Manuals+ — User Manuals Simplified.

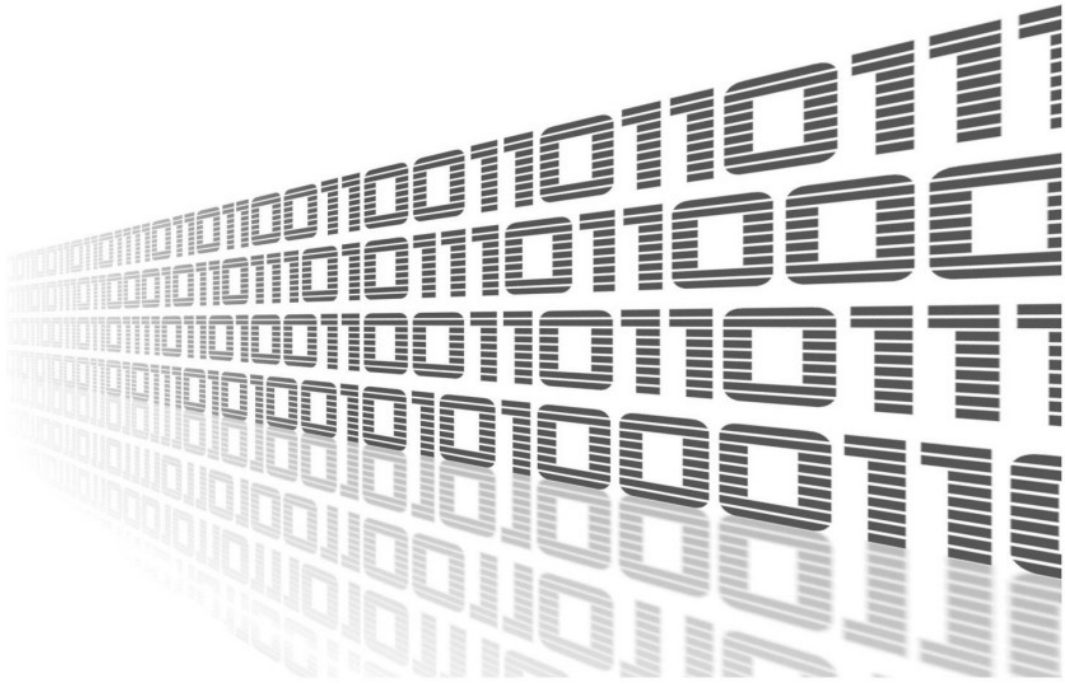# ADVANTECH Technical Report 069 Router Application User Guide

**Technical Report 069
User Guide**

Contents

Technical Report 069 Router Application

Used symbols

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

❗ **Attention** – Problems that can arise in specific situations.

ⓘ **Information** – Useful tips or information of special interest.

✎ **Example** – Example of function, command or script.

Changelog

1.1 Technical Report 069 Changelog
v1.0.0 (2022-03-30)

- First release.

Basic Information

Technical Report 069 (TR-069) is a technical specification of the Broadband Forum that defines an application layer protocol for remote management and provisioning of customer-premises equipment (CPE) connected to an

Internet Protocol (IP) network. TR-069 uses the CPE WAN Management Protocol (CWMP) which provides support functions for auto-configuration, software or firmware image management, software module management, status and performance managements, and diagnostics.

Router App Description

3.1 Web Interface
After Router App installation, the module's GUI can be invoked by clicking the router app name on the Router Apps page of router's web interface.

Left part of this GUI contains menu with Status menu section, 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 router app GUI is shown on Figure below.

