ARGUS®
testing the telecom network



ADSL
VDSL
GigE
ISDN
POTS
LTE
Cu
TDR
LQ
Copper Box
Data 10110101011
IP TV
Vo IP
MOS
PESQ
PC
USB
WLAN

ARGUS® 152

» Overview of menu and test leads

valid from firmware version R2.90.00

intec
GESELLSCHAFT FÜR INFORMATIONSTECHNIK mbH

Legend, Status, Protocol overview

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Legend General

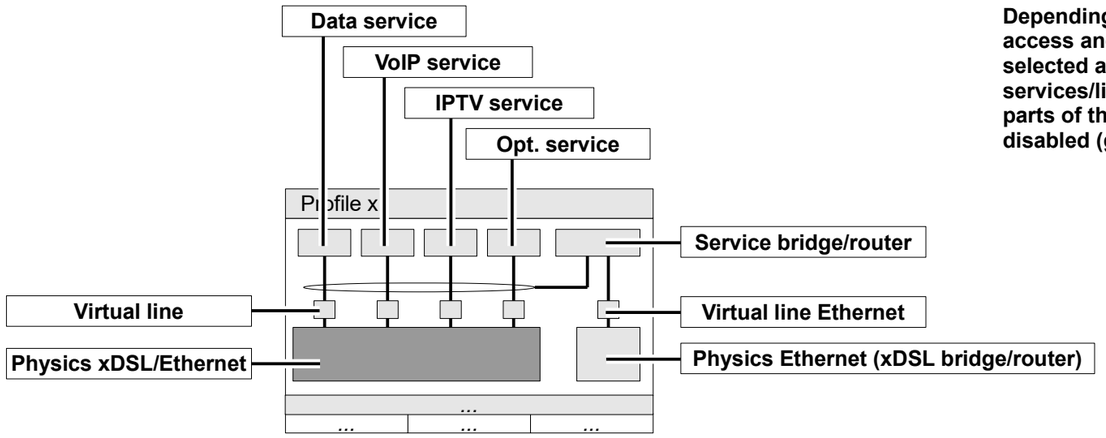
Menu
Configuration menu
Defaul Config.menu
Input menu
Default input menu

Depending on the specified interface, menu item will be shown

Menu item only matters for specified interface

Legend Status

ADSL / VDSL / Ethernet / LTE



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 / LTE

Access	ADSL					VDSL						ETH	LTE
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	LAN 1	USB
Protocol / **ATM/Ethernet**													
without / - / without		**a**	**a**				**a**	**a**					
IP / - / IP					**a**	●			●	**a**		●	
IP / Yes / EoA	●			●									
IP / No / IPoA	●			●									
PPP / Yes / PPPoE	●			●		●			●			●	●
PPP / No / PPPoA	●			●									
PPTP / - / PPTP												●	

● – Protocol configurable (see page 18)
a – Protocol set automatically

Note

The basic ARGUS *152* 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 / LTE

Key	ADSL	VDSL	Ethernet	LTE
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 5	Test result upload (FTP)			
✳ then 6	Test status			
✳ then 7	Store			
✳ then 8	Configuration import			
✳ then 9	Firmware update			

BRI S / BRI U / POTS

Key	BRI S / BRI U	POTS
0	ARGUS status	
1	Help hotkeys	
2	Service check	-
3	Supp. Serv. test	-
4	Auto. Test	-
5	Test data to PC	
6	Test manager	-
7	Numbers	
8	-	
9	BERT start	-
⎍	Level measuring	Voltage measuring
✆	Connection	
✳ then 0	Access	
✳ then 1	ARGUS info	
✳ then 2	Restore config.	
✳ then 3	Factory setting	
✳ then 5	-	
✳ then 6	Test manager	-
✳ then 7	-	
✳ then 8	-	
✳ then 9	-	

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 5	-	
✳ then 6	-	
✳ then 7	-	Store
✳ then 8	-	
✳ then 9	-	

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	min / max	-
#	-	-
✓	Continue	-
⎍	-	-
✳ then 0	-	-
✳ then 7	Store	-

