization methods:

COMMAND	AUTHORIZATION METHOD	SMS TEXT
Status	By router admin password	ROUTER_PASSWORD status
Reboot	By serial	SERIAL_NUMBER reboot
Switch mobile data off	No authorization	mobileoff

Default Rules

The SMS Utilities section contains a list of rules that perform certain actions when they are activated by SMS messages.



The figure above is an illustration of the SMS Utilities rules list. The entire list contains 26 rules but you are also be provided with the possibility to configure custom ones.

All default configuration options are listed below:

- Reboot
- Get status
- Get I/O status
- Get OpenVPN status
- Switch WiFi on / off
- Switch mobile data on / off
- Switch OpenVPN on / off
- Change mobile data settings
- Get list of profiles
- Change profile
- SSH access control
- Web access control
- Restore to default
- Force SIM switch
- GPS coordinates
- GPS on / off
- FW upgrade from server
- Switch monitoring on / off
- Monitoring status
- UCI API
- MORE

Rule Overview and editing

Every SMS rule can be edited to your liking. If none of the rules suit your purposes, just click the **Edit** button next to any SMS Utilities rules. This section will contain information on editing every single SMS Utilities rule.

Reboot



Above is an example of what an **SMS Configuration** window looks like, specifically, **SMS Configuration** for the **Reboot** rule. Below is a table with detailed explanations on how to configure the rule and what each of the fields mean. To avoid redundancy, screenshots for the other rules will not be provided, since the structures, syntax and the overall look of the configuration windows for

each rule are very similar. Instead, only tables containing information on how to edit each rule will be provided.

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable SMS reboot function	Allows router restart via SMS
Action	The action to be performed when this rule is met	Reboots the router
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter; Default text: reboot
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Get status via SMS after reboot	Check this to receive connection status via SMS after the reboot	If checked, the router will send a status message once it has rebooted and is operational again. This is both a separate SMS Rule and an option under the SMS Reboot rule. After checking this, the Send status SMS to other number field will become available
Send status SMS to other number	Enable this if you want the status message to be sent to another (other than the sender) number (s)	If this is checked, you will be prompted to enter a phone number (s) This field appears only if you have checked Get status via SMS after reboot
Message text	Which status information should be included in SMS: Data state, Operator, Connection type, Signal Strength, Connection State, IP	You can select which status elements to display

Status

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable SMS status function	Allows you to get the router's status via SMS. This is both a separate SMS Rule and an option under the SMS Reboot rule
Action	The action to be performed when this rule is met	Returns an SMS message containing information about the status of the router. The type of information contained within the message can be specified in the Message text field
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter; Default text: status
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Send status SMS to other number	Enable this if you want the status message to be sent to another (other than the sender) number (s)	If this is checked, you will be prompted to enter a phone number (s)
Message text	Which status information should be included in SMS: Data state, Operator, Connection type, Signal Strength, Connection State, IP	You can select which status elements to display

Get I/O status

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable SMS I/O status function	Allows you to get the router's I/O status via SMS
Action	The action to be performed when this rule is met	Returns an SMS message containing information about the Input/Output status of the router
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter; Default text: iostatus
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Send status SMS to other number	Enable this if you want a status message to be sent to another (other than the sender) number (s)	If this is checked, you will be prompted to enter a phone number (s)

Get OpenVPN status

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the OpenVPN status function	Allows to get the router's OpenVPN status via SMS
Action	The action to be performed when this rule is met	Returns an SMS message containing information about an OpenVPN instance's status
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter; Default text: vpnstatus
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Send status SMS to other number	Enable this if you want a status message to be sent to another (other than the sender) number (s)	If this is checked, you will be prompted to enter a phone number (s)

Switch WiFi On/Off

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Switch WiFi function	Allows Wi-Fi control via SMS.
Action	The action to be performed when this rule is met	Turns WiFi ON or OFF
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter; Default text: wifion to turn WiFi ON; wifioff to turn WiFi OFF
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Write to config	Permanently saves Wi-Fi state	With this setting enabled, the router will keep the new Wi-Fi state even after reboot. If it is not selected, the router will revert the Wi-Fi state after reboot

Switch mobile data ON/OFF

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Switch mobile data function	Allows mobile control via SMS
Action	The action to be performed when this rule is met	Turn mobile data ON or OFF
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter; Default text: mobileon to turn mobile data ON; mobileoff to turn mobile data OFF
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Write to config	Permanently saves mobile network state	With this setting enabled, the router will keep the new mobile data state even after reboot. If it is not selected, the router will revert the mobile data state after reboot

