

# TR-064 Support – X\_VoIP

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## 1 urn:X\_VoIP-com:serviceld:X\_VoIP1

For details please refer the SCPD files on the device.

### 1.1 History

Date	Version	Changes
2018-01-12	63	A new action X_AVM-DE_SetDelayedCallNotification and Statevariable NewX_AVM-DE_DelayedCallNotification are added.
2018-01-29	64	New actions X_AVM-DE_SetVoIPCommonCountryCode and X_AVM-DE_SetVoIPCommonAreaCode are added and are recommended to use. The old actions SetVoIPCommonCountryCode and CommonAreaCode are deprecated but still existing. Furthermore the corresponding X_AVM-DE_Get*-Actions are added.
2019-08-14	65	Added actions X_AVM-DE_GetAlarmClock, X_AVM-DE_GetNumberOfAlarmClocks, X_AVM-DE_SetAlarmClockEnable. Added corresponding StateVariables X_AVM-DE_AlarmClockPhoneNumber, X_AVM-DE_AlarmClockTime, X_AVM-DE_AlarmClockWeekdays, X_AVM-DE_AlarmClockName, X_AVM-DE_AlarmClockEnable, X_AVM-DE_NumberOfAlarmClocks. Added the Table of Contents and deleted some history rows. X_AVM-DE_PhoneName possible value has changed from "ISDN und Schnurlosetelefone" to "ISDN: ISDN/DECT Rundruf".
2021-07-06	66	Added action X_AVM-DE_GetVoIPStatus Added parameter X_AVM-DE_VoIPStatus with allowed values
2021-11-12	67	Added action X_AVM-DE_GetVoIPAccounts with state variable X_AVM-DE_VoIPAccountList Added X_AVM-DE_VoIPStatus for action X_AVM-DE_GetVoIPAccount X_AVM-DE_VoIPStatus return value table
2021-11-22	68	Added VoIPAccountIndex to xml-formatted list of X_AVM-DE_VoIPAccountList
2022-02-14	69	Added required rights for actions
2025-06-12	70	Added error codes for X_AVM-DE_SetClient, X_AVM-DE_SetClient2, X_AVM-DE_SetClient3 and X_AVM-DE_SetClient4
2025-08-08	71	Changed AVM to FRITZ!

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## 2 Action List

This chapter contains the supported actions of the service x\_voip which are listed incl. arguments.

### 2.1 GetInfo

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewFaxT38Enable	out	FaxT38Enable	
NewVoiceCoding	out	VoiceCoding	

Table 1: Argument list of action GetInfo

### 2.2 GetInfoEx

Required rights: Phone

Argument name	Direction	Related state variable
NewVoIPNumberMinChars	out	VoIPNumberMinChars
NewVoIPNumberMaxChars	out	VoIPNumberMaxChars
NewVoIPNumberAllowedChars	out	VoIPNumberAllowedChars
NewVoIPUsernameMinChars	out	VoIPUsernameMinChars
NewVoIPUsernameMaxChars	out	VoIPUsernameMaxChars
NewVoIPUsernameAllowedChars	out	VoIPUsernameAllowedChars
NewVoIPPasswordMinChars	out	VoIPPasswordMinChars
NewVoIPPasswordMaxChars	out	VoIPPasswordMaxChars
NewVoIPPasswordAllowedChars	out	VoIPPasswordAllowedChars
NewVoIPRegistrarMinChars	out	VoIPRegistrarMinChars
NewVoIPRegistrarMaxChars	out	VoIPRegistrarMaxChars
NewVoIPRegistrarAllowedChars	out	VoIPRegistrarAllowedChars
NewVoIPSTUNServerMinChars	out	VoIPSTUNServerMinChars
NewVoIPSTUNServerMaxChars	out	VoIPSTUNServerMaxChars
NewVoIPSTUNServerAllowedChars	out	VoIPSTUNServerAllowedChars
NewX_AVM-DE_ClientUsernameMinChars	out	X_AVM-DE_ClientUsernameMinChars
NewX_AVM-DE_ClientUsernameMaxChars	out	X_AVM-DE_ClientUsernameMaxChars
NewX_AVM-DE_ClientUsernameAllowedChars	out	X_AVM-DE_ClientUsernameAllowedChars
NewX_AVM-DE_ClientPasswordMinChars	out	X_AVM-DE_ClientPasswordMinChars
NewX_AVM-DE_ClientPasswordMaxChars	out	X_AVM-DE_ClientPasswordMaxChars
NewX_AVM-DE_ClientPasswordAllowedChars	out	X_AVM-DE_ClientPasswordAllowedChars