Test hotkeys

Copper tests

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

Single tests

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Menu Single tests

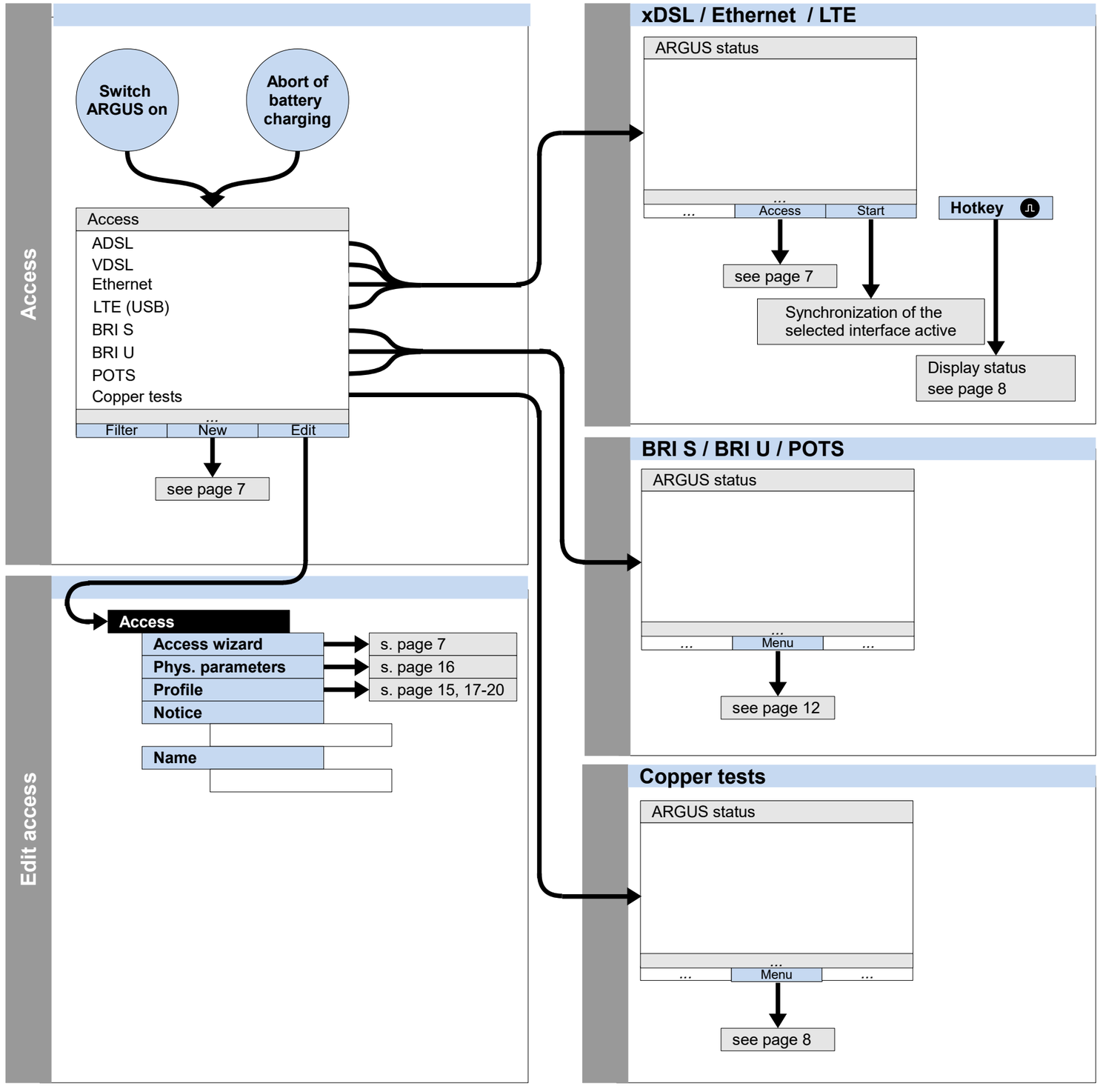
ADSL / VDSL / Ethernet / LTE

	ADSL / VDSL	ADSL - / VDSL- bridge	ADSL-/ VDSL- router	Ethernet IP based	Ethernet cable test	LTE	Copper tests
IP ping	x	-	x	x	-	x	-
Trace route	x	-	x	x	-	x	-
HTTP downl./ upl.	x	-	x	x	-	x	-
FTP downl. / upl.	x	-	x	x	-	x	-
FTP sever	x	-	x	**x**	-	-	-
Text browser	x	**-**	x	x	-	x	-
Network scan	-	-	-	x	-	-	-
VPI/VCI scan	only ADSL	only ADSL	only ADSL	-	-	-	-
ATM OAM ping	only ADSL	only ADSL	only ADSL	-	-	-	-
VoIP call/ wait/ PESQ test	x	-	x	x	-	-	-
IPTV / IPTV scan	x	-	x	x	-	-	-
IPTV passive	-	x	x	x	-	-	-
Video on demand	x	-	x	x	-	-	-
LTE scan	-	-	-	-	-	x	-
Loop	-	**-**	-	x	-	-	-
ETH TDR / cable test	-	-	-	-	x	-	-
Port flash	-	-	-	-	x	-	-
Copper Box	x	x	x	-	-	-	x
R measurement RC measurement	-	-	-	-	-	-	x
Line scope / TDR	-	-	-	-	-	-	x
Line qualification / Line symmetry	-	-	-	-	-	-	x

Switch on and access menu

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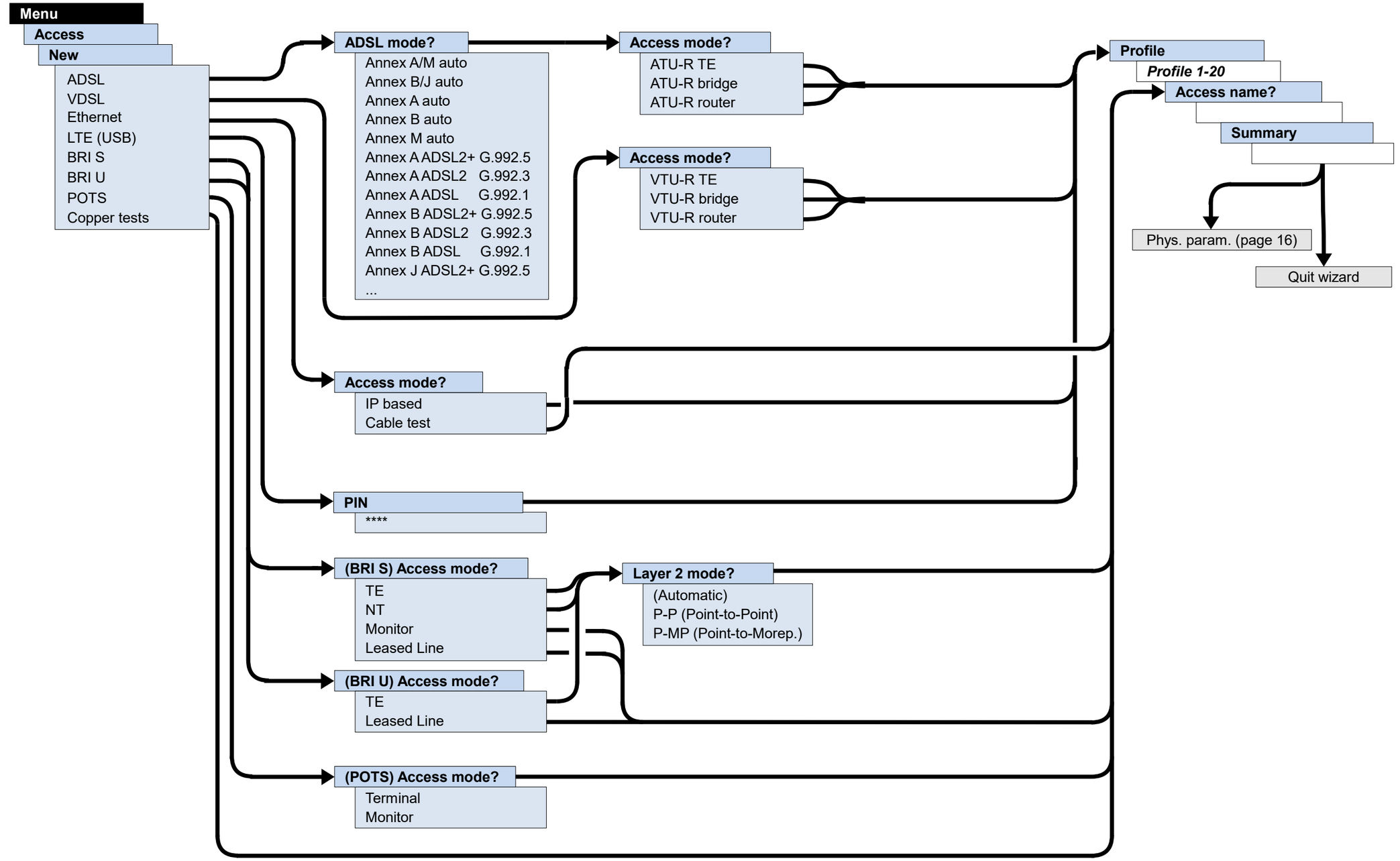


