

TR069 User Manual

1 Background

This document describes how to configure and use TR069 functions. By using TR069 features Friendly server platform to achieve access to IP telephony configuration parameters, set the parameters and firmware upgrades and other operations.

Tr069 function is used for ordinary users from the network side in the network gateways, routers and other equipment for remote centralized management. The main equipment includes two types of logic: the user device and ACS. In the home network environment, you need to configure and manage the device from the network side, and carrier services are generally directly related equipment. And all the user-related device configuration, diagnostics, upgrades etc. by a unified management server ACS to complete.

2 Device Configuration instructions

1. Login the DUT device configuration interface, there is TR069 option under the Administration menu item, then click to enter.

Status

Network

SIP Account

Phone

Administration

Management

Firmware Upgrade

Certification

Provision

SNMP

TR069

Diagnosis

Operating Mode

TR069 Configuration

TR069 Enable

Enable

CWMP

Enable

ACS URL

http://testacs.friendly-tech.com:8080/f

User Name

flyingvoice

Password

Periodic Inform Enable

Enable

Periodic Inform Interval

30

Connect Request

User Name

ftacs

Password

Save

Cancel

Reboot

Help

TR069 Configuration:

Allow the device to be managed by the ACS server which is set in the ACS URL.

Relevant parameters as follows:

ACS parameters are as follows:

Parameter Name	Description
TR069 Enable	enabled TR069
CWMP	enabled TR069 (Old equipment parameters, The new version does not have this parameter)
ACS URL	URL TR069 server (Parameters provided by the server) http://testacs.friendly-tech.com:8080/ftacs-basic/ACS
User Name	TR069 user name for server connections (Parameters provided by the server) Our test account: flyingvoice
Password	Password for TR069 server connections (Parameters provided by the server) Our test password: flyingvoice

Periodic Inform Enable	Enable device regularly informed server mechanism (Maintain synchronization parameters)
Periodic Inform Interval	Interval for device periodically sends information to the server

Connect Request parameters are as follows:

Parameter Name	Description
Password	Password for TR069 server is connected to the device (Local Settings) eg:ftacs
User Name	the user name of TR069 server which connected to the device (Local Settings) eg:ftacs

2. After filling confirmation, Reboot the device.

3 Friendly Server Operation

3.1 Login Friendly Server

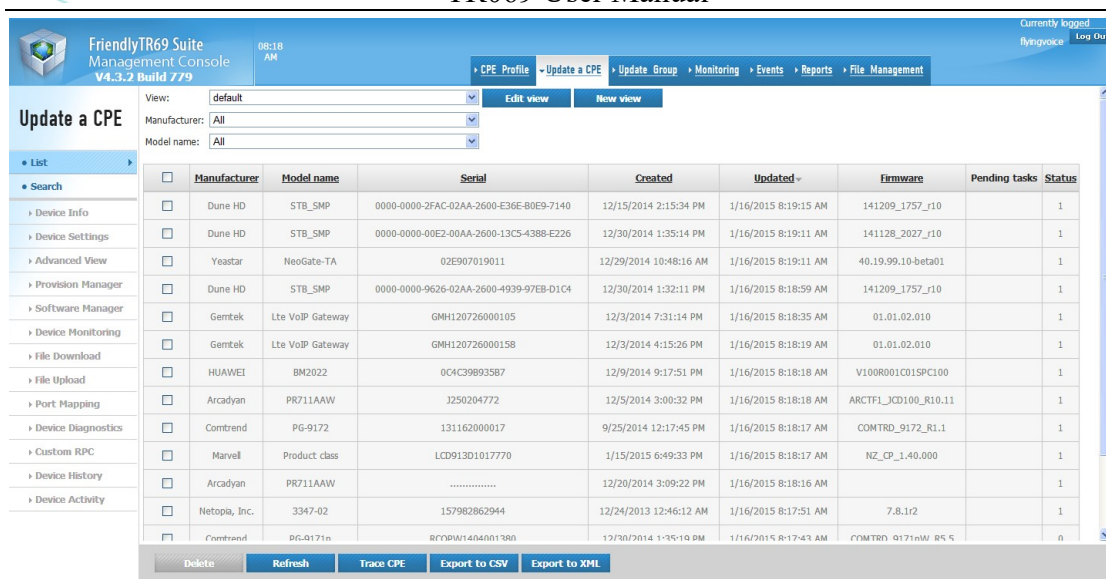
Enter the friendly server URL in the browser:

