

# **Akuvox**

## **TR-069 Feature On Akuvox IP Phone**

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# Content

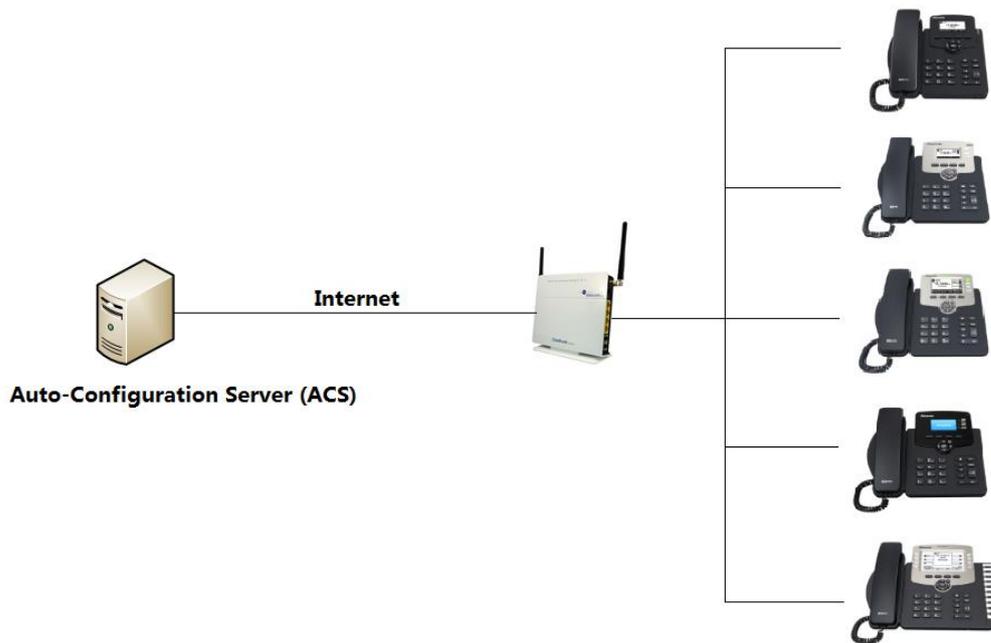
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# Feature Introduction

TR-069 (Technical Report 069) is the document number of the technical report, defined by the Broadband Forum, that specifies the “CPE WAN management protocol” or CWMP. It defines an application layer protocol for remote management of end-user devices. As a bidirectional SOAP/HTTP-based protocol, it provides the communication between Customer-Premises Equipment (CPE) and Auto-Configuration Servers (ACS). It includes both a safe auto configuration and the control of other CPE management functions within an integrated framework.

For IP phones, the administrators can manage all the devices on a common TR-069 Platform. IP phones can be easily and securely configured on the TR-069 platform to make mass deployment more efficiency.

