

Revision History

Date	Revision	Description	Author(s)
11/09/07	1.0	First draft	Alice/Ye
05/01/08	1.1	Added API Language/SetGUILanguage	Ye
06/02/08	1.2	<ul style="list-style-type: none"> - Move SetGUILanguage under “DeviceConfig” instead of a new service type “Language” - Added new API for 5GHz: Set5GSSID and Set5GChannel - Defined 5GHz setting with 4 APIs: SetWLANNoSecurity/SetWLANWEPByKeys/SetWLANWEPByPassphrase/SetWLANWPAWPAKByPassphrase - Added a new value “270Mbps_5G” for those 4 functions for dual-band routers 	Ye
06/24/08	1.3	<ul style="list-style-type: none"> - Added country code list for SetGUILanguage; - Updated Set5GSSID() to use New5GSSID as parameter instead of NewSSID; - Updated Set5GChannel() to use New5GChannel as parameter instead of NewChannel - Added new API Get5GSSID(New5GSSID) - Added new API Get5GChannelInfo(New5GChannel) - Added new API Get5GInfo(New5GSSID, New5GChannel) 	Ye Zhang

11/13/08	1.4	Added 3 SOAP APIs: ParentalControl::EnableParentalControl() ParentalControl::SetDNsmasqDeviceID() ParentalControl::GetDNsmasqDeviceID()	Ye Zhang
11/17/08	1.41	Added 3 more SOAP APIs: ParentalControl::GetAllMACAddresses() ParentalControl::DeleteMACAddress() ParentalControl::GetEnableStatus()	Ye Zhang
3/15/09	1.5	Add PPPoA, IPoA Add "SetDSLConfig" Add "GetPPPOConnStatus" Add "GetModemInfo" Add "GetDNSLookupStatus" Add "GetInfo" in LANConfigSecurity Add "SetConfigLANIP" in LANConfigSecurity Add "SetConfigDHCPEnabled" in LANConfigSecurity Add "SetConfigLAN" in LANConfigSecurity Add "SetSSIDBroadcast" in WLANConfiguration Add Germany as GR in Country mapping table Add Others as OT in the Country mapping table	Jim Montgomery, for DSL Gateways

11/05/09	1.51	Added ParentalControl::Authenticate() API	Ye Zhang
12/04/2009	1.6	Add DSL API: DeviceConfig::AddStaticRoute() 、 DeviceConfig::DelStaticRoute() 、 DeviceConfig::GetStaticRouteTbl() 、 WANIPConnection:: SetConnection2Type() API Add argument NewNATEnable in WANIPConnection:: SetConnectionType() API	Ye Zhang
02/09/2010	1.7	Add WAN3GInterfaceConfig for 3G related project	Ye Zhang
<u>07/23/2010</u>	<u>1.8</u>	<u>Add WLANConfiguration::PressWPSPBC() API</u> <u>Add WLANConfiguration::GetGuestAccessEnabled() API</u> Add WLANConfiguration::GetGuestAccessNetworkInfo() API <u>Add WLANConfiguration::SetGuestAccessNetwork() API</u> Add DeviceConfig::EnableTrafficMeter() API Add DeviceConfig::SetTrafficMeterOption() API Add DeviceConfig::GetTrafficMeterStatistics() API Add DeviceConfig::CheckNewFirmware() API Add DeviceConfig::UpdateNewFirmware() API	Ye Zhang

<u>08/18/2010</u>	<u>1.9</u>	<u>- Add WLANConfiguration:: SetGuestAccessEnabled() API</u> <u>- Updated WLANConfiguration::GetGuestAccessEnabled() details</u> <u>- DeviceInfo:: GetAttachDevice() adds a type (“wired” or “wireless”) for each client device.</u> <u>- Router needs to add “SOAPVersion=1.9” to the currentsetting.htm page for SOAP API version 1.9 or later, the number matches the SOAP API version implemented.</u>	<u>Ye Zhang</u>
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DeviceConfig

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
ConfigurationStarted	NewSessionID	String, string length <= 35	ResponseCode	0 (No error) 1 (Reboot required) 401 (Invalid action) 402 (Invalid arguments) 501 (Action failed) 605 (String argument too long) 702 (Value specified is invalid) 728 (Invalid channel)