Access wizard

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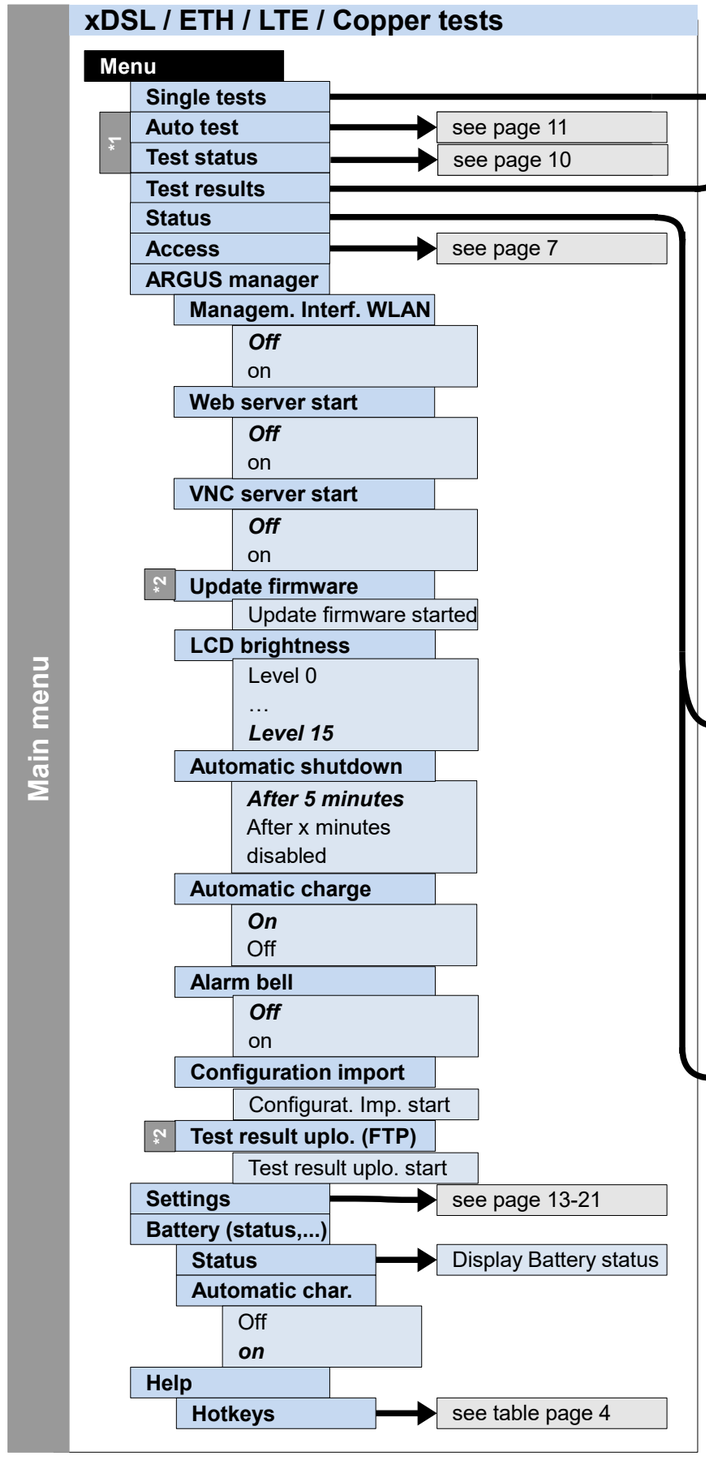
Access wizard