Table 2: Argument list of action GetInfoEx

## 2.3 GetExistingVoIPNumbers

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewExistingVoIPNumbers	out	ExistingVoIPNumbers	2010-02-03

Table 3: Argument list of action GetExistingVoIPNumbers

## 2.4 GetMaxVoIPNumbers

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewMaxVoIPNumbers	out	MaxVoIPNumbers	2010-02-03

Table 4: Argument list of action GetMaxVoIPNumbers

## 2.5 GetVoIPCommonAreaCode

This action is deprecated. Please use [2.39 X\\_AVM-DE\\_SetVoIPCommonAreaCode](#) instead.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAreaCode	out	VoIPAreaCode	

Table 5: Argument list of action GetVoIPCommonAreaCode

## 2.6 GetVoIPEnableAreaCode

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAccountIndex	in	VoIPAccountIndex	
NewVoIPEnableAreaCode	out	VoIPEnableAreaCode	

Table 6: Argument list of action GetVoIPEnableAreaCode

## 2.7 SetVoIPEnableAreaCode

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAccountIndex	in	VoIPAccountIndex	
NewVoIPEnableAreaCode	in	VoIPEnableAreaCode	

Table 7: Argument list of action SetVoIPEnableAreaCode

## 2.8 SetVoIPCommonAreaCode

This action is deprecated. Please use [2.38 X\\_AVM-DE\\_SetVoIPCommonAreaCode](#) instead.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAreaCode	in	VoIPAreaCode	

Table 8: Argument list of action SetVoIPCommonAreaCode

## 2.9 GetVoIPCommonCountryCode

This action is deprecated. Please use [2.37 X\\_AVM-DE\\_SetVoIPCommonCountryCode](#) instead.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPCountryCode	out	VoIPCountryCode	

Table 9: Argument list of action GetVoIPCommonCountryCode

## 2.10 GetVoIPEnableCountryCode

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAccountIndex	in	VoIPAccountIndex	
NewVoIPEnableCountryCode	out	VoIPEnableCountryCode	

Table 10: Argument list of action GetVoIPEnableCountryCode

## 2.11 SetConfig

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewT38FaxEnable	in	T38FaxEnable	
NewVoiceCoding	in	VoiceCoding	

Table 11: Argument list of action SetConfig

## 2.12 SetVoIPCommonCountryCode

This action is deprecated. Please use [2.36 X\\_AVM-DE\\_SetVoIPCommonCountryCode](#) instead.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPCountryCode	in	VoIPCountryCode	

Table 12: Argument list of action SetVoIPCommonCountryCode

## 2.13 SetVoIPEnableCountryCode

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAccountIndex	in	VoIPAccountIndex	
NewVoIPEnableCountryCode	in	VoIPEnableCountryCode	

Table 13: Argument list of action SetVoIPEnableCountryCode

## **2.14 X\_AVM-DE\_AddVoIPAccount**

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAccountIndex	in	VoIPAccountIndex	
NewVoIPRegistrar	in	VoIPRegistrar	
NewVoIPNumber	in	VoIPNumber	
NewVoIPUsername	in	VoIPUsername	
NewVoIPPassword	in	VoIPPassword	
NewVoPOutboundProxy	in	VoPOutboundProxy	
NewVoPSTUNServer	in	VoPSTUNServer	

Table 14: Argument list of action X\_AVM-DE\_AddVoIPAccount

## **2.15 X\_AVM-DE\_DeleteClient**

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	2010-02-03

Table 15: Argument list of action X\_AVM-DE\_ClientIndex

## **2.16 X\_AVM-DE\_DelVoIPAccount**

The action can be used to delete an existing VoIP entry.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAccountIndex	in	VoIPAccountIndex	

Table 16: Argument list of action X\_AVM-DE\_DelVoIPAccount

## **2.17 X\_AVM-DE\_DialGetConfig**

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_PhoneName	out	X_AVM-DE_PhoneName	2010-04-08, Version 12.02.09

Table 17: Argument list of action X\_AVM-DE\_DialGetConfig

## **2.18 X\_AVM-DE\_DialHangup**

Disconnect the dialling process.