ConfigurationFinished	NewStatus	ChangesApplied RebootRequired	ResponseCode	
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SetEnable	NewEnable	1 (enable) 0 (disable) Note: This is blank state enable/disable command!	ResponseCode	
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Function Name	Input	Format/Value	Response	
SetGUILanguage	GUILanguage	String, <=64, 3-character country code, see blow	Parameter	Format/Value
		CHS=Simplified Chinese CHT=Traditional Chinese CSY=Czech DAN=Danish DEU=German ELL=Greek ENU=English ESP=Spanish FIN=Finnish FRA=French HUN=Hungarian ITA=Italian JPN=Japanese KOR=Korean	ResponseCode	0 (No error) 402 (Invalid arguments) 501 (Action failed)

		NLD=Dutch NOR=Norwegian PLK=Polish PTB=Portuguese ROM=Romanian RUS=Russian SKY=Slovak SLV=Slovenian SVE=Swedish		
		This API should set both the wireless region, and the String Table multi-language selection if enabled.		
SetConfiguration	NewConfigFile	File length <= 4M This binary needs to base64 encode before envelop into XML!! This file would replace NVRAM raw data, be careful!!	ResponseCode	

Loaddefault	NewLoaddefault	1 (let this value as 1)	ResponseCode	
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SetTimeZone	NewTimeZone	-12 ~ +12	ResponseCode	
	NewDaylightSaving	1 (enable) 0 (disable) Note: This is daylight saving enable/disable command!		

SetFirmware	NewFirmware	Firmware raw data (binary). This size is limited up to 4M This binary needs to base64 encode before envelop into XML!! Note: Please remember to reboot right now when this function finished!	ResponseCode	
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SetBlockSiteEnable	NewBlockSiteEnable	1 (enable) 0 (disable) Note: This is block site enable/disable command!	ResponseCode	
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SetBlockSiteName	NewBlockSiteName	num@name_list1 @name_list2 num is count of names, and use “@” to split each name. Note: Just support 10 names , and the max length of name is 100	ResponseCode	
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SetBlockServices	TBD	TBD	TBD	TBD
Need discussion!! This API is complex!!				

AddStaticRoute	NewRouteName	String		
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	NewRoutePrivate	bool, 1 (enable),0 (disable)		
	NewRouteActive	bool, 1 (enable),0 (disable)		
	NewRouteDestinationIP	IP		
	NewRouteIPSubnetMask	Netmask		
	NewRouteGatewayIP	IP		
	NewRouteMetric	Integer 2-15		
	NewStaticRouteAdd	1:add		

DelStaticRoute	NewStaticRouteIndex	Integer, from 0		
	NewStaticRouteAdd	0:del		

GetStaticRouteTbl	NewStaticRouteTbl	Destination IP:Subnetmask:GatewayIP:Metric:Active:Private:RouteName		
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GetTimeZoneInfo	NewTimeZone		NewTimeZone	-12 ~ +12
	NewDaylightSaving		NewDaylightSaving	1 (enable) 0 (disable)
			ResponseCode	

GetInfo	BlankState		BlankState	1 (enable) 0 (disable)
	NewBlockSiteEnable		NewBlockSiteEnable	1 (enable) 0 (disable)
	NewBlockSiteName		NewBlockSiteName	Just support 10 names ,

				and the max length of name is 100
	NewTimeZone		NewTimeZone	-12 ~ +12
	NewDaylightSaving		NewDaylightSaving	1 (enable) 0 (disable)
			ResponseCode	

GetConfigInfo	NewConfigFile		NewConfigFile	Nvram raw data with encryption When extract the encryption data, this data needs to base64 decode before save as a file in user hard disk!!
			ResponseCode	

GetBlockSiteInfo	NewBlockSiteEnable		NewBlockSiteEnable	
	NewBlockSiteName		NewBlockSiteName	
			ResponseCode	

EnableTrafficMeter	NewTrafficMeterEnable	1 (enable) 0 (disable)	ResponseCode	0 (no error) 1 (reboot required)
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SetTrafficMeterOptions	NewControlOption	String, <=24 No Limit Download only Both directions	ResponseCode	0 (no error) 1 (reboot required)
	NewMonthlyLimit	Integer, <=1000000 (Mbps)		
	RestartHour	Integer, 0~24 (the router code should convert to am or pm if that's it uses)		
	RestartMinute	Integer, 0~60		
	RestartDay	Integer, 1~31 (of the month)		