Manage OpenVPN

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Manage OpenVPN function	Allows OpenVPN control via SMS
Action	The action to be performed when this rule is met	Turns an OpenVPN instance ON or OFF
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default: vpn on to turn OpenVPN ON; vpn off to turn OpenVPN OFF After the SMS text you have to write OpenVPN instance's name, e.g., "vpn client_Client1"
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

Get list of profiles

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Get list of profiles function	Allows you to get the list of profiles via SMS
Action	The action to be performed when this rule is met.	Sends you the list of existing profiles
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: profdisp
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

Get active profile

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Get list of profiles function	Rule used to find out which profile is in use.
Action	The action to be performed when this rule is met.	Returns the name of the currently active configuration profile via SMS.
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: profactive
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

Change profile

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Change profile function	Allows changing profiles via SMS
Action	The action to be performed when this rule is met.	Changes the current profile to the one specified in the message
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text pr After the SMS text you have to write the Profile's name, e.g., "pr John"
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

SSH access Control

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the SSH access control function	Allows SSH access control via SMS
Action	The action to be performed when this rule is met.	Turns SSH access ON or OFF
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: ssh
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Enable SSH access	Enables or Disables SSH access from LAN	If this is checked, SMS will enable SSH access from LAN, if not, SMS will disable SSH access from LAN
Enable remote SSH access	Enables or Disables SSH access from WAN	If this is checked, SMS will enable SSH access from WAN, if not, SMS will disable SSH access from WAN

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- Note that by default the ssh rule will **enable both local and remote SSH access**. You can change how the rule acts by clicking the "Edit" button located next to it:



-
- In the next window you can customize whether the rule will turn local/remote SSH access ON or OFF:



If you are using this rule frequently, we suggest that you create a new custom rule. For example, you can use the default rule to turn SSH access ON and use the custom rule to turn SSH access OFF. You can create new SMS Utilities rules from the **New SMS Rule** section located at the bottom of the SMS Utilities page.

Web access Control

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Web access control function	Allows Web access control via SMS
Action	The action to be performed when this rule is met.	Turns access to WebUI ON or OFF
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: web
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Enable HTTP access	Enables or Disables HTTP access from LAN	If this is checked, SMS will enable HTTP access from LAN, if not, SMS will disable HTTP access from LAN
Enable HTTPS access	Enables or Disables HTTPS access from LAN	If this is checked, SMS will enable HTTPS access from LAN, if not, SMS will disable HTTPS access from LAN
Enable remote HTTP access	Enables or Disables HTTP access from WAN	If this is checked, SMS will enable HTTP access from WAN, if not, SMS will disable HTTP access from WAN
Enable remote HTTPS access	Enables or Disables HTTPS access from WAN	If this is checked, SMS will enable HTTPS access from WAN, if not, SMS will disable HTTPS access from WAN

- Note that by default the web rule will **enable both local and remote HTTP access** as well as **remote HTTPS access**. You can change how the rule acts by clicking the "Edit" button located next to it:



-
- In the next window you can customize whether the rule will turn local/remote HTTP/HTTPS access ON or OFF:



If you are using this rule frequently, we suggest that you create a new custom rule. For example, you can use the default rule to turn HTTP/HTTPS access ON and use the custom rule to turn HTTP/HTTPS access OFF. You can create new SMS Utilities rules from the **New SMS Rule** section located at the bottom of the SMS Utilities page.

Restore to default

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Restore to default function	Allows you to restore the router to its default settings via SMS
Action	The action to be performed when this rule is met.	Executes a router Reset, which means the router will reboot after this rule is executed and all custom configurations will be deleted and restored to default
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: restore
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

Force SIM switch

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Force SIM switch function	Allows SIM switch via SMS
Action	The action to be performed when this rule is met.	Forces the router to switch to the other SIM card(the one that is not in use at the moment of receiving the message)
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: switch_sim
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

GPS Coordinates

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the GPS coordinates function	Allows you to get GPS coordinates via SMS
Action	The action to be performed when this rule is met.	Sends you GPS coordinates of the router
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: gps
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

GPS ON/OFF

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the GPS ON/OFF function	Allows you to control GPS via SMS
Action	The action to be performed when this rule is met.	Turns GPS ON or OFF
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: gpson to turn GPS ON; gpsoff to turn GPS OFF
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