Required rights: Phone

## **2.19 X\_AVM-DE\_DialNumber**

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_PhoneNumber	in	X_AVM-DE_PhoneNumber	2010-04-08, Version 12.02.09

Table 18: Argument list of action X\_AVM-DE\_DialNumber

## **2.20 X\_AVM-DE\_DialSetConfig**

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_PhoneName	in	X_AVM-DE_PhoneName	2010-04-08, Version 12.02.09

Table 19: Argument list of action X\_AVM-DE\_DialSetConfig

## **2.21 X\_AVM-DE\_GetNumberOfClients**

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_NumberOfClients	out	X_AVM-DE_NumberOfClients	2010-02-03

Table 20: Argument list of action X\_AVM-DE\_GetNumberOfClients

## **2.22 X\_AVM-DE\_GetClient**

This action is obsolete: use X\_AVM-DE\_GetClient2 instead. 2010-09-10

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	2010-02-03
NewX_AVM-DE_ClientUsername	out	X_AVM-DE_ClientUsername	2010-02-03
NewX_AVM-DE_ClientRegistrar	out	X_AVM-DE_ClientRegistrar	2010-02-03
NewX_AVM-DE_ClientRegistrarPort	out	X_AVM-DE_ClientRegistrarPort	2015-11-20
NewX_AVM-DE_PhoneName	out	X_AVM-DE_PhoneName	2010-02-03
NewX_AVM-DE_OutGoingNumber	out	X_AVM-DE_OutGoingNumber	2010-02-03

Table 21: Argument list of action X\_AVM-DE\_GetClient

## 2.23 X\_AVM-DE\_GetClient2

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	2010-02-03
NewX_AVM-DE_ClientUsername	out	X_AVM-DE_ClientUsername	2010-02-03
NewX_AVM-DE_ClientRegistrar	out	X_AVM-DE_ClientRegistrar	2010-02-03
NewX_AVM-DE_ClientRegistrarPort	out	X_AVM-DE_ClientRegistrarPort	2015-11-20
NewX_AVM-DE_PhoneName	out	X_AVM-DE_PhoneName	2010-02-03
NewX_AVM-DE_ClientId	out	X_AVM-DE_ClientId	2010-09-10
NewX_AVM-DE_OutGoingNumber	out	X_AVM-DE_OutGoingNumber	2010-02-03
NewX_AVM-DE_InternalNumber	out	X_AVM-DE_InternalNumber	

Table 22: Argument list of action X\_AVM-DE\_GetClient2

## 2.24 X\_AVM-DE\_GetClient3

Return SIP Client account with incoming numbers and allow registration from outside flag.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	
NewX_AVM-DE_ClientUsername	out	X_AVM-DE_ClientUsername	
NewX_AVM-DE_ClientRegistrar	out	X_AVM-DE_ClientRegistrar	
NewX_AVM-DE_ClientRegistrarPort	out	X_AVM-DE_ClientRegistrarPort	2015-11-20
NewX_AVM-DE_PhoneName	out	X_AVM-DE_PhoneName	
NewX_AVM-DE_ClientId	out	X_AVM-DE_ClientId	
NewX_AVM-DE_OutGoingNumber	out	X_AVM-DE_OutGoingNumber	
NewX_AVM-DE_InComingNumbers	out	X_AVM-DE_InComingNumbers	
NewX_AVM-DE_ExternalRegistration	out	X_AVM-DE_ExternalRegistration	
NewX_AVM-DE_InternalNumber	out	X_AVM-DE_InternalNumber	
NewX_AVM-DE_DelayedCallNotification	out	X_AVM-DE_SetDelayedCallNotification	

Table 23: Argument list of action X\_AVM-DE\_GetClient3

The format of the state variable X\_AVM-DE\_IncomingNumbers is similar to the state variable X\_AVM-DE\_Numbers described in the paragraph X\_AVM-DE\_GetNumbers (below).

If the SIP client shall react on all possible numbers the Type is set to eAllCalls.

## 2.25 X\_AVM-DE\_GetClientByClientId

Return SIP Client account with incoming numbers and allow registration from outside flag.

The input parameter ClientId has to be at least 1 character long and a substring of the actual ClientId (case sensitive). The response contains the information about the client, whose ClientId string contains the input parameter. Even when it is a substring. E.g. the string "le" returns "apple" from the following ClientId List: [0] : "melon" ; [1] "apple" ; [2] "lemon".

