

VoIP Gateway Series

TR-069
(CPE WAN Management Protocol)



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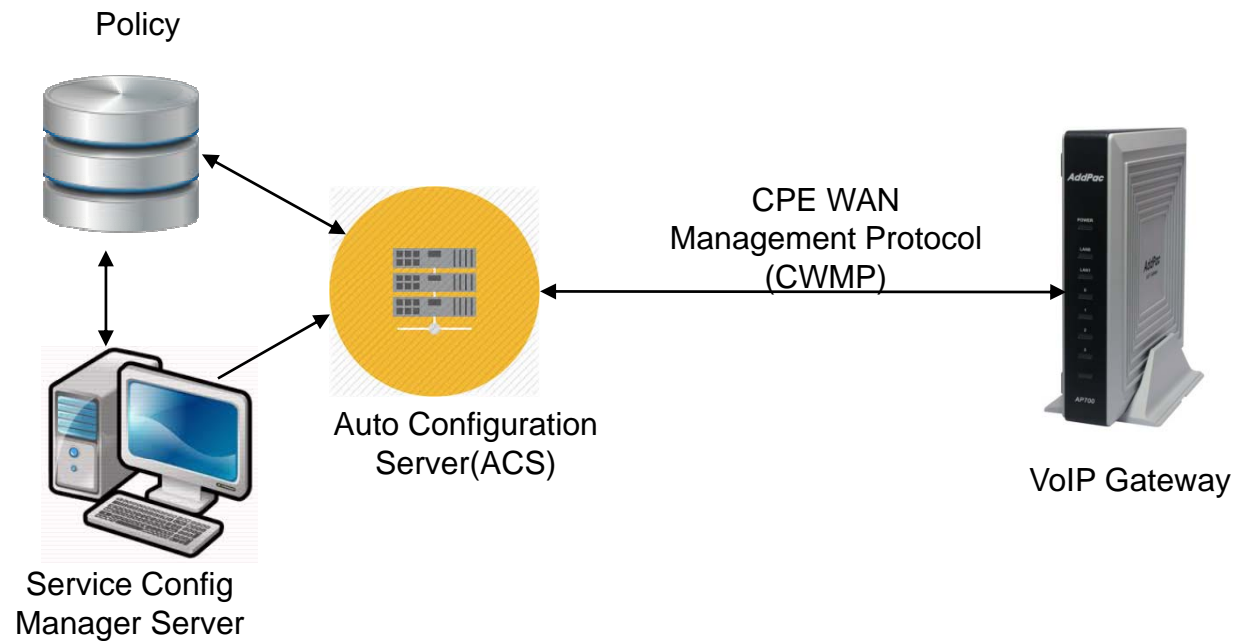
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Protocol Architecture



TR-069 Service Configuration (CLI)

```
!  
tr069  
  acs url http://61.33.161.2:8080/ACS/main.action  
  acs authentication login acs password *****  
  httpd port 8000  
  httpd authentication login cpe password *****  
  cpe serial-number AP-GW-12356423  
  cpe oui ADDPAC-0002A4  
  service enable  
!
```

TR-069 Service Configuration (Smart Web)

The image shows a screenshot of a network device's configuration page for the TR-069 service. The page is divided into two main sections: a left-hand navigation menu and a main configuration area.

Navigation Menu: A sidebar menu titled "Advanced" contains several options: Port Control & Statistics, Fax, Service, Filtering, Security, SNMP, and TR-069. The TR-069 option is highlighted with a blue dashed box. An arrow points from the text "Select TR-069 at Advanced" to this box.

TR-069 Configuration Section: The main area is titled "TR-069". It contains two sub-sections, each enclosed in a blue dashed box:

- Service:** A section with a radio button for "Enable" (which is selected) and a radio button for "Disable". An arrow points from the text "Service Enable/Disable" to this section.
- ACS:** A section for configuring the ACS server. It includes three input fields:
 - URL:** Contains the text "http://61.33.161.2:8080/ACS/main.action". A note to the right says "(ACS Server URL start with http://)".
 - Login:** Contains the text "acs" and is marked as "(optional)".
 - Password:** Contains a series of dots "....." and is marked as "(optional)".An arrow points from the text "ACS Server Configuration" to this section.

TR-069 Service Configuration (Smart Web)

Local HTTP Server for ACS Server Access

The screenshot displays two sections of a configuration interface, both enclosed in dashed blue boxes. The top section, titled 'HTTPD', contains three input fields: 'Port' with the value '8000' and a note '(Local HTTPD Port for ACS Access , default 8000)', 'Login' with the value 'cpe' and '(optional)', and 'Password' with a masked value '*****' and '(optional)'. The bottom section, titled 'Device Information', contains three input fields: 'Model Name' with the value 'AP1850', 'Serial Number' with the value 'AP-GW-12356423', and 'OUI' with the value 'ADDPAC-0002A4'.

| HTTPD | |
|----------|--|
| Port | <input type="text" value="8000"/> (Local HTTPD Port for ACS Access , default 8000) |
| Login | <input type="text" value="cpe"/> (optional) |
| Password | <input type="password" value="*****"/> (optional) |

| Device Information | |
|--------------------|---|
| Model Name | <input type="text" value="AP1850"/> |
| Serial Number | <input type="text" value="AP-GW-12356423"/> |
| OUI | <input type="text" value="ADDPAC-0002A4"/> |

Modify CPE Information (SN, OUI)

Supported Operation

| Message | Description |
|------------------------|---|
| GetParameterNames | Used to retrieve list of supported parameters from the device. |
| GetParameterValues | Retrieve current value of the parameters identified by keys. Could be used to retrieve one or multiple parameters at once. The version of the call with object as the key allows for retrieval of all of the parameters associated with that object |
| SetParameterValues | Sets the value of one or multiple parameters |
| GetParameterAttributes | Retrieves attributes of one or multiple parameters |
| SetParameterAttributes | Sets attributes of one or multiple parameters |
| Download | Orders CPE to download the file specified by URL and use it (depending on specified file type) as a Firmware Image, Configuration File, Ringer file, etc. |
| Upload | Orders CPE to upload specified file type to the specified destination. This could cover, for example, the current configuration file or log files. |
| AddObject | Adds new instance to an object |
| DeleteObject | Removes instance from an object |

Tested High-Level Operation

- Service Re-establishment
 - ✓ Device restart
 - ✓ ACS request
- Firmware / Config Download
 - apos.bin
 - apos.cfg
- Upload
 - Event
 - Configuration (apos.cfg)
- Reboot
- Factory Reset

Firmware / Configuration Download

- Download via HTTP
- Download Argument
 - FileType :
 - “1 Firmware Upgrade Image” → APOS Download
 - “3 Vendor Configuration File” → Configuration Download
 - URL
 - Specify the download file location
 - TargetFileName
 - Filename of APOS Firmware



Thank you!

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