Figure 1: Menu

3.2 Status
Status menu section contains Overview item where we can find detailed data about TR-069 service and received parameters.
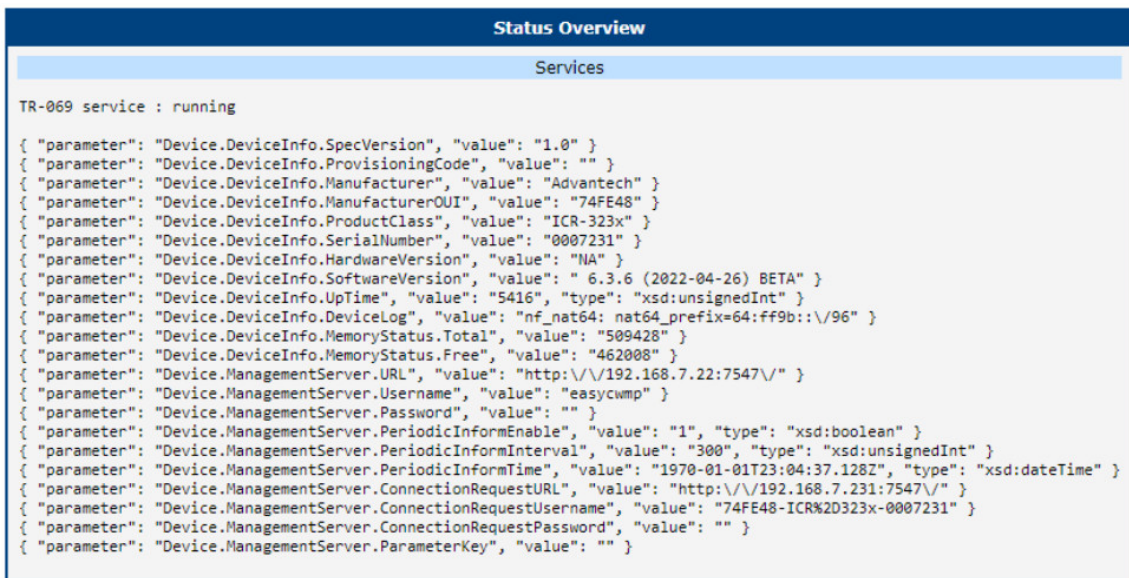
Status Overview

Services

```
TR-069 service : running

{ "parameter": "Device.DeviceInfo.SpecVersion", "value": "1.0" }
{ "parameter": "Device.DeviceInfo.ProvisioningCode", "value": "" }
{ "parameter": "Device.DeviceInfo.Manufacturer", "value": "Advantech" }
{ "parameter": "Device.DeviceInfo.ManufacturerOUI", "value": "74FE48" }
{ "parameter": "Device.DeviceInfo.ProductClass", "value": "ICR-323x" }
{ "parameter": "Device.DeviceInfo.SerialNumber", "value": "0007231" }
{ "parameter": "Device.DeviceInfo.HardwareVersion", "value": "NA" }
{ "parameter": "Device.DeviceInfo.SoftwareVersion", "value": " 6.3.6 (2022-04-26) BETA" }
{ "parameter": "Device.DeviceInfo.UpTime", "value": "5416", "type": "xsd:unsignedInt" }
{ "parameter": "Device.DeviceInfo.DeviceLog", "value": "nf_nat64: nat64_prefix=64:ff9b::\/96" }
{ "parameter": "Device.DeviceInfo.MemoryStatus.Total", "value": "509428" }
{ "parameter": "Device.DeviceInfo.MemoryStatus.Free", "value": "462008" }
{ "parameter": "Device.ManagementServer.URL", "value": "http:\/\/192.168.7.22:7547\/" }
{ "parameter": "Device.ManagementServer.Username", "value": "easycwmp" }
{ "parameter": "Device.ManagementServer.Password", "value": "" }
{ "parameter": "Device.ManagementServer.PeriodicInformEnable", "value": "1", "type": "xsd:boolean" }
{ "parameter": "Device.ManagementServer.PeriodicInformInterval", "value": "300", "type": "xsd:unsignedInt" }
{ "parameter": "Device.ManagementServer.PeriodicInformTime", "value": "1970-01-01T23:04:37.128Z", "type": "xsd:dateTime" }
{ "parameter": "Device.ManagementServer.ConnectionRequestURL", "value": "http:\/\/192.168.7.231:7547\/" }
{ "parameter": "Device.ManagementServer.ConnectionRequestUsername", "value": "74FE48-ICR%2D323x-0007231" }
{ "parameter": "Device.ManagementServer.ConnectionRequestPassword", "value": "" }
{ "parameter": "Device.ManagementServer.ParameterKey", "value": "" }
```