GetTrafficMeterStatistics	NewTodayConnectionTime	String, <=5 hh:mm	ResponseCode	0 (no error) 1 (reboot required)
	NewTodayUpload	Integer in Mbps		
	NewTodayDownload	Integer in Mbps		
	NewYesterdayConnectionTime	String, <=5 hh:mm		
	NewYesterdayUpload	Integer in Mbps		
	NewYesterdayDownload	Integer in Mbps		
	NewWeekConnectionTime	String, <=5 hh:mm		
	NewWeekUpload	Integer in Mbps		
	NewWeekDownload	Integer in Mbps		
	NewMonthConnectionTime	String, <=5		

		hh:mm		
	NewMonthUpload	Integer in Mbps		
	NewMonthDownload	Integer in Mbps		
	NewLastMonthConnectionTime	String, <=5 hh:mm		
	NewLastMonthUpload	Integer in Mbps		
	NewLastMonthDownload	Integer in Mbps		

CheckNewFirmware	CurrentVersion	String, <=24	ResponseCode	0 (no error) 1 (reboot required)
	NewVersion	String, <=24		
	ReleaseNote	String, <=512		
UpdateNewFirmware	YesOrNo	1- Update 0 - Cancel	ResponseCode	0 (no error) 1 (reboot required)

DeviceInfo

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
GetInfo	ModelName		ModelName	WNR834Bv2
	Description		Description	Netgear Smart Wizard 3.0, specification 0.8 version
	SerialNumber		SerialNumber	1ML1747D0000B
	Firmwareversion		Firmwareversion	V2.0.1
	SmartAgentversion		SmartAgentversion	3.0
	FirewallVersion		FirewallVersion	ACOS NAT/FW v2.5.0.44 (Linux Cone NAT Hot Patch 09/14/2007)
	VPNVersion		VPNVersion	N/A
	OthersoftwareVersion		OthersoftwareVersion	2.0.1NA
	Hardwareversion		Hardwareversion	WNR834A
	Otherhardwareversion		Otherhardwareversion	N/A
	FirstUseDate		FirstUseDate	Sunday, 30 Sep 2007 01:10:03
			ResponseCode	

GetSysUpTime	SysUpTime		SysUpTime	HH:MM:SS
			ResponseCode	

GetAttachDevice	NewAttachDevice		NewAttachDevice	n@Index;IP;Name;MAC; type @ ...
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				<p>Note:</p> <p>n: count of attach devices</p> <p>Index: index of each device</p> <p>IP: IP address of each device</p> <p>Name: Each device name</p> <p>MAC: Each device MAC</p> <p><u>Type: “wired” or “wireless” depending on the client device connection.</u></p> <p>e.g.</p> <p>2@1;192.168.1.2;Peter’sNB;11:22:33:44:55:66;<u>wired</u>@2;192.168.1.3;William’sNB;11:22:33:44:55:77;<u>wireless</u></p>
			ResponseCode	

WANIPConnection

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
SetConnectionType	NewConnectionType	DHCP Static PPPoE PPPoA PPTP BigPond	NewConnectionType	Down DHCP Static PPPoE PPPoA PPTP BigPond
	NewISPLoginname	String, <=64	ResponseCode	0 (No error) 1 (Reboot required) 401 (Invalid action) 402 (Invalid arguments) 501 (Action failed) 605 (String argument too long) 702 (Value specified is invalid) 728 (Invalid channel)
	NewISPPassword	String, <=64		
	NewConnectionMode	AlwaysOn DialOnDemand ManuallyConnect N/A (for DHCP, static)		

	NewIdleTimer	Integer, <= 99		
	NewConnectionID	String, <=12 (for PPTP)		
	NewPPTPMyIP	IP, PPPoA xxx.xxx.xxx.xxx		
	NewPPTPServerIP	IP, PPPoA xxx.xxx.xxx.xxx		
	NewBigpondAuthServer	IP, PPPoA xxx.xxx.xxx.xxx		
	NewPrimaryDNS	IP, PPPoA xxx.xxx.xxx.xxx (if this field is 0.0.0.0, it means "Get Automatically DNS From ISP")		
	NewSecondaryDNS	IP, PPPoA xxx.xxx.xxx.xxx		
	NewNATEnable	0(off),1(on),2(disable firewall)		

SetConnection2Type (add PPPoE session2 support)	NewISP2Loginname	String, <=64		
	NewISP2Password	String, <=64		
	NewNAT2Enable	0(off),1(on),2(disable firewall)		

SetDSLConfig	NewWANEncap	String, "LLC-BASED"/"V C-BASED"		
	NewWANVCI	INT,32-102		
	NewWANVPI	INT,0-10		

SetIPInterfaceInfo	NewAddressingType	String, "Static" only	ResponseCode	
	NewExternalIPAddress	IP, IPoA xxx.xxx.xxx.xxx		
	NewSubnetMask	IP, IPoA xxx.xxx.xxx.xxx		
	NewDefaultGateway	IP, IPoA xxx.xxx.xxx.xxx		
	NewPrimaryDNS	IP, IPoA xxx.xxx.xxx.xxx		
	NewSecondaryDNS	IP, IPoA xxx.xxx.xxx.xxx		

