

TR-064 Support – WAN PPP Connection

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History

| Datum | Version | Description |
|------------|---------|---|
| 2012-11-09 | 7 | Correction for action GetGenericPortMappingEntry Correction for action GetSpecificPortMappingEntry Correction for action AddPortMapping Correction for action DeletePortMapping Correction for action X_AVM_DE_GetAutoDisconnectTimeSpan Correction for action X_AVM_DE_SetAutoDisconnectTimeSpan Correction for chapter 2 Service States Table . |
| 2014-04-04 | 8 | Additional description for PortMapping entries in chapter 1.18 AddPortMapping , page 6. |
| 2015-11-20 | 9 | Parameter changed from NewDescription to NewPortMappingDescription Add parameter DownstreamMaxBitRate Service State Table |
| 2017-01-09 | 10 | Mark X_SetDNSServer as unsupported |
| 2017-05-10 | 11 | Added PortMapping restrictions to the description in chapter 1.18 AddPortMapping , page 6. |
| 2019-04-09 | 12 | Service description details added. |

urn:WANPPPConnection-com:serviceId:WANPPPConnection1

This service supports only PPP based WAN connections. E.g. the FRITZ!Box products with a DSL interface have typically such a connection type. If your WAN interface uses an IP connection, please have a look at the WANIPConnection1 service description. To make sure which kind of connection type is used, you can make a TR-064 request to Layer3Forwarding:GetDefaultConnectionService which provides this information.

For details please refer the TR-064 document at <https://www.broadband-forum.org/technical/download/TR-064.pdf>.

1 Action List

This chapter contains the supported actions of the service WAN PPP Connection which are listed incl. arguments.

1.1 GetInfo

| Argument name | Direction | Related state variable | Remarks |
|----------------------------|-----------|-------------------------|---------------------------|
| NewEnable | out | Enable | |
| NewConnectionStatus | out | ConnectionStatus | |
| NewPossibleConnectionTypes | out | PossibleConnectionTypes | |
| NewConnectionType | out | ConnectionType | |
| NewName | out | Name | |
| NewUptime | out | Uptime | |
| NewUpstreamMaxBitRate | out | UpstreamMaxBitRate | |
| NewDownstreamMaxBitRate | out | DownstreamMaxBitRate | |
| NewLastConnectionError | out | LastConnectionError | |
| NewIdleDisconnectTime | out | IdleDisconnectTime | |
| NewRSIPAvailable | out | RSIPAvailable | |
| NewUserName | out | UserName | |
| NewNATEnabled | out | NATEnabled | |
| NewExternalIPAddress | out | ExternalIPAddress | |
| NewDNSServers | out | DNSServers | |
| NewMACAddress | out | MACAddress | |
| NewLastAuthErrorInfo | out | LastAuthErrorInfo | |
| NewConnectionTrigger | out | ConnectionTrigger | |
| NewMaxCharsUsername | out | MaxCharsUsername | |
| NewMinCharsUsername | out | MinCharsUsername | |
| NewAllowedCharsUsername | out | AllowedCharsUsername | |
| NewMaxCharsPassword | out | MaxCharsPassword | |
| NewMinCharsPassword | out | MinCharsPassword | |
| NewAllowedCharsPassword | out | AllowedCharsPassword | |
| NewTransportType | out | TransportType | |
| NewRouteProtocolRx | out | RouteProtocolRx | |
| NewPPPoEServiceName | out | PPPoEServiceName | Not supported, returns "" |
| NewRemoteIPAddress | out | RemoteIPAddress | Not supported, returns "" |
| NewPPPoEACName | out | PPPoEACName | |
| NewDNSEnabled | out | DNSEnabled | |
| NewDNSOverrideAllowed | out | DNSOverrideAllowed | |

Table 1.1: Argument list of action GetInfo

1.2 GetConnectionTypeInfo

| Argument name | Direction | Related state variable |
|----------------------------|-----------|-------------------------|
| NewConnectionType | out | ConnectionType |
| NewPossibleConnectionTypes | out | PossibleConnectionTypes |

Table 1.2: Argument list of action GetConnectionTypeInfo

1.3 SetConnectionType

| Argument name | Direction | Related state variable | Remarks |
|-------------------|-----------|------------------------|---------|
| NewConnectionType | in | ConnectionType | |

Table 1.3: Argument list of action SetConnectionType

1.4 GetStatusInfo

| Argument name | Direction | Related state variable | Remarks |
|------------------------|-----------|------------------------|---------|
| NewConnectionStatus | out | ConnectionStatus | |
| NewLastConnectionError | out | LastConnectionError | |
| NewUptime | out | Uptime | |

Table 1.4: Argument list of action GetStatusInfo

1.5 GetLinkLayerMaxBitRates

| Argument name | Direction | Related state variable | Remarks |
|-------------------------|-----------|------------------------|---------|
| NewUpstreamMaxBitRate | out | UpstreamMaxBitRate | |
| NewDownstreamMaxBitRate | out | DownstreamMaxBitRate | |

Table 1.5: Argument list of action GetLinkLayerMaxBitRates

1.6 GetUserName

| Argument name | Direction | Related state variable | Remarks |
|---------------|-----------|------------------------|---------|
| NewUserName | out | UserName | |