Required right: App or Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientId	in	X_AVM-DE_ClientId	
NewX_AVM-DE_ClientId	out	X_AVM-DE_ClientId	
NewX_AVM-DE_ClientIndex	out	X_AVM-DE_ClientIndex	
NewX_AVM-DE_ClientUsername	out	X_AVM-DE_ClientUsername	
NewX_AVM-DE_ClientRegistrar	out	X_AVM-DE_ClientRegistrar	
NewX_AVM-DE_ClientRegistrarPort	out	X_AVM-DE_ClientRegistrarPort	
NewX_AVM-DE_PhoneName	out	X_AVM-DE_PhoneName	
NewX_AVM-DE_OutGoingNumber	out	X_AVM-DE_OutGoingNumber	
NewX_AVM-DE_InComingNumbers	out	X_AVM-DE_InComingNumbers	
NewX_AVM-DE_ExternalRegistration	out	X_AVM-DE_ExternalRegistration	
NewX_AVM-DE_InternalNumber	out	X_AVM-DE_InternalNumber	
NewX_AVM-DE_DelayedCallNotification	out	X_AVM-DE_DelayedCallNotification	

Table 24: Argument list of action X\_AVM-DE\_GetClientByClientId

The format of the state variable X\_AVM-DE\_IncomingNumbers is similar to the state variable X\_AVM-DE\_Numbers described in the paragraph X\_AVM-DE\_GetNumbers (below).

If the SIP client shall react on all possible numbers the Type is set to eAllCalls.

Return code	Description	Related argument
714	NoSuchEntryInArray	X_AVM-DE_ClientId
402	InvalidArgs	X_AVM-DE_ClientId

Table 25: Return codes of action X\_AVM-DE\_GetClientByClientId

## 2.26 X\_AVM-DE\_GetClients

Return a list of all SIP client accounts.

Required rights: Phone

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

Table 26: Argument list of action X\_AVM-DE\_GetClients

The list contains all configured SIP client accounts a XML list.

```

<X_AVM-DE_ClientList>
<List>
    <Item>
        <X_AVM-DE_ClientIndex>0</X_AVM-DE_ClientIndex>
        <X_AVM-DE_ClientUsername>620</X_AVM-DE_ClientUsername>
        <X_AVM-DE_ClientRegistrar>192.168.178.1</X_AVM-DE_ClientRegistrar>
        <X_AVM-DE_PhoneName>My Iphone SIP Client</X_AVM-DE_PhoneName>
        <X_AVM-DE_ClientId>xfffggab</X_AVM-DE_ClientId>
        <X_AVM-DE_OutGoingNumber>0123</X_AVM-DE_OutGoingNumber>
        <X_AVM-DE_InComingNumbers>
            <Item>
                <Number>0123</Number>
                <Type>eISDN</Type>
                <Index>0</Index>
                <Name>ISDN1</Name>
            </Item>
            <Item>
                <Number>456789</Number>
                <Type>eISDN</Type>
                <Index>1</Index>
                <Name>ISDN1</Name>
            </Item>
        </X_AVM-DE_InComingNumbers>
        <X_AVM-DE_ExternalRegistration>0</X_AVM-DE_ExternalRegistration>
        <X_AVM-DE_InternalNumber>620</X_AVM-DE_InternalNumber>
        <X_AVM-DE_DelayedCallNotification>0</X_AVM-DE_DelayedCallNotification>
    </Item>
    ...
</List>
</X_AVM-DE_ClientList>

```

## 2.27 X\_AVM-DE\_GetNumberOfNumbers

Return amount of telephone numbers usable as incoming number.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewNumberOfNumbers	out	NumberOfNumbers	

Table 27: Argument list of action X\_AVM-DE\_GetNumberOfNumbers

## 2.28 X\_AVM-DE\_GetNumbers

Return a list of all telephone numbers.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewNumberList	out	NumberList	

Table 28: Argument list of action X\_AVM-DE\_GetNumbers

The list contains all configured numbers for all number types. The index can be used to see how many numbers are configured for one type.

```
<List>
  <Item>
    <Number>0123456</Number>
    <Type>eVoIP</Type>
    <Index>0</Index>
    <Name>VoiceOverIP1</Name>
  </Item>
  <Item>
    <Number>456789</Number>
    <Type>eISDN</Type>
    <Index>0</Index>
    <Name>ISDN1</Name>
  </Item>
</List>
```

Numbers to be returned:

- ISDN
- VoIP
- GSM
- POTS
- no number

The used values for Type are:

- eAllCalls
- eGSM
- eISDN
- eNone
- ePOTS
- eVoIP

## ***2.29 X\_AVM-DE\_GetPhonePort***

Return phone name by index (1 ... n) usable for X\_AVM-DE\_SetDialConfig.

Usable phone ports are:

- analog phone ports,
- ISDN phones,
- DECT phones.