Force FW upgrade from server

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the FW upgrade from server function	Allows you to upgrade the router's FW via SMS
Action	The action to be performed when this rule is met.	Upgrades your router's current Firmware to the one uploaded and assigned to your router in FOTA. The router will reboot and be unreachable for a couple of minutes after this rule is executed
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: fw_upgrade
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

Switch monitoring ON/OFF

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Switch monitoring function	Allows you to control monitoring status via SMS
Action	The action to be performed when this rule is met.	Turns remote monitoring ON or OFF
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: monitoringon to turn remote monitoring ON; monitoringoff to turn remote monitoring OFF;
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

Monitoring status

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Monitoring status function	Allows you to get monitoring status via SMS
Action	The action to be performed when this rule is met.	Returns a text message containing information about remote monitoring status
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: monitoring status
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

Switch output ON/OFF

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Switch output function	Allows output control via SMS
Action	The action to be performed when this rule is met.	Turns specified output ON or OFF
Active timeout	Make the rule active for a specific time; format: seconds	Example: if you configure a rule to turn a specific output on and set a 30 s timeout, the output will activate once the router receives the SMS messages and then it will deactivate after a period of 30 s
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: none
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
Output type	Which output will be activated	Possible values: Digital OC output Relay output; Default: Digital OC output

NOTE: No default **SMS text** is provided for this rule. It can be created via the **New SMS Rule** tab.

MORE

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the MORE rule	Provides the possibility to see the next part of the message
Action	The action to be performed when this rule is met	Returns a text message containing the next part of the message
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: more
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

WOL

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the WOL rule	Provides the possibility to wake computers from sleep mode
Action	The action to be performed when this rule is met.	Wakes the specified computer from sleep mode
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: none
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers
MAC address	Computer's MAC Address	Possible values: mac; Default: none

NOTE: No default **SMS text** is provided for this rule. It can be created via the **New SMS Rule** tab.

Change mobile data settings (cellular) rule

The Change mobile data settings rule is exceptional to most of the other rules as it does not perform a single action like turning specific services On/Off or getting status updates. It designed to change mobile data settings and it's **SMS text** can't be described by a single string because the message depends on what configurations you want to change. For example, you can send a message that will change your APN only, you can send a message that will change APN and mobile service mode, or even a message that will change every single mobile setting.

Change mobile data settings

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the Change mobile data settings function	Allows you to change mobile settings via SMS
Action	The action to be performed when this rule is met.	Changes the specified mobile settings
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default: cellular Detailed explanations on how to use this function are presented in the table below
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

The default **SMS text** for the Change mobile data settings rule is **cellular** but it is only an indication text and does not include any specific parameters to be changed. The list of parameters that can be changed and explanations on how to incorporate them into the "**cellular**" message is presented in the table below.

Mobile Settings via SMS parameters

PARAMETER	VALUE	DESCRIPTION	DEFAULT MESSAGE EXAMPLE
apn=	e.g., internet.gprs	Sets APN	cellular apn=internet.gprs
dialnumber=	e.g., *99***1#	Sets Dialing number	cellular dialnumber=*99***1#
auth_mode=	none pap chap	Sets Authentication method	cellular auth_method=pap
service=	2gonly 3gonly 4gonly auto	Sets the mobile Service mode	cellular service=auto
username=	e.g., user	Sets the user name for PAP or CHAP authentication	cellular username=user
password=	e.g., pass	Sets the password for PAP or CHAP authentication	cellular password=pass
roaming=	0 for OFF; 1 for ON	Turn Mobile data roaming ON or OFF	cellular roaming=0

Each of the above examples contain a single parameter but you can send out multiple parameters in one message. For example, "**cellular apn=internet.gprs service=3gonly**". This message would set your APN to "internet.gprs" and your Service mode to 3G Only. You can also send a message that would include all of the parameters above: "**cellular apn=internet.gprs dialnumber=*99***1# auth_mode=pap service=3gonly username=user password=pass**"

UCI API rule

The UCI rule lets you set or get any parameter from the router's configuration files.