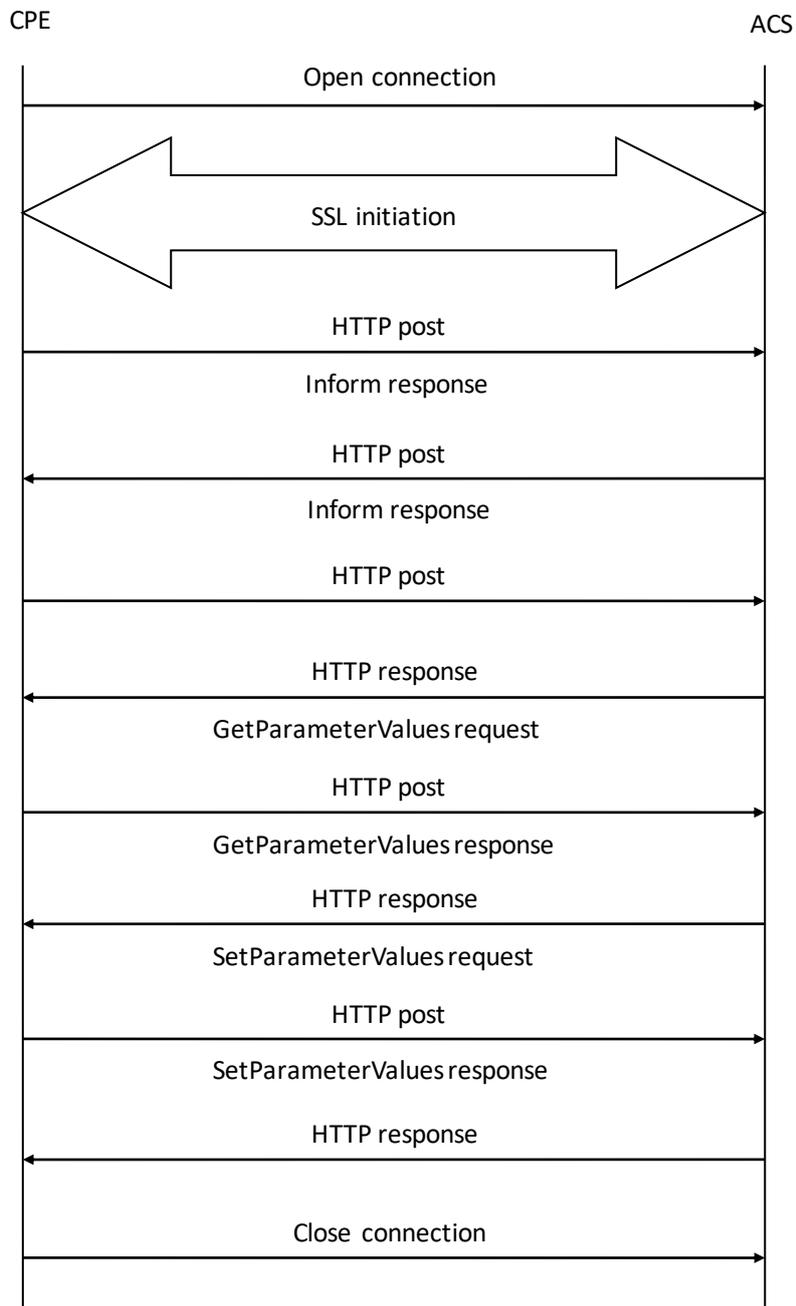


**TR-069 Architecture**

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# TR-069 Process

The following is an example to explain the session between CPE and ACS.



# Configuration of TR-069 Features on Akuvox Phones

To configure TR-069 via web user interface:

1. Click on Settings > TR069.
2. Select Enabled from the pull-down list of Enable TR069.
3. Enter the URL of the ACS in the ACS URL field.
4. Enter the user name and password authenticated by the ACS in the ACS Username and ACS Password fields.
5. Select the desired value from the pull-down list of Enable Periodic Inform.
6. Enter the desired time in the Periodic Inform Interval (seconds) field.
7. Enter the user name and password authenticated by the IP phone in the Connection Request Username and Connection Request Password fields.

The screenshot shows the TR069 configuration page. The 'Active' status is set to 'Enabled'. The 'ACS' section has 'Version' set to '1.0', 'URL' set to 'http://192.168.10.177', 'User Name' set to 'admin', and 'Password' masked with dots. The 'Periodic Inform' section has 'Active' set to 'Enabled' and 'Periodic Interval' set to '1800' seconds. The 'CPE' section has 'URL' empty, 'User Name' set to 'admin', and 'Password' masked with dots. On the right, a 'Warning' box contains a 'Field Description' and 'Submit Shortcut' buttons for 'Submit' and 'Cancel'.

8. Click Submit to accept the change.

**The description for TR069 web configuration:**

Setting name	Valid values	Default	Description
ACS URL	String	empty	URL of the TR-069 ACS. This is the URL the phone will send TR-069 messages to. Please contact your ACS vendor to find out about this URL.
ACS Username	String	empty	Username for HTTP authentication against the ACS
ACS Password	String	empty	Password for HTTP authentication against the ACS
Enable	Boolean	disable	Turn TR-069 Periodic Inform on and off.

Periodic Inform			
Enable TR069	Boolean	disable	Turn TR-069 management on and off.
CPE URL	String	default	URL of the Device. This is the URL the TR-069 ACS will manage.
CPE User name	String	empty	Username to authenticate incoming connection requests.
CPE Password	String	empty	Password to authenticate incoming connection requests.

