ARGUS®
testing the telecom network



ARGUS® 151

» Overview of menu and test leads

valid from firmware version R2.00.00

ADSL
VDSL
GigE
Cu
TDR
Copper Box
Data 101101011011
IP TV
Vo IP
MOS
PC
USB
WLAN

intec
GESELLSCHAFT FÜR INFORMATIONSTECHNIK mbH

Legend, Status, Protocol overview

Cross reference:

Menu	page
Access	5
Access wizard	6
Main menu	7, 11
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	7-11
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Profile, Virt.-Profile VoIP-Account	12-17
Battery (status,...)	7
Help	7

IP and ATM tests	page
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IPTV / passive /scan	21
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VoIP call / wait	23

Copper tests	page
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Other tests	page
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Others	page
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Legend General

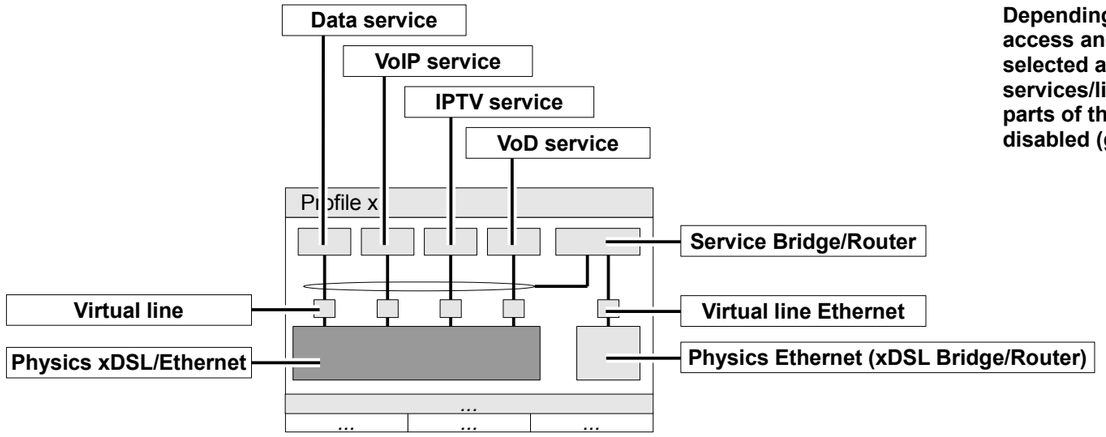
Menu
Configuration menu
Defaul Config.menu
Input menu
Default input menu

Depending on the specified interface, menu item will be shown

Menu item only matters for specified interface

Legend Status

ADSL / VDSL / Ethernet



Depending on the type of access and access mode selected as well as the services/lines configured, parts of the status may be disabled (greyed out).

Protocol overview

ADSL / VDSL / Ethernet

Access			ADSL					VDSL					ETH
Mode			ATU-R	ATU-R Bridge		ATU-R Router		VTU-R	VTU-R Bridge		VTU-R Router		
Socket			Line	Line	LAN	Line	LAN	Line	Line	LAN	Line	LAN	LAN
Protocol	**ATM/Ethernet**												
without	-	without		**a**	**a**				**a**	**a**			
IP	-	IP					**a**	●			●	**a**	●
	Yes	EoA	●			●							
	No	IPoA	●			●							
PPP	Yes	PPPoE	●			●		●			●		●
	No	PPPoA	●			●							
PPTP	-	PPTP											●

● – Protocol configurable (see page 15)
a – Protocol set automatically

Note

The basic ARGUS *151* package includes support for at least one DSL interface (ADSL or VDSL) with a variety of functions and tests for the interface(s). Support for other interfaces and functions is optional (see the options in the data sheet). Consequently, depending on the scope of the functions delivered, certain menu items may be hidden. The type of access and access mode can affect this, too.

Hotkeys

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Menu Hotkeys

ADSL / VDSL / Ethernet

Key	ADSL	VDSL	Ethernet
0	ARGUS status		
1	Help hotkeys		
2	VPI/VCI scan	-	
3	IP ping		
4	Trace route		
5	HTTP download		
6	Test status		
7	FTP download		
8	Copper Box		-
9	IPTV		
⎍	Status		
✆	VoIP call		
✳ then 0	Access		
✳ then 1	ARGUS info		
✳ then 2	Restore config.		
✳ then 3	Factory setting		
✳ then 6	-		
✳ then 7	Store		

Copper tests

Key	Copper tests	Copper Box autotest
0	ARGUS status	-
1	Help hotkeys	-
2	-	
3	-	
4	-	
5	Test data to PC	-
6	-	
7	-	QR code
8	Copper Box	-
9	-	
⎍	-	
✆	-	
✳ then 0	Access	-
✳ then 1	ARGUS info	-
✳ then 2	Restore config.	-
✳ then 3	Factory setting	-
✳ then 6	-	
✳ then 7	-	Store

Graphic hotkeys

ADSL / VDSL / xDSL trace

Key	ADSL / VDSL	xDSL trace
0	-	-
1	-	Legend
2	Zoom	-
3	Cursor	
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	x-axis setting	-
0	-	-
#	-	-
✓	Continue	-
⎍	-	-
✳ then 7	Store	-

Test hotkeys

Copper tests

Key	Line scope (Frequency domain)	Line scope (Time domain)	TDR
0	-	-	-
1	-	-	-
2	Zoom	-	Zoom
3	Cursor		
4	Measurement range		
5	Total power	-	Pulse width/height
6	-	-	Wire type/VoP
7	Probe		-
8	Symmetry		-
9	Time domain	Frequency domain	-
0	Peak hold (min/max)		-
#	100 Ohm Input resistance		-
✓	-	-	-
⎍	Run/Hold		Run/Hold
✳ then 7	Store		

Switch on and access menu

Cross reference:

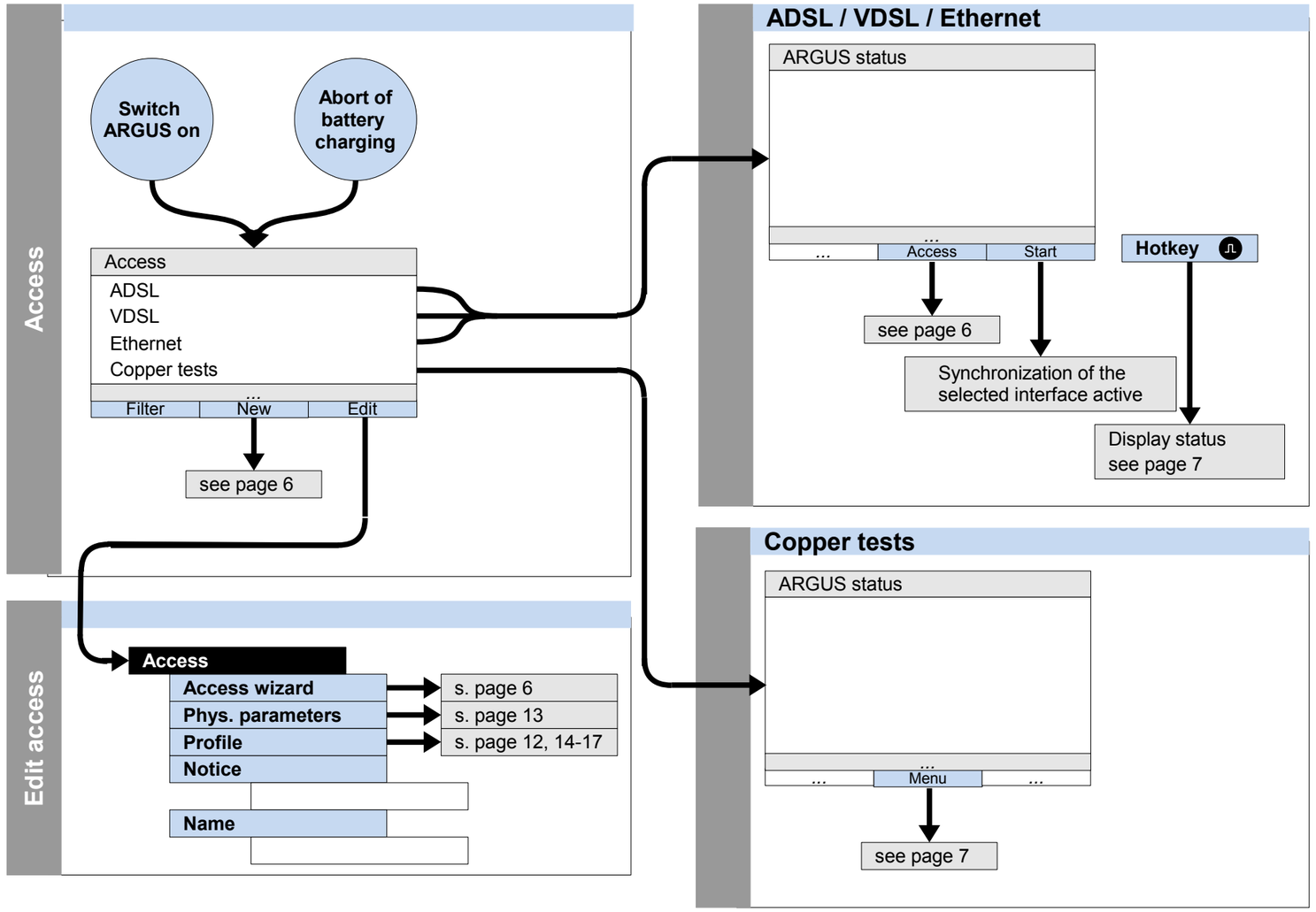
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Access wizard

Cross reference:

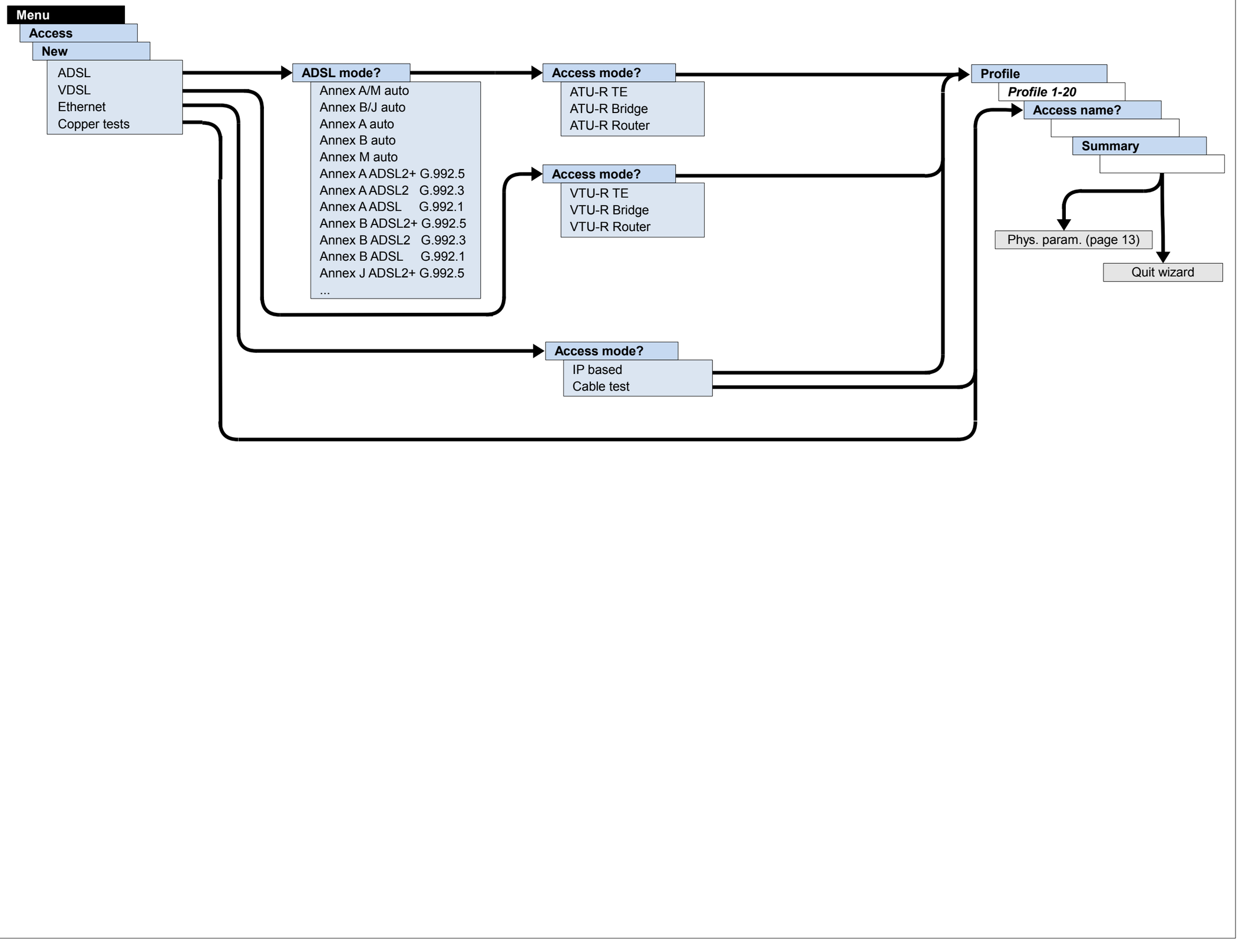
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Main menu, Single tests, Test results, Status
(Access: ADSL, VDSL, Ethernet, Copper tests)

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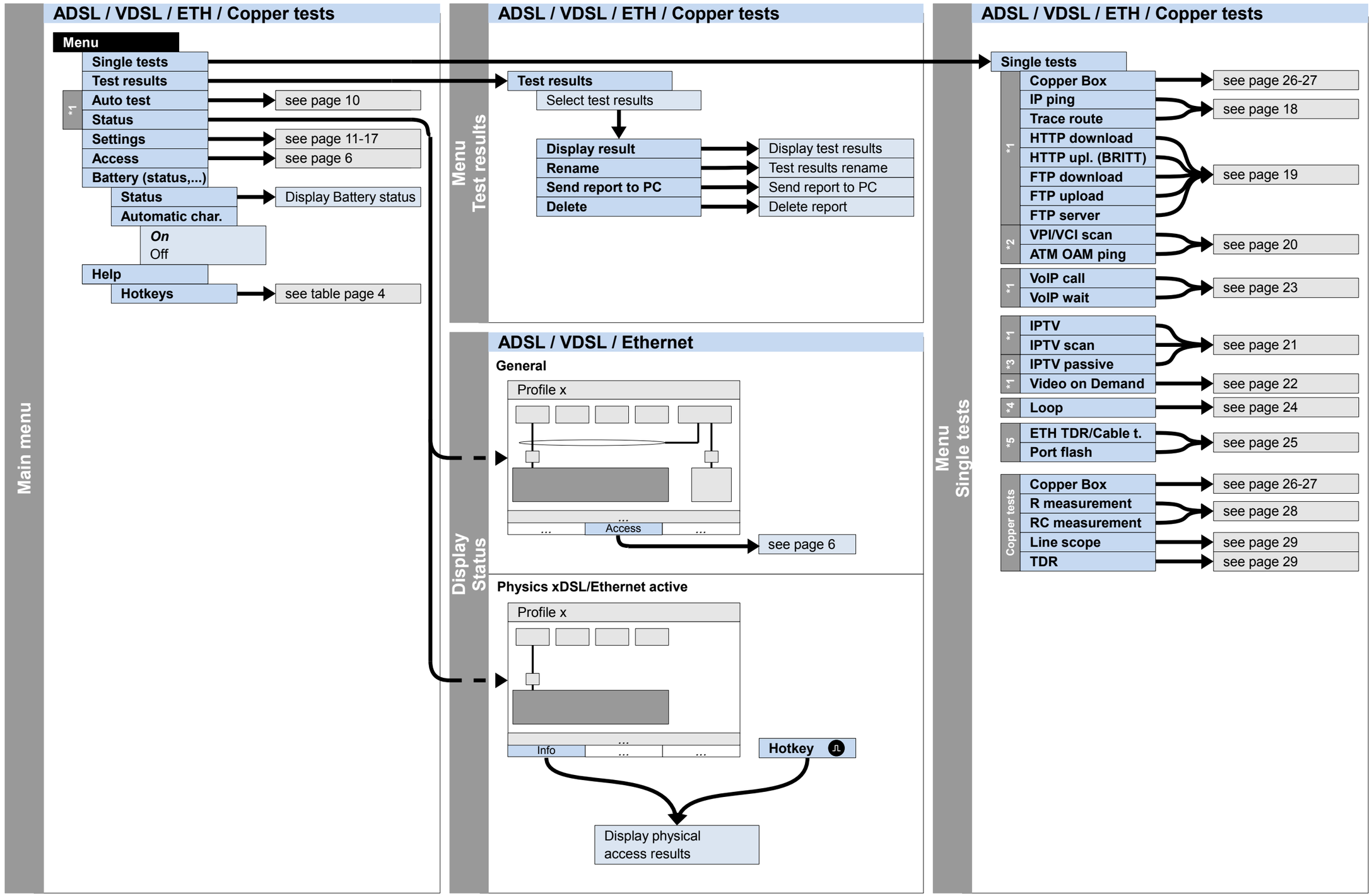
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Note

*1 = ADSL, VDSL, Ethernet
*2 = ADSL
*3 = xDSL-Bridge/Router, Ethernet
*4 = Ethernet
*5 = Ethernet cable tests

Service tests: Data tests, VoIP tests, IPTV tests, VoD tests, Bridge tests, Physic tests (Access: ADSL, VDSL, Ethernet)

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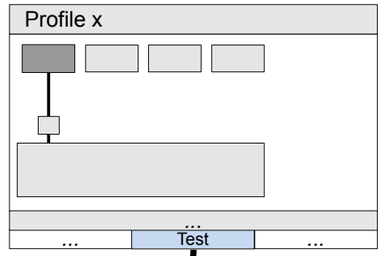
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Others	page
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ADSL / VDSL / Ethernet

Service active

Display Status



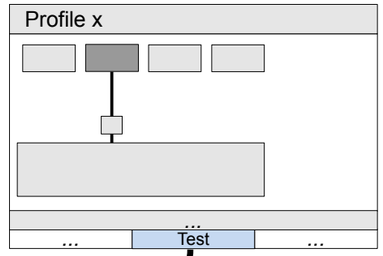
Menu Data tests

- Data tests
  - IP ping → see page 18
  - Trace route → see page 18
  - HTTP download → see page 19
  - HTTP upl. (BRITT) → see page 19
  - FTP download → see page 19
  - FTP upload → see page 19
  - FTP server → see page 19

ADSL / VDSL / Ethernet

Service active

Display Status



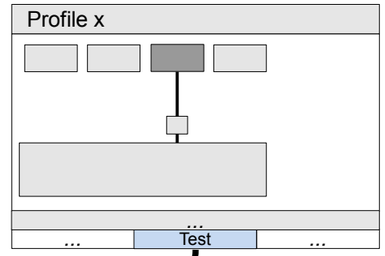
Menu VoIP tests

- VoIP tests
  - IP ping → see page 18
  - Trace route → see page 18
  - VoIP call → see page 23
  - VoIP wait → see page 23

ADSL / VDSL / Ethernet

Service active

Display Status



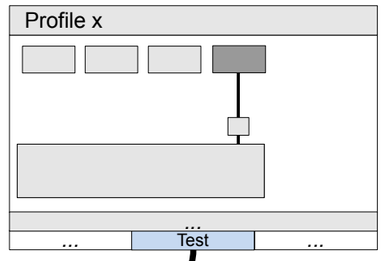
Menu IPTV tests

- IPTV tests
  - IP ping → see page 18
  - Trace route → see page 18
  - IPTV → see page 22
  - IPTV scan → see page 22
  - *1 IPTV passive → see page 22

ADSL / VDSL / Ethernet

Service active

Display Status



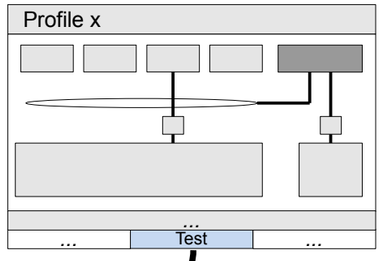
Menu VoD tests

- VoD tests
  - IP ping → see page 18
  - Trace route → see page 18
  - Video on Demand → see page 22

ADSL / VDSL - Bridge

Service active

Display Status



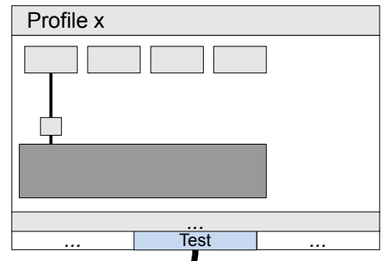
Menu Bridge tests

- Bridge tests
  - IPTV passive → see page 21

ADSL / Ethernet

Physics xDSL/Ethernet active, Services inactive

Display Status



Menu Physic tests

- Physic tests
  - *2 VPI/VCI scan → see page 22
  - *2 ATM OAM ping → see page 22
  - *3 Loop → see page 24

Note

- *1 = xDSL-Router
- *2 = ADSL
- *3 = Ethernet

Service tests: Parallel tests
Test status

Cross reference:

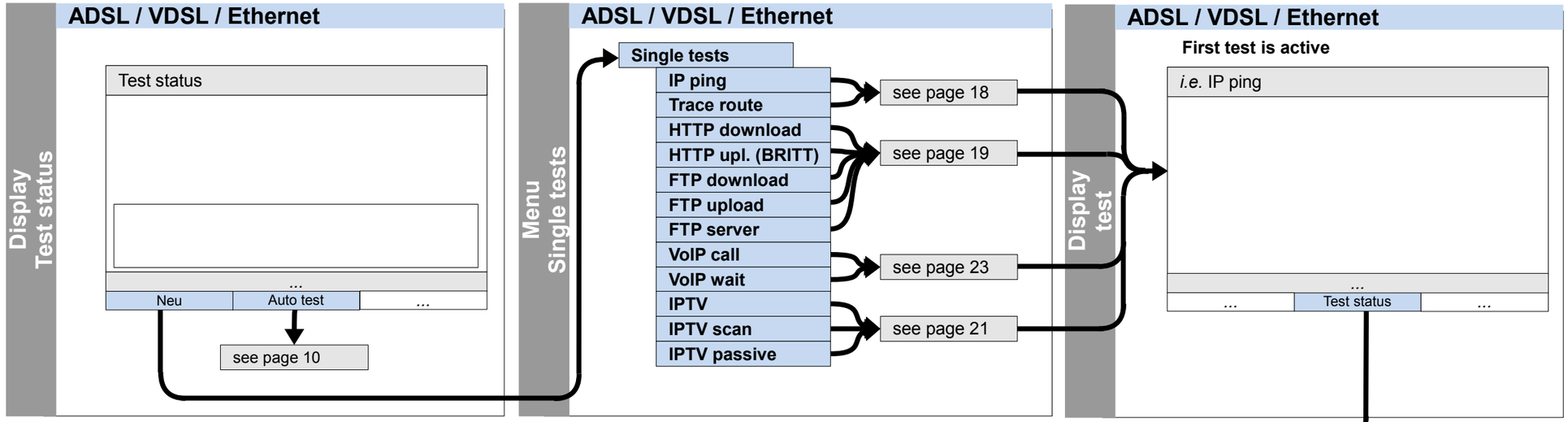
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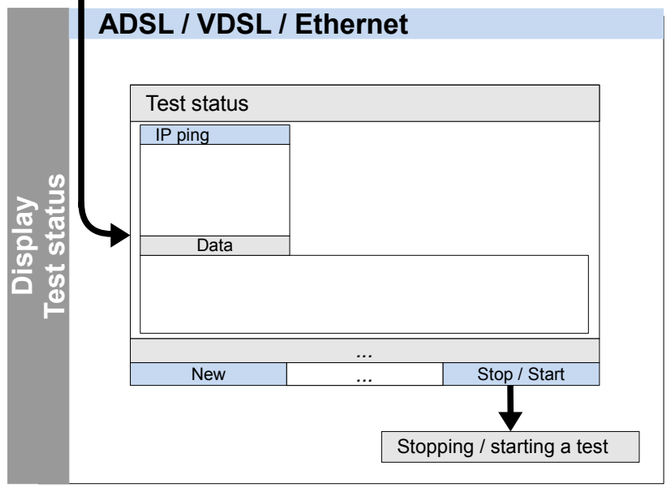
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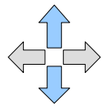
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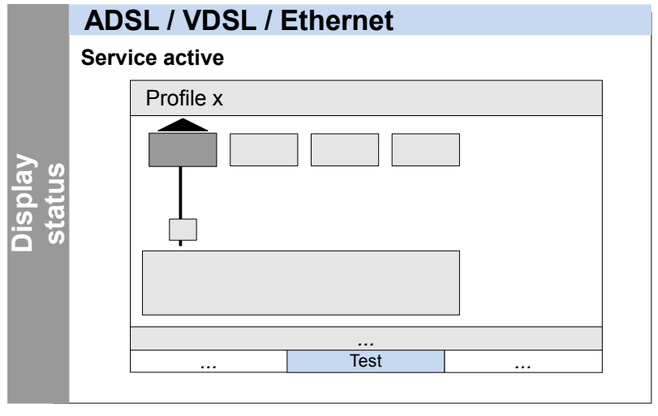
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Using the cursor keys for switching between status and Test status.



Note

The Display and operation of VoIP and IPTV tests are presented in the same way as for Data tests.

Service tests: IP auto test

Cross reference:

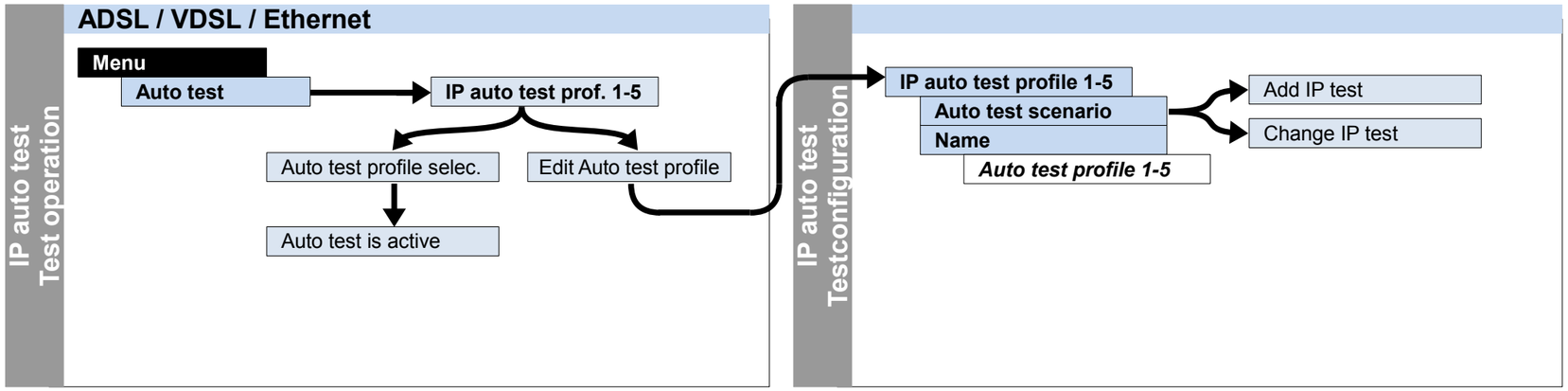
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Settings and reset
Trace/remote, Device, Numbers, Backup/Restore

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Menu Settings

- **Menu**
  - **Settings**
    - **Profiles** → see page 12, 14-17
    - **Copper/Cable tests** → see page 26-27
    - **Device**
    - **Backup/Restore**

Menu Device

- **Device**
  - **Menu language**
    - Menu language: German / ***English*** / Francais
  - **LCD brightness**: dark------light
  - **Date/time setting**
    - **Time offset**: ***UTC+01:00***
    - **Daylight saving time**: off / ***Central europ. (CEST)***
    - **Date/time**: **manual** / **automatic**
      - **As IPv4 number**: ***0.0.0.0***
      - **As name**: ***0.de.pool.ntp.org***
  - **Management interface**
    - **Start Manage. Interf.**: ***Off*** / on
    - **VNC server**
      - **Start VNC server**: ***aus*** / ein
      - **VNC zoom factor**: Factor 1 / ***Factor 2*** / Factor 3 / Factor 4
    - **WLAN**
      - **SSID**: ***ARGUS151_SN01234***
      - **Password**: ***argus151***
      - **Channel**: ***Channel: 1***
      - **DHCP server**
        - **Start/end Address**: ***192.168.20.30*** / ***192.168.20.40***
        - **Domain**
        - **Reserve time**: Hours: ***240***
      - **Interface**
        - **Interface**: ***USB-ETH*** / WLAN
        - **IP address**: ***192.168.20.1***
        - **Netmask**: ***255.255.255.0***
        - **Gateway**: ***0.0.0.0***
  - **Ringer volume**
  - **Start volume**: ***Level 1*** / .... / Level 7
  - **End volume**: Level 1 / .... / ***Level 7***
  - **Alarm bell**: On / ***Off***
  - **Jingle**: On / ***Off***
  - **Power management**
    - **Automatic turn off**: ***after 5 minutes*** / after x minutes / deactivated
    - **Lighting**: ***off after 30 sec*** / off after 1 minute / off after 5 minutes
  - **Software option**: Input SW option key
  - **ARGUS manager**
    - **Managem. Interf. ETH**: ***off*** / on
    - **LCD brightness**: Level 1 / .... / ***Level 15***
    - **Automatic shutdown**: ***after 5 minutes*** / after x minutes / deactive
    - **Automatic charge**: ***on*** / Off
    - **VNC server start**: ***off*** / on

Menu Backup

- **Backup/Restore**
  - **Backup configuration** → Save current configuration
  - **Restore configuration** → Restore saved configuration
  - **Factory settings** → Reset to factory settings

Note

Selecting "Factory settings" or "Backup configuration" requires a password to avoid an unintentionally deleting of the system configuration. Please contact the ARGUS support team at +49 2351 9070-90 to ask for the password. All settings will be set to default and test results will be deleted.

Settings
Profile

Cross reference:

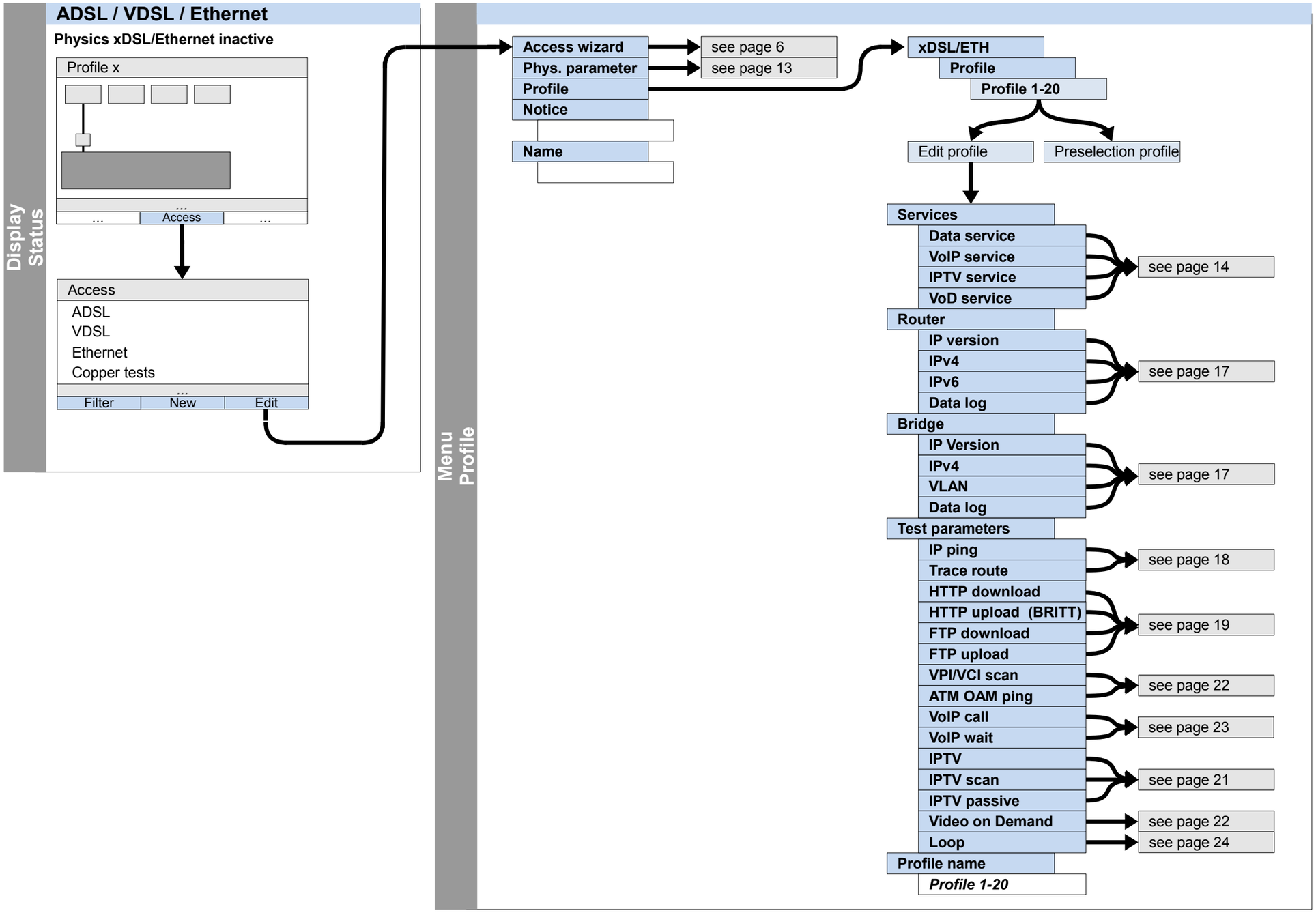
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Settings
Phys. parameters: ADSL, VDSL, Ethernet