SetMACAddress	NewMACAddress	AABBCCDDEEFF	ResponseCode	
	NewMACAddressOverride	0 (use default MAC) 1 (user's computer's MAC)		

		2 (user specify)		
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SetSmartWizardDetection	N/A		NewConnectionType	Down DHCP Static PPPoE PPPoA PPTP BigPond
			ResponseCode	

SetMaxMTUSize	NewMaxMTUSize	Integer <= 1500	ResponseCode	
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AddPortMapping	NewProtocol	TCP UDP	ResponseCode	
	NewInternalPort	1~65534		
	NewExternalPort	1~65534		
	NewInternalClient	xxx.xxx.xxx.xxx		
	NewPortMappingDescription	String, <= 64		
	NewPortMappingAdd	1 : Add		
Max counts of port mapping is 10				

DeletePortMapping	NewProtocol	TCP UDP	ResponseCode	
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	NewExternalPort	1~65534		
	NewPortMappingAdd	0 : Delete		

GetConnectionTypeInfo	NewConnectionType		NewConnectionType	Down DHCP Static PPPoE PPPoA PPTP BigPond
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GetPPPCConnStatus	NewConnectionTime	String	NewConnectStatus	0 (Connected) 1 (Waiting for Data) 2 (Failed) 3 (Disconnected)
			NewNegotiationStatus	0 (Success) 1(lcp_rprotrej: Rcvd short Protocol-Reject packet!) 2 (LCP down) 3 (LCP is allowed to come up) 4 (Initialize LCP) -1 (Unknown Error)
			NewAutheticationStatus	0 (Success) 1 (CHAP authentication failed) 2 (PAP authentication failed)

				-1 (Unknown Error)
GetDNSLookUpStatus		String	NewDNSLookUpStatus	0 (Should be able to connect) 1 (DSLAM not ready, back to ADSL Settings Page) 2 (PPP connection fail, back to Basic Settings Page) -1 (Unknown Error)
GetModemInfo	NewModemVersion	String		
	NewModemStatus	0---"Connected" 1---"Negotiating" 2---"Connecting" -1---"Unknown Error"		
	NewDownStreamSpeed	String		
	NewUpStreamSpeed	String		
	NewWANVCI	INT,32-102		
	NewWANVPI	INT,0-10		
GetInfo	NewEnable		NewEnable	1 (enable) 0 (disable)
	NewConnectionType		NewConnectionType	Down DHCP Static

				PPPoE PPPoA PPTP BigPond
	NewExternalIPAddress		NewExternalIPAddress	IP, IPoA xxx.xxx.xxx.xxx
	NewSubnetMask		NewSubnetMask	IP, IPoA xxx.xxx.xxx.xxx
	NewAddressingType		NewAddressingType	Down DHCP Static PPPoE PPPoA PPTP BigPond
	NewDefaultGateway		NewDefaultGateway	IP, IPoA xxx.xxx.xxx.xxx
	NewMACAddress		NewMACAddress	AABBCCDDEEFF
	NewMACAddressOverride		NewMACAddressOverride	1 (enable) 0 (disable)
	NewMaxMTUSize		NewMaxMTUSize	Integer <= 1500
	NewDNSEnabled		NewDNSEnabled	1 (enable) 0 (disable)
	NewDNSServers		NewDNSServers	IP, xxx.xxx.xxx.xxx
			ResponseCode	

GetPortMappingInfo	NewPortMappingNumberOfEntries		NewPortMappingNumberOfEntries	Counts of port mapping entries Max is 10
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	NewPortMappingInfo		NewPortMappingInfo	Protocol;internal_port; external_port;client_IP; discription@ Protocol;internal_port; external_port;client_IP; discription protocol is "TCP" or "UDP" internal_port is "Internal Port" external_port is "External Port" client_IP is "Client site IP address" description is "Description about this port mapping entry" Note: Just support 10 port mapping entries
			ResponseCode	

WAN3GInterfaceConfig

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
SetConnectionType	NewWANAccessType	DSL_Only Cable_Only 3G_Only Ethernet_Only WiMAX_Only Failover_DSL_First Failover_Cable_First Failover_3G_First Failover_Ethernet_First Failover_WiMax_First	NewWANAccessType	Down NO_USB_Device_Attached NO_SIM_Card_Insert Up
			ResponseCode	0 (No error) 1 (Reboot required) 401 (Invalid action) 402 (Invalid arguments) 501 (Action failed) 605 (String argument too long) 702 (Value specified is invalid) 728 (Invalid channel)