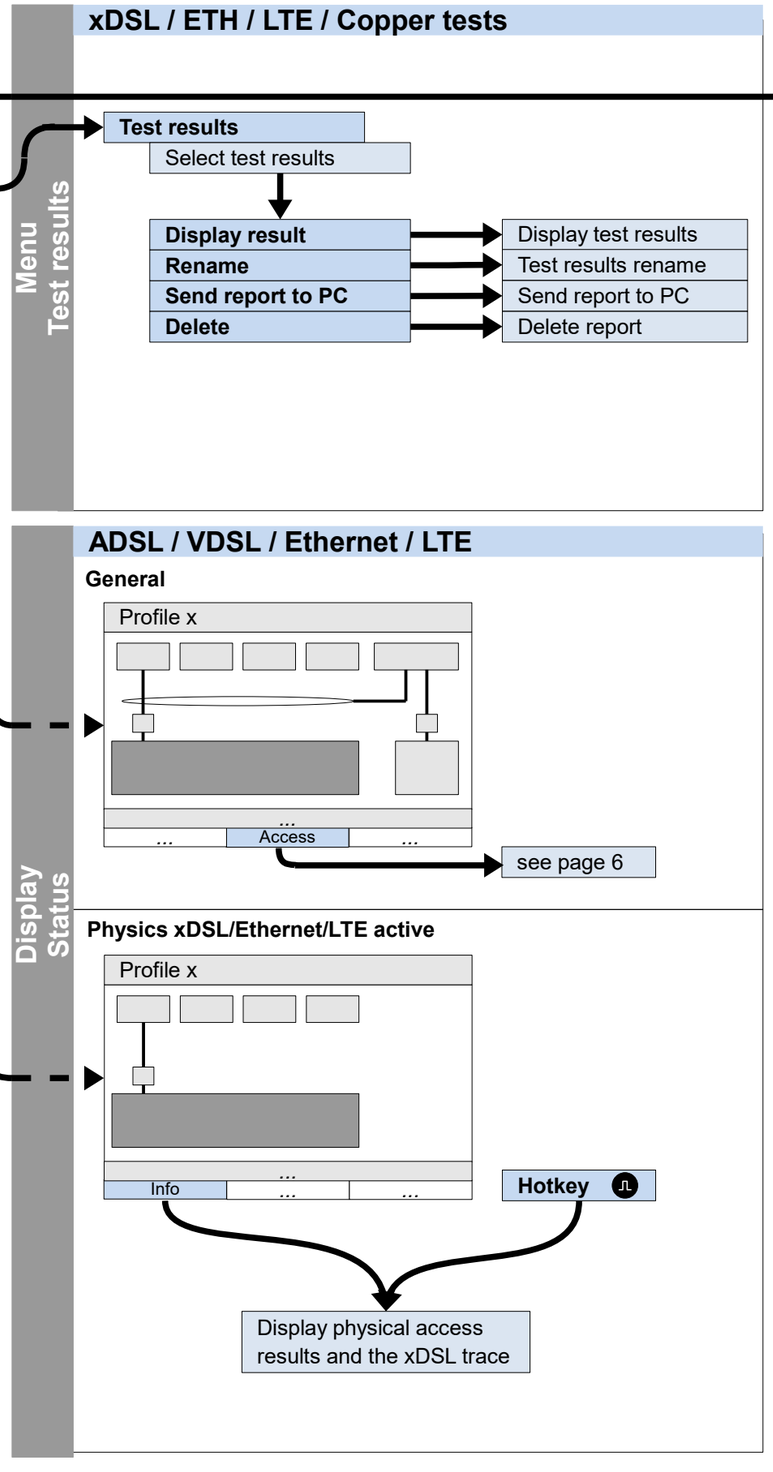


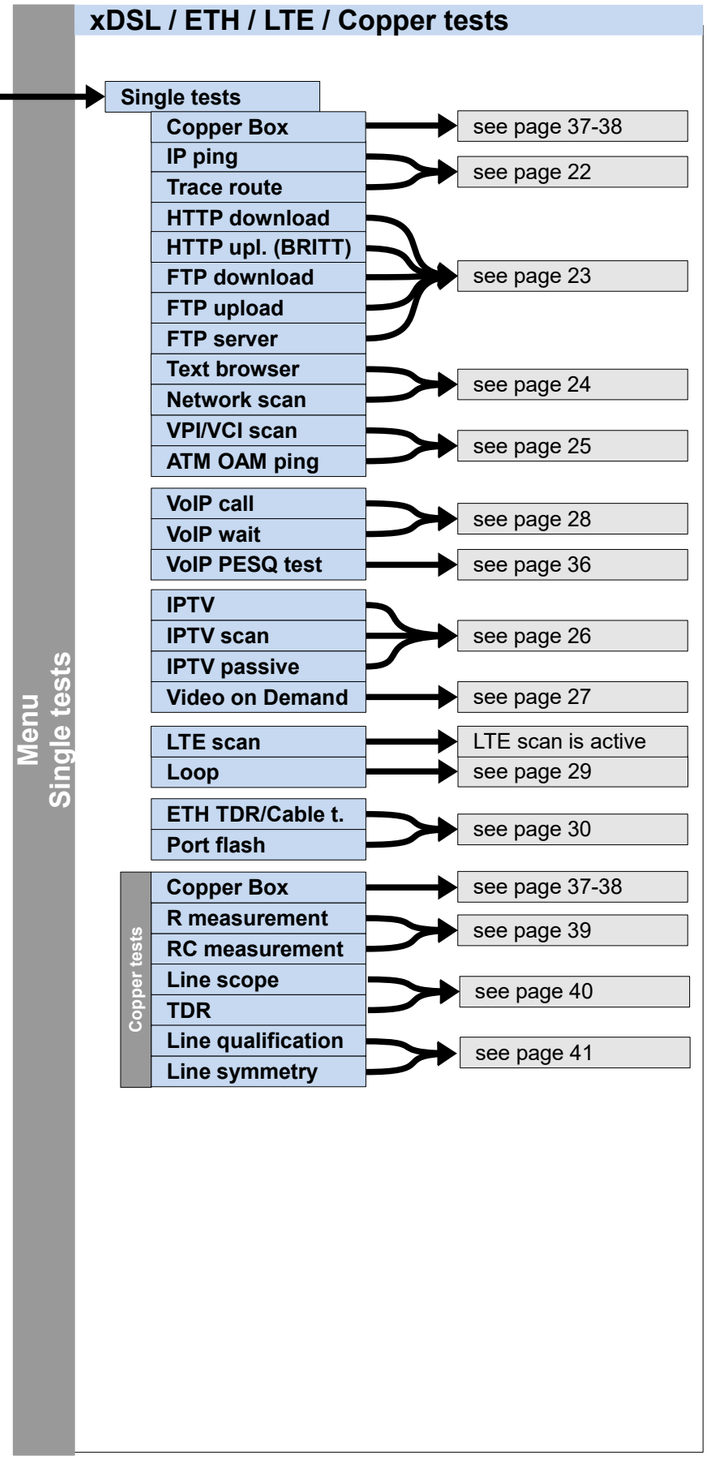
Main menu, Single tests, Test results, Status
(Access: ADSL, VDSL, Ethernet, LTE, Copper tests)

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Note

*1 = ADSL, VDSL, Ethernet

*2 = not for Copper tests, ETH cable test

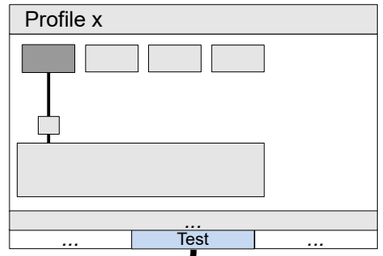
Service tests: Data tests, VoIP tests, IPTV tests, opt. tests, Bridge tests, Physic tests (Access: ADSL, VDSL, Ethernet, LTE)

Cross reference:

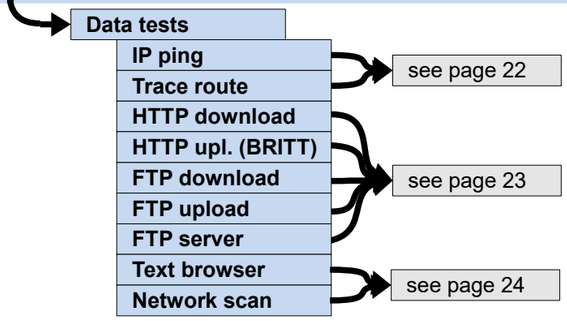
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Display Status – xDSL / Ethernet / LTE