SIP IP phones are not usable for X\_AVM-DE\_SetDialConfig.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewIndex	in	Index	2010-04-08, Version 12.02.09
NewX_AVM-DE_PhoneName	out	X_AVM-DE_PhoneName	2010-04-08, Version 12.02.09

Table 29: Argument list of action X\_AVM-DE\_GetPhonePort

## ***2.30 X\_AVM-DE\_GetVoIPAccount***

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAccountIndex	in	VoIPAccountIndex	
NewVoIPRegistrar	out	VoIPRegistrar	
NewVoIPNumber	out	VoIPNumber	
NewVoIPUsername	out	VoIPUsername	
NewVoIPOutboundProxy	out	VoIPOutboundProxy	
NewVoIPSTUNServer	out	VoIPSTUNServer	
NewX_AVM-DE_VoIPStatus	out	X_AVM-DE_VoIPStatus	

Table 30: Argument list of action X\_AVM-DE\_GetVoIPAccount

## 2.31 X\_AVM-DE\_GetVoIPAccounts

Required rights: App or Phone

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

Table 31: Argument list of action X\_AVM-DE\_GetVoIPAccounts

The list contains all VoIP accounts as XML-formatted list.

```
<X_AVM-DE_VoIPAccountList>
<AccountList>
  <Account>
    <VoIPAccountIndex>0</VoIPAccountIndex>
    <VoIPRegistrar>Test</VoIPRegistrar>
    <VoIPNumber>+490123456789</VoIPNumber>
    <VoIPUsername>TestUser</VoIPUsername>
    <VoIPOutboundProxy>tel.example.com</VoIPOutboundProxy>
    <VoIPSTUNServer>stun.example.com</VoIPSTUNServer>
    <X_AVM-DE_VoIPStatus>connected</X_AVM-DE_VoIPStatus>
  </Account>
  ...
</AccountList>
</X_AVM-DE_VoIPAccountList>
```

## 2.32 X\_AVM-DE\_GetVoIPStatus

The action can be used to get the status of an existing VoIP entry.

Required rights: App or Phone

Argument name	Direction	Related state variable	Remarks
NewVoIPAccountIndex	in	VoIPAccountIndex	
NewX_AVM-DE_VoIPStatus	out	X_AVM-DE_VoIPStatus	

Table 32: Argument list of action X\_AVM-DE\_GetVoIPStatus

## 2.33 X\_AVM-DE\_SetClient

This action is obsolete: use X\_AVM-DE\_SetClient2 instead. 2010-09-10

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	2010-02-03
NewX_AVM-DE_ClientPassword	in	X_AVM-DE_ClientPassword	2010-02-03
NewX_AVM-DE_PhoneName	in	X_AVM-DE_PhoneName	2010-02-03
NewX_AVM-DE_OutGoingNumber	in	X_AVM-DE_OutGoingNumber	2010-02-03

Table 33: Argument list of action X\_AVM-DE\_SetClient

Return code	Description	Related argument
402	Invalid Args	Invalid argument names or numbers

Return code	Description	Related argument
820	Internal error	Unable to fetch at least one of the information.
866	Second factor authentication required	To create an USP controller you need to do a second factor authentication
867	second factor authentication blocked	
868	second factor authentication busy	

Table 34: Return codes of action X\_AVM-DE\_SetClient

## 2.34 X\_AVM-DE\_SetClient2

Create a SIP client account or overwrite it when the X\_AVM-DE\_ClientIndex is already in use.

When the action is called with app instance credentials and the parameter NewX\_AVM-DE\_ClientId is set, an internal link between the created SIP client and app instance is created. Therefore when the app instance is deleted, the SIP client is deleted too.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	2010-02-03
NewX_AVM-DE_ClientPassword	in	X_AVM-DE_ClientPassword	2010-02-03
NewX_AVM-DE_PhoneName	in	X_AVM-DE_PhoneName	2010-02-03
NewX_AVM-DE_ClientId	in	X_AVM-DE_ClientId	2010-09-10
NewX_AVM-DE_OutGoingNumber	in	X_AVM-DE_OutGoingNumber	2010-02-03

Table 35: Argument list of action X\_AVM-DE\_SetClient2

Return code	Description	Related argument
402	Invalid Args	Invalid argument names or numbers
820	Internal error	Unable to fetch at least one of the information.
866	Second factor authentication required	To create an USP controller you need to do a second factor authentication
867	second factor authentication blocked	
868	second factor authentication busy	