<http://testui.friendly-tech.com/CPEAdmin/>

Account and password are provided by the server:

Account: flyingvoice password: flying11

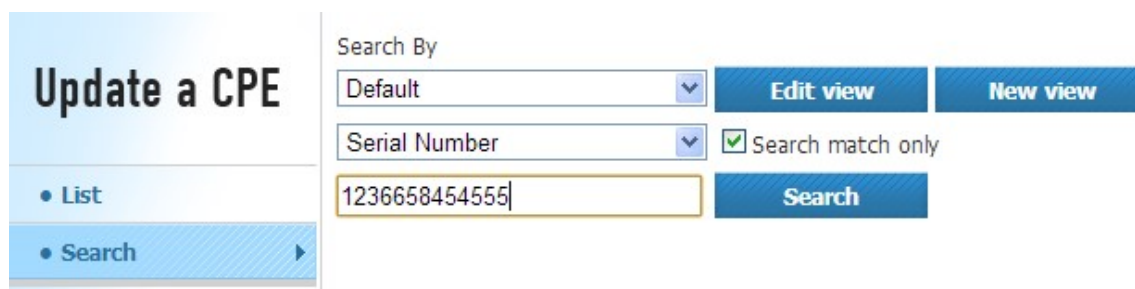
Enter TR069 server interface, As shown in Figure:



	Manufacturer	Model name	Serial	Created	Updated	Firmware	Pending tasks	Status
☐	Dune HD	STB_SMP	0000-0000-2FAC-02AA-2600-E36E-80E9-7140	12/15/2014 2:15:34 PM	1/16/2015 8:19:15 AM	141209_1757_r10		1
☐	Dune HD	STB_SMP	0000-0000-00E2-00AA-2600-13C5-4388-E226	12/30/2014 1:35:14 PM	1/16/2015 8:19:11 AM	141128_2027_r10		1
☐	Yeastar	NeoGate-TA	02E907019011	12/29/2014 10:48:16 AM	1/16/2015 8:19:11 AM	40.19.99.10-beta01		1
☐	Dune HD	STB_SMP	0000-0000-9626-02AA-2600-4939-97EB-D1C4	12/30/2014 1:32:11 PM	1/16/2015 8:18:59 AM	141209_1757_r10		1
☐	Gemtek	Lte VoIP Gateway	GMH120726000105	12/3/2014 7:31:14 PM	1/16/2015 8:18:35 AM	01.01.02.010		1
☐	Gemtek	Lte VoIP Gateway	GMH120726000158	12/3/2014 4:15:26 PM	1/16/2015 8:18:19 AM	01.01.02.010		1
☐	HUAWEI	BM2022	0C4C39893587	12/9/2014 9:17:51 PM	1/16/2015 8:18:18 AM	V100R001C01SPC100		1
☐	Arcadyan	PR711AAW	J250204772	12/5/2014 3:00:32 PM	1/16/2015 8:18:18 AM	ARCTFL_JCD100_R10.11		1
☐	Comtrend	PG-9172	131162000017	9/25/2014 12:17:45 PM	1/16/2015 8:18:17 AM	COMTRD_9172_R1.1		1
☐	Marvell	Product class	LCD913D1017770	1/15/2015 6:49:33 PM	1/16/2015 8:18:17 AM	NZ_CP_1.40.000		1
☐	Arcadyan	PR711AAW		12/20/2014 3:09:22 PM	1/16/2015 8:18:16 AM			1
☐	Netopia, Inc.	3347-02	157982862944	12/24/2013 12:46:12 AM	1/16/2015 8:17:51 AM	7.8.1r2		1
☐	Comtrend	PG-9171n	RC99PW14N4001700	12/30/2014 1:35:19 PM	1/16/2015 8:17:43 AM	COMTRD_9171nW_R5.5		0

