Internet Gateway Device Support

Supported by AVM

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History

Date	Version	Changes
2015-06-03	1	Initial release
2015-06-11	2	IPv6 support
2017-02-24	3	Added variables & arguments X_AVM_DE_TotalBytesSent64 & X_AVM_DE_TotalBytesReceived64 to action GetAddonInfos
2017-07-06	4	Added actions X_AVM_DE_GetDsliteStatus and X_AVM_DE_GetIPTVInfos
2017-08-18	5	Added variable & argument X_AVM_DE_WANAccessType to action GetAddonInfos
2023-01-20	6	Added a state variable remarks table for WANCommonInterfaceConfig clarify the counters

Based on the Internet Gateway Device (IGD) V1.0 and Internet Gateway Device (IGD) V2.0 specification proposed by UpnP™ Forum at http://upnp.org/specs/gw/igd1/ and http://upnp.org/specs/gw/igd2/.

All information is based on the FRITZ!OS 6.93.

WANCommonInterfaceConfig:1

For details please refer the IGD document at http://upnp.org/specs/gw/UPnP-gw-WANCommonInterfaceConfig-v1-Service.pdf.

Supported actions:
```
GetCommonLinkProperties
GetTotalBytesSent
GetTotalBytesReceived
GetTotalPacketsSent
GetTotalPacketsReceived
```

Additional actions:

GetAddonInfos

Argument name	Direction	Related state variable	Remarks
NewByteSendRate	out	ByteSendRate	
NewByteReceiveRate	out	ByteReceiveRate	
NewPacketSendRate	out	PacketSendRate	
NewPacketReceiveRate	out	PacketReceiveRate	
NewTotalBytesSent	out	TotalBytesSent	
NewTotalBytesReceived	out	TotalBytesReceived	
NewAutoDisconnectTime	out	AutoDisconnectTime	
NewIdleDisconnectTime	out	IdleDisconnectTime	
NewDNSServer1	out	DNSServer1	
NewDNSServer2	out	DNSServer2	
NewVoipDNSServer1	out	VoipDNSServer1	
NewVoipDNSServer2	out	VoipDNSServer2	
NewUpnpControlEnabled	out	UpnpControlEnabled	True, if portmappings allowed
NewRoutedBridgedModeBoth	out	RoutedBridgedModeBoth	
NeWX_AVM_DE_TotalBytesSent64	out	X_AVM_DE_TotalBytesSent64	
NeWX_AVM_DE_TotalBytesReceived64	out	X_AVM_DE_TotalBytesReceived64	
NeWX_AVM_DE_WANAccessType	out	X_AVM_DE_WANAccessType	

Table 1: Argument list of action GetAddonInfos

X_AVM_DE_GetDsliteStatus

Argument name	Direction	Related state variable	Remarks
NewX_AVM_DE_DsliteStatus	out	X_AVM_DE_DsliteStatus	True, if Dslite is active

Table 2: Argument list of action X_AVM_DE_GetDsliteStatus

X_AVM_DE_GetIPTVInfos

Argument name	Direction	Related state variable	Remarks
NewX_AVM_DE_IPTV_Enabled	out	X_AVM_DE_IPTV_Enabled	
NewX_AVM_DE_IPTV_Provider	out	X_AVM_DE_IPTV_Provider	
NewX_AVM_DE_IPTV_URL	out	X_AVM_DE_IPTV_URL	

Table 3: Arguments of Action X_AVM_DE_GetIPTVInfos

State variable remarks:

state variable	Remarks
TotalBytesSent	Represents the total number of bytes sent over all interfaces during their connection interval. If an interface establish a new connection, its counter gets reset to 0.
TotalBytesReceived	Represents the total number of bytes received over all interfaces during their connection interval. If an interface establish a new connection, its counter gets reset to 0.
TotalPacketsSent	Represents the total number of packets sent over all interfaces during their connection interval. If an interface establish a new connection, its counter gets reset to 0.
TotalPacketsReceived	Represents the total number of packets received over all interfaces during their connection interval. If an interface establish a new connection, its counter gets reset to 0.

Table 4: State variable remarks for WANCommonInterfaceConfig

WANDSLLinkConfig:1

For details please refer the IGD document at http://upnp.org/specs/gw/UpnP-gw-WANDSLLinkConfig-v1-Service.pdf.

Supported actions:
GetDSLLinkInfo
GetAutoConfig
GetModulationType
GetDestinationAddress
GetATMEncapsulation
GetFCSPreserved

WANIPConnection:1

For details please refer the IGD document at http://upnp.org/specs/gw/UpnP-gw-WANIPConnection-v1-Service.pdf.

Supported actions:
GetConnectionTypeInfo

```
RequestConnection
RequestTermination
ForceTermination
GetStatusInfo
GetAutoDisconnectTime
GetIdleDisconnectTime
GetNATRSIPStatus
GetGenericPortMappingEntry
GetSpecificPortMappingEntry
AddPortMapping
DeletePortMapping
GetExternalIPAddress
```

Additional actions:

X_AVM_DE_GetDNSServer

Argument name	Direction	Related state variable	Remarks
NewIPv4DNSServer1	out	IPv4DNSServer1	
NewIPv4DNSServer2	out	IPv4DNSServer2	

Table 5: Argument list of action X_AVM_DE_GetDNSServer

X_AVM_DE_GetIPv6DNSServer

Argument name	Direction	Related state variable	Remarks
NewIPv6DNSServer1	out	IPv6DNSServer1	
NewValidLifetime1	out	ValidLifetime1	
NewIPv6DNSServer2	out	IPv6DNSServer2	
NewValidLifetime2	out	ValidLifetime2	

Table 6: Argument list of action X_AVM_DE_GetIPv6DNSServer

X_AVM_DE_GetExternalIPv6Address

Argument name	Direction	Related state variable	Remarks
NewExternalIPv6Address	out	ExternalIPv6Address	evented
NewPrefixLength	out	PrefixLength	
NewValidLifetime	out	ValidLifetime	
NewPreferedLifetime	out	PreferedLifetime	

Table 7: Argument list of action X_AVM_DE_GetExternalIPv6Address

X_AVM_DE_GetIPv6Prefix

Argument name	Direction	Related state variable	Remarks
NewIPv6Prefix	out	IPv6Prefix	
NewPrefixLength	out	PrefixLength	
NewValidLifetime	out	ValidLifetime	
NewPreferedLifetime	out	PreferedLifetime	

Table 8: Argument list of action X_AVM_DE_GetIPv6Prefix

WANIPv6FirewallControl:1

For details please refer the IGD document at http://upnp.org/specs/gw/UPnP-gw-WANIPv6FirewallControl-v1-Service.pdf.

Supported actions:
GetFirewallStatus
AddPinhole
UpdatePinhole
DeletePinhole