Table 36: Return codes of action X\_AVM-DE\_SetClient2

## 2.35 X\_AVM-DE\_SetClient3

Create a SIP client account with incoming numbers and allow registration from outside flag or overwrites it when the X\_AVM-DE\_ClientIndex is already in use. When the action is called with app instance credentials and the parameter NewX\_AVM-DE\_ClientId is set, an internal link between the created SIP client and app instance is created. Therefore when the app instance is deleted, the SIP client is deleted too.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	
NewX_AVM-DE_ClientPassword	in	X_AVM-DE_ClientPassword	
NewX_AVM-DE_PhoneName	in	X_AVM-DE_PhoneName	
NewX_AVM-DE_ClientId	in	X_AVM-DE_ClientId	
NewX_AVM-DE_OutGoingNumber	in	X_AVM-DE_OutGoingNumber	
NewX_AVM-DE_InComingNumbers	in	X_AVM-DE_InComingNumbers	
NewX_AVM-DE_ExternalRegistration	in	X_AVM-DE_ExternalRegistration	Value ignored 2015-10-22

Table 37: Argument list of action X\_AVM-DE\_SetClient3

Return code	Description	Related argument
402	Invalid Args	Invalid argument names or numbers
820	Internal error	Unable to fetch at least one of the information.
866	Second factor authentication required	To create an USP controller you need to do a second factor authentication
867	second factor authentication blocked	
868	second factor authentication busy	

Table 38: Return codes of action X\_AVM-DE\_SetClient3

The format of the state variable X\_AVM-DE\_IncomingNumbers is similar to the state variable X\_AVM-DE\_Numbers described in the paragraph X\_AVM-DE\_GetNumbers (above).

If the value for X\_AVM-DE\_IncomingNumbers is empty, the SIP client has to ring for all incoming numbers.

## 2.36 X\_AVM-DE\_SetClient4

Create a SIP client account with incoming numbers and client username or overwrites it when the X\_AVM-DE\_ClientIndex is already in use. When the action is called with app instance credentials and the parameter NewX\_AVM-DE\_ClientId is set, an internal link between the created SIP client and app instance is created. Therefore when the app instance is deleted, the SIP client is deleted too.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	
NewX_AVM-DE_ClientPassword	in	X_AVM-DE_ClientPassword	
NewX_AVM-DE_ClientUsername	in	X_AVM-DE_ClientUsername	
NewX_AVM-DE_PhoneName	in	X_AVM-DE_PhoneName	
NewX_AVM-DE_ClientId	in	X_AVM-DE_ClientId	
NewX_AVM-DE_OutGoingNumber	in	X_AVM-DE_OutGoingNumber	
NewX_AVM-DE_InComingNumbers	in	X_AVM-DE_InComingNumbers	
NewX_AVM-DE_InternalNumber	out	X_AVM-DE_InternalNumber	

Table 39: Argument list of action X\_AVM-DE\_SetClient4

Return code	Description	Related argument
402	Invalid Args	Invalid argument names or numbers
820	Internal error	Unable to fetch at least one of the information.
866	Second factor authentication required	To create an USP controller you need to do a second factor authentication
867	second factor authentication blocked	
868	second factor authentication busy	

Table 40: Return codes of action X\_AVM-DE\_SetClient4

## 2.37 X\_AVM-DE\_SetDelayedCallNotification

Set the flag for a SIP client account. Some SIP clients need some seconds time to wake up before a SIP call can be answered. The FRITZ!OS SIP server will delay SIP calls if at least one SIP client has the flag enabled.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_ClientIndex	in	X_AVM-DE_ClientIndex	
NewX_AVM-DE_DelayedCallNotification	in	X_AVM-DE_DelayedCallNotification	

Table 41: Argument list of action X\_AVM-DE\_SetDelayedCallNotification

## 2.38 X\_AVM-DE\_SetVoIPCommonCountryCode

Set the common country code where the LKZ represents the actual country code and the LKZPrefix is the international call prefix. It is recommended to use this action instead of the deprecated [2.12 SetVoIPCommonCountryCode](#) action.

e.g. +49 = 0049 where 00 is the LKZPrefix and 49 the LKZ.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_LKZ	in	X_AVM-DE_LKZ	
NewX_AVM-DE_LKZPrefix	in	X_AVM-DE_LKZPrefix	

Table 42: Argument list of action X\_AVM-DE\_SetVoIPCommonCountryCode

## 2.39 X\_AVM-DE\_GetVoIPCommonCountryCode

Get the configured common country code where the LKZ represents the actual country code and the LKZPrefix is the international call prefix. It is recommended to use this action instead of the deprecated [2.9 GetVoIPCommonCountryCode](#) action.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_LKZ	out	X_AVM-DE_LKZ	
NewX_AVM-DE_LKZPrefix	out	X_AVM-DE_LKZPrefix	