Set3GConfig	NewCountry	Please reference country/ISP list	ResponseCode	0 (No error) 1 (Reboot required)
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				401 (Invalid action) 402 (Invalid arguments) 501 (Action failed) 605 (String argument too long) 702 (Value specified is invalid) 728 (Invalid channel)
	NewISPName	Please reference country/ISP list		
	NewISPLoginname	String, <=64 (for 3G ISP)		
	NewISPPassword	String, <=64 (for 3G ISP)		
	NewPINCode	Digits, length = 4 ~ 8		
	NewPIN2Code	Digits, length = 4 ~ 8		
	NewPUKCode	Digits, length = 8		
	NewPUK2Code	Digits, length = 8		
	NewAPN	String, < 64		
	NewAccessNumber	*99# *99***1# *99***2# *99***3# *99***4# *99*#		
	NewPDPTType	IP PDP-IP		

		PPP PDP-PPP		
	NewAutoConnect	Enable Disable		
	NewReconnectAuto	Enable Disable		
	NewRoamingAuto	Enable Disable		

GetInfo	NewActiveWAN		NewActiveWAN	DSL_Only Cable_Only 3G_Only Ethernet_Only WiMAX_Only Failover_DSL_First Failover_3G_First Failover_Ethernet_First Failover_Cable_First Failover_WiMAX_First
	NewCurrentConectionType		NewCurrentConectionType	PPP (when in 3G mode) DHCP Static

				PPPoE PPPoA IPoA PPTP BigPond
	NewIPAddress		NewIPAddress (when 3G mode)	xxx.xxx.xxx.xxx
	NewSubnetMask		NewSubnetMask (when 3G mode)	xxx.xxx.xxx.xxx
	NewDefaultGateway		NewDefaultGateway (when 3G mode)	xxx.xxx.xxx.xxx
	NewDNSServers		NewDNSServers (when 3G mode)	xxx.xxx.xxx.xxx
	NewAntennaType		NewAntennaType	Internal External 0 (No error) 1 (Reboot required) 401 (Invalid action) 402 (Invalid arguments) 501 (Action failed) 605 (String argument too long) 702 (Value specified is invalid) 728 (Invalid channel)
	NewWiFiButtonBehavior		NewWiFiButtonBehavior	WiFi_Only WiFi_And_3G

				0 (No error) 1 (Reboot required) 401 (Invalid action) 402 (Invalid arguments) 501 (Action failed) 605 (String argument too long) 702 (Value specified is invalid) 728 (Invalid channel)
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Get3GInfo	NewModemIdentity		NewModemIdentity	String, < 128
	NewModemSWVersion		NewModemSWversion	String, < 128
	NewModemCurrentStatus		NewModemCurrentStatus	String, <= 64
	NewIMSI		NewIMSI	String, <= 64
	NewIMEI		NewIMEI	String, <= 64
	NewOperatorName		NewOperatorName	String, <= 64
	NewNetworkMode		NewNetworkMode	String, <= 64
	NewRSSI		NewRSSI	Digits, e.g. -90dbm

WANEthernetLinkConfig

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
GetEthernetLinkStatus	NewEthernetLinkStatus		NewEthernetLinkStatus	Up Down
			ResponseCode	

SetWANRelease	NewWANRelease	1 (let this value as 1)	ResponseCode	
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SetWANRenew	NewWANRenew	1	ResponseCode	
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LANConfigSecurity

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
SetConfigLANSubnet	NewLANSubnet	IP, xxx.xxx.xxx.xxx	ResponseCode	0 (No error) 1 (Reboot required) 401 (Invalid action) 402 (Invalid arguments) 501 (Action failed) 605 (String argument too long) 702 (Value specified is invalid) 728 (Invalid channel)

SetConfigLANIP	NewLANIP	IP, xxx.xxx.xxx.xxx		
SetConfigDHCPEnabled	NewDHCPEnabled	Bool		
SetConfigLAN	NewLANIP	IP, xxx.xxx.xxx.xxx		
	NewLANSubne	String		
	NewDHCPEnabled	Bool		
	NewStartIP	IP, xxx.xxx.xxx.xxx		
	NewEndIP	IP, xxx.xxx.xxx.xxx		