3.2 Link Device

1. You can click on the Search menu. Then select the Serial Number, and fill in the equipment S/N, then click Search.



2. Click on the Device Info menu item ,and you can see basic information about the test equipment. As shown in Figure: (Button on the bottom of the device can perform basic operations, such as reboot.)



Device Info

Manufacturer: **FLYINGVOICE**
Manufacturer OUI: **0021F2**
Model name: **IP542N**
Description: **IP542N**
Serial number: **1236658454555**
Hardware version: **V1.1**
Firmware version: **V3.10**
Uptime (seconds): **120**
Remote URL: **http://222.130.136.100**
Registration date: **1/26/2015 11:33:01 AM**
Last connection: **1/27/2015 11:51:44 AM**
List of methods: [List](#)
Network map: [Show](#)



Online

Recheck Status



Quick Fix

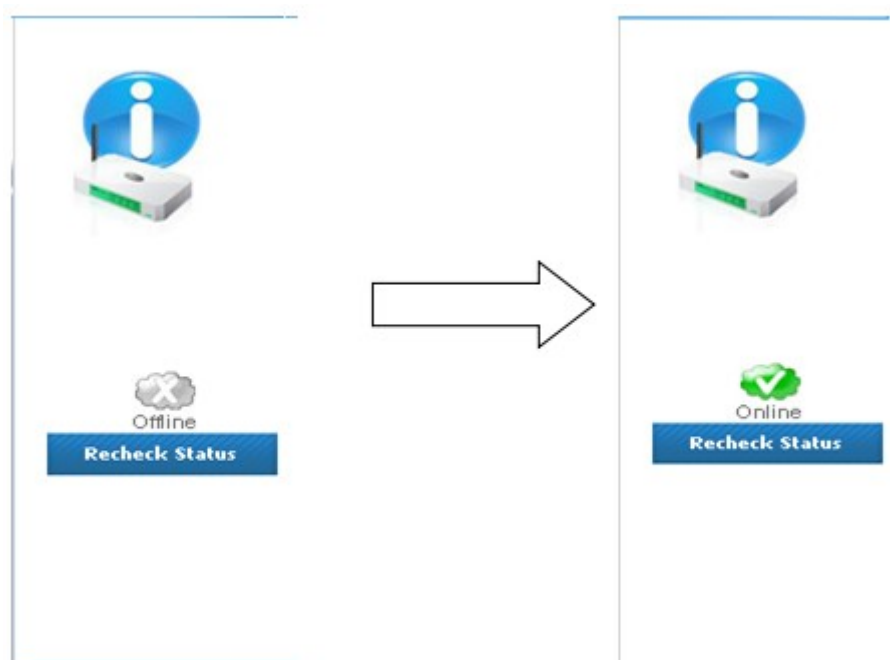
Select case

Select case



Go

3. If the device is properly connected server, offline will be online. That is a successful connection:



If there is no change or simply can not find the device in the list, check to see if the device WEB page filled in correctly, or the device software is a complete program TR069.

3.3 Get Device Info

Click on the Advanced View menu button, you can do some node. As shown in Figure:

Device

DeviceInfo

GatewayInfo

LAN

ManagementServer

Services

VoiceService

VoiceService.1

Capabilities

VoiceProfile

VoiceProfile.1

Line

Line.1

Codec

Session

SIP

Stats

RTP

SIP

VoiceProfile.2

VoiceProfile.3

VoiceProfile.4

Time

UserInterface

X_0021F2_Syslog

Device.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP

Parameter name	Parameter value	Notification	Access list	Polling
AuthPassword	*****	Off	ACS only	☐
AuthUserName	555	Off	ACS only	☐
URI		Off	ACS only	☐

Edit

Get Current

Edit Tree

Save Parameters

1. Get AuthUserName of line1

Click on the top menu options and parameter values can be obtained depending on the options in the form. For example, if you want to get AuthUserName of line1, VOIP need to select the menu, and click Options VoiceProfile.1 next sip, you can get the value in the right AuthUserName.