Table 1.6: Argument list of action GetUserName

1.7 SetUserName

| Argument name | Direction | Related state variable | Remarks |
|---------------|-----------|------------------------|---------|
| NewUserName | in | UserName | |

Table 1.7: Argument list of action SetUserName

1.8 SetPassword

| Argument name | Direction | Related state variable | Remarks |
|---------------|-----------|------------------------|---------|
| NewPassword | out | Password | |

Table 1.8: Argument list of action SetPassword

1.9 GetNATRSIPStatus

| Argument name | Direction | Related state variable | Remarks |
|------------------|-----------|------------------------|---------|
| NewRSIPAvailable | out | RSIPAvailable | |
| NewNATEnabled | out | NATEnabled | |

Table 1.9: Argument list of action GetNATRSIPStatus

1.10 SetConnectionTrigger

| Argument name | Direction | Related state variable | Remarks |
|----------------------|-----------|------------------------|---------|
| NewConnectionTrigger | in | ConnectionTrigger | |

Table 1.10: Argument list of action SetConnectionTrigger

1.11 ForceTermination

No arguments.

1.12 RequestConnection

No arguments.

1.13 X_GetDNSServers

| Argument name | Direction | Related state variable | Remarks |
|---------------|-----------|------------------------|---------|
| NewDNSServers | out | DNSServers | |

Table 1.11: Argument list of action X_GetDNSServers

1.14 X_SetDNSServers

The action is not supported.

1.15 GetPortMappingNumberOfEntries

| Argument name | Direction | Related state variable | Remarks |
|-------------------------------|-----------|----------------------------|---------|
| NewPortMappingNumberOfEntries | out | PortMappingNumberOfEntries | |

Table 1.12: Argument list of action GetPortMappingNumberOfEntries

1.16 GetGenericPortMappingEntry

| Argument name | Direction | Related state variable | Remarks |
|---------------------------|-----------|----------------------------|---------|
| NewPortMappingIndex | in | PortMappingNumberOfEntries | |
| NewRemoteHost | out | RemoteHost | |
| NewExternalPort | out | ExternalPort | |
| NewProtocol | out | PortMappingProtocol | |
| NewInternalPort | out | InternalPort | |
| NewInternalClient | out | InternalClient | |
| NewEnabled | out | PortMappingEnabled | |
| NewPortMappingDescription | out | PortMappingDescription | |
| NewLeaseDuration | out | PortMappingLeaseDuration | |

Table 1.13: Argument list of action GetGenericPortMappingEntry

1.17 GetSpecificPortMappingEntry

| Argument name | Direction | Related state variable | Remarks |
|---------------------------|-----------|--------------------------|---------|
| NewRemoteHost | in | RemoteHost | |
| NewExternalPort | in | ExternalPort | |
| NewProtocol | in | PortMappingProtocol | |
| NewInternalPort | out | InternalPort | |
| NewInternalClient | out | InternalClient | |
| NewEnabled | out | PortMappingEnabled | |
| NewPortMappingDescription | out | PortMappingDescription | |
| NewLeaseDuration | out | PortMappingLeaseDuration | |

Table 1.14: Argument list of action GetSpecificPortMappingEntry

1.18 AddPortMapping

Port mapping entries are only allowed for hosts inside of LAN. Furthermore hosts can only add port mapping entries for themselves and not for other hosts in the LAN. It is not intended to allow port mapping entries for the guest network or hosts with IP addresses routed into WAN.

| Argument name | Direction | Related state variable | Remarks |
|---------------------------|-----------|--------------------------|---------|
| NewRemoteHost | in | RemoteHost | |
| NewExternalPort | in | ExternalPort | |
| NewProtocol | in | PortMappingProtocol | |
| NewInternalPort | in | InternalPort | |
| NewInternalClient | in | InternalClient | |
| NewEnabled | in | PortMappingEnabled | |
| NewPortMappingDescription | in | PortMappingDescription | |
| NewLeaseDuration | in | PortMappingLeaseDuration | |

Table 1.15: Argument list of action AddPortMapping

1.19 DeletePortMapping

| Argument name | Direction | Related state variable | Remarks |
|-----------------|-----------|------------------------|---------|
| NewRemoteHost | in | RemoteHost | |
| NewExternalPort | in | ExternalPort | |
| NewProtocol | in | PortMappingProtocol | |

Table 1.16: Argument list of action DeletePortMapping

1.20 GetExternalIPAddress

| Argument name | Direction | Related state variable | Remarks |
|----------------------|-----------|------------------------|---------|
| NewExternalIPAddress | out | ExternalIPAddress | |

Table 1.17: Argument list of action GetExternalIPAddress

1.21 SetRouteProtocolRx

| Argument name | Direction | Related state variable | Remarks |
|--------------------|-----------|------------------------|---------|
| NewRouteProtocolRx | in | RouteProtocolRx | |

Table 1.18: Argument list of action SetRouteProtocolRx

1.22 SetIdleDisconnectTime

| Argument name | Direction | Related state variable | Remarks |
|-----------------------|-----------|------------------------|---------|
| NewIdleDisconnectTime | in | IdleDisconnectTime | |

