

TR-064 Support – WANDSLInterfaceConfig

Supported by AVM

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1 urn:WANDSLIfConfig-com:serviceId:WANDSLInterfaceConfig1

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

2 History

Date	Version	Changes
2018-03-14	7	Added new Action X_AVM-DE_GetDSLDiagnoseInfo and corresponding state variables.
2019-11-01	8	Added new Action X_AVM-DE_GetDSLInfo and corresponding state variables.

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3 Action List

This chapter contains the supported actions of the service WAN DSL interface configuration which are listed incl. arguments.

3.1 GetInfo

Argument name	Direction	Related state variable	Remarks
NewEnable	out	Enable	
NewStatus	out	Status	
NewDataPath	out	DataPath	
NewUpstreamCurrRate	out	UpstreamCurrRate	
NewDownstreamCurrRate	out	DownstreamCurrRate	
NewUpstreamMaxRate	out	UpstreamMaxRate	
NewDownstreamMaxRate	out	DownstreamMaxRate	
NewUpstreamNoiseMargin	out	UpstreamNoiseMargin	
NewDownstreamNoiseMargin	out	DownstreamNoiseMargin	
NewUpstreamAttenuation	out	UpstreamAttenuation	
NewDownstreamAttenuation	out	DownstreamAttenuation	
NewATURVendor	out	ATURVendor	
NewATURCountry	out	ATURCountry	Not supported. Returns '0'.
NewUpstreamPower	out	UpstreamPower	Not supported. Returns '0'.
NewDownstreamPower	out	DownstreamPower	Not supported. Returns '0'.

Table 1: Argument list of action GetInfo

3.2 GetStatisticsTotal

Argument name	Direction	Related state variable	Remarks
NewReceiveBlocks	out	Stats.Total.ReceiveBlocks	
NewTransmitBlocks	out	Stats.Total. TransmitBlocks	
NewCellDelin	out	Stats.Total. CellDelin	
NewLinkRetrain	out	Stats.Total. LinkRetrain	
NewInitErrors	out	Stats.Total. InitErrors	
NewInitTimeouts	out	Stats.Total. InitTimeouts	
NewLossOfFraming	out	Stats.Total.LossOfFraming	
NewErroredSecs	out	Stats.Total. ErroredSecs	
NewSeverelyErroredSecs	out	Stats.Total. SeverelyErroredSecs	
NewFECErrors	out	Stats.Total. FECErrors	
NewATUCFECErrors	out	Stats.Total.ATUCFECErrors	
NewHECErrors	out	Stats.Total. HECErrors	
NewATUCHECErrors	out	Stats.Total.ATUCHECErrors	
NewATUCCRCErrors	out	Stats.Total.ATUCCRCErrors	
NewCRCErrors	out	Stats.Total.CRCErrors	

Table 2: Argument list of action GetStatisticsTotal

3.3 X_AVM-DE_GetDSLDiagnoseInfo

Returns the state of a DSLDiagnose which is automatically started in IGD, when the DSLSync parameter is set to 0 for at least 300 s at DSLSignalLossTime. When DSLDiagnoseState is “DONE_CABLE_NOK” the CableNokDistance parameter shows the cable breakage location in meters. The DSLActive parameter is set to 1 when the CPE device is willing to initiate a sync DSL state.

Required rights: None

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_DSLDiagnoseState	out	X_AVM-DE_DSLDiagnoseState	
NewX_AVM-DE_CableNokDistance	out	X_AVM-DE_CableNokDistance	
NewX_AVM-DE_DSLLastDiagnoseTime	out	X_AVM-DE-DSLLastDiagnoseTime	
NewX_AVM-DE_DSLSignalLossTime	out	X_AVM-DE_DSLSignalLossTime	
NewX_AVM-DE_DSLSync	out	X_AVM-DE_DSLSync	

Table 3: Argument list of action X_AVM-DE_GetDSLDiagnoseInfo

Return code	Description	Related argument
401	Invalid action	Action not known to service
820	Internal error	

Table 4: Return codes of action X_AVM-DE_GetDSLDiagnoseInfo.

DSLDiagnose - State	CableNok - Distance	DSLlasts - DiagnoseTime	DSLSignal - LossTime	DSLActive	DSLsync	Description
NONE	-1	0	0	1	1	The DSL connection is ready for data traffic. The CPE has set DSL to Active and the DSL chip could sync to ISP destination device.
NONE	-1	0	$300 > x > 0$	1	0	The CPE Device has lost the sync state since DSLSignalLossTime (in seconds)
RUNNING	-1	0	$X > 300$	1	0	5 minutes passed since the last DSLsync =1, the CPE device is now instantiating a cable cut measurement. While the diagnose is running the DSLDiagnoseState is set to „RUNNING“
NO_CALIB	-1	0	$X > 300$	1	0	The CPE has tried to start a cable cut measurement, but could not initiate the measurement. Therefore no calibration has passed.
DONE_CABLE_OK	-1	$X > 0$	$X > 300$	1	0	The cable cut measurement is finished and no cable cut could be detected.
DONE_CABLE_NOK	$X \geq 0$	$X > 0$	$X > 300$	1	0	The cable cut measurement is finished and a problem with the cable connection could be detected at CableNokDistance (meters)
DONE_CABLE_NOK	-1	$X > 0$	$X > 300$	1	0	The measurement for cable cut is finished but the distance could not be detected or is too inaccurate
NONE	-1	$X > 0$	0	1	1	When the DSL signal is sync again, all values will be set to default values. Except the DSLLastDiagnoseTime which remains at the value of time in seconds between the last measurement and the resync.