Information	Management	LAN	VoIP
Services			
VoiceService			
VoiceService.1			
VoiceProfile			
VoiceProfile.1			
SIP			
RTP			
Line			
Line.1			
SIP			
Codec			

Device.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP	
Parameter name	Parameter value
AuthUserName	555
AuthPassword	*****
URI	

3.4 Set Device Info

1. Set ProxyServer

The lower end of the button "Edit" can set new values for writable nodes. After clicking edit, fill in the new value directly in the box Parameter value field after the node name. For example, if set ProxyServer of Line1, the current value is followed:

Device	Device.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP
DeviceInfo	
GatewayInfo	
LAN	
Stats	
ManagementServer	
Services	
VoiceService	
VoiceService.1	
Capabilities	
VoiceProfile	
VoiceProfile.1	
Line	
Line.1	
Codec	
Session	
SIP	
Stats	
RTP	
SIP	
VoiceProfile.2	
VoiceProfile.3	
VoiceProfile.4	
Time	
UserInterface	
X_0021F2_Syslog	

Parameter name	Parameter value
Organization	
OutboundProxy	
OutboundProxyPort	5060
ProxyServer	192.168.10.1
ProxyServerPort	5060
ProxyServerTransport	UDP
RegisterExpires	3600
RegistrarServer	192.168.10.1

Then click edit ,and fill in the new ProxyServer.

OutboundProxyPort	5060
ProxyServer	192.168.10.141
ProxyServerPort	5060

Click to send update after modification.

- Device
 - DeviceInfo
 - GatewayInfo
 - LAN
 - Stats
 - ManagementServer
 - Services
 - VoiceService
 - VoiceService.1
 - Capabilities
 - VoiceProfile
 - VoiceProfile.1
 - Line
 - Line.1
 - Codec
 - Session
 - SIP
 - Stats
 - RTP
 - SIP
 - VoiceProfile.2
 - VoiceProfile.3
 - VoiceProfile.4
 - Time
 - UserInterface
 - X_0021F2_Syslog

Device.Services.VoiceServ

| Parameter name | Parameter value |
|----------------------|-----------------|
| Organization | |
| OutboundProxy | |
| OutboundProxyPort | 5060 |
| ProxyServer | 192.168.10.141 |
| ProxyServerPort | 5060 |
| ProxyServerTransport | UDP |
| RegisterExpires | 3600 |
| RegistrarServer | 192.168.10.1 |

3.5 Firmware Upgrade

Because friendly platform is not open to upload firmware or configure file permissions, and therefore can not perform the firmware upgrade operation, the equipment used below FreeAcs tr069 operations perform the upgrade operation.

1 Equipment connection configure

Status
Network
SIP Account
Phone
Administration

Management
Firmware Upgrade
Certification
Provision
SNMP
TR069
Diagnosis
Operating Mode

Please REBOOT to make the changes effective!

TR069 Configuration

ACS

TR069 Enable:
CWMP:
ACS URL:
User Name:
Password:
Periodic Inform Enable:
Periodic Inform Interval:

Connect Request

User Name:
Password:

Save
Cancel
Reboot

Help

TR069 Configuration:
Allow the device to be managed by the ACS server which is set in the ACS URL.

If the connection is successful, you will see the following pages.