Table 1.19: Argument list of action SetIdleDisconnectTime

1.23 X_AVM_DE_GetAutoDisconnectTimeSpan

The value indicates the hour when the internet connection is terminated. It is used to prevent the 24h provider connection termination.

| Argument name | Direction | Related state variable |
|--|-----------|-------------------------------------|
| NewX_AVM-DE_DisconnectPreventionEnable | out | X_AVM-DE_DisconnectPreventionEnable |
| NewX_AVM-DE_DisconnectPreventionHour | out | X_AVM-DE_DisconnectPreventionHour |

Table 1.20: Argument list of action X_AVM_DE_GetAutoDisconnectTimeSpan

1.24 X_AVM_DE_SetAutoDisconnectTimeSpan

| Argument name | Direction | Related state variable |
|--|-----------|-------------------------------------|
| NewX_AVM-DE_DisconnectPreventionEnable | in | X_AVM-DE_DisconnectPreventionEnable |
| NewX_AVM-DE_DisconnectPreventionHour | in | X_AVM-DE_DisconnectPreventionHour |

Table 1.21: Argument list of action X_AVM_DE_SetAutoDisconnectTimeSpan

2 Service States Table

| Variable Name | Allowed Values (* == default) | Type |
|----------------------|---|---------|
| AllowedCharsPassword | 01234567890ABCDEFGHIJKLMNOPQRSTUVWXYZ WXYzabcdefghijklmnopqrstuvwxy-._@()#/%[] {}*+\$\$&=?!;, (*) | String |
| AllowedCharsUsername | 01234567890ABCDEFGHIJKLMNOPQRSTUVWXYZ WXYzabcdefghijklmnopqrstuvwxy-._@()#/%[] {}*+\$\$&=?!;, (*) | String |
| ConnectionStatus | Unconfigured (*) Connecting Authenticating PendingDisconnect Disconnecting Disconnected Connected | String |
| ConnectionTrigger | | String |
| ConnectionType | Unconfigured (*) IP_Routed IP_Bridged | String |
| DNSEnabled | 1 (*) | Boolean |
| DNSOverrideAllowed | 0 (*) | Boolean |
| DNSServers | | String |
| DownstreamMaxBitRate | | ui4 |
| Enable | | Boolean |
| ExternalIPAddress | | String |
| ExternalPort | [1, 65535] | ui2 |
| IdleDisconnectTime | | ui4 |
| InternalClient | | String |
| InternalPort | [1, 65535] | ui2 |
| LastAuthErrorInfo | | String |

| Variable Name | Allowed Values (* == default) | Type |
|----------------------------|---|---------|
| LastConnectionError | ERROR_NONE (*) ERROR_ISP_TIME_OUT ERROR_COMMAND_ABORTED ERROR_NOT_ENABLED_FOR_INTERNET ERROR_BAD_PHONE_NUMBER ERROR_USER_DISCONNECT ERROR_ISP_DISCONNECT ERROR_IDLE_DISCONNECT ERROR_FORCED_DISCONNECT ERROR_SERVER_OUT_OF_RESOURCES ERROR_RESTRICTED_LOGON_HOURS ERROR_ACCOUNT_DISABLED ERROR_ACCOUNT_EXPIRED ERROR_PASSWORD_EXPIRED ERROR_AUTHENTICATION_FAILURE ERROR_NO_DIALTONE ERROR_NO_CARRIER ERROR_NO_ANSWER ERROR_LINE_BUSY ERROR_UNSUPPORTED_BITSPERSECOND ERROR_TOO_MANY_LINE_ERRORS ERROR_IP_CONFIGURATION ERROR_UNKNOWN | String |
| MACAddress | | String |
| MaxCharsPassword | 64 (*) | ui2 |
| MaxCharsUsername | 128 (*) | ui2 |
| MinCharsPassword | 3 (*) | ui2 |
| MinCharsUsername | 3 (*) | ui2 |
| Name | | String |
| NATEnabled | 1 (*) | Boolean |
| Password | | String |
| PortMappingDescription | | String |
| PortMappingEnabled | | Boolean |
| PortMappingLeaseDuration | | ui4 |
| PortMappingNumberOfEntries | | ui2 |
| PortMappingProtocol | UDP, TCP | String |
| PossibleConnectionTypes | Unconfigured IP_Routed IP_Bridged | String |
| PPPoEACName | | String |
| PPPoEServiceName | | String |
| RemoteIPAddress | | String |
| RemoteHost | | String |
| RouteProtocolRx | Off (*) | String |
| RSIPAvailable | 0 (*) | Boolean |
| TransportType | | String |

| Variable Name | Allowed Values (* == default) | Type |
|-------------------------------------|-------------------------------|--------------|
| UpstreamMaxBitRate | 0 (*) | ui4 |
| Uptime | 0 (*) | ui4 |
| UserName | | String |
| X_AVM-DE_DisconnectPreventionEnable | | Boolean |
| X_AVM-DE_DisconnectPreventionHour | | ui2 [0...23] |

Table 2.1: Variable list