

# RUT850 TR-069

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The information in this page is updated in accordance with the [RUT850\\_R\\_00.01.04](#) firmware version.

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## Summary

**TR-069 (Technical Report 069)** is an application layer protocol designed for management of equipment connected to a remote network.

This chapter of the user manual provides an overview of the UPnP page in RUT850 devices.

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TR-069 is additional software that can be installed from the **System** → [Package Manager](#) page.

## TR-069 Client Configuration

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Field	Value	Description
Enable	yes   no; default: <b>no</b>	Turns TR-069 client on or off.
Periodic enable	yes   no; default: <b>yes</b>	Turns periodic data transmissions to server on or off.
Accept server request	yes   no; default: <b>no</b>	When enabled the router accepts connection requests from server.
Sending interval	integer [60..9999999]; default: <b>100</b>	Periodic data transmission frequency (in seconds).
Username	string; default: <b>easycwmp</b>	Username used for authentication to a TR-069 server.
Password	string; default: <b>easycwmp</b>	Password used for authentication to a TR-069 server.

URL	host   ip; default: <b>http://192.168.1.110:8080/openacs/acs</b>	IP address or hostname of a TR-069 server.
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## Management via TR-069

TR-069 can be used to set or get values from RUT routers. Below is a list of commands used for router management via TR-069.

- R - read only;
  - RW - read/write;
  - string(64) - 64 bit string;
  - string(256) - 256 bit string;
  - unsignedInt - integer storing only positive values.
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### FW Upgrade:

1. **FileType** - firmware Upgrade Image, string(64)
  2. **URL** - URL, specifying the source file location, string(256)
  3. **Username** - username to be used by the CPE to authenticate with the file server. This string is set to the empty string if no authentication is required, string(256)
  4. **Password** - password to be used by the CPE to authenticate with the file server. This string is set to the empty string if no authentication is required, string(256)
  5. **FileSize** - the size of the file to be downloaded in bytes, unsignedInt
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### Device Information:

1. **DeviceInfo.SpecVersion** - R
  2. **DeviceInfo.ProvisioningCode** - RW
  3. **DeviceInfo.Manufacturer** - device manufacturer (e.g., Teltonika) R
  4. **DeviceInfo.ManufacturerOUI** - R
  5. **DeviceInfo.ProductClass** - device model (e.g., RUT850) R
  6. **DeviceInfo.SerialNumber** - device serial number (e.g., 1000111111) R
  7. **DeviceInfo.HardwareVersion** - device hardware version (e.g., 0505) R
  8. **DeviceInfo.SoftwareVersion** - device software version (e.g.,  
{{{fw\_version}}}) R
  9. **DeviceInfo.UpTime** - router uptime R
  10. **DeviceInfo.DeviceLog** - last line of device log. R
  11. **DeviceInfo.MemoryStatus**
    - 11.1 **DeviceInfo.MemoryStatus.Total** - total device memory (e.g., 61008) R
    - 11.2 **DeviceInfo.MemoryStatus.Free** - free memory (e.g., 24224) R
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### IP Ping Diagnostics support:

1. **IPPingDiagnostics**

- 1.1 **IPPingDiagnostics.DiagnosticsState** - diagnostics State (e.g. None) R
  - 1.2 **IPPingDiagnostics.Host** - host RW
  - 1.3 **IPPingDiagnostics.NumberOfRepetitions** - number of repetitions RW
  - 1.4 **IPPingDiagnostics.Timeout** - timeout RW
  - 1.5 **IPPingDiagnostics.DataBlockSize** - data block size RW
  - 1.6 **IPPingDiagnostics.SuccessCount** - success count R
  - 1.7 **IPPingDiagnostics.FailureCount** - fail count R
  - 1.8 **IPPingDiagnostics.AverageResponseTime** - average response time R
  - 1.9 **IPPingDiagnostics.MinimumResponseTime** - minimum response time R
  - 1.10 **IPPingDiagnostics.MaximumResponseTime** - maximum response time R
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## Mobile Information:

### 1. MobileInfo

- 1.1 **MobileInfo.RSSI** - GSM signal level R
  - 1.2 **MobileInfo.ConnState** - connection state R
  - 1.3 **MobileInfo.NetState** - network link state R
  - 1.4 **MobileInfo.ICCID** - SIM ICCID R
  - 1.5 **MobileInfo.IMSI** - IMSI R
  - 1.6 **MobileInfo.RSCP** - RSCP level R
  - 1.7 **MobileInfo.ECIO** - EC/IO level R
  - 1.8 **MobileInfo.RSRP** - RSRP level R
  - 1.9 **MobileInfo.SINR** - SINR level R
  - 1.10 **MobileInfo.RSRQ** - RSRQ level R
  - 1.11 **MobileInfo.CellID** - CellID R
  - 1.12 **MobileInfo.Operator** - name of operator used R
  - 1.13 **MobileInfo.OperatorNum** - operator number R
  - 1.14 **MobileInfo.ConnType** - data carrier type R
  - 1.15 **MobileInfo.Modem**
    - 1.15.1 **MobileInfo.Modem.Model** - modem model R
    - 1.15.2 **MobileInfo.Modem.Manufacturer** - modem manufacturer R
    - 1.15.3 **MobileInfo.Modem.Serial** - modem serial number R
    - 1.15.4 **MobileInfo.Modem.Revision** - modem revision number R
    - 1.15.5 **MobileInfo.Modem.IMEI** - modem IMEI R
    - 1.15.6 **MobileInfo.Modem.SimState** - SIM card state R
    - 1.15.7 **MobileInfo.Modem.PinState** - PIN state R
    - 1.15.8 **MobileInfo.Modem.Temperature** - modem temperature in 0.1 degrees Celsius R
  - 1.16 **MobileInfo.SentToday** - bytes sent today R
  - 1.17 **MobileInfo.ReceivedToday** - bytes received today R
  - 1.18 **MobileInfo.SentThisMonth** - bytes sent this month R
  - 1.19 **MobileInfo.ReceivedThisMonth** - bytes received this month R
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## WAN Information:

### 1. WANConnectionDevice

- 1.1 **WANConnectionDevice.WANIPConnection**
  - 1.1.1 **WANConnectionDevice.WANIPConnection.ConnectionStatus** - connection

status (e.g., Connected) R

1.1.2 **WANIPConnection.ExternalIPAddress** - IP address R

1.1.3 **WANIPConnection.MACAddress** - MAC address R

1.2 **WANConnectionDevice.WANPPPConnection** - PPP connection

1.2.1. **WANConnectionDevice.WANPPPConnection.1.Enable** - connection state (e.g., 1 or 0) R

1.2.2. **WANConnectionDevice.WANPPPConnection.1.APN** - APN R

1.2.3. **WANConnectionDevice.WANPPPConnection.1.ExternalIPAddress** - IP address R

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## WiFi Information:

### 1. Radio

1.2 **Radio.Enable** - enabled (e.g., 0 or 1) RW

1.3 **Radio.Status** - WiFi status (e.g., Up) R

1.4 **Radio.Name** - Device name R

1.5 **Radio.SupportedFrequencyBands** - supported frequency bands (e.g., 2.4GHz) R

1.6 **Radio.OperatingFrequencyBand** - operating frequency bands (e.g., 2.4GHz) R

1.7 **Radio.ChannelsInUse** - channels R

1.8 **Radio.Channel** - channel in use RW

1.9 **Radio.AutoChannelSupported** - auto channel support (e.g., 1) R

1.10 **Radio.AutoChannelEnable** - auto channel state (e.g., 1) RW

1.11 **Radio.OperatingStandards** - operating standards (e.g., 11ng) RW

### 2. SSID

2.1 **SSID.Enable** - WiFi interface state (e.g., 1) RW

2.2 **SSID.Status** - WiFi interface status (e.g., 1) R

2.3 **SSID.Name** - interface name (e.g., wlan0 ) R

2.4 **SSID.SSID** - SSID RW

### 3. Security

3.5 **Security.ModesSupported** - (None,WEP-64,WEP-128,WPA-Personal,WPA2-Personal,WPA-WPA2-Personal,WPA-Enterprise,WPA2-Enterprise,WPA-WPA2-Enterprise) R

3.6 **Security.ModeEnabled** - current mode (e.g WPA2-Personal) RW

3.7 **Security.WEPKey** - WEP key RW

3.8 **Security.PreSharedKey** - pre-shared key RW

3.9 **Security.KeyPassphrase** - key passphrase RW

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## Hotspot information:

### 1. General

1.1 **General.Enable** - state (e.g. 1) RW

1.2 **General.IP** - IP address (e.g. 192.168.2.254) RW

1.3 **General.Mode** - authentication mode

(**extrad** - External radius, **intrad** - Internal radius, **norad** - Without radius, **add** - Advertisement, **mac** - MAC auth, **sms** - SMS OTP) (e.g., norad) RW

1.4 **General.ExternalLandingPage** - enable external landing page (e.g., 1)

RW

1.5 **General.LandingPageAddress** - external landing page address (e.g., www.landingpageaddr.com) RW

1.6 **General.HTTPSRedirect** - enable HTTPS redirect RW

## 2. **Radius**

2.1 **Radius.Server1** - first radius server address RW

2.2 **Radius.Server2** - second Radius server address RW

2.3 **Radius.AuthenticationPort** - authentication port RW

2.4 **Radius.AccountingPort** - accounting port RW

2.5 **Radius.RadiusSecretKey** - radius secret key RW

2.6 **Radius.UAMPort** - UAM port RW

2.7 **Radius.UAMUIPort** - UAM UI port RW

2.8 **Radius.UAMSecret** - UAM secret RW

2.9 **Radius.NASIdentifier** - NAS identifier RW

2.10 **Radius.SwapOctets** - swap octets RW

2.11 **Radius.LocationName** - location name RW

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## Management server information:

1. **ManagementServer.URL** - server url (e.g., <http://192.168.1.110:8080/openacs/acs>) RW

2. **ManagementServer.Username** - username (e.g., easycwmp) RW

3. **ManagementServer.Password** - password (e.g., easycwmp) RW

4. **ManagementServer.PeriodicInformEnable** - enable periodic inform (e.g., 1 or 0) RW

5. **ManagementServer.PeriodicInformInterval** - interval (e.g, 100) RW

6. **ManagementServer.PeriodicInformTime** - inform time (e.g, 0001-01-01T00:00:00Z) RW