SetConfigPassword	NewPassword	String, <=64	ResponseCode	
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GetInfo	NewLANSubnet		NewLANSubnet	IP, xxx.xxx.xxx.xxx
	NewPassword		NewPassword	String, <= 64
	NewWANLAN_Subnet_Match		NewWANLAN_Subnet_Match	1 , match 0 , doesn't match
	NewLANMACAddress		NewLANMACAddress	AABBCCDDEEFF
			ResponseCode	

	NewLANIP	IP, xxx.xxx.xxx.xxx		
	NewDHCPEnabled	Bool		

WLANConfiguration

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
SetEnable	NewEnable	1 (enable) 0 (disable)	ResponseCode	0 (No error) 1 (Reboot required) 401 (Invalid action) 402 (Invalid arguments) 501 (Action failed) 605 (String argument too long) 702 (Value specified is invalid) 728 (Invalid channel)
SetConfigPassword	NewPassword	String, <=64	ResponseCode	
SetChannel	NewChannel	Normal: Auto, 1~13 But: 6 only when dynamic super g 1~11 (for US only)	ResponseCode	
Set5GChannel	New5GChannel	Auto, 36, 40, 44, 48, 52, 56, 60, 64	ResponseCode	

SetSSID	NewSSID	String , <=32	ResponseCode	
SetSSIDBroadcast	NewSSIDBroadcast	Bool, 0(disable)/1(enable)		
Set5GSSID	New5GSSID	String , <=32	ResponseCode	

The section applies if the router is a dual-band router which supports both 2.4GHz and 5GHz.

For those routers, the 4 functions listed below when called should apply the same setting (except SSID, which only applies to 2.4GHz, the 5GHz SSID is applied through separate API Set5GSSID(New5GSSID)) to both 2.4GHz and 5GHz (if the mode enables 5GHz), the channel parameter is for 2.4GHz, and the API should apply channel “Auto” or 44 (if “Auto” not supported, “44” is preferred over “36” because of higher Tx output power in mid channel than band-edge channel) for 5GHz internally.

SetWLANNoSecurity

SetWLANWEPByKeys

SetWLANWEPByPassphrase

SetWLANWPA2PSKByPassphrase

Also, for those 4 APIs, a new parameter value “270Mbps_5G” is to be added for NewWirelessMode. When the client passes this value, the router needs to configure the 270Mbps rate for 5GHz, and the max allowed 2.4GHz rate, for example, WNDR3300 will allow 54Mbps for 2.4GHz if 5GHz uses 270Mbps.

SetWLANNoSecurity	NewSSID	String, <=32	ResponseCode	
	NewRegion	String, <= 64 Please reference Appendix		

	NewChannel	Normal: Auto, 1~13 But: 6 only when dynamic super g 1~11 (for US only)		
	NewWirelessMode	String, <=64 b only g only Auto 108Mbps g & b 130Mbps 270Mbps 270Mbps_5G (for dual-band)		

SetWLANWEPByKeys	NewSSID	String, <=32	ResponseCode	
	NewRegion	String, <= 64 Please reference Appendix		
	NewChannel	Normal: Auto, 1~13 But: 6 only when dynamic super g 1~11 (for US only)		
	NewWirelessMode	String, <=64 b only		

		g only Auto 108Mbps g & b 130Mbps 270Mbps 270Mbps_5G (for dual-band)		
	NewWEPAuthType	Automatic Open Shared		
	NewWEPLength	64 or 128		
	NewKey1	String , and string length just could accept 10 or 26		
	NewKey2	String , and string length just could accept 10 or 26		
	NewKey3	String , and string length just could accept 10 or 26		
	NewKey4	String , and string length just could accept 10 or 26		

SetWLANWEPByPassphrase	NewSSID	String, <=32	ResponseCode	
	NewRegion	String, <= 64 Please reference Appendix		
	NewChannel	Normal: Auto, 1~13 But:		

		6 only when dynamic super g 1~11 (for US only)		
	NewWirelessMode	String, <=64 b only g only Auto 108Mbps g & b 130Mbps 270Mbps 270Mbps_5G (for dual-band)		
	NewWEPAuthType	Automatic Open Shared		
	NewWEPLength	64 or 128		
	NewWEPPassphrase	String, string length <= 32		

SetWLANWPAPSKByPassphrase	NewSSID	String, <=32	ResponseCode	
	NewRegion	String, <= 64 Please reference Appendix		
	NewChannel	Normal: Auto, 1~13 But: 6 only when dynamic super g		

		1~11 (for US only)		
	NewWirelessMode	String, <=64 b only g only Auto 108Mbps g & b 130Mbps 270Mbps 270Mbps_5G (for dual-band)		
	NewWPAEncryptionModes	WPA-PSK/WPA2-PSK WPA-PSK WPA2-PSK		
	NewWPA passphrase	String, >= 8 and <= 64		

SetWPSMode	NewWPSEnable	1 (enable) 0 (disable)	ResponseCode	
PressWPSPBC			ResponseCode	0 no error

PressWPSPBC() will simulate the physical WPS push-button pressing, it will enable WPS process.