UCI API

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	This check box will enable or disable the UCI API function	Allows you to set or get any configurations from the router
Action	The action to be performed when this rule is met.	Sets or sends you any specified configurations of the router
SMS text	SMS text that will trigger the rule	SMS text can contain letters, numbers, spaces and special symbols. Capital letters also matter Default text: uci Detailed explanations on how to use this function are presented in the table below
Authorization method	What kind of authorization to use for SIM management	Possible values: No authorization By serial By router admin password; Default: By router admin password
Allowed users	White list of allowed users	Possible values: From all numbers From group From single number; Default: From all numbers

The following are syntax examples for the UCI API rule:

UCI API syntax

SYNTAX	DESCRIPTION	DEFAULT MESSAGE EXAMPLE
uci get config.section.option"	Returns config option value	uci get network.wan.ipaddr - returns the router's WAN IP address
uci set config.section.option="value"	Sets config option	uci set wireless.wifi-iface.key="12345678" - sets WiFi interface's password to 12345678
uci show config	Returns the contents of a config file	uci show openvpn - returns the contents of the openvpn config file
uci show config.section	Returns the exact part of a config file (either section or the exact option value)	uci show network.ppp - returns the contents of the ppp interface section from the network config file

As you can see, the UCI rule requires that you know the names of the configuration files and the names of the sections and parameters that they hold. You can find the config file list and some examples of UCI usage in general in our [UCI command usage](#) article.

Custom Rules

If default rules do not suit your purposes, you can also configure custom SMS rules. To do so, go to

the bottom of the SMS Utilities page, where you will find the **New SMS Rule** tab. Select an Action and press the **Add** button located next to it.



Configuring a new rule is very similar to editing default rules: you are provided with a list of **Actions**, other fields are generated in accordance with which **Action** you choose.

Call Utilities

Just like SMS Utilities, Call Utilities provide you with the possibility to issue certain commands to the router from your mobile phone. The list of possible rules is of course shorter because you can only make one type of call. Keep that in mind when creating Call Utilities rules because one call will trigger all of the enabled rules at once.

You can add new rule by choosing rule type and clicking **Add** button.

You can also choose action which will be executed when router has incomming call. You can choose **Reject** to reject all incomming calls (rules will still get executed), **Answer** to answer and hangup after specified interval, or **Ignore** to make the router ignore the calls (rules will keep getting executed while the call is in progress).



Call Configuration

The **Call Configuration** window is similar to **SMS Configuration**, but less complex.

Reboot



FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	yes no; Default: no	Allows router's Call rules
Action	Reboot Send status Switch WiFi Switch mobile data Switch output; Default: Reboot	The action to be performed when this rule is met
Allowed users	From all numbers From group From single number; Default: From all numbers	White list of allowed users
Get status via SMS after reboot	yes no; Default: no	If checked, the router will send a status message once it has rebooted and is operational again

Send Status

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	yes no; Default: no	Allows router's Call rule
Action	The action to be performed when this rule is met	Sends status information message
Allowed users	From all numbers From group From single number; Default: From all numbers	White list of allowed users
Message text	string; Default: Router name - %rn; WAN IP - %wi; Data Connection state - %cs; Connection type - %ct; Signal Strength - %ss; New FW available - %fs;	Which status information should be included in SMS: Data state, Operator, Connection type, Signal Strength, Connection State, IP

Switch WiFi

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	yes no; Default: no	Allows router's Call rule
Action	The action to be performed when this rule is met	Switches wireless on or off

Allowed users	From all numbers From group From single number; Default: From all numbers	White list of allowed users
Write to config	yes no; Default: no	If checked, the router will save performed action in configuration and changes won't be lost after reboot

Switch Mobile Data

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	yes no; Default: no	Allows router's Call rule
Action	The action to be performed when this rule is met	Switches mobile data on or off
Allowed users	From all numbers From group From single number; Default: From all numbers	White list of allowed users
Write to config	yes no; Default: no	If checked, the router will save performed action in configuration and changes won't be lost after reboot

Switch Output

FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Enable	yes no; Default: no	Allows router's Call rule
Action	The action to be performed when this rule is met	Switches output type
Active timeout	on off; Default: off	Make rule active for specified time
Seconds	integer; Default: 5	Active rule time in seconds
Allowed users	From all numbers From group From single number; Default: From all numbers	White list of allowed users
Output type	Digital OC output Relay output; Default: Digital OC output	Type of output which will be activated

User Groups

User Groups provides you with the possibility to group phone numbers for SMS management purposes. You can then later use these groups in all related SMS and call functionalities. This option helps if there are several Users who should have the same roles when managing the router via SMS or calls. You can create a new user group by entering a name in the **Group name** text field and clicking the **Add** button located next to it in the **Create New User Group** section. After this you will be redirected to the **Modify User Group** section.



FIELD NAME	DESCRIPTION	EXPLANATION, NOTES
Group name	string; Default: None	Name of the group of phone numbers. Used for easier management purposes
Phone number	phone number; Default: None	Add numbers to the user group. Must match international format. You can add more phone number fields by clicking on the green  symbol

SMS Management

With the help of the **SMS Management** window you can read and send SMS messages.