FreeACS Web
admin@182.92.234.149
Permissions | Monitor | About | Help | Logout

Context navigation
IP542N
Default
user_ip542n
Select action:

Unit dashboard

Basic information

Unit Type: IP542N
Profile: Default
Serial Number: user_ip542n
Software Version: V3.10(201501270031)
Public IP address: 114.253.252.235
Behind Gateway/NAT: No
Supports TR-111: **No**

Go to Unit configuration

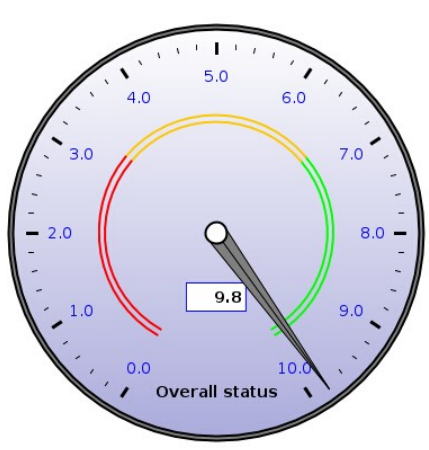
Current status

First Management: 2015-01-27 18:13:58
Last Management: **2015-01-27 18:19:59**
Next Management: 2015-01-28 16:30:06

History from Jan 26 2015 18:21 to Jan 27 2015 19:21

Syslog status: **Errors have been logged (-0.2)**

Go to Unit history



Overall status: 9.8

2 Upload new firmware

Choose File & Script enter the appropriate documentation, select the corresponding firmware, click the upload file upload new firmware.

FreeACS Web admin@182.92.234.149 Permissions | Monitor | About | Help | Logout

Context navigation: IP542N context search Select action:

File configuration:

Type: SOFTWARE Name: IP542N Description: TEST Version: V3.10(201501250034) Date: 2015-01-27 Target Name: 123

Content:

File: 选择文件 IP542N_16M_...34_Test.bin Upload file

Uploaded firmware information will appear at the bottom.

Found 1 file(s)

File type: All Delete selected files

| Name | Version | Type | Date | Owner | Export | Size | Delete |
|--------|---------------------|----------|------------|-------|--------|---------|--------------------------|
| IP542N | V3.10(201501250034) | SOFTWARE | 2015-01-27 | | Binary | 6160480 | ☐ |

3 Firmware Upgrade

Easy Provision option to select the corresponding firmware version, and then click upgrade to upgrade.

FreeACS Web admin@182.92.234.149 Permissions | Monitor | About | Help | Logout

Context navigation: IP542N Default user_ip542n Select action:

Unit configuration:

Profile: Default Move to profile

Software: V3.10(201501250034) Upgrade

Unit Id: V3.10(201501270031) Delete

Device GUI: Not defined

Provisioning:

Provision Read all Reboot Reset

Freq/Spread: 7 / 20 Change

Interval: 86400s +/- 17280s

Last: 2015-01-27 19:38:48 (53 seconds ago)

Next: 2015-01-29 00:12:50 (in 29 hours)

Parameters:

Name Filter

Flags Profile value

All

4 Login web inspection equipment

If the upgrade is successful, you can check the firmware version number EasyProvision.



Here you can see the firmware has been updated to the required firmware version.