**To configure TR-069 via AutoP**

Please refer to the Akuvox autoP manuals.

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# Appendix

## Appendix A: Current supported configuration

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Device.DeviceInfo.Manufacturer
Device.DeviceInfo.ManufacturerOUI
Device.DeviceInfo.ModelName
Device.DeviceInfo.SoftwareVersion
Device.DeviceInfo.ProductClass
Device.DeviceInfo.SerialNumber
Device.DeviceInfo.HardwareVersion
Device.DeviceInfo.UpTime
Device.DeviceInfo.ProvisioningCode
Device.ManagementServer.URL
Device.ManagementServer.Username
Device.ManagementServer.Password
Device.ManagementServer.PeriodicInformEnable
Device.ManagementServer.PeriodicInformInterval
Device.ManagementServer.PeriodicInformTime
Device.ManagementServer.ParameterKey
Device.ManagementServer.ConnectionRequestURL
Device.ManagementServer.ConnectionRequestUsername
Device.ManagementServer.ConnectionRequestPassword
Device.ManagementServer.STUNEnable
Device.ManagementServer.STUNServerAddress
Device.ManagementServer.STUNServerPort
Device.ManagementServer.STUNUsername
Device.ManagementServer.STUNPassword
Device.ManagementServer.STUNMaximumKeepAlivePeriod
Device.ManagementServer.STUNMinimumKeepAlivePeriod
Device.ManagementServer.NATDetected
Device.ManagementServer.UDPConnectionRequestAddress
Device.ManagementServer.UDPConnectionRequestAddressNotificationLimit
Device.ManagementServer.UpgradeManaged
Device.Time.NTPServer1
Device.Time.NTPServer2
Device.Time.LocalTimeZone
Device.UserInterface.CUSTOM_Preference.CUSTOM_LanguageType
Device.UserInterface.CUSTOM_Preference.CUSTOM_BackLight
Device.UserInterface.CUSTOM_Preference.CUSTOM_BacklightTime
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Device.UserInterface.CUSTOM\_Features.CUSTOM\_BusyForwardTarget  
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Device.UserInterface.CUSTOM\_Voice.CUSTOM\_JitterBufferMax  
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Device.UserInterface.CUSTOM\_RemotePhoneBook.CUSTOM\_PhoneBookOURL  
Device.UserInterface.CUSTOM\_RemotePhoneBook.CUSTOM\_PhoneBookOName

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Device.UserInterface.CUSTOM\_RemotePhoneBook.CUSTOM\_PhoneBook1URL  
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Device.UserInterface.CUSTOM\_RemotePhoneBook.CUSTOM\_PhoneBook2Name  
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Device.LAN.DefaultGateway  
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Device.LAN.DNSServers2  
Device.LAN.MACAddress  
Device.LAN.MACAddressOverride  
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Device.LAN.VoiceService.1.Capabilities.SIP.Extensions  
Device.LAN.VoiceService.1.Capabilities.SIP.Transports



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Device.LAN.VoiceService.1.Capabilities.SIP.Codecs.{9}.BitRate
Device.LAN.VoiceService.1.Capabilities.SIP.Codecs.{9}.PacketizationPeriod
Device.LAN.VoiceService.1.Capabilities.SIP.Codecs.{9}.SilenceSuppression
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Device.LAN.VoiceService.1.VoiceProfile.{i}.Line.1.Codec.List.{i}.Enable

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## ***Appendix B: Common Terms for TR-069***

**XML** – The Extensible Markup Language.

**SOAP** – The “Simple Object Access Protocol”; an XML based specification for performing application function calls between web app components.

**CPE** – Customer premises equipment, or the device that is being managed; may include Integrated Gateways (IGD), Set-top-boxes (STB), Network Attached Storage (NAS), etc.

**ACS** – Auto-Configuration Server, performs the management of the CPE. Generally, operated by an ISP and plugs into their Operational or Billing Support Systems (OSS/BSS).

**Data Model** – A set of objects defined for the management of a particular kind of CPE, usually defined in a companion Technical Report by the Broadband Forum.