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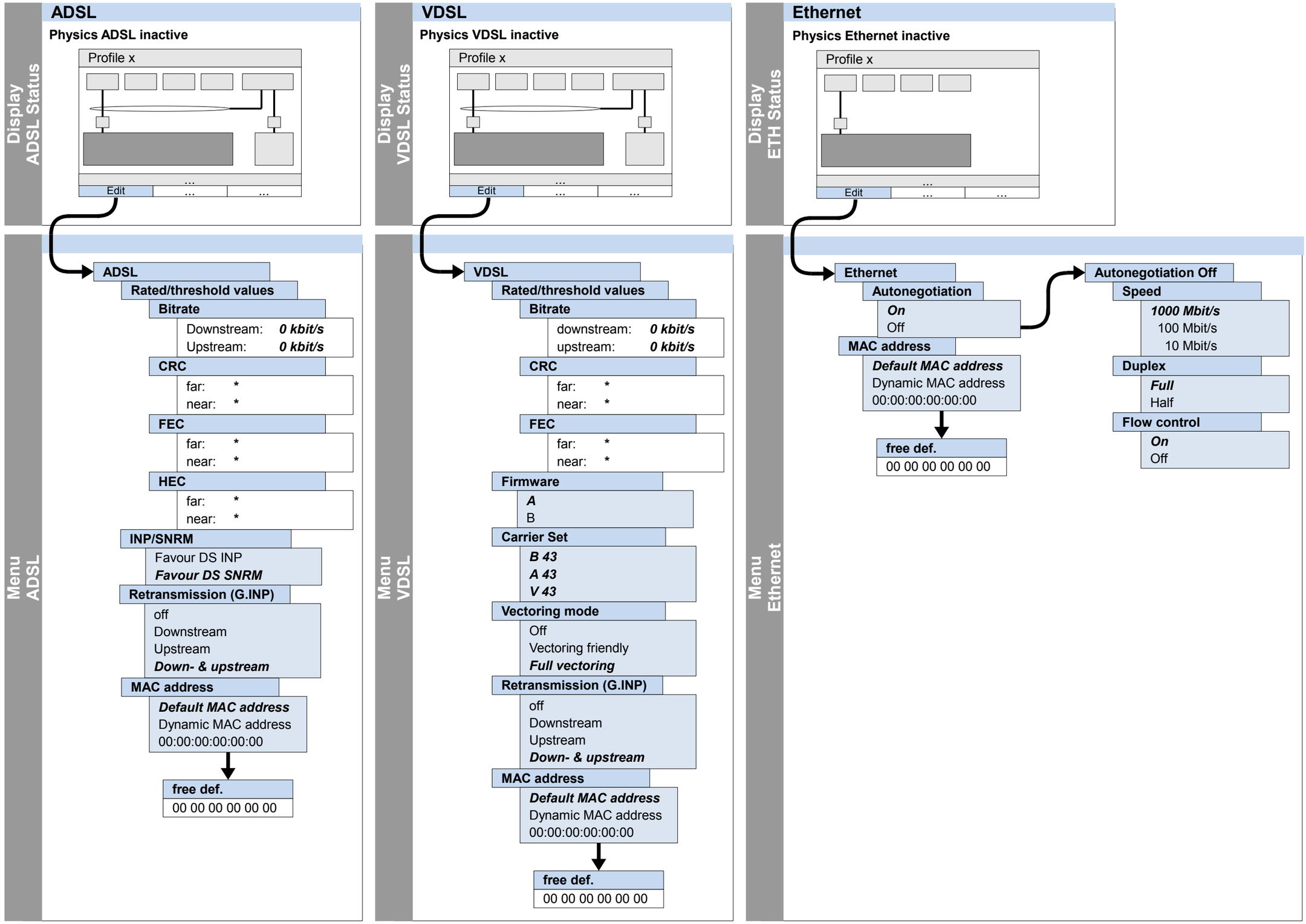
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Settings
Profile – Services (Data service, VoIP service, IPTV service, VoD service), Virt. Profile

Cross reference:

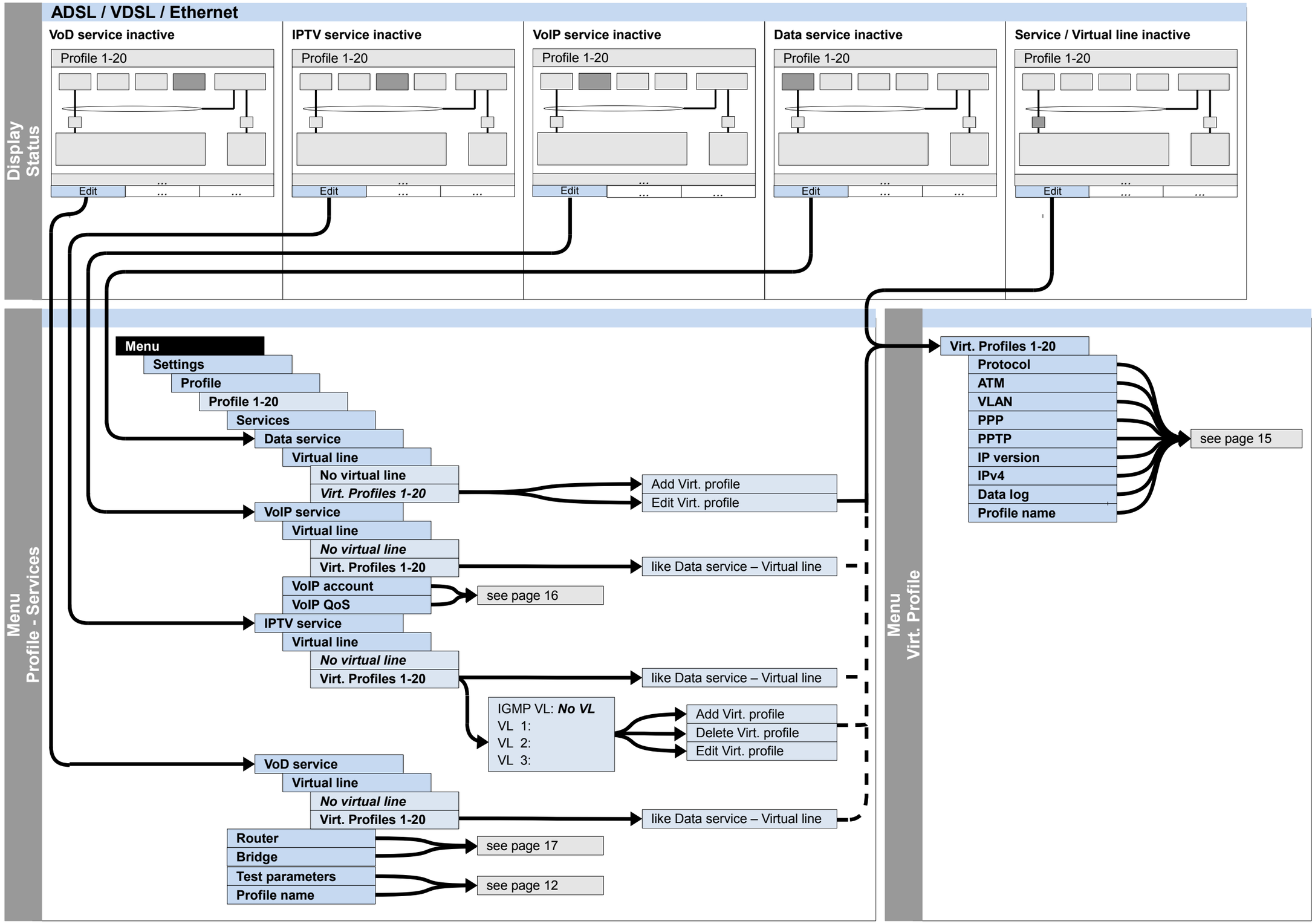
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Settings
Profiles – Virt. profile (Protocol, ATM, VLAN, PPP, PPTP, IP, Data log)

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Menu – Profiles – Virt. profile

- **Menu**
  - **Settings**
    - **Profiles**
      - **Profiles 1-20**
        - **Services**
          - **Data service**
            - **Virtual line**
              - **Virt. Profiles 1-20**
                - **Protocol**: IP / ***PPP*** / PPTP
                - **ATM**
                - **VLAN**
                - **PPP**
                - **PPTP**
                - **Server IP address**: ***0.0.0.0***
                - **IP Version**: ***IPv4*** / IPv6 / Dual
                - **IPv4**
                - **Data log**: ***off*** / on
                - **Profile name**: **Virt. Profiles 1-20**

Menu ATM

- **ATM**
  - **VPI/VCI**: VPI: ***1*** / VCI: ***32***
  - **Encapsulation**: ***LLC*** / VC-MUX
  - **Ethernet**: No (PPPoA, IPoA) / ***Yes (PPPoE, EoA)***

Menu VLAN

- **VLAN**
  - **VLAN mode**: ***No VLAN*** / VLAN 1 / VLAN 1 & 2
  - **VLAN 1**
    - **ID**: ID: ***2***
    - **Priority**: Priority: ***0***
    - **TPID**: ***8100 Hex*** / 88A8 Hex
  - **VLAN 2**
    - **ID**: ID: ***2***
    - **Priority**: Priority: ***0***
    - **TPID**: 8100 Hex / ***88A8 Hex***

Menu PPP

- **PPP**
  - **PPP Profiles 1-20**
    - edit profile
      - **User name**
      - **Password**
      - **Set IP**: ***No*** / Yes
      - **Activation Delay**: sec: ***2***
      - **Profile name**: ***PPP Profiles 1-20***
    - preselection profile

Menu IPv4

- **IPv4**
  - **IP mode**: Static IP / ***DHCP client*** / DHCP server / DHCP auto
  - **own IP address**: ***0.0.0.0***
  - **IP Netmask**: ***255.255.255.0***
  - **Gateway IP**: ***0.0.0.0***
  - **DNS server**
  - **DHCP client**
  - **DHCP server**
- **DNS server**
  - **DNS server 1**: ***0.0.0.0***
  - **DNS server 2**: ***0.0.0.0***
- **DHCP client**
  - **DHCP timeout**: sec: ***20***
  - **DHCP vendor ID**
  - **DHCP vendor Info**
  - **DHCP user class i.**
  - **DHCP user-def.opt**
- **DHCP vendor ID**
  - **Format**: ***ASCII*** / HEX
  - **ASCII data**: ***ARGUS***
  - **HEX data**
- like DHCP vendor ID
- **DHCP user-def.opt.**
  - **Number**: number: ***255***
  - **Format**: ***ASCII*** / HEX
  - **ASCII data**: ***ARGUS***
  - **HEX data**
- **DHCP server**
  - **Start/end address**: ***192.168.10.30*** / ***192.168.10.40***
  - **Domain**
  - **Reserve time**: Hours: ***240***

Note

On page 3 you get a survey on the protocols, which are supported on the various interfaces.