3.6 Tr069 tree node

All of our node as follow:

```
{ "InternetGatewayDevice", },
{ "DeviceSummary", },
{ "LanDeviceNumberOfEntries", },
{ "WanDeviceNumberOfEntries", },
{ "DeviceInfo", },
{ "Manufacturer", },
{ "ManufacturerOUI", },
{ "ModelName", },
{ "Description", },
{ "ProductClass", },
```

```
{ "SerialNumber", },  
  
{ "HardwareVersion", },  
  
{ "SoftwareVersion", },  
  
{ "SpecVersion", },  
  
{ "ProvisioningCode", },  
  
{ "UpTime", },  
  
{ "DeviceLog", },  
  
{ "", },  
  
{ "ManagementServer", },  
  
    { "URL", },  
  
    { "Username", },  
  
    { "Password", },  
  
    { "PeriodicInformEnable", },  
  
    { "PeriodicInformInterval", },  
  
    { "PeriodicInformTime", },  
  
    { "ParameterKey", },  
  
    { "ConnectionRequestURL", },  
  
    { "ConnectionRequestUsername", },  
  
    { "ConnectionRequestPassword", },  
  
    { "UpgradesManaged", },  
  
    { "UDPConnectionRequestAddress", },
```

```
{ "UDPConnectionRequestAddressNotificationLimit", },  
  
{ "STUNEnable", },  
  
{ "STUNServerAddress", },  
  
{ "STUNServerPort", },  
  
{ "STUNUsername", },  
  
{ "STUNPassword", },  
  
{ "STUNMaximumKeepAlivePeriod", },  
  
{ "STUNMinimumKeepAlivePeriod", },  
  
{ "NATDetected", },  
  
{ "", },
```

```
{ "UPnP", },  
  
{ "Device", },  
  
{ "UPnPIGD", },  
  
{ "", },  
  
{ "", },
```

```
{ "IPPingDiagnostics", },  
  
{ "DiagnosticsState", },  
  
{ "Interface", },
```

```
{ "Host", },  
  
{ "NumberOfRepetitions", },  
  
{ "Timeout", },  
  
{ "DataBlockSize", },  
  
{ "DSCP", },  
  
{ "SuccessCount", },  
  
{ "FailureCount", },  
  
{ "AverageResponseTime", },  
  
{ "MinimumResponseTime", },  
  
{ "MaximumResponseTime", },  
  
{ "", },
```

```
{ "DownloadDiagnostics", },  
  
{ "DiagnosticsState", },  
  
{ "Interface", },  
  
{ "DownloadURL", },  
  
{ "DSCP", },  
  
{ "EthernetPriority", },  
  
{ "ROMTime", },  
  
{ "BOMTime", },  
  
{ "EOMTime", },
```

```
    {"TestBytesReceived", },  
  
    //  {"TotalBytesReceived", },  
  
    {"TCPOpenRequestTime", },  
  
    {"TCPOpenResponseTime", },  
  
    {"", },
```

```
    {"UploadDiagnostics", },  
  
    {"DiagnosticsState", },  
  
    {"Interface", },  
  
    {"UploadURL", },  
  
    {"DSCP", },  
  
    {"EthernetPriority", },  
  
    {"TestFileLength", },  
  
    {"ROMTime", },  
  
    {"BOMTime", },  
  
    {"EOMTime", },  
  
    //  {"TotalBytesSent", },  
  
    {"TCPOpenRequestTime", },  
  
    {"TCPOpenResponseTime", },  
  
    {"", },
```

```
{ "Time", },
```

```
    { "NTPServer1", },
```

```
    { "NTPServer2", },
```

```
    { "", },
```

```
{ "UserInterface", },
```

```
    { "User", },
```

```
        { "1", },
```

```
            { "Enable", },
```

```
            { "RemoteAccessCapable", },
```

```
            { "X_WebPort", },
```

```
            { "X_WebIdleTimeout", },
```

```
            { "X_WebAllowRemoteIP", },
```

```
            { "Username", },
```

```
            { "Password", },
```

```
        { "", },
```

```
    { "", },
```

```
{ "", },
```



```
{ "Layer3Forwarding", },

{ "DefaultConnectionService", },

{ "ForwardNumberOfEntries", },

{ "Forwarding", },

{ "1", },

{ "Enable", },

{ "Status", },

{ "Type", },

{ "DestIPAddress", },

{ "DestSubnetMask", },

{ "SourceIPAddress", },

{ "SourceSubnetMask", },

{ "GatewayIPAddress", },

{ "Interface", },

{ "ForwardingMetric", },

{ "", },

{ "", },

{ "", },

{ "LANConfigSecurity", },

{ "ConfigPassword", },

{ "", },
```

```
{ "LANDevice", },

{ "1", },

{ "LANEthernetInterfaceNumberOfEntries", },

{ "LANUSBInterfaceNumberOfEntries", },

{ "LANWLANConfigurationNumberOfEntries", },

{ "LANHostConfigManagement", },

{ "DHCPServerConfigurable", },

{ "DHCPServerEnable", },

{ "DHCPRelay", },

{ "MinAddress", },

{ "MaxAddress", },

{ "ReservedAddresses", },

{ "SubnetMask", },

{ "DNSServers", },

{ "DomainName", },

{ "IPRouters", },

{ "DHCPLeaseTime", },

{ "IPInterfaceNumberOfEntries", },

{ "IPInterface", },

{ "1", },

{ "Enable", },
```

```

    {"IPInterfaceIPAddress", },

    {"IPInterfaceSubnetMask", },

    {"IPInterfaceAddressingType", },

    {"", },

    {"", },

    {"", },

    {"LANEthernetInterfaceConfig", },

    {"1", },

    {"Enable", },

    {"Status", },

    {"MACAddress", },

    {"MACAddressControlEnabled", },

    {"MaxBitRate", },

    {"DuplexMode", },

    {"", },

    {"", },

    {"WLANConfiguration", },

    {"1", },

    {"Enable", },

    {"Status", },

    {"BSSID", },

    {"MaxBitRate", },