Figure 2: Overview

While System log contains log messages.

```
2022-04-28 10:16:40 easycwmpd: external script exit
2022-04-28 10:16:40 easycwmpd: end session success
2022-04-28 10:18:18 easycwmpd: add event '2 PERIODIC'
2022-04-28 10:18:18 easycwmpd: start session
2022-04-28 10:18:18 easycwmpd: +++ HTTP CLIENT CONFIGURATION +++
2022-04-28 10:18:18 easycwmpd: url: http://192.168.7.22:7547/
2022-04-28 10:18:18 easycwmpd: ssl_verify: SSL certificate validation disabled.
2022-04-28 10:18:18 easycwmpd: --- HTTP CLIENT CONFIGURATION ---
2022-04-28 10:18:18 easycwmpd: configured acs url http://192.168.7.22:7547/
2022-04-28 10:18:18 easycwmpd: external script init
2022-04-28 10:18:18 easycwmpd: external: execute inform parameter
2022-04-28 10:18:18 easycwmpd: send Inform
2022-04-28 10:18:18 easycwmpd: +++ SEND HTTP REQUEST +++ ?xml version="1.0" encoding="UTF-8" stan
2022-04-28 10:18:18 easycwmpd: --- SEND HTTP REQUEST ---
2022-04-28 10:18:18 easycwmpd: +++ RECEIVED HTTP RESPONSE +++ ?xml version="1.0" encoding="UTF-8"
2022-04-28 10:18:18 easycwmpd: --- RECEIVED HTTP RESPONSE ---
2022-04-28 10:18:18 easycwmpd: receive InformResponse from the ACS
2022-04-28 10:18:18 easycwmpd: send empty message to the ACS
2022-04-28 10:18:18 easycwmpd: +++ SEND EMPTY HTTP REQUEST +++
2022-04-28 10:18:18 easycwmpd: +++ RECEIVED EMPTY HTTP RESPONSE +++
2022-04-28 10:18:18 easycwmpd: receive empty message from the ACS
2022-04-28 10:18:18 easycwmpd: external: execute apply service
2022-04-28 10:18:18 easycwmpd: external script exit
2022-04-28 10:18:18 easycwmpd: end session success
2022-04-28 10:19:43 https: user 'root' logged in from 10.40.30.102
```
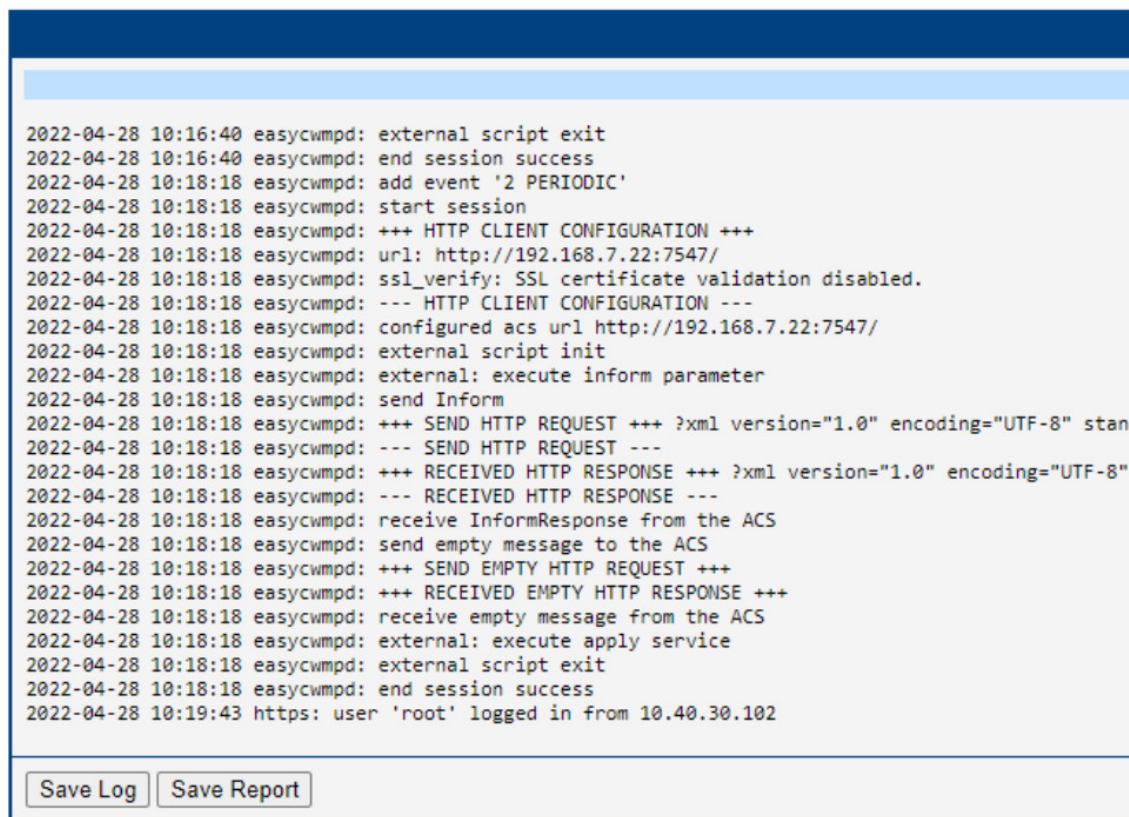
Save Log   Save Report