Table 43: Argument list of action X\_AVM-DE\_GetVoIPCommonCountryCode

## 2.40 X\_AVM-DE\_SetVoIPCommonAreaCode

Set the common area code where the OKZ represents the actual area code and the OKZPrefix is the national call prefix. It is recommended to use this action instead of the deprecated [2.8 SetVoIPCommonAreaCode](#) action.

e.g. 030 where 0 is the OKZPrefix and 30 the OKZ.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_OKZ	in	X_AVM-DE_OKZ	
NewX_AVM-DE_OKZPrefix	in	X_AVM-DE_OKZPrefix	

Table 44: Argument list of action X\_AVM-DE\_SetVoIPCommonAreaCode

## 2.41 X\_AVM-DE\_GetVoIPCommonAreaCode

Get the configured common area code where the OKZ represents the actual area code and the OKZPrefix is the national call prefix. It is recommended to use this action instead of the deprecated [2.5 GetVoIPCommonAreaCode](#) action.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewX_AVM-DE_OKZ	out	X_AVM-DE_OKZ	
NewX_AVM-DE_OKZPrefix	out	X_AVM-DE_OKZPrefix	

Table 45: Argument list of action X\_AVM-DE\_GetVoIPCommonAreaCode

## 2.42 X\_AVM-DE\_GetAlarmClock

Get the information of the alarm clocks, which call the configured phone or all phones at the defined time (X\_AVM-DE\_AlarmClockTime) and weekdays. X\_AVM-DE\_AlarmClockPhoneName can be a specific name of the configured phone (e.g. "DECT: Mobilteil 1") or "all phones" (when all phones are supposed to ring). When the configured phone for the alarm clock is deleted, the alarm clock remains active/inactive and the retrieved X\_AVM-DE\_AlarmClockPhoneName will be empty. If X\_AVM-DE\_AlarmClockWeekdays is empty, the alarm rings only once.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewIndex	in	Index	
NewX_AVM-DE_AlarmClockEnable	out	X_AVM-DE_AlarmClockEnable	
NewX_AVM-DE_AlarmClockName	out	X_AVM-DE_AlarmClockName	
NewX_AVM-DE_AlarmClockTime	out	X_AVM-DE_AlarmClockTime	
NewX_AVM-DE_AlarmClockWeekdays	out	X_AVM-DE_AlarmClockWeekdays	
NewX_AVM-DE_AlarmClockPhoneName	out	X_AVM-DE_AlarmClockPhoneName	

Table 46: Argument list of action X\_AVM-DE\_GetAlarmClock

Return code	Description	Related argument
402	Invalid arguments	Any input parameter
714	No such entry in array	NewIndex
820	Internal Error	Any input parameter

Table 47: Return codes of action X\_AVM-DE\_GetAlarmClock

## **2.43 X\_AVM-DE\_GetNumberOfAlarmClocks**

Returns the amount of alarm clocks.

Required rights: Phone

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

Table 48: Argument list of action X\_AVM-DE\_GetNumberOfAlarmClocks

Return code	Description	Related argument
402	Invalid arguments	Any parameter
820	Internal Error	Any input parameter

Table 49: Return codes of action X\_AVM-DE\_GetNumberOfAlarmClocks

## **2.44 X\_AVM-DE\_SetAlarmClockEnable**

Enables or disables the alarm clock.

Required rights: Phone

Argument name	Direction	Related state variable	Remarks
NewIndex	in	Index	
NewX_AVM-DE_AlarmClockEnable	in	X_AVM-DE_AlarmClockEnable	

Table 50: Argument list of action X\_AVM-DE\_SetAlarmClockEnable

Return code	Description	Related argument
402	Invalid arguments	Any input parameter
714	No such entry in array	NewIndex
820	Internal Error	Any input parameter