Settings
Profiles – Services – VoIP service – VoIP account, VoIP QoS

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ADSL / VDSL / Ethernet

VoIP service inactive

Display Status

Profile 1-20

Edit

Menu VoIP service

Menu
Settings
Profiles
Profiles 1-20
VoIP service
Virtual line → see page 15
VoIP account
VoIP QoS

Menu VoIP Profiles

VoIP account
VoIP profile 1-3
edit VoIP profile
preselection VoIP profile
SIP settings
Phone settings
STUN server
Use STUN
No
Yes
STUN server
Rated/treshold values
Profile name
VoIP profiles 1-3
MOS rated value
Value: ***4.0***
Jitter treshold
Treshold: **** ms***
RTP loss tresh.
Treshold: ****.* %***

Menu VoIP QoS

VoIP QoS
Layer 3 DiffServ
RTP (ToS/DSCP)
ToS
DSCP
SIP (ToS/DSCP)
ToS
DSCP
Layer 2 VLAN Prio
RTP VLAN Prio
VLAN Prio: ***0***
SIP VLAN Prio
VLAN Prio: ***0***
RTP ToS
ToS: ***00***
RTP DSCP
DSCP: ***00***
SIP ToS
ToS: ***00***
SIP DSCP
DSCP: ***00***

Menu Phone settings

Phone settings
RTP port range
Start: 10000
End: 20000
Silence detection
off
on
not used
Jitter buffer
static
adaptive
Codecs
G.711 Alaw
G.711 µlaw
G.723.1
G.729 A/B
G.726
...
DTMF settings
Mode
automatic
SIP info
RFC 2833
inband
Duration
Duration: ***80 ms***

adaptive
min: ***60*** ms
init: ***60*** ms
max: ***120*** ms

static
nominal: ***60*** ms

Menu SIP settings

SIP settings
User name
Password
Authentication
Caller ID
Registrar server
Outbound proxy/SBC
SIP trunking
TCP fallback
No
Yes
TLS
No
Yes
SIP Domain
Listen port
Port num.: ***5060***
Remote port
Port num.: ***5060***
User agent
Argus151
Qualify
No
Yes
Reg. expire
Time: ***3600 sec.***
Del. exist. registrar
No
Yes

Registrar server
Use Registrar
No
Yes
Registrar server
As IPv4 number
0.0.0.0
As IPv6 number
0000:0000:0000...
As name
www.argus.info

Outbound proxy/SBC
Use proxy
No
Yes
Outb.proxy/SBC
As IPv4 number
0.0.0.0
As IPv6 number
0000:0000:0000...
As name
www.argus.info
Outb.proxy/SBC Port
Port num.: ***5060***

SIP trunking
Use SIP trunking
No
Yes
CLIR
No
Yes
Own basic number
4923519070
Own extension (DDI)
0

Settings
Profile – Bridge/Router (Ethernet, Virtual line, Router)

Cross reference:

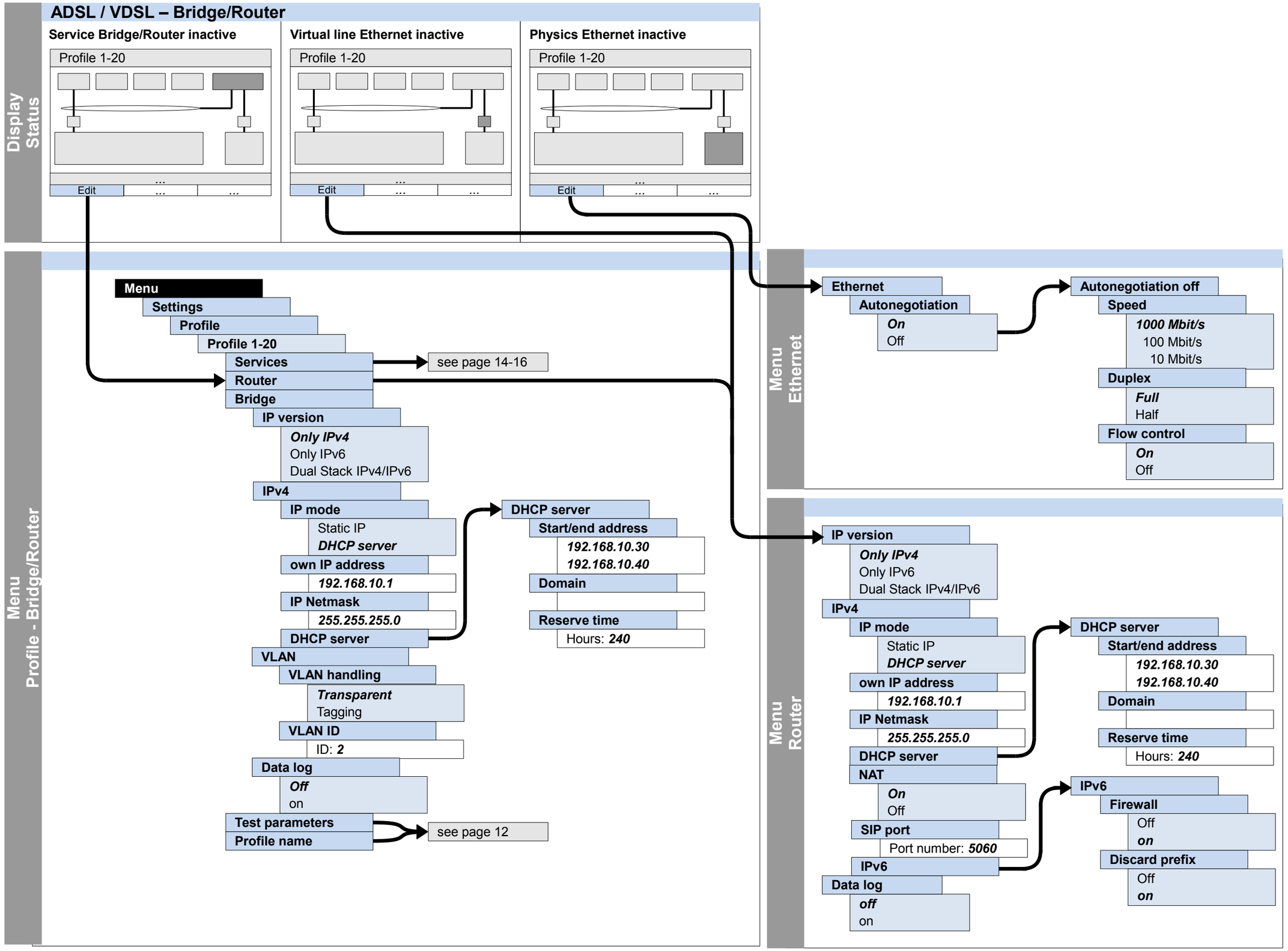
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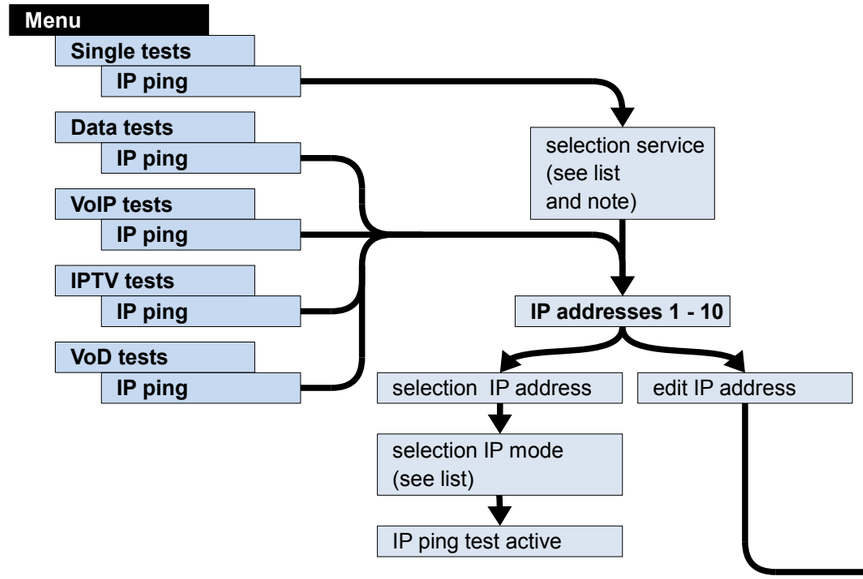
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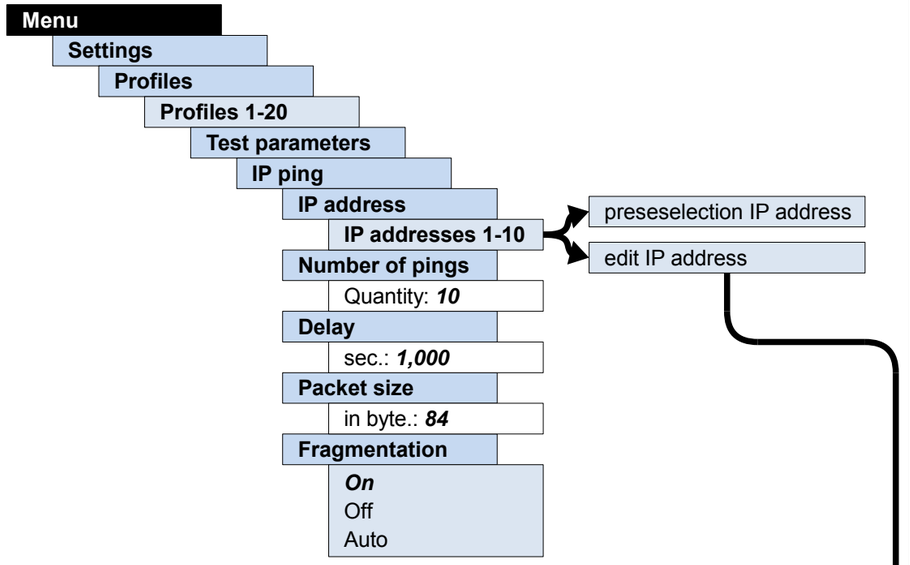
IP ping Test operation