```

```
{"Channel", },  
  
{"AutoChannelEnable", },  
  
{"SSID", },  
  
{"BeaconType", },  
  
{"MACAddressControlEnabled", },  
  
{"Standard", },  
  
{"WEPKeyIndex", },  
  
{"KeyPassphrase", },  
  
{"WEPEncryptionLevel", },  
  
{"BasicEncryptionModes", },  
  
{"BasicAuthenticationMode", },  
  
{"WPAEncryptionModes", },  
  
{"WPAAuthenticationMode", },  
  
{"IEEE11iEncryptionModes", },  
  
{"IEEE11iAuthenticationMode", },  
  
{"PossibleChannels", },  
  
{"ChannelsInUse", },  
  
{"BasicDataTransmitRates", },  
  
{"OperationalDataTransmitRates", },  
  
{"PossibleDataTransmitRates", },  
  
{"RadioEnabled", },  
  
{"AutoRateFallBackEnabled", },
```

["TotalBytesSent",],

["TotalBytesReceived",],

["TotalPacketsSent",],

["TotalPacketsReceived",],

["TotalAssociations",],

["AssociatedDevice",],

["1",],

["AssociatedDeviceMACAddress",],

["AssociatedDeviceIPAddress",],

["AssociatedDeviceAuthenticationState",],

["X_AssociatedDeviceSignalStrength",],

["",],

["",],

["WEPKey",],

["1",],

["WEPKey",],

["",],

["",],

["",],

["",],

```
    {"Hosts", },

    {"HostNumberOfEntries", },

    {"Host", },

    {"1", },

    {"IPAddress", },

    {"AddressSource", },

    {"LeaseTimeRemaining", },

    {"MACAddress", },

    {"HostName", },

    {"InterfaceType", },

    {"Active", },

    {"", },

    {"", },

    {"", },

    {"", },

    {"", },

    {"WANDevice", },

    {"1", },

    {"WANConnectionNumberOfEntries", },

    {"WANCommonInterfaceConfig", },
```

```
{ "EnabledForInternet", },

{ "WANAccessType", },

{ "Layer1UpstreamMaxBitRate", },

{ "Layer1DownstreamMaxBitRate", },

{ "PhysicalLinkStatus", },

{ "TotalBytesSent", },

{ "TotalBytesReceived", },

{ "TotalPacketsSent", },

{ "TotalPacketsReceived", },

{ "", },

{ "WANConnectionDevice", },

{ "1", },

{ "WANIPConnectionNumberOfEntries", },

{ "WANPPPPConnectionNumberOfEntries", },

{ "WANIPConnection", },

{ "1", },

{ "Enable", },

{ "ConnectionStatus", },

{ "PossibleConnectionTypes", },

{ "ConnectionType", },

{ "Name", },

{ "Uptime", },
```

```
{ "LastConnectionError", },  
  
{ "RSIPAvailable", },  
  
{ "NATEnabled", },  
  
{ "AddressingType", },  
  
{ "ExternalIPAddress", },  
  
{ "SubnetMask", },  
  
{ "DefaultGateway", },  
  
{ "DNSEnabled", },  
  
{ "DNSOverrideAllowed", },  
  
{ "DNSServers", },  
  
{ "MACAddress", },  
  
{ "ConnectionTrigger", },  
  
{ "RouteProtocolRx", },  
  
{ "PortMappingNumberOfEntries", },  
  
{ "PortMapping", },  
  
    { "1", },  
  
        { "PortMappingEnabled", },  
  
            { "PortMappingLeaseDuration", },  
  
                { "RemoteHost", },  
  