Table 5: Explanation table of the parameter values in different states of the X_AVM-DE_GetDSLDiagnoseInfo.

3.4 X_AVM-DE_GetDSLInfo

Returns more DSL information than the GetInfo action.

Required rights: None

Argument name	Direction	Related state variable	Remarks
NewSNRGds	out	SNRGds	
NewSNRGus	out	SNRGus	Always returns 1
NewSNRpsds	out	SNRpsds	
NewSNRpsus	out	SNRpsus	
NewSNRMTds	out	SNRMTds	
NewSNRMTus	out	SNRMTus	
NewLATNds	out	LATNds	
NewLATNus	out	LATNus	
NewFECErrors	out	Stats.Total.FECErrors	
NewCRCErrors	out	Stats.Total.CRCErrors	
NewLinkStatus	out	LinkStatus	
NewModulationType	out	ModulationType	
NewCurrentProfile	out	CurrentProfile	
NewUpstreamCurrRate	out	UpstreamCurrRate	
NewDownstreamCurrRate	out	DownstreamCurrRate	
NewUpstreamMaxRate	out	UpstreamMaxRate	
NewDownstreamMaxRate	out	DownstreamMaxRate	
NewUpstreamNoiseMargin	out	UpstreamNoiseMargin	
NewDownstreamNoiseMargin	out	DownstreamNoiseMargin	
NewUpstreamAttenuation	out	UpstreamAttenuation	
NewDownstreamAttenuation	out	DownstreamAttenuation	
NewATURVendor	out	ATURVendor	
NewATURCountry	out	ATURCountry	
NewUpstreamPower	out	UpstreamPower	
NewDownstreamPower	out	DownstreamPower	

Table 6: Argument list of action X_AVM-DE_GetDSLInfo

Return code	Description	Related argument
402	Invalid Arguments	
820	Internal error	

Table 7: Return codes of action X_AVM-DE_GetDSLInfo.

4 Service States Table

Variable name	Send events	Allowed values (* == default)	Data type
Enable	no		boolean
Status	no		string
DataPath	no		string
UpstreamCurrRate	no		i4
DownstreamCurrRate	no		ui4
UpstreamMaxRate	no		ui4
DownstreamMaxRate	no		ui4
UpstreamNoiseMargin	no		ui4
DownstreamNoiseMargin	no		ui4
UpstreamAttenuation	no		ui4
DownstreamAttenuation	no		ui4
ATURVendor	no		string
ATURCountry	no		string
UpstreamPower	no		ui2
DownstreamPower	no		ui2
Stats.Total.ReceiveBlocks	no		ui4
Stats.Total.TransmitBlocks	no		ui4
Stats.Total.CellDelin	no		ui4
Stats.Total.LinkRetrain	no		ui4
Stats.Total.InitErrors	no		ui4
Stats.Total.InitTimeouts	no		ui4
Stats.Total.LossOfFraming	no		ui4
Stats.Total.ErrorSecs	no		ui4
Stats.Total.SeverelyErroredSecs	no		ui4
Stats.Total.FECErrors	no		ui4
Stats.Total.ATUCFECErrors	no		ui4

Variable name	Send events	Allowed values (* == default)	Data type
Stats.Total.HECErrors	no		ui4
Stats.Total.ATUCHECErrors	no		ui4
Stats.Total.CRCErrors	no		ui4
Stats.Total.ATUCCRCErrors	no		ui4
X_AVM-DE_DSLSigagnoseState	no	NONE, NO_CALIB, RUNNING, DONE, DONE_CABLE_NOK, DONE_CABLE_OK	string
X_AVM-DE_CableNokDistance	no	-1	i4
X_AVM-DE_DSLLastDiagnoseTime	no	0	ui4
X_AVM-DE_DSLSignalLossTime	no	0	ui4
X_AVM-DE_DSLSync	no	0	boolean
SNRGds	no	1	ui4
SNRGus	no	1	ui4
SNRpsds	no		string
SNRpsus	no		string
SNRMTds	no	0	ui4
SNRMTus	no	0	ui4
LATNds	no		string
LATNus	no		string
ModulationType	no	ADSL G.lite, G.shdsl, IDSL, HDSL, SDSL, VDSL	string
LinkStatus	no	Up, Down, Initializing, Unavailable	string
CurrentProfile	no		string

Table 8: Variable list