ADSL / VDSL / Ethernet

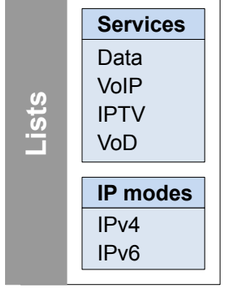


IP ping Test configuration

ADSL / VDSL / Ethernet

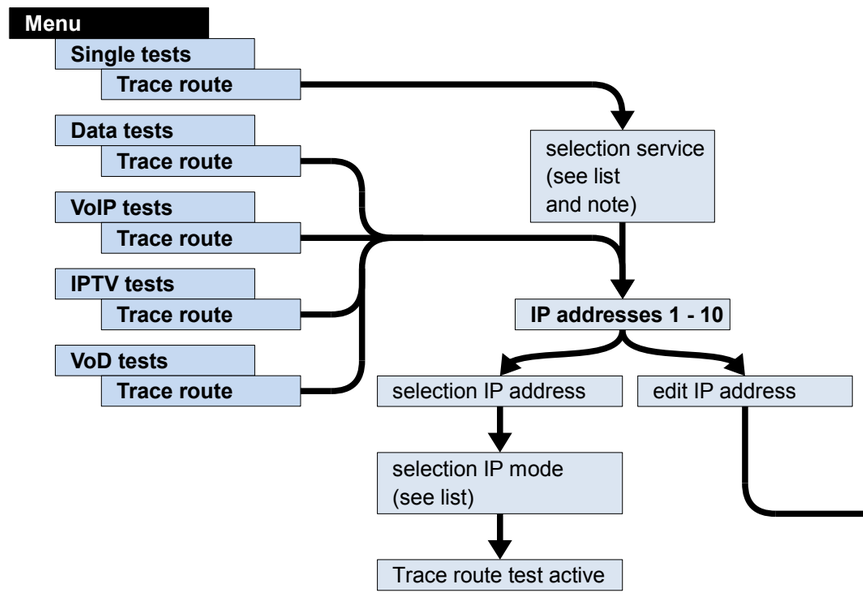


Lists

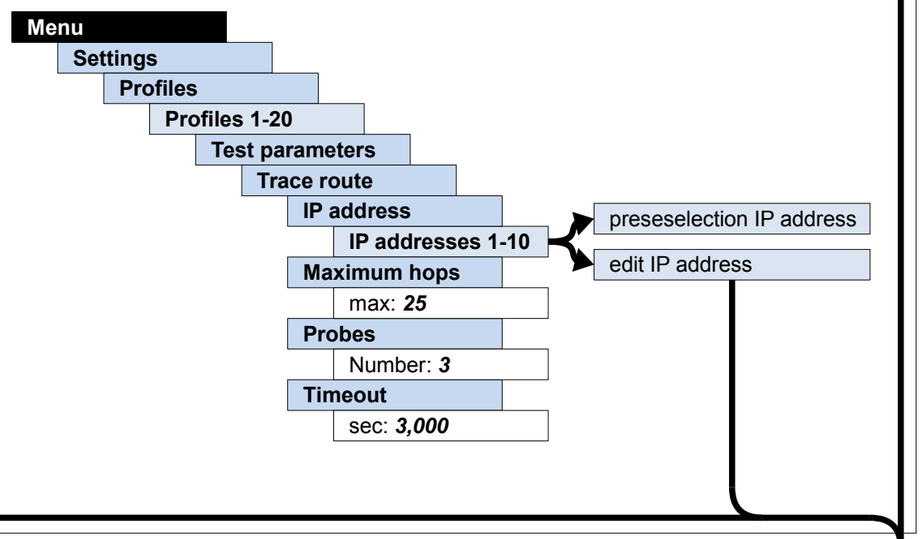


Trace route Test operation

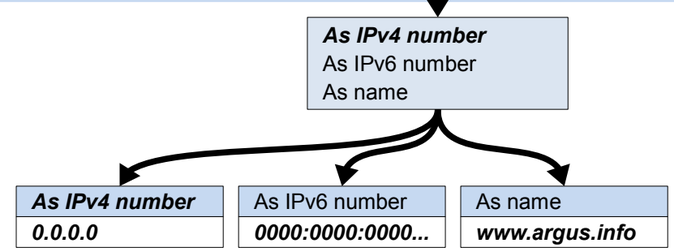
ADSL / VDSL / Ethernet



Trace route Test configuration



Menu IP address



Note

The number of services may vary depending on the configuration of the Data, VoIP, IPTV, VoD services. If a single service has been configured, the selection will be skipped.

Configuration and operation
HTTP download/-upload, FTP download, FTP upload, FTP server

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HTTP download/-upload Test operation — ADSL / VDSL / Ethernet

Menu
- Single tests
  - HTTP down-/upl.
- Data tests
  - HTTP down-/upl.

→ Server profiles 1-10
- selection server profile → HTTP down-/upl. test active
- edit server profile

HTTP download/-upload Test configuration

Menu
- Settings
  - Profiles
    - Profiles 1-20
      - Test parameters
        - HTTP down-/upl.
          - Server profiles 1-10
            - preselection server profile
            - edit server profile

FTP download Test operation — ADSL / VDSL / Ethernet

Menu
- Single tests
  - FTP download
- Data tests
  - FTP download

→ Server profiles 1-10
- selection server profile → FTP download test active
- edit server profile

FTP download Test configuration

Menu
- Settings
  - Profiles
    - Profiles 1-20
      - Test parameters
        - FTP download
          - Server profiles 1-10
            - preselection server profile
            - edit server profile

FTP upload Test operation — ADSL / VDSL / Ethernet

Menu
- Single tests
  - FTP upload
- Datatests
  - FTP upload

→ Server profiles 1-10
- selection server profile → FTP upload test active
- Edit server profile

FTP upload Test configuration

Menu
- Settings
  - Profiles
    - Profiles 1-20
      - Test parameters
        - FTP upload
          - Server profiles 1-10
            - preselection server profile
            - edit server profile

FTP server Test operation — ADSL / VDSL / Ethernet

Menu
- Single tests
  - FTP server
- Data tests
  - FTP server

→ FTP server test active

Menu Server profile

Server profiles 1-10
- Server
- Download file name
- Upload file name
  - *file*
- Upload file size
  - ***100*** (MByte)
- User name
- Password
- Number of up-/downloads
  - *Number:* ***3***
- Num. of paral. downl.
  - *Number:* ***3***
- Profile name
  - ***Server prof. 1-10***

Note

A test configuration of the FTP server is not necessary.

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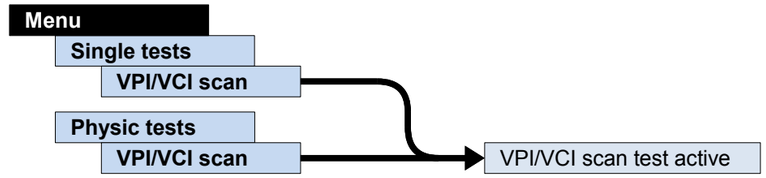
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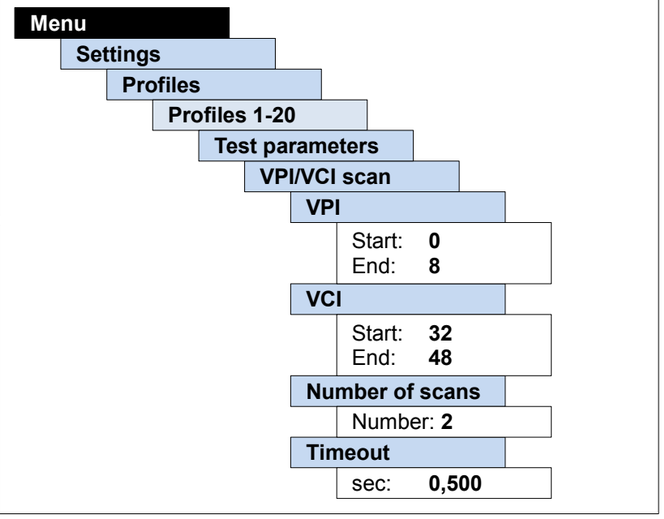
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VPI/VCI scan Test operation

ADSL

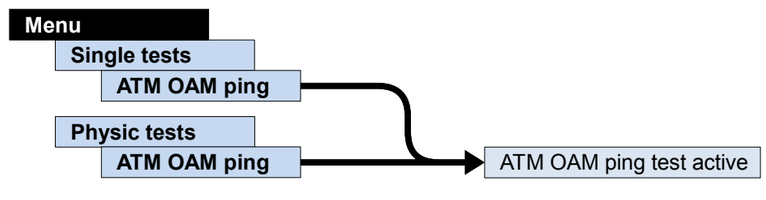


VPI/VCI scan Test configuration

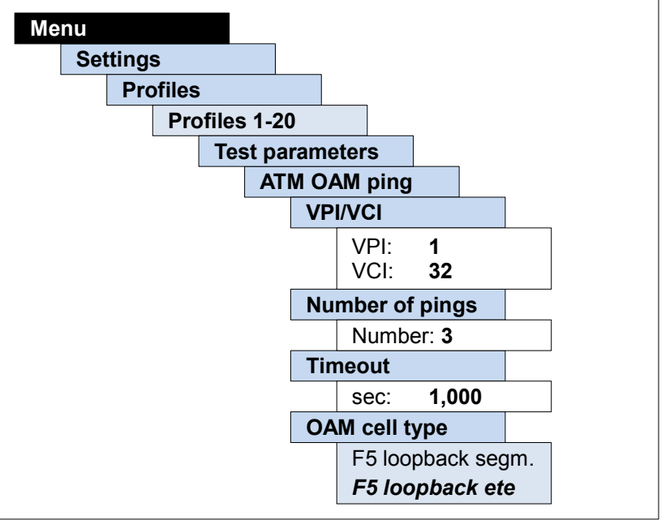


ATM OAM ping Test operation

ADSL



ATM OAM ping Test configuration



IP

Configuration and operation
IPTV, IPTV passive, IPTV scan

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IPTV Test operation

ADSL / VDSL / Ethernet

- Menu
  - Single tests
    - IPTV
  - IPTV tests
    - IPTV
  - IPTV profiles 1-3
    - selection IPTV profile
      - IPTV test active
    - edit IPTV profile

IPTV passive Test operation

ADSL / VDSL / Ethernet

- Menu
  - Single tests
    - IPTV passive
  - IPTV tests
    - IPTV passive
  - Bridge tests
    - IPTV passive
  - IPTV profiles 1-3
    - selection IPTV profile
      - IPTV passive test active
    - edit IPTV profile

IPTV Test configuration

- Menu
  - Settings
    - Profiles
      - Profiles 1-20
        - Test parameters
          - IPTV
            - IPTV profiles 1-3
              - edit IPTV profile
              - preselection IPTV profile

- IPTV profiles 1-3
  - Channel selection
    - IPTV channel 1-250
      - preselection IPTV ch.
      - edit IPTV channel
  - Use IP header
    - ***No***
    - Yes
  - IGMP version
    - IGMP version: ***3***
  - Threshold
  - Profile name
    - ***IPTV profiles 1-3***

Menu IPTV thresholds

- Threshold
  - IGMP latency
    - Latency value: ***500 ms***
  - Sync error
    - ***0***
  - PCR jitter
    - ***100 ms***
  - Error indication
    - ***0***
  - CC error
    - ***0***
  - CC error ratio
    - ***0,00 %***
  - Audio bytes
    - ***0***
  - Video bytes
    - ***0***
  - RTP jitter
    - ***100 ms***
  - RTP sequence error
    - ***0***
  - Current RTP loss ratio
    - ***0,00 %***
  - Full RTP loss ratio
    - ***5,00 %***

Menu IPTV channel

- IPTV channels 1-250
  - Multicast IP
    - ***224.0.0.0***
  - Port
    - Port number: ***0***
  - TV station
    - ***IPTV channel 1-250***

IPTV scan Test operation

ADSL / VDSL / Ethernet

- Menu
  - Single tests
    - IPTV scan
  - IPTV tests
    - IPTV scan
  - IPTV scan profiles 1-3
    - selection IPTV scan profile
      - IPTV scan test active
    - edit IPTV scan profile

IPTV scan Test configuration

- Menu
  - Settings
    - Profiles
      - Profiles 1-20
        - Test parameters
          - IPTV scan
            - IPTV scan profiles 1-3
              - preselection IPTV scan profile
              - edit IPTV scan profile