Service active

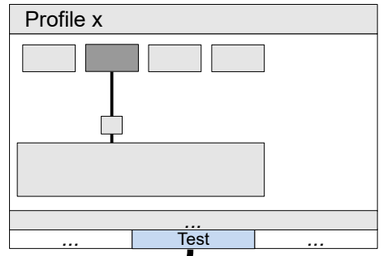


Menu Data tests

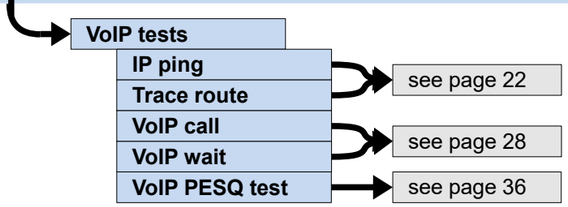


Display Status – xDSL / Ethernet

Service active

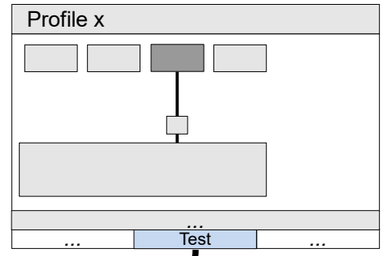


Menu VoIP tests

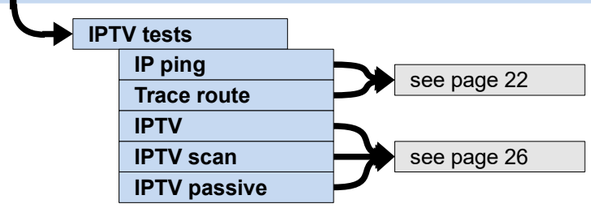


Display Status – xDSL / Ethernet

Service active

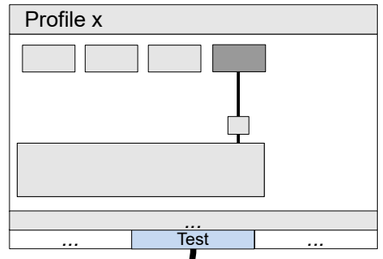


Menu IPTV tests

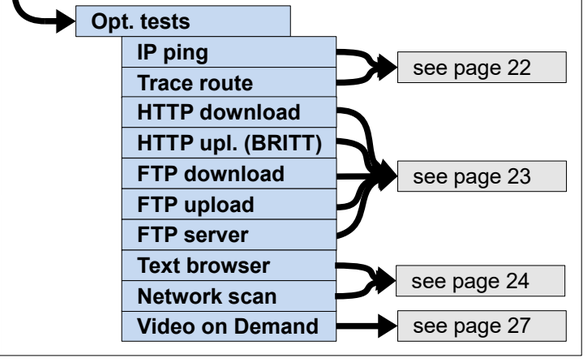


Display Status – xDSL / Ethernet

Service active

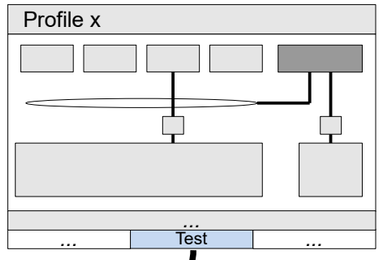


Menu Opt. tests



Display Status – ADSL / VDSL

Service active

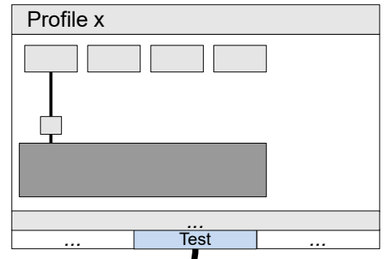


Menu Bridge tests

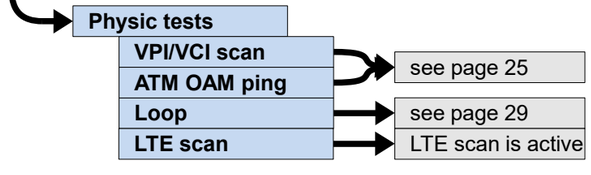


Display Status – ADSL / Ethernet / LTE

Physics xDSL/Ethernet active, Services inactive



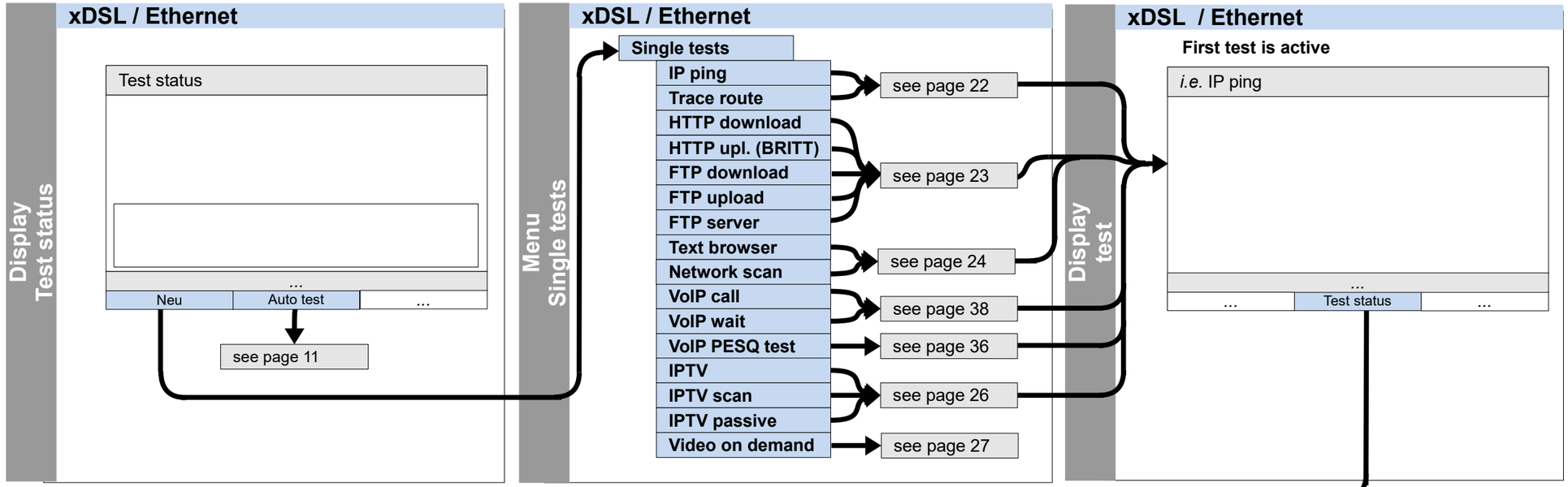
Menu Physic tests



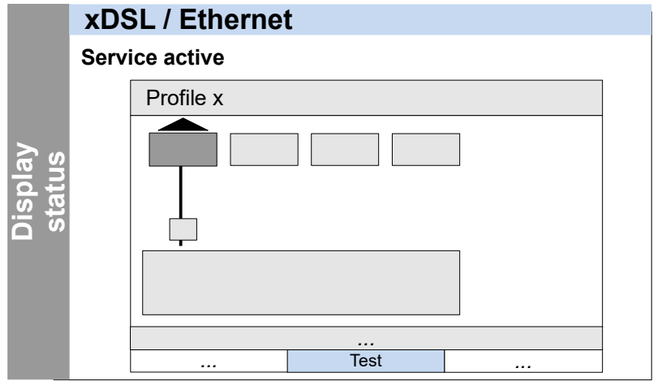
Service tests: Parallel tests
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Using the cursor keys for switching between status and Test status.



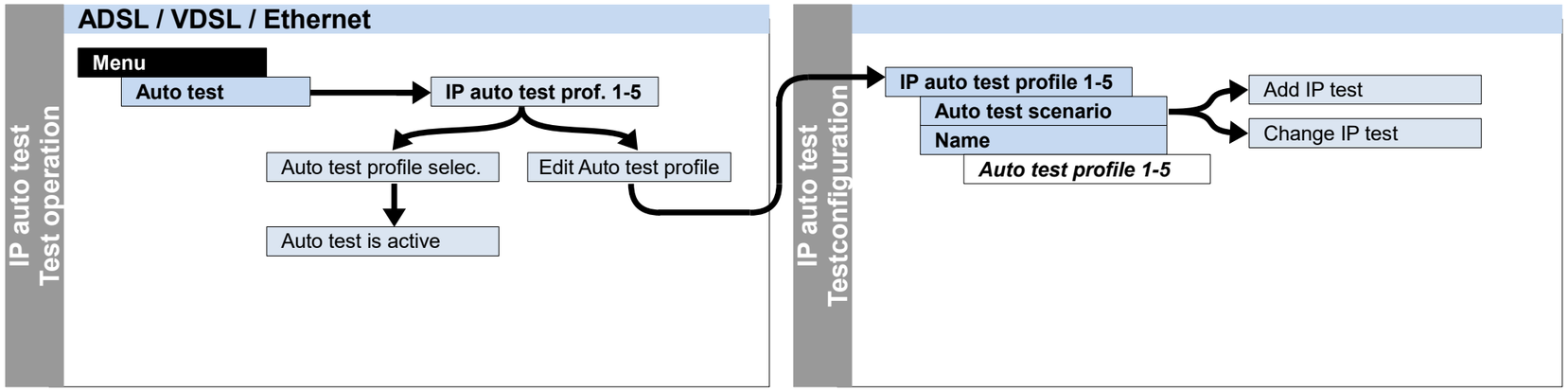
Note

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

Service tests: IP auto test

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Main menu, Single tests, Test results (Access: BRI S, BRI U, POTS)

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Main menu — BRI S / BRI U / POTS

- **Menu**
  - Single tests
  - *1 Auto test → Start ISDN tests
  - *1 Test manager
    - Cancell all → Cancell all tests
    - Start new one → Start new single test
  - *2 Listen to → see page 35
  - *3 Start monitor → see page 35
  - Test results
  - Level measurem.
    - *2 Connected line
    - Other TE
    - BRI U Volate BRI U
    - Power BRI U
    - *4 Connected line

    → Display Level measuring
  - *2 L1 status → Display L1 status
  - Access → see page 7
  - ARGUS manager
  - Settings → see page 13-21
  - Battery (status,...)
    - Status → Display Battery status
    - Automatic char.
      - ***On***
      - Off
  - Help
    - Hotkeys → see table page 4