GetInfo	NewEnable		NewEnable	1 (enable) 0 (disable)
	NewSSIDBroadcast		NewSSIDBroadcast	1 (on) 0 (off)
	NewStatus		NewStatus	Up

				Disable Note: This field is identifying link status!!
	NewSSID		NewSSID	String, <=32
	NewRegion		NewRegion	String, <= 64 Please reference Appendix
	NewChannel		NewChannel	Normal: Auto, 01~13 But: 6 only when dynamic super g 01~11 (for US only)
	NewWirelessMode		NewWirelessMode	String, <=64 b only g only Auto 108Mbps g & b 130Mbps 270Mbps
	NewBasicEncryptionModes		NewBasicEncryptionModes	None WEP WPA-PSK WPA2-PSK WPA-PSK/WPA2-PSK
	NewWEPAuthType		NewWEPAuthType	Open Shared Automatic

	NewWPAEncryptionModes		NewWPAEncryptionModes	None WPA-PSK WPA2-PSK WPA-PSK/WPA2-PSK
	NewWLANMACAddress		NewWLANMACAddress	AABBCCDDEEFF
			ResponseCode	

GetWEPSecurityKeys	NewWEPKey		NewWEPKey	String , and string length just could be 10 or 26
	NewWEPPassphrase		NewWEPPassphrase	String, string length <= 32
			ResponseCode	

GetWPASecurityKeys	NewWPAPassphrase		NewWPAPassphrase	String, >= 8 and <= 64
			ResponseCode	

GetSSID	NewSSID		NewSSID	
			ResponseCode	
Get5GSSID	New5GSSID		New5GSSID	
			ResponseCode	
GetChannelInfo	NewChannel		NewChannel	Normal: Auto, 01~13 But: 6 only when dynamic super g 01~11 (for US only)

			ResponseCode	
Get5GChannelInfo	New5GChannel		New5GChannel	Normal: Auto, 36, 40, 44, 48
			ResponseCode	
Get5GInfo	New5GSSID		New5GSSID	
	New5GChannel		New5GChannel	Normal: Auto, 36, 40, 44, 48
			ResponseCode	

GetRegion	NewRegion		NewRegion	String, <= 64 Please reference Appendix
			ResponseCode	

GetWirelessMode	NewWirelessMode		NewWirelessMode	String, <=64 b only g only Auto 108Mbps g & b 130Mbps 270Mbps
			ResponseCode	

GetSSIDBroadcast	NewSSIDBroadcast		NewSSIDBroadcast	1 (on) 0 (off)
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			ResponseCode	
GetWPSMode	NewWPSEnable		NewWPSEnable	1 (enable) 0 (disable)
			ResponseCode	
GetWPSPINInfo	NewWPSPINEnable		NewWPSPINEnable	1 (enable) 0 (disable)
	NewRouterWPSPIN		NewRouterWPSPIN	WPS PIN number, sting
			ResponseCode	

For simplicity, the following “Guest Access” should be implemented on 2.4GHz radio for any 2.4GHz only AP, or dual-band AP. It should be implemented on 5.0GHz radio only if the AP is 5GHz-only.

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
GetGuestAccessEnabled()	NewGuestAccessEnabled	1 (enabled) 0 (not enabled) <u>2 (Guest Access is not supported)</u>	ResponseCode	0 (No error) 402 (Invalid arguments)
<u>If Guest Access is enabled, then return NewGuestAccessEnabled as 1, if not, return 0. If Guest Access is not supported (no multi-SSID support), then return 2.</u>				

If none of the SSIDs enables Guest Access, then return NewGuestAccessEnabled as 0. If at least 1 has enabled Guest Access, then return NewGuestAccessEnabled as 1.