Figure 3: System log

3.3 Configuration

Global configuration is place where the configuration string should be. Most important lines are option url, option username and option password in the config acs part.
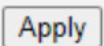
Figure 4: Global configuration

3.4 Licenses

Summarizes Open-Source Software (OSS) licenses used by this module.

Project	License	More Information
easycwmp	GPLv2	License
openssl	OpenSSL	License
json-c	Json-c	License
libubox	Ubox	License
libuci	LGPLv2.1	License
libubus	LGPLv2.1	License
microxml	LGPL2	License
curl	Curl	License

Figure 5: Licenses

Example

In this example is geniacs[1] solution used as auto configuration server (acs). There are 3 routers managed with ACS.

Figure 6: Devices

We can display the detail of each added device

Figure 7: Detail of the device

In this detail it is possible to edit parameter values

Figure 8: Device parameter edit

or even push files. Files, that can be pushed to router are only:

- Config files
- Router firmware

to the router which could be useful for changing config files of even uploading new firmware.

Figure 9: Push file to the device

Related Documents

You can obtain product-related documents on Engineering Portal at **icr.advantech.cz** address.
To get your router's Quick Start Guide, User Manual, Configuration Manual, or Firmware go to the **Router Models** page, find the required model, and switch to the Manuals or Firmware tab, respectively.
The Router Apps installation packages and manuals are available on the **Router Apps** page.
For the Development Documents, go to the **DevZone** page.

Documents / Resources

[**ADVANTECH Technical Report 069 Router Application**](#) [pdf] User Guide
Technical Report 069 Router Application, Report 069 Router Application, 069 Router Application, Router Application, Application

References

- **GenieACS**
- **Advantech 4G, 5G Cellular Routers & Gateways for IoT applications - Engineering Portal**
- **GenieACS**
- **Advantech 4G, 5G Cellular Routers & Gateways for IoT applications - Engineering Portal**
- **DevZone - Cellular Routers Engineering Portal**
- **Router Apps - Cellular Routers Engineering Portal**
- **Router Models - Cellular Routers Engineering Portal**
- **User Manual**