

TR-064 Support – DeviceConfig

Supported by AVM

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urn:DeviceConfig-com:serviceId:DeviceConfig1

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

1 History

Date	Version	Changes
2010-05-10	3	Initial public version.
2011-12-05	4	New action X_AVM-DE_CreateUrlSID
2012-11-06	5	X_AVM-DE_SetConfigFile: Changed support for authentication.
2013-01-23	6	Updated link to TR-064 document.
2021-01-20	7	New actions X_AVM-DE_SendSupportData() and X_AVM-DE_GetSupportDataInfo()
2021-09-27	8	Added new action X_AVM-DE_SetSupportDataEnable() Added new parameter X_AVM-DE_SupportDataEnabled Added new allowed value "blocked" for X_AVM-DE_SupportDataStatus
2021-11-25	9	Added new action X_AVM-DE_GetSupportDataEnable()
2022-02-16	10	Added required rights for actions

2 Action List

This chapter contains the supported actions of the service Device Configuration which are listed incl. arguments.

2.1 GetPersistentData

Argument name	Direction	Related state variable	Remarks
NewPersistentData	out	PersistentData	

Table 1: Argument list of action GetPersistentData

2.2 SetPersistentData

Argument name	Direction	Related state variable	Remarks
NewPersistentData	in	PersistentData	Shall not be empty.

Table 2: Argument list of action SetPersistentData

2.3 ConfigurationStarted

Argument name	Direction	Related state variable	Remarks
NewSessionID	in	A_ARG_TYPE_UUID	

Table 3: Argument list of action ConfigurationStarted

2.4 ConfigurationFinished

Argument name	Direction	Related state variable	Remarks
NewStatus	out	A_ARG_TYPE_Status	

Table 4: Argument list of action ConfigurationFinished

2.5 FactoryReset

No arguments.

2.6 Reboot

No arguments.

2.7 X_GenerateUUID

Argument name	Direction	Related state variable	Remarks
NewUUID	out	UUID	

Table 5: Argument list of action X_GenerateUUID

2.8 X_AVM-DE_GetConfigFile

The action uses the given password to offer an encrypted password file to be downloaded at the given URL.

The URL is secured by SSL (https://) using the TR-064 SSL certificate.

The URL is secured by Digest authorization using the currently active username and password of the TR-064 service.

The URL is valid for less than 30 seconds.

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_Password	in	X_AVM-DE_Password	
NewX_AVM-DE_ConfigFileUrl	out	X_AVM-DE_ConfigFileUrl	

Table 6: Argument list of action X_AVM-DE_GetConfigFile

2.9 X_AVM-DE_SetConfigFile

The action needs both arguments. The password can be empty.

The URL shall use http or https protocol. The URL shall not be secured by Basic or Digest authorization.

The URL shall be accessible when the action is called. The URL may have the following format:

http[s]://subdomain.domain.country[:port][/resource]

e.g. http://192.168.178.123:12345/ABCDEF or

https://192.168.178.123:23456 or

http://192.168.178.123/cfg.export

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_Password	in	X_AVM-DE_Password	
NewX_AVM-DE_ConfigFileUrl	in	X_AVM-DE_ConfigFileUrl	

Table 7: Argument list of action X_AVM-DE_SetConfigFile

2.10 X_AVM-DE_CreateUrlSID

Generate a temporary URL session ID. The session ID is need for accessing URLs like phone book, call list, FAX message, answering machine messages or phone book images.

Required rights: App, Phone, NAS or Homeauto

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_UrlSID	out	X_AVM-DE_UrlSID	

Table 8: Argument list of action X_AVM-DE_CreateUrlSID

2.11 X_AVM-DE_GetSupportDataInfo

Returns information about the current / last support data process. ID, timestamp, mode and status always belongs to a process. The ID is required for AVM support to process customer inquiries. The mode describes whether the support data is only created for this device or the complete mesh system. Status shows in which step the current process is. The normal flow "preparing" (2-3 sec.) -> "creating" (2-3min.) -> "ok"/"error". It usually takes 2 to 3 minutes. In the worst case, up to 15 minutes.

Required rights: App, Dial, Phone, NAS or Homeauto

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_SupportDataMode	out	X_AVM-DE_SupportDataMode	
NewX_AVM-DE_SupportDataID	out	X_AVM-DE_SupportDataID	
NewX_AVM-DE_SupportDataTimestamp	out	X_AVM-DE_SupportDataTimestamp	
NewX_AVM-DE_SupportDataStatus	out	X_AVM-DE_SupportDataStatus	
NewX_AVM-DE_SupportDataEnabled	out	X_AVM-DE_SupportDataEnabled	

Table 9: Argument list of action X_AVM-DE_GetSupportDataInfo

Return code	Description	Related argument
820	Internal Error	
402	Invalid args	

Table 10: Return codes of action X_AVM-DE_GetSupportDataInfo

2.12 X_AVM-DE_SendSupportData

Initiate the creation of support data that will be sent to AVM support.

The X_AVM-DE_SupportDataMode parameter can be set to "normal" in order to send the support data from this device. If it's necessary to send the support data from the complete mesh system set the mode to "mesh". If the mode "mesh" is not supported by the device the "normal" support data will be sent. Only one Support Data process is allowed to run. Before request this action check the status value (see 2.11 X_AVM-DE_GetSupportDataInfo). If the status value is "ok", "error" or "unknown" this action can be requested. Otherwise TR-064 error code 600 will be returned.

Required rights: App, Dial, Phone, NAS or Homeauto

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_SupportDataMode	in	X_AVM-DE_SupportDataMode	

Table 11: Argument list of action X_AVM-DE_SendSupportData

Return code	Description	Related argument
820	Internal Error	
402	Invalid Args	
600	Argument Value invalid	

Table 12: Return codes of action X_AVM-DE_SendSupportData

2.13 X_AVM-DE_GetSupportDataEnable

Returns if support data can be sent to AVM support. This action does not need authentication.

Required rights: None

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_SupportDataEnabled	out	X_AVM-DE_SupportDataEnabled	

Table 13: Argument list of action X_AVM-DE_GetSupportDataEnable

Return code	Description	Related argument
820	Internal Error	
402	Invalid Args	
600	Argument Value invalid	

Table 14: Return codes of action X_AVM-DE_GetSupportDataEnable

2.14 X_AVM-DE_SetSupportDataEnable

Enables “1” or disables “0” the possibility to send support data to AVM support.

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_SupportDataEnabled	in	X_AVM-DE_SupportDataEnabled	

Table 15: Argument list of action X_AVM-DE_SetSupportDataEnable

Return code	Description	Related argument
820	Internal Error	
402	Invalid Args	
600	Argument Value invalid	

Table 16: Return codes of action X_AVM-DE_SetSupportDataEnable

3 Service States Table

Variable name	Allowed values (* == default)	Data type
PersistentData		String
A_ARG_TYPE_UUID		String
A_ARG_TYPE_Status		String
UUID		uuid
X_AVM-DE_ConfigFileUrl		String
X_AVM-DE_Password		String
X_AVM-DE_SupportDataEnabled		Boolean
X_AVM-DE_SupportDataID		String
X_AVM-DE_SupportDataMode	“normal”, “mesh”, “unknown”	String
X_AVM-DE_SupportDataTimestamp	0001-01-01T00:00:00	dateTime
X_AVM-DE_SupportDataStatus	“unknown”, “blocked”, “ok”, “preparing”, “error”, “creating”	String
X_AVM-DE_UrlSID		String

Table 17: Variable list