SetGuestAccessEnabled()	NewGuestAccessEnabled	1 (enable) 0 (disable)	ResponseCode	0 (No error) 402 (Invalid arguments)
If NewGuestAccessEnabled=1, enable Guest Access and return 0, if Guest Access is already enabled, do nothing and return 0. If NewGuestAccessEnabled=0, disable Guest Access and return 0, if Guest Access is already disabled, do nothing and return 0.				
GetGuestAccessNetworkInfo	NewSSID	String, <=32	ResponseCode	
	NewSecurityMode	String, <=16 None WEP64 WEP128 WPA-PSK WPA2-PSK Mixed WPA		0 (no error) 1 (Guest access not enabled)
	NewKey	String, <=64, blank for None, WEP Key1 or WPA		

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		passphrase.		
SetGuestAccessNetwork	NewSSID	String, <=32	ResponseCode	
	NewSecurityMode	String, <=16 None WEP64 WEP128 WPA-PSK WPA2-PSK Mixed WPA		0 (No error) 1 (Reboot required) 401 (Invalid action) 402 (Invalid arguments) 501 (Action failed)
	NewKey1	String , and string length 0~64	If no security, leave it blank. Key1 for WEP64 or WEP128, Passphrase for WPA(2)/PSK	
	NewKey2	String , and string length 0~64		
	NewKey3	String , and string length 0~64		
	NewKey4	String , and string length 0~64		

If ~~all SSIDs are created already and none of them enables~~ Guest Access ~~is not enabled or not supported~~, then return 501.

If ~~existing SSIDs have not enabled Guest Access, and max SSIDs are not reached, then add the SSID as Guest Access and returns 0 (if no need to reboot) or 1 (if reboot is required).~~

If ~~any of the existing SSIDs has enabled~~ Guest Access ~~is enabled~~, then update that SSID network with the new set of information.

Starting with SOAP API version V1.9 (which implements PressWSPBC(), all Guest Access APIs, Traffic Metering APIs, FW Update APIs, as well as GetAttachDevice() update), the router firmware needs to add “SOAPVersion=1.9” for example to the currentsetting.htm page (which should not require Basic Authentication) for SOAP API version 1.9 or later, the number matches the SOAP API version implemented, i.e., when SOAP version becomes 2.0, the value should be “SOAPVersion=2.0”. An example:
 “Firmware=V1.0.2.14 24.0.74NA RegionTag=WNRxxxx NA Region=us Model=WNRxxxx InternetConnectionStatus=Up ParentalControlSupported=1 SOAPVersion=1.9”

Time

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
GetInfo	NewNTPServer1		NewNTPServer1	String, the string length <= 64
	NewNTPServer2		NewNTPServer1	String, the string length <= 64
	NewNTPServer3		NewNTPServer1	String, the string length <= 64
	NewNTPServer4		NewNTPServer1	String, the string length <= 64

				<= 64
			ResponseCode	

ParentalControl

Function name	Input		Response	
	Argument	Format/Value	Parameter	Format/Value
GetDNsmasqDeviceID	NewMACAddress	String (16 characters)	NewDeviceID	String, string length <=32
			ResponseCode	0: Success 1: Error 401: Not authenticated
Authenticate	NewUsername	String (64 characters)	ResponseCode	0: Success 401: Invalid username and/or password 2: Error
	NewPassword	String (64 characters)		

SetDNsmasqDeviceID	NewMACAddress	String (16 characters)	ResponseCode	0: Success 1: Maxed out (can't add more) 2: Error 401: Not authenticated
	NewDeviceID	String (32 characters)		

EnableParentalControl	NewEnable	1 (enable) 0 (disable)	ResponseCode	0 (No error) 1 failure 401: Not authenticated
GetAllMACAddresses			AllMACAddresses (all MACs in a string delimited with ' ')	String, string length <=1024
			ResponseCode	0: Success 1: Error 401: Not authenticated

DeleteMACAddress	NewMACAddress	String (16 characters)	ResponseCode	0 (No error) 1 failure 401: Not authenticated
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GetEnableStatus			ParentalControl	0 or 1
			ResponseCode	0: Success 1: Error 401: Not authenticated

Appendix

Region and country code mapping table:

Region	Country Code	Specific Country
Africa	ZA	South Africa
Asia	SG	Singapore
Australia	AU	
Canada	CA	
Europe	GB	United Kingdom
Germany	GR	
Israel	IL	
Japan	JP	
Korea	KR2	
Mexico	MX	
South America	UY	Uruguay
United States	US	
Others	OT	

3G related parameters:

APN : (Access Point Name) a string parameter which is a logical name that is used to select the GGSN or the external packet data network

CID : (PDP Context Identifier) a numeric parameter which specifies a particular PDP context definition. The parameter is local to the TE-MT interface and is used in other PDP context-related commands. The range of permitted values (minimum value = 1) is returned by the test form of the command.

Access Number : A digit string (value 99) which identifies a request to use the Packet Domain service