Read SMS

In the **Read SMS** tab you can read and delete received/stored SMS messages. The layout is simple, there is a list of received SMS messages and you can choose how many entries of that list should be visible at one time with SMS per page drop box in the top left corner of the page and there is a Search field to help you navigate more efficiently through the list of messages in the top right corner of the page.



Send SMS

The Send SMS tab lets you send SMS messages from the router's SIM card.



All you have to do is enter the recipient's phone number, type in your message and hit the **Send** button. If everything went well, a green bar saying **Message sent** should appear (image below).



Storage

The Storage tab shows you how much SIM card memory space is used and how much is still available. You can also chose the option for the router to not delete messages. If this option is not used, the router will automatically delete all incoming messages after they have been read. Message status **read/unread** is examined every 60 seconds. All **read** messages are deleted.



Remote Configuration

RUT routers can be configured via SMS from another RUT router. You only have to select which configuration details have to be sent and type in the phone number of the other router. The router will then generate the SMS Text needed for the configurations to be applied. Total count of SMS is managed automatically. **You should be aware of the possible number of SMS and use this feature at your own responsibility.** Generally, it should not be used if you have a high cost per SMS. This is especially relevant if you will try to send a whole OpenVPN configuration, which might accumulate to about 40 SMS messages.

Receive Configuration

This section controls how the configuration initiation party should identify itself.



FIELD NAME	VALUE	DESCRIPTION
Enable	string; Default: None	Name of the group of phone numbers. Used for easier management purposes
Authorization method	No authorization By serial By router admin password; Default: No authorization	What kind of authorization will be used to authenticate remote configurations
Allowed users	From all numbers From group From single number; Default: From all numbers	White list of allowed users that can send remote configurations to the router

Send Configuration

This section lets you configure remote RUTxxx devices via SMS. The authorization settings must match those that are set on the receiving party. An example of how sending a new network configuration with both WAN and LAN settings is presented below.



FIELD NAME	VALUE	DESCRIPTION
Generate SMS	New From current configuration; Default: New	Select whether the configuration will be newly generated or the router's current configuration
WAN	yes no; Default: no	Select whether to send WAN (Wide Area Network) configurations
Interface	Wired Mobile; Default: Mobile	Which interface type will be used for WAN connection on the remote device
Primary SIM card	SIM1 SIM2; Default: SIM1	Which SIM card will be used as Primary on the remote device
Mobile connection	Use PPP mode Use NDIS mode Use NCM mode Use QMI mode Use QMI mode used for Quectel EC25-E modem; Default: Use PPP mode	Which mobile connection type will be used on the remote device; select according to the remote device's modem: NDIS for Huawei modems NCM for Telit modems QMI for Quectel modems PPP for any modem
APN	string; Default: None	APN that will be used on the remote device. APN is the name of a gateway between a GPRS or 3G mobile networks and another computer network, frequently the public Internet. APN is provided by your Internet Service Provider (ISP)
Dialing number	string; Default: None	Dialing number that will be used on the remote device. A Dialling number is used to establish a mobile PPP connection
Authentication method	CHAP PAP {{!}} None; Default: None	Mobile authentication method that will be used on the remote device. Mobile Authentication methods are used to authenticate new connections on your GSM carrier's network
User name	string; Default: None	User name used for new connection authentication with CHAP or PAP authentication methods. This field only becomes visible when you select CHAP or PAP authentication methods.
Password	string; Default: None	Password used for new connection authentication with CHAP or PAP authentication methods. This field only becomes visible when you select CHAP or PAP authentication methods.
Service mode	2G Only 2G preferred 3G Only 3G preferred 4G (LTE) Only 4G (LTE) preferred Automatic; Default: 3G preferred	Mobile service mode that will be used on the remote device
LAN	yes no; Default: no	LAN IP address that will be used on the remote device
IP address	ip; Default: None	LAN IP address that will be used on the remote device
IP netmask	ip; Default: None	A subnet mask that the remote router will use to define how large the LAN network is
IP broadcast	ip; Default: None	A logical address at which all devices connected to a multiple-access communications network are enabled to receive datagrams

This is an example of only one scenario but you can also send different Network and VPN settings. The settings being sent are the same as they would be configured on your router locally, therefore, you can find information on what different Network and VPN parameters do in [LAN](#), [WAN](#), [Mobile](#) and [VPN](#) pages of this wiki.

Statistics

The Statistics page represents information about sent and received SMS messages and provides possibility to reset counters.