Menu Test results — BRI S / BRI U / POTS

- **Test results**
  - Select test results
    - **Display result** → Display Test result
    - **Rename** → Rename Test result
    - **Send report to PC** → Send to PC active
    - **Delete** → Delete test result

Menu Single tests — BRI S / BRI U / POTS

- **Single tests**
  - BRI S, BRI U
    - **BERT** → see page 31
    - **Supp. Serv. test** → see page 32
    - **Service test** → see page 32
    - **X.31 test** → see page 33
    - **CF interrogation** → see page 34
    - **CF activation** → see page 34
    - **CF delete** → see page 34
    - **Phone / connection** → see page 34
    - **Time measurement** → see page 35
    - **PESQ test** → see page 36
  - POTS
    - **Phone / connection** → Phone/con. active
    - **PESQ test** → see page 36

Menu ARGUS manager

- **ARGUS manager**
  - **Managem. Interf. WLAN**
    - ***Off***
    - on
  - **Web server start**
    - ***Off***
    - on
  - **VNC server start**
    - ***Off***
    - on
  - **LCD brightness**
    - Level 0
    - …
    - ***Level 15***
  - **Automatic shutdown** → **Automatic shutdown**
    - ***After 5 minutes***
    - After x minutes
    - disabled
  - **Automatic charge** → **Automatic charge**
    - ***On***
    - Off
  - **Alarm bell**
    - ***Off***
    - on
  - **Configuration import**
    - Configurat. Imp. start
  - **Test result uplo. (FTP)**
    - Test result uplo. start

Note

*1 = BRI S, BRI U
*2 = BRI S
*3 = BRI S, POTS
*4 = POTS

Settings and reset
Numbers, Backup/Restore, Cloud services

Cross reference:

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Menu Settings

- **Menu**
  - **Settings**
    - *1 **Profiles** → see page 15-20
    - **ISDN and analogue** → see page 21
    - **Copper/Cable tests** → see page 37-41
    - **PESQ** → see page 36
    - **Cloud services**
    - **Remote access** → see page 14
    - **Device** → see page 14
    - **Company address**
    - **Backup/Restore**
      - **Back up configuration**
        - Save current configuration
      - **Restore configuration**
        - Restore saved configuration
      - **Factory settings**
        - Reset to factory settings
      - **Configuration import**
        - Configuration import started

Note

A Firmware update and a configuration import can only be performed successfully when a connection to the service „data“ exists.

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.

Note

*1 = not for ISDN

Menu Cloud services

- **Cloud services**
  - **Firmware update**
    - **Server** → **Server selection**: ***Firmware***, Configuration, Test result
    - **Update check**: ***off***, on
    - Update
  - **Configuration import**
    - **Server** → **Server selection**: Firmware, ***Configuration***, Test result
    - **Check**: ***off***, on
    - Import
  - **Test result upload**: Firmware, Configuration, ***Test result***
    - → **Server**
      - **Use FTPS**: ***No***, Yes
      - **FTP server address**: ***firmware.argus.info***
      - **Username**: ***argus***
      - **Password**: ***update***
      - **Profilename**: ***Firmware***
    - → **Server**
      - **Use FTPS**: ***No***, Yes
      - **FTP server address**
      - **Username**
      - **Password**
      - **Profilename**: ***Configuration***
    - → **Server**
      - **Use FTPS**: ***No***, Yes
      - **FTP server address**
      - **Username**
      - **Password**
      - **Profilename**: ***Test result***

Server selection: ***Firmware***, Configuration, Test result

- → **Server**
  - **FTP server address**: ***firmware.argus.info***
  - **Username**: ***argus***
  - **Password**: ***update***
  - **Profilename**: ***Firmware***
- → **Server**
  - **FTP server address**
  - **Username**
  - **Password**
  - **Profilename**: ***Configuration***
- → **Server**
  - **FTP server address**
  - **Username**
  - **Password**
  - **Profilename**: ***Test result***

Settings and reset
Remote access, Device

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Menu Remote access

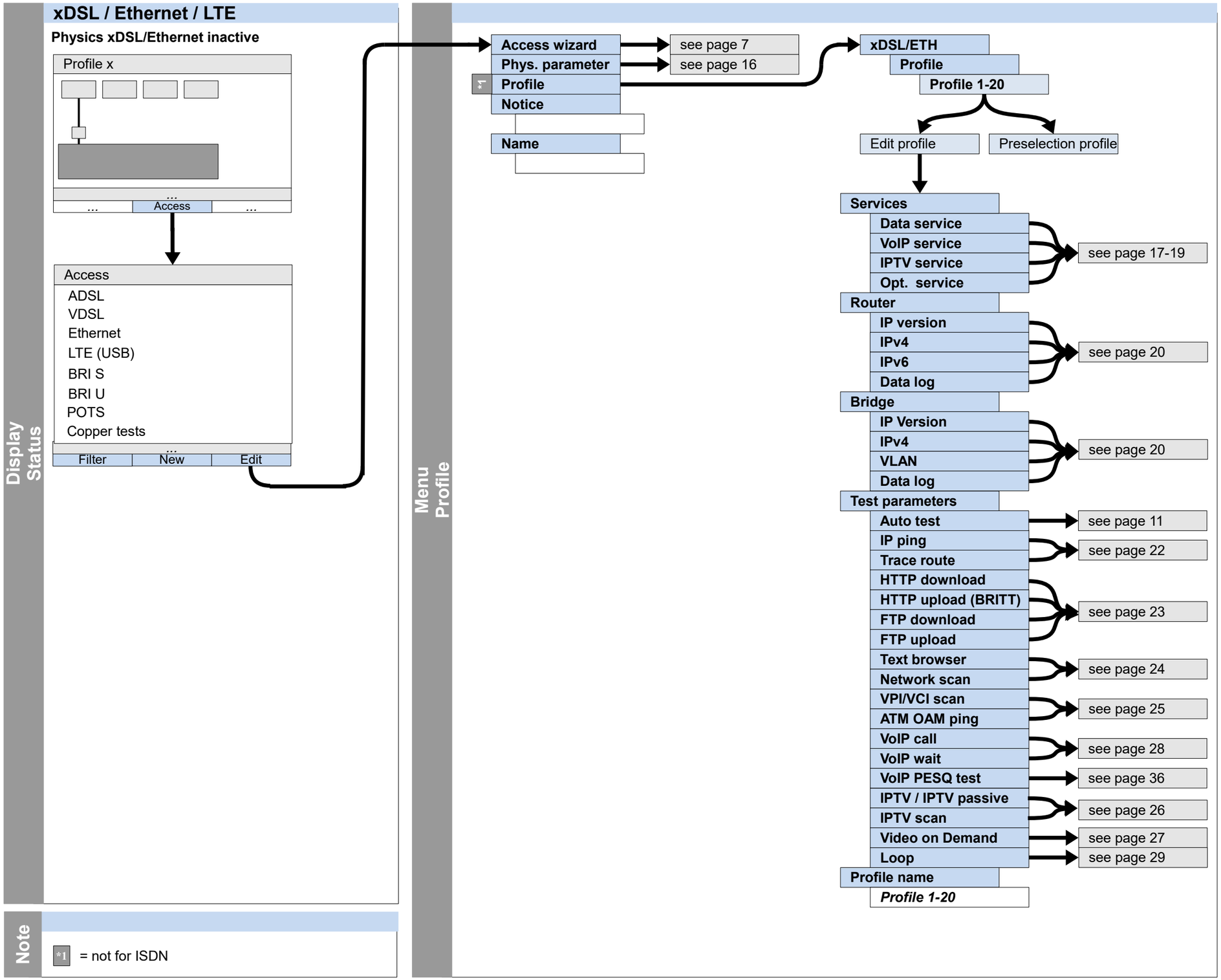
- **Menu**
  - **Settings**
    - **Remote access**
      - **Management interface** → **Start manage. Interf.**: ***Off***, on
      - **Web server**
        - **Start web server**: ***Off***, on
        - **Password protection**: Off, ***on***
      - **VNC server**
        - **Start web server**: ***Off***, on
        - **Password protection**: Off, ***on***
        - **VNC zoom factor**: Factor 1, ***Factor 2***, Factor 3, Factor 4
      - **Interface selection**: ETH, ***WLAN***
      - **WLAN**
        - **SSID**: ***ARGUS152_SN01234***
        - **Password**: ***argus152***
        - **Channel**: ***Channel: 1***
        - **DHCP server**
          - **Start/end address**: ***192.168.20.30*** / ***192.168.20.40***
          - **Domain**
          - **Reserve time**: Hours: ***240***
        - **IP settings**
          - **IP address**: ***192.168.20.1***
          - **Netmask**: ***255.255.255.0***
          - **Gateway**: ***0.0.0.0***