- IPTV scan profiles 1-3
  - Channel selection
    - add IPTV channel
    - remove IPTV Channel
    - edit IPTV Channel
  - IGMP Version
    - IGMP version: ***3***
  - Max. zapping time
    - Zapping time: ***5 s***
  - Profile name
    - ***Scan Profile 1-3***

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ADSL / VDSL / Ethernet

Video on demand Test operation

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    - Video on demand
  - VoD tests
    - Video on demand
  - VoD profiles 1-3
    - selection VoD profile
      - VoD test active
    - edit VoD profile

Video on Demand Test configuration

- Menu
  - Settings
    - Profiles
      - Profiles 1-20
        - Test parameters
          - Video on demand
            - VoD profiles 1-3
              - preselection VoD profile
              - edit VoD profile

VoD profiles 1-3

- Type of stream
  - ***RTSP***
  - HTTP
  - FTP
  - MMS
- Server address
- Port
  - Port number: ***0***
- File name
- RTSP type
  - ***TCP***
  - UDP
- RTSP server type
  - ***standard***
  - Kasenna
- Jitter buffer
  - Jitter buffer value:***300 ms***
- Thresholds
- Profile name
  - ***VoD profiles 1-3***

VoD thresholds

- PCR jitter
  - Jitter value: ***8 ms***
- Continuity error
  - Cont. error value: ***0,1 %***

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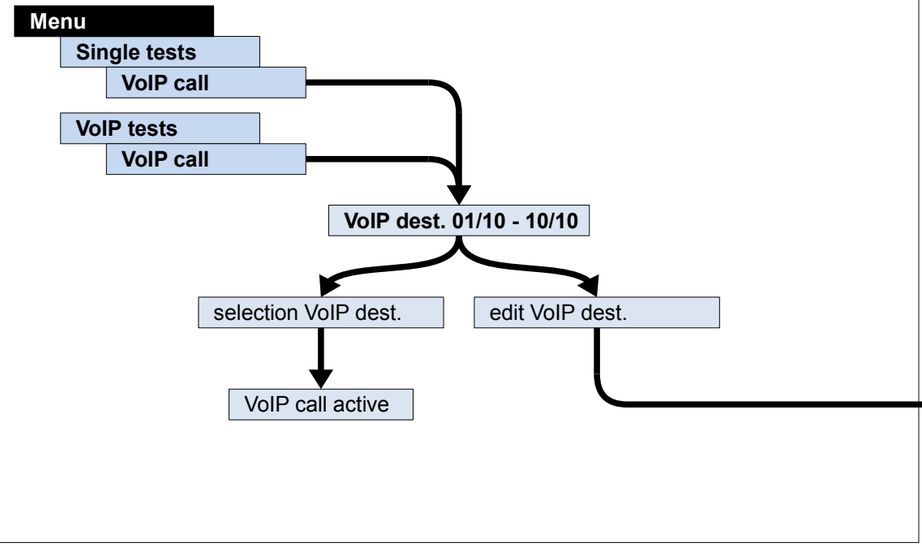
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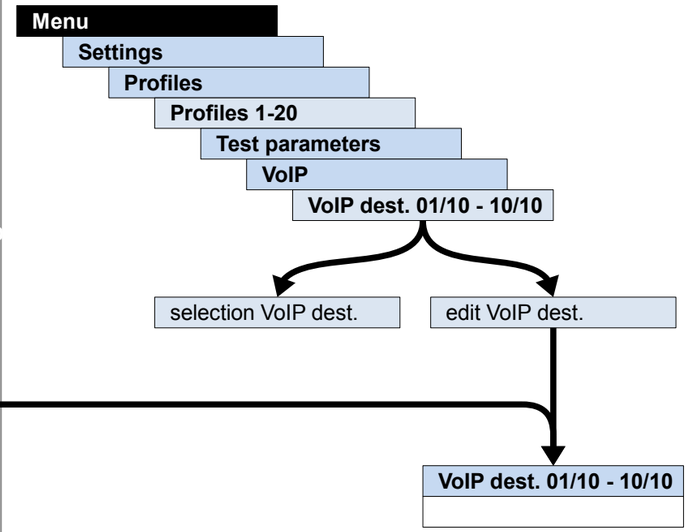
VoIP call Test operation

ADSL / VDSL / Ethernet



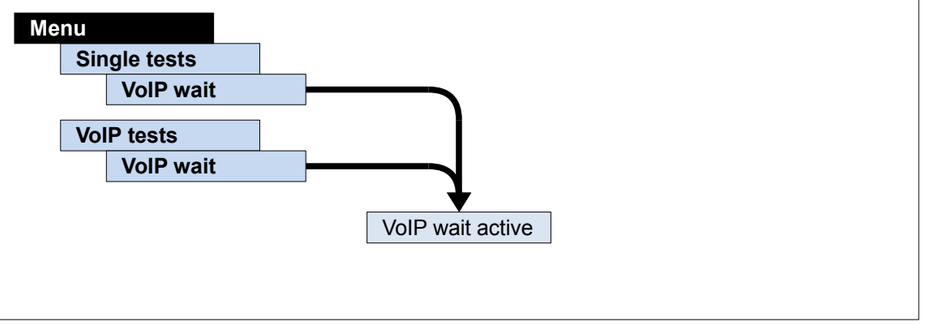
VoIP call Test configuration

ADSL / VDSL / Ethernet

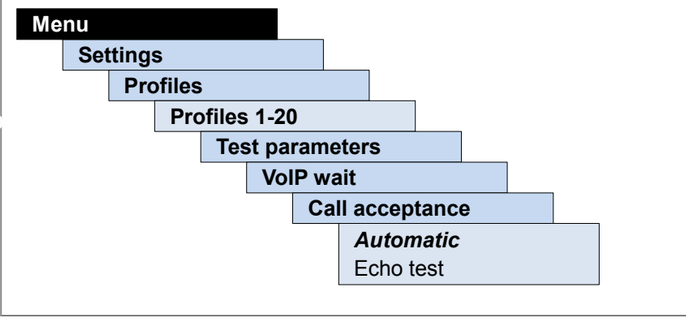


VoIP wait Test operation

ADSL / VDSL / Ethernet



VoIP wait Test configuration



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Ethernet

Loop
Test operation

Menu
- **Single tests**
  - **Loop**
- **Physic tests**
  - **Loop**

→ Loop active

Loop
Test configuration

Menu
- **Settings**
  - **Profiles**
    - **Profiles 1-20**
      - **Test parameters**
        - **Loop**
          - **Layer 1**
          - **Layer 2**
            - **MAC mode**
              - ***Only own MAC***
              - Loop everything
            - **Own VPI/VCI**
              - VPI: ***1***
              - VCI: ***32***
            - **VLAN**
              - **VLAN mode**
                - ***No VLAN***
                - VLAN 1
                - VLAN 1 & 2
              - **VLAN 1**
                - **ID**
                  - ID: ***2***
                - **Priority**
                  - Priority: ***0***
                - **TPID**
                  - ***8100 Hex***
                  - 88A8 Hex
              - **VLAN 2**
                - **ID**
                  - ID: ***2***
                - **Priority**
                  - Priority: ***0***
                - **TPID**
                  - 8100 Hex
                  - ***88A8 Hex***
            - **Layer 3**
              - **Own IP mode**
                - ***Static IP***
                - DHCP client
              - **Own IP address**
                - ***0.0.0.0***

Cross reference:

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ETH TDR/Cable tests – Test operation

Ethernet cable tests

Menu
- **Single tests**
  - **ETH TDR/cable test** → ETH TDR/... active

ETH TDR/Cable tests – Test configuration

Menu
- **Settings**
  - **Copper/Cable tests**
    - **ETH cable tests**
      - **ETH TDR/cable test**
        - **Mode**: ***First Peak*** / Maximum Peak
        - **Wire types 1-20**
          - Selection wire type
          - Edit wire type
            - **Speed of propagation**: ***66.0*** (**V/2 in m/µs**)
            - **Line resistance**: ***80 Ohm/km***
            - **Capacitance**: ***39 nF/km***
            - **Name**: ***PE 0.5 AWG24***
            - **VoP in %**: ***98.9***

Port flash – Test operation

Ethernet cable tests

Menu
- **Single tests**
  - **Port flash** → Port flash ... active

Port flash – Test configuration

Menu
- **Settings**
  - **Copper/Cable tests**
    - **ETH cable tests**
      - **Port flash**
        - **LED on time**: ***1 s***

Note

The wire type settings are the same settings which are used for the copper tests.

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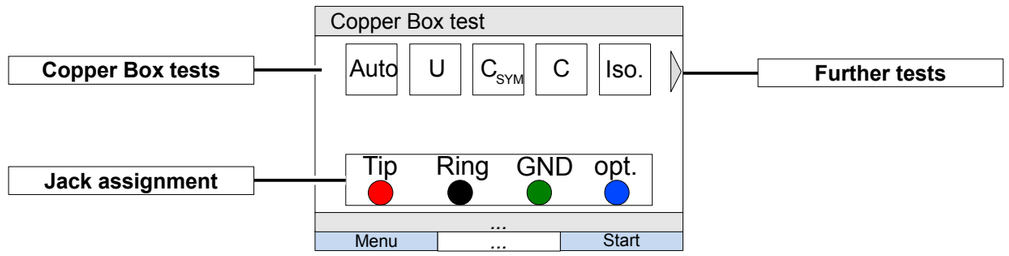
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Legend status

ARGUS Copper Box



Menu hotkeys

ARGUS Copper Box

Key	Auto test	Voltage measurement	Capacitve symmetry measurement	Capacitance measurement	Isolation resistance measurement	Resistance symmetry measurement	Loop resistance measurement	DC current measurement	Unbalance	Near-end crosstalk	Termination detection	Remote control of loop assistant
0	-											
1	Auto test prof.	-										
2	-											
3	-				Polarity	-						
4	-				Range limit	-						
5	-				Meas. voltage	-						
6	Wire types	-	Wire types		-	Wire types		-				
7	-											
8	-		Susceptibility					-				
9	-	Display mode	-	Display mode		-	Display mode		-			
⎍	-											
#	-	Input resistance	-									
✳ then 0	-											
✳ then 1	Copper Box info											
✳ then 2	-											
✳ then 3	-											
✳ then 6	-											
✳ then 7	-											

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Copper Box

Copper Box Test operation

Menu → Single tests → Copper Box → Auto / U / CSym / C / Iso. / RSym / R / I= / LCL / NEXT / Sig. / Rem. → Copper Box active

Short circuit a/T-b/R
Exchange connect
Short circ. a/T-b/R-GND
Open circuit
Tone mode

Auto test profiles → **Auto test** → **Auto test sequence** → Auto test (U, C, Iso., LCL, ...; Tip, Ring, GND, opt.; Setting, Insert, Delete)

Notice

Profile name
Auto test

Insert → Insert a new test and select the jack assignment

Setting →
- *2 **Polarity**
- *2 **Range limit**
- **Measurement voltage**
- *4 **Susceptibilty**
- *6 **Start function**
  - ***Automatic start***
  - Pause: manual loop
- *7 **Command**
  - Short circuit a/T-b/R
  - ***Exchange connect***
  - Short circ. a/T-b/R-GND
  - Open circuit
  - Tone mode
- **Waiting time**
  - ***100 ms***

→ See below

Copper Box Test configuration

Menu → Single tests → Copper Box → Auto / U / CSym / C / Iso. / RSym / R / I= / LCL / NEXT / Sig. / Rem.