                    { "ExternalPort", },  
  
                        { "InternalPort", },  
  
                            { "PortMappingProtocol", },
```



```
{ "InternalClient", },

{ "PortMappingDescription", },

{ "", },

{ "", },

{ "Stats", },

{ "EthernetBytesSent", },

{ "EthernetBytesReceived", },

{ "EthernetPacketsSent", },

{ "EthernetPacketsReceived", },

{ "", },

{ "", },

{ "", },

{ "WANPPPPConnection", },

{ "1", },

{ "Enable", },

{ "ConnectionStatus", },

{ "PossibleConnectionTypes", },

{ "ConnectionType", },

{ "Name", },

{ "Uptime", },

{ "LastConnectionError", },

{ "RSIPAvailable", },
```

```
{ "NATEnabled", },

{ "Username", },

{ "Password", },

{ "ExternalIPAddress", },

{ "DNSEnabled", },

{ "DNSOverrideAllowed", },

{ "DNSServers", },

{ "MACAddress", },

{ "TransportType", },

{ "PPPoEACName", },

{ "PPPoEServiceName", },

{ "ConnectionTrigger", },

{ "RouteProtocolRx", },

{ "PortMappingNumberOfEntries", },

{ "PortMapping", },

    { "1", },

        { "PortMappingEnabled", },

        { "PortMappingLeaseDuration", },

        { "RemoteHost", },

        { "ExternalPort", },

        { "InternalPort", },

        { "PortMappingProtocol", },
```

```
{ "InternalClient", },
```

```
{ "PortMappingDescription", },
```

```
{ "", },
```

```
{ "", },
```

```
{ "Stats", },
```

```
{ "EthernetBytesSent", },
```

```
{ "EthernetBytesReceived", },
```

```
{ "EthernetPacketsSent", },
```

```
{ "EthernetPacketsReceived", },
```

```
{ "", },
```

```
{ "", },
```

```
{ "", },
```

```
{ "", },
```

```
{ "", },
```

```
{ "", },
```

```
{ "", },
```

```
/*TR104 for VOIP setting*/
```

```
{ "Services", },
```

```
{ "VoiceService", },
```

```
{ "1", },
```

```
{ "VoiceProfileNumberOfEntries" , },

{ "Capabilities" , },

    { "MaxProfileCount" , },

    { "MaxLineCount" , },

    { "MaxSessionsPerLine" , },

    { "MaxSessionCount" , },

    { "SignalingProtocols" , },

    { "Regions" , },

    { "RTCP" , },

    { "SRTP" , },

    { "RTPRedundancy" , },

    { "DSCPCoupled" , },

    { "EthernetTaggingCoupled" , },

    { "PSTNSoftSwitchOver" , },

    { "FaxT38" , },

    { "FaxPassThrough" , },

    { "ModemPassThrough" , },

    { "ToneGeneration" , },

    { "RingGeneration" , },

    { "NumberingPlan" , },

    { "ButtonMap" , },

    { "VoicePortTests" , },
```

```
{ "SIP", },

    { "Role", },

    { "Extensions", },

    { "Transports", },

    { "URISchemes", },

    { "EventSubscription", },

    { "ResponseMap", },

{ },

{ "Codecs", },

    { "1", },

        { "EntryID", },

        { "Codec", },

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