Table 51: Return codes of action X\_AVM-DE\_SetAlarmClockEnable

### 3 Service States Table

Variable name	Allowed values	Data type
ExistingVoIPNumbers	not used	ui2
FaxT38Enable		boolean
Index		ui2
MaxVoIPNumbers	not used	ui2
NumberOfNumbers		ui4
NumberList	XML-String	string
VoiceCoding	"fixed" - always use POTS quality (default value) "auto" - automatic audio codec selection "compressed" - always use audio codec with compression "autocompressed" - automatic use of compressed audio codec	string
VoIPAccountIndex		ui2
VoIPAreaCode		string
VoIPCountryCode		string
VoIPEnableAreaCode		boolean
VoIPEnableCountryCode		boolean
VoIPNumber		string
VoIPNumberAllowedChars	0123456789+	string
VoIPNumberMaxChars	128	ui2
VoIPNumberMinChars	1	ui2
VoIPOutboundProxy		string
VoIPPassword		string
VoIPPasswordAllowedChars	0123456789ABCDEFGHIJKLMNPQRSTUVWXYZ YZabcdefghijklmnpqrstuvwxyz-._-	string
VoIPPasswordMaxChars	64	ui2
VoIPPasswordMinChars	3	ui2
VoP Registrar		string
VoP Registrar Allowed Chars	0123456789ABCDEFGHIJKLMNPQRSTUVWXYZ YZabcdefghijklmnpqrstuvwxyz-._-	string
VoP Registrar Max Chars	64	ui2
VoP Registrar Min Chars	1	ui2
VoIPSTUNServer		string
VoIPSTUNServerAllowedChars	0123456789ABCDEFGHIJKLMNPQRSTUVWXYZ YZabcdefghijklmnpqrstuvwxyz-._-:	string
VoIPSTUNServerMaxChars	255	ui2
VoIPSTUNServerMinChars	0	ui2
VoIPUsername		string

Variable name	Allowed values	Data type
VoIPUsernameAllowedChars	0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ YZabcdefghijklmnopqrstuvwxyz-._@	string
VoIPUsernameMaxChars	128	ui2
VoIPUsernameMinChars	4	ui2
X_AVM-DE_AlarmClockEnable	1, 0	boolean
X_AVM-DE_AlarmClockName		string
X_AVM-DE_AlarmClockPhoneName	eg. "DECT: Mobilteil 1" , "FON1: Telefon", "all phones"	string
X_AVM-DE_AlarmClockTime	"HHMM" H=hours, M= minutes, *"0000"	string
X_AVM-DE_AlarmClockWeekdays	Comma separated string of the possible values: "MO", "TU", "WE", "TH", "FR", "SA", "SU", "HO" *MO,TU,WE,TH,FR,SA,SU,HO	string
X_AVM-DE_ClientId		string
X_AVM-DE_ClientIndex	0, ..., 9	ui2
X_AVM-DE_ClientList	XML-String or empty	string
X_AVM-DE_ClientPassword		string
X_AVM-DE_ClientPasswordAllowedChars	0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ YZabcdefghijklmnopqrstuvwxyz-._	string
X_AVM-DE_ClientPasswordMaxChars	64	ui2
X_AVM-DE_ClientPasswordMinChars	8	ui2
X_AVM-DE_ClientRegistrar		string
X_AVM-DE_ClientRegistrarPort		ui2
X_AVM-DE_ClientUsername		string
X_AVM-DE_ClientUsernameAllowedChars	0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ YZabcdefghijklmnopqrstuvwxyz-._	string
X_AVM-DE_ClientUsernameMaxChars	64	ui2
X_AVM-DE_ClientUsernameMinChars	4	ui2
X_AVM-DE_ExternalRegistration		boolean
X_AVM-DE_InComingNumbers	XML-String or empty	string
X_AVM-DE_NumberOfAlarmClocks		ui2
X_AVM-DE_NumberOfClients	0, ..., 10	ui2
X_AVM-DE_OutGoingNumber	Empty string to use first available number automatically.	string
X_AVM-DE_PhoneName	Empty string to disable feature to dial a number. Examples: FON1: Telefon FON2: Telefon ISDN: ISDN/DECT Rundruf DECT: Mobilteil 1	string
X_AVM-DE_PhoneNumber		string

Variable name	Allowed values	Data type
X_AVM-DE_InternalNumber	620 ... 629	string
X_AVM-DE_DelayedCallNotification	0,1	boolean
X_AVM-DE_LKZ	Numbers (max length 5) or empty	string
X_AVM-DE_LKZPrefix	Numbers (max length 5) or empty	string
X_AVM-DE_OKZ	Numbers (max length 5) or empty	string
X_AVM-DE_OKZPrefix	Numbers (max length 5) or empty	string
X_AVM-DE_VoIPAccountList		string
<u>X_AVM-DE_VoIPStatus</u>	*unknown, disabled, not registered, registered, connected	string

Table 52: Variable list

## 4 X\_AVM-DE\_VoIPStatus

Return value	Description
disabled	VoIP-Account is disabled
not registered	VoIP-Account is not registered
registered	VoIP-Account is successful registered
connected	A VoIP connection is active
unknown	Unknown Error

Table 53: Return values of state variable X\_AVM-DE\_VoIPStatus