

TR-064 Support – X_AVM-DE_WANFiber

Supported by AVM

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1 urn:X_AVM-DE_WANFiber-com:serviceId:X_AVM-DE_WANFiber1

For details please refer the TR-064 document at

https://www.broadband-forum.org/technical/download/TR-064_Corrigendum-1.pdf.

1.1 History

Date	Version	Changes
2023-08-30	1	Initial Version Added new Actions GetInfo, GetInfoGPON and GetStatistics with corresponding state variables

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2 Action List

This chapter contains the supported actions of the service X_AVM-DE_WANFiber which are listed incl. arguments.

2.1 GetInfo

Returns information about the optical device.

Required rights: App

Argument name	Direction	Related state variable	Remarks
NewOpticalSignalLevel	out	OpticalSignalLevel	
NewLowerOpticalThreshold	out	LowerOpticalThreshold	
NewUpperOpticalThreshold	out	UpperOpticalThreshold	
NewTransmitOpticalLevel	out	TransmitOpticalLevel	
NewLowerTransmitPowerThreshold	out	LowerTransmitPowerThreshold	
NewUpperTransmitPowerThreshold	out	UpperTransmitPowerThreshold	
NewSFPVendor	out	SFPVendor	
NewSFPPartNumber	out	SFPPartNumber	
NewSFPSerialNumber	out	SFPSerialNumber	
NewSFPTType	out	SFPTType	
NewTXWaveLength	out	TXWaveLength	
NewFiberMode	out	FiberMode	

Table 1: Argument list of action GetInfo

Return code	Description	Related argument
402	Invalid Args	No argument is expected
820	Internal Error	Something unexpected happend

Table 2: Return codes of action GetInfo

2.2 GetInfoGPON

Returns additional information about GPON

Required rights: App

Argument name	Direction	Related state variable	Remarks
NewGponSerial	out	GponSerial	
NewPONId	out	PONId	
NewONUID	out	ONUID	
NewUNIType	out	UNIType	
NewGEMPortCount	out	GEMPortCount	

Table 3: Argument list of action GetInfoGPON

Return code	Description	Related argument
401	Invalid Action	This action is only available on Fritz!Box, which support GPON
402	Invalid Args	No argument is expected
820	Internal Error	Something unexpected happend

Table 4: Return codes of action GetInfoGPON

2.3 GetStatistics

Returns the total fiber data statistics

Required rights: App

Argument name	Direction	Related state variable	Remarks
NewBytesSent	out	BytesSent	
NewBytesReceived	out	BytesReceived	
NewPacketsSent	out	PacketsSent	
NewPacketsReceived	out	PacketsReceived	
NewPacketErrorsSent	out	PacketErrorsSent	
NewPacketErrorsReceived	out	PacketErrorsReceived	
NewPacketsMulticast	out	PacketsMulticast	
NewConnectionRateDown	out	ConnectionRateDown	
NewConnectionRateUp	out	ConnectionRateUp	
NewBestTrainState	out	BestTrainState	
NewResyncs	out	Resyncs	
NewMinutesInShowtime	out	MinutesInShowtime	

Table 5: Argument list of action GetStatistics

Return code	Description	Related argument
402	Invalid Args	No argument is expected
820	Internal Error	Something unexpected happend

Table 6: Return codes of action GetStatistics

3 Service States Table

Variable name	Send events	Allowed values (* == default)	Data type	Date
BestTrainState	no	0(*)	ui4	2023-08-30
BytesReceived	no	0(*)	ui4	2023-08-30
BytesSent	no	0(*)	ui4	2023-08-30
ConnectionRateDown	no	0(*)	ui4	2023-08-30
ConnectionRateUp	no	0(*)	ui4	2023-08-30
FiberMode	no	AON, GPON, XGPON, XGSPON, 1000BASE_BX10, 10GBASE_BX, 1000BASE_T, 2.5GBASE_T, 10GBASE_T, Init, Unknown(*)	String	2023-08-30
GEMPortCount	no	0(*)	ui4	2023-08-30
GPONSerial	no		String	2023-08-30
LowerOpticalThreshold	no	0(*)	i4	2023-08-30
LowerTransmitPowerThreshold	no	0(*)	i4	2023-08-30
MinutesInShowtime	no	0(*)	ui4	2023-08-30
ONUId	no	0(*)	ui4	2023-08-30
OpticalSignalLevel	no	0(*)	i4	2023-08-30
PacketErrorsReceived	no	0(*)	ui4	2023-08-30
PacketErrorsSent	no	0(*)	ui4	2023-08-30
PacketsMulticast	no	0(*)	ui4	2023-08-30
PacketsReceived	no	0(*)	ui4	2023-08-30
PacketsSent	no	0(*)	ui4	2023-08-30
PONId	no		String	2023-08-30
Resyncs	no	0(*)	ui4	2023-08-30
SFPPartNumber	no		String	2023-08-30
SFPSerialNumber	no		String	2023-08-30
SFPType	no	0(*)	i4	2023-08-30
SFPVendor	no		String	2023-08-30
TransmitOpticalLevel	no	0(*)	i4	2023-08-30
TXWaveLength	no	0(*)	ui4	2023-08-30
UNIType	no	PPTP, VEIP, Unknown(*)	String	2023-08-30
UpperOpticalThreshold	no	0(*)	i4	2023-08-30
UpperTransmitPowerThreshold	no	0(*)	i4	2023-08-30

Table 7: Variable list

3.1 Value description

Variable name	Description
FiberMode	Current Fiber mode (AON, GPON, XGSPON,...)
LowerOpticalThreshold	Optical level that is used to declare the downstream low received optical power alarm in dBm/1000
LowerTransmitPowerThreshold	Minimum mean optical launch power that is used to declare the low transmit optical power alarm in dBm/1000
OpticalSignalLevel	Current measurement of total downstream optical signal level in dBm/1000
TransmitOpticalLevel	Current measurement of mean optical launch power in dBm/1000
UNIType	PPTP or VEIP
UpperOpticalThreshold	Optical level that is used to declare the downstream high received optical power alarm in dBm/1000
UpperTransmitPowerThreshold	Maximum mean optical launch power that is used to declare the high transmit optical power alarm in dBm/1000

Table 8: Description, values and unit for specific state variables