Menu Device

- **Menu**
  - **Settings**
    - **Device**
      - **Menu language** → **Menu language**: German, ***English***, Francais
      - **LCD brightness**: dark------light
      - **Date/time setting** → **Date/time setting**
        - **Time offset**: ***UTC+00:00***
        - **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***
      - **Ringer volume**
        - **Start volume** → **Start volume**: ***Level 1***, ..., Level 7
        - **End volume** → **End volume**: Level 1, ..., ***Level 7***
      - **Alarm bell**: On, ***Off***
      - **Jingle**: On, ***Off***
      - **Power management** → **Power management**
        - **Automatic shutdown**: ***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

Cross reference:

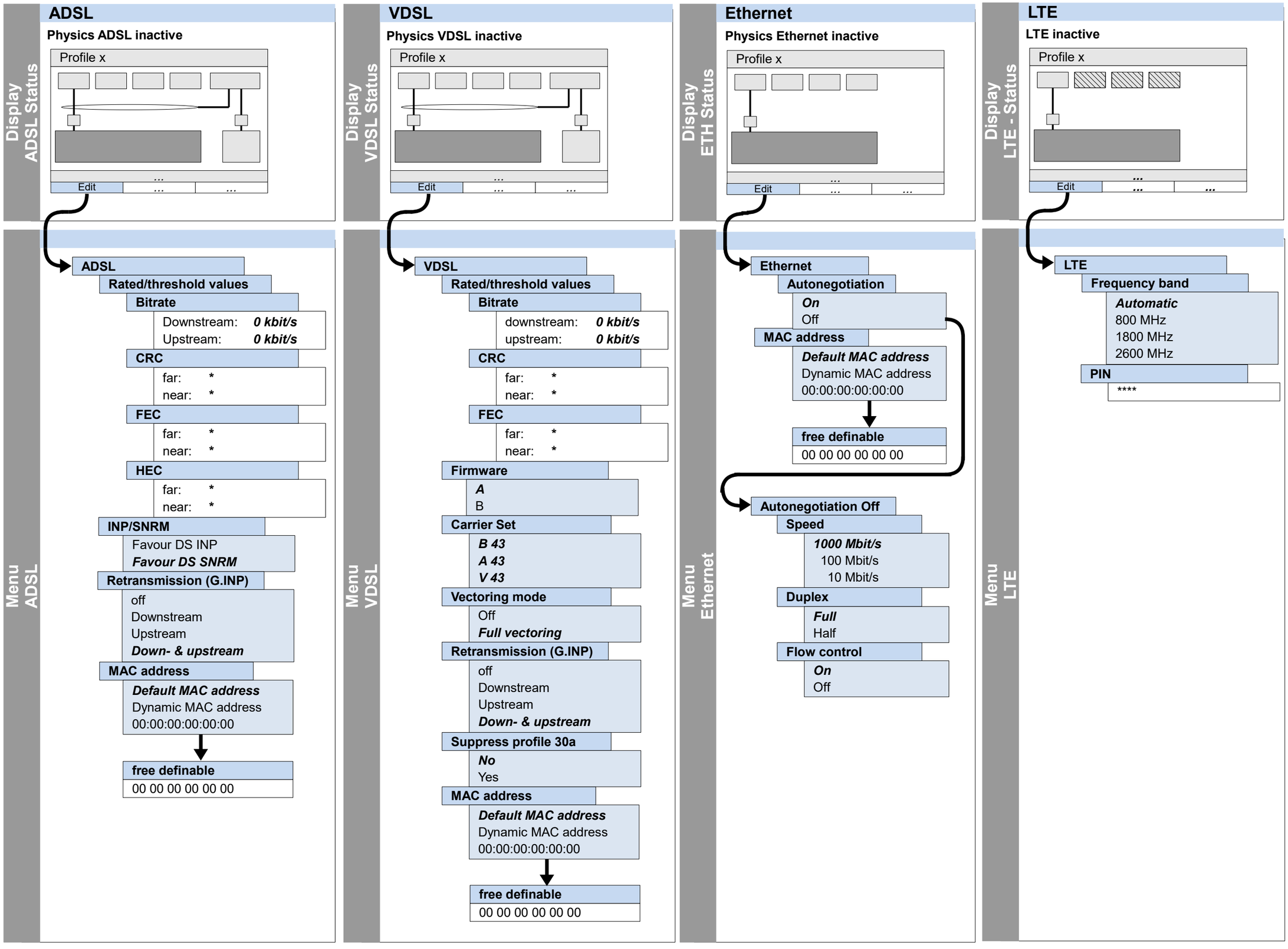
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Settings
Phys. parameters: ADSL, VDSL, Ethernet, LTE

Cross reference:

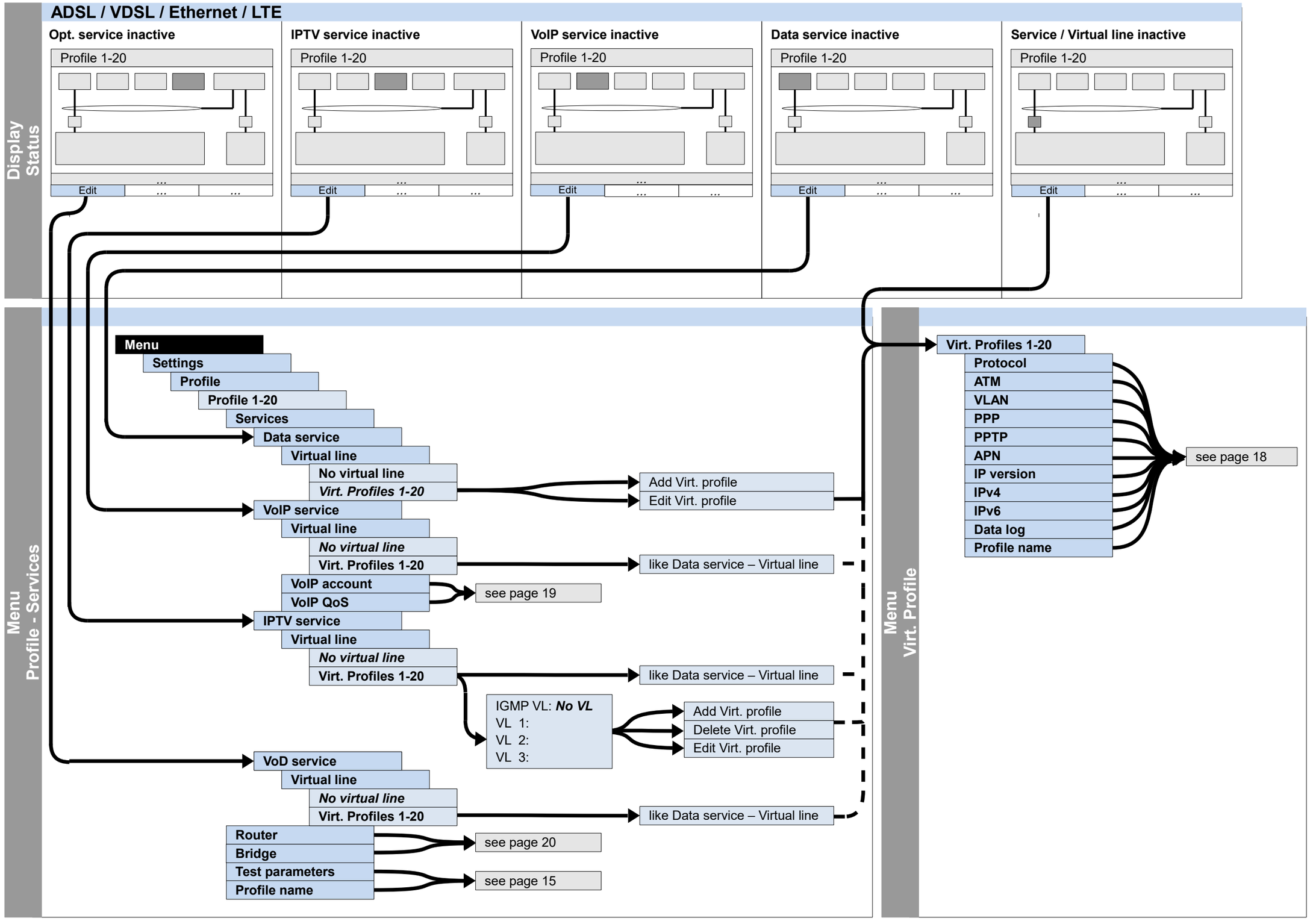
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Settings
Profile – Services (Data service, VoIP service, IPTV service, Opt. service), Virt. Profile

Cross reference:

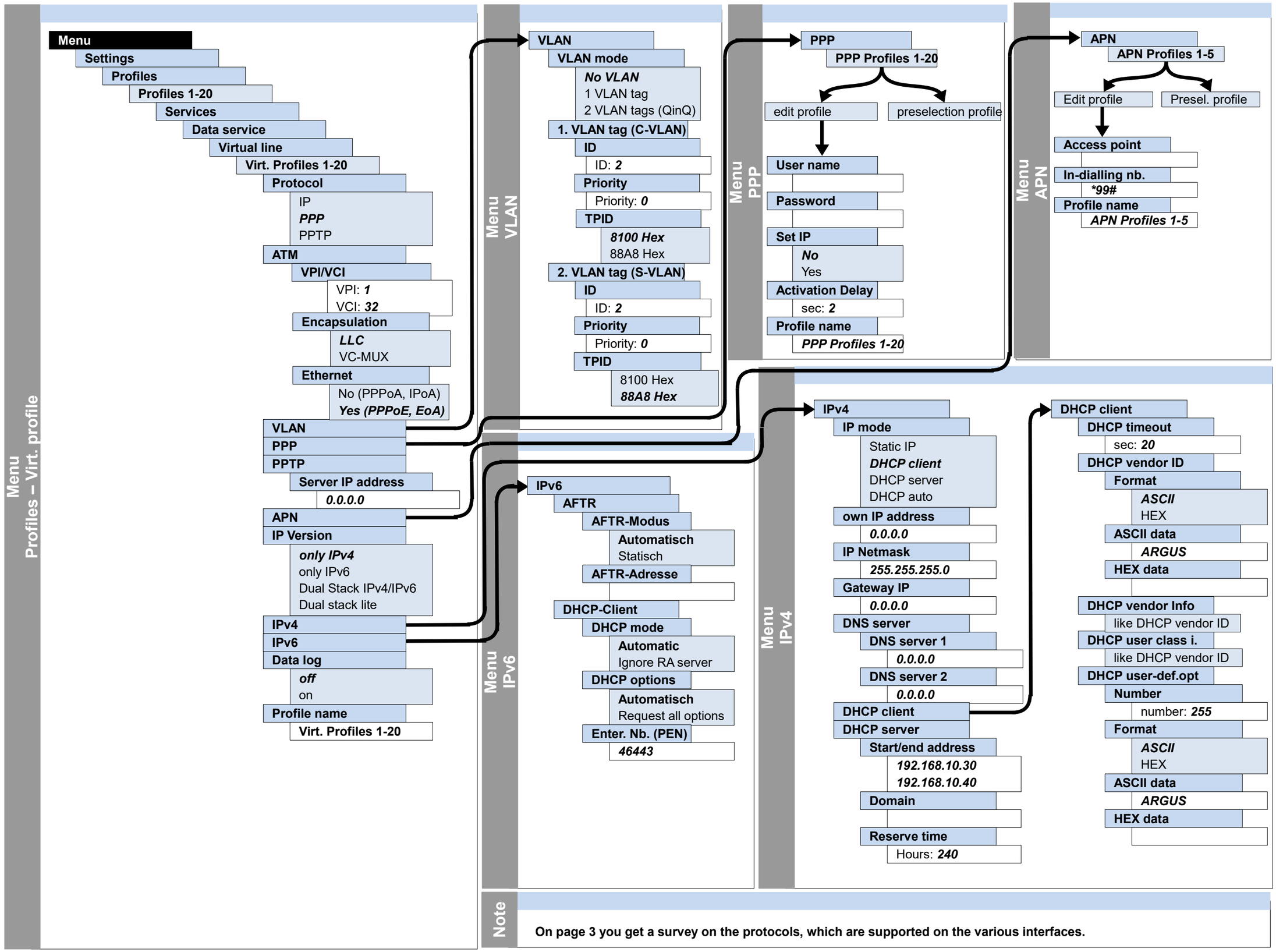
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Settings
Profiles – Virt. profile (Protocol, ATM, VLAN, PPP, PPTP, IP, Data log)

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