Copper Box
- *1 **Auto test profiles**
- *2 **Polarity**
  - ***Standard***
  - Inverse
- *2 **Range limit**
  - 1 MOhm
  - 10 MOhm
  - 100 MOhm
  - ***1000 MOhm***
- *2 **Measurement voltage**
  - ***High voltage (105 V)***
  - ***Low voltage*** (8 V)
- *3 **Wire types** → **Wire types 1-20**
  - Wire type selection
  - Edit wire type
    - **Speed of propagation** → **V/2 in m/µs** ***66.0***
    - **Line resistance** ***80 Ohm/km***
    - **Capacitance** ***39 nF/km***
    - **Name** ***PE 0.5 AWG24***
    - **VoP in %** ***98.9***
- *4 **Susceptibility**
  - ***Robust for ext. voltage***
  - Insecure (fast)
- *5 **Display mode**
  - Normal display mode
  - ***Min/Max display mode***

Note

- *1 = Autotest
- *2 = Iso.
- *3 = Auto test, CSym, C, RSym, R
- *4 = CSym, C, Iso., RSym, R,
- *5 = U, C, Iso., R, I=, LCL, NEXT
- *6 = RSym, R
- *7 = Rem.

Cross reference:

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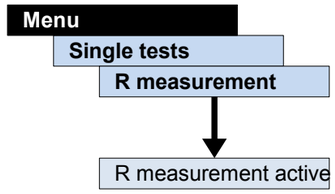
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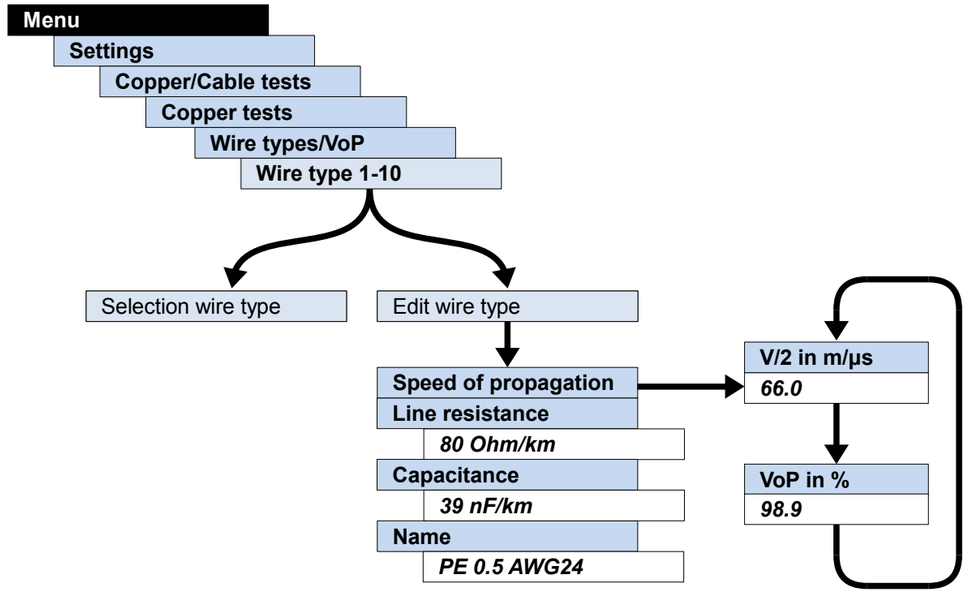
Others	page
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R measurement Test operation

Copper tests

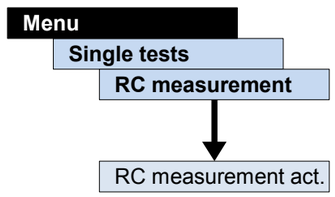


R measurement Test configuration

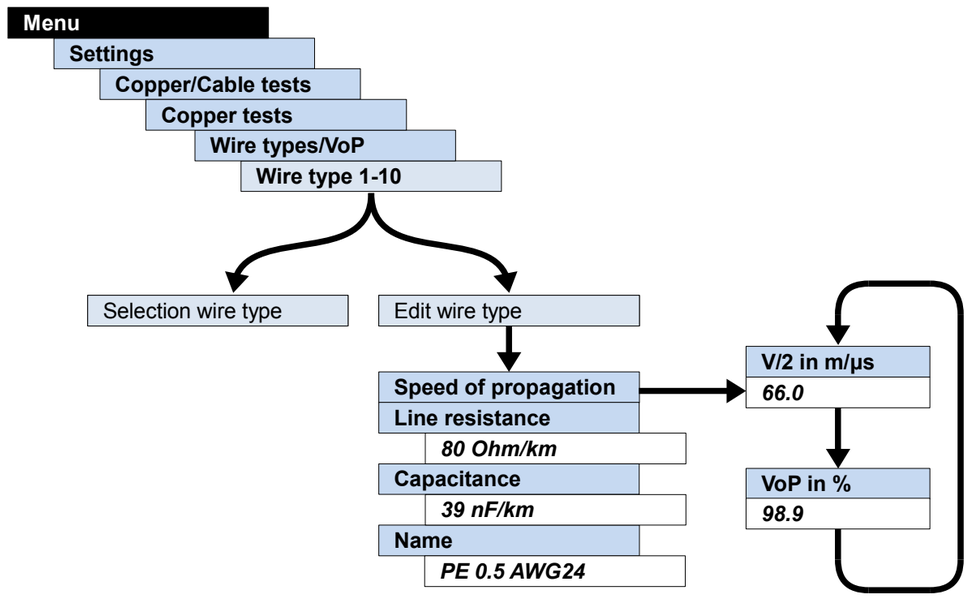


RC measurement Test operation

Copper tests



RC measurement Test configuration



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Line scope Test operation

Copper tests

Menu
Single tests
Line scope
Line scope active

TDR Test operation

Copper tests

Menu
Single tests
TDR
TDR active

TDR Test configuration

Menu
Settings
Copper/Cable tests
Copper tests
Wire types/VoP
Wire type 1-10

Selection wire type

Edit wire type

Speed of propagation
66.0
Line resistance
80 Ohm/km
Capacitance
39 nF/km
Name
PE 0.5 AWG24

V/2 in m/µs
66.0
VoP in %
98.9

Test leads and pin assignments
ADSL, VDSL, Ethernet

Cross reference:

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Profile, Virt.-Profile VoIP-Account	12-17
Battery (status,...)	7
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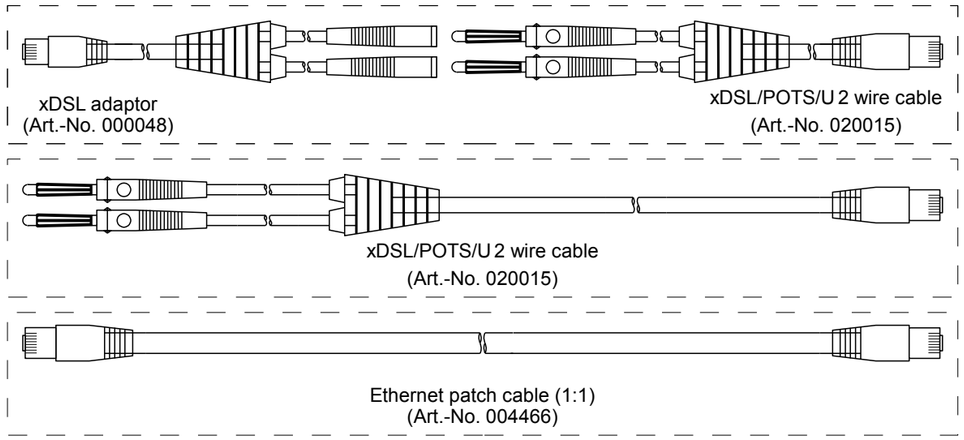
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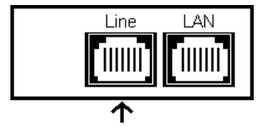
ADSL / VDSL



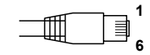
RJ11	Ban.	RJ45
3	rd	4
4	blk	5

Ban.	RJ45
rd	4
blk	5

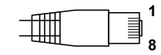
RJ45	RJ45
1-8	1-8



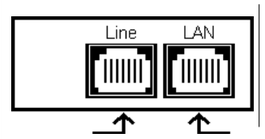
RJ11



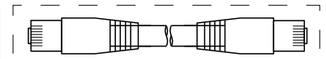
RJ45



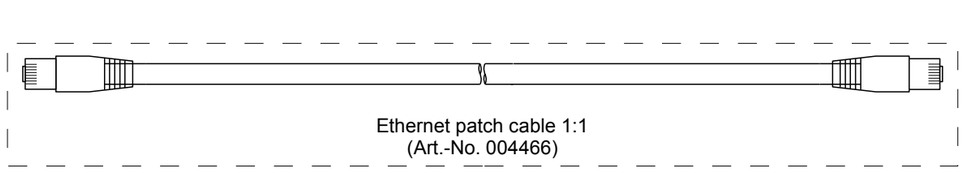
ADSL / VDSL – Bridge / Router



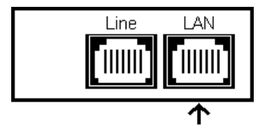
RJ45	RJ45
1-8	1-8



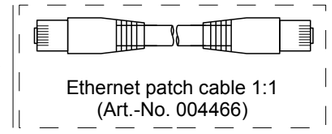
Ethernet



RJ45	RJ45
1-8	1-8



RJ45	RJ45
1-8	1-8



Test leads and pin assignments
Copper tests

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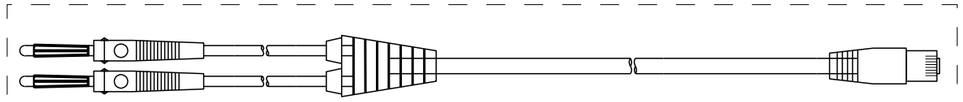
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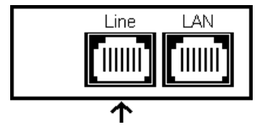
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Copper tests: R measurement / RC measurement / Line scope / TDR



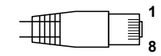
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020015)

Ban.	RJ45
rd	4
blk	5



The copper tests are performed using pin 4/5 of the line interface. Alternatively, the test can be carried out with every other test leads that is using pin 4/5.

RJ45

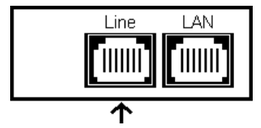


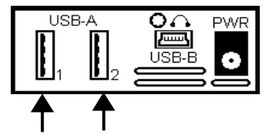
Copper tests: Line scope



Active Probe II
(Art.-No. 015091)

Ban.	RJ45
blk	4
blk	5





The Active Probe II needs to be powered by the USB-A interface. The power supply can be enabled in the settings or according tests.

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GESELLSCHAFT FÜR
INFORMATIONSTECHNIK mbH

Rahmedestraße 90
58507 Lüdenscheid

Tel.: +49 (0) 23 51 / 90 70-0
Fax: +49 (0) 23 51 / 90 70-70
Email: sales@argus.info
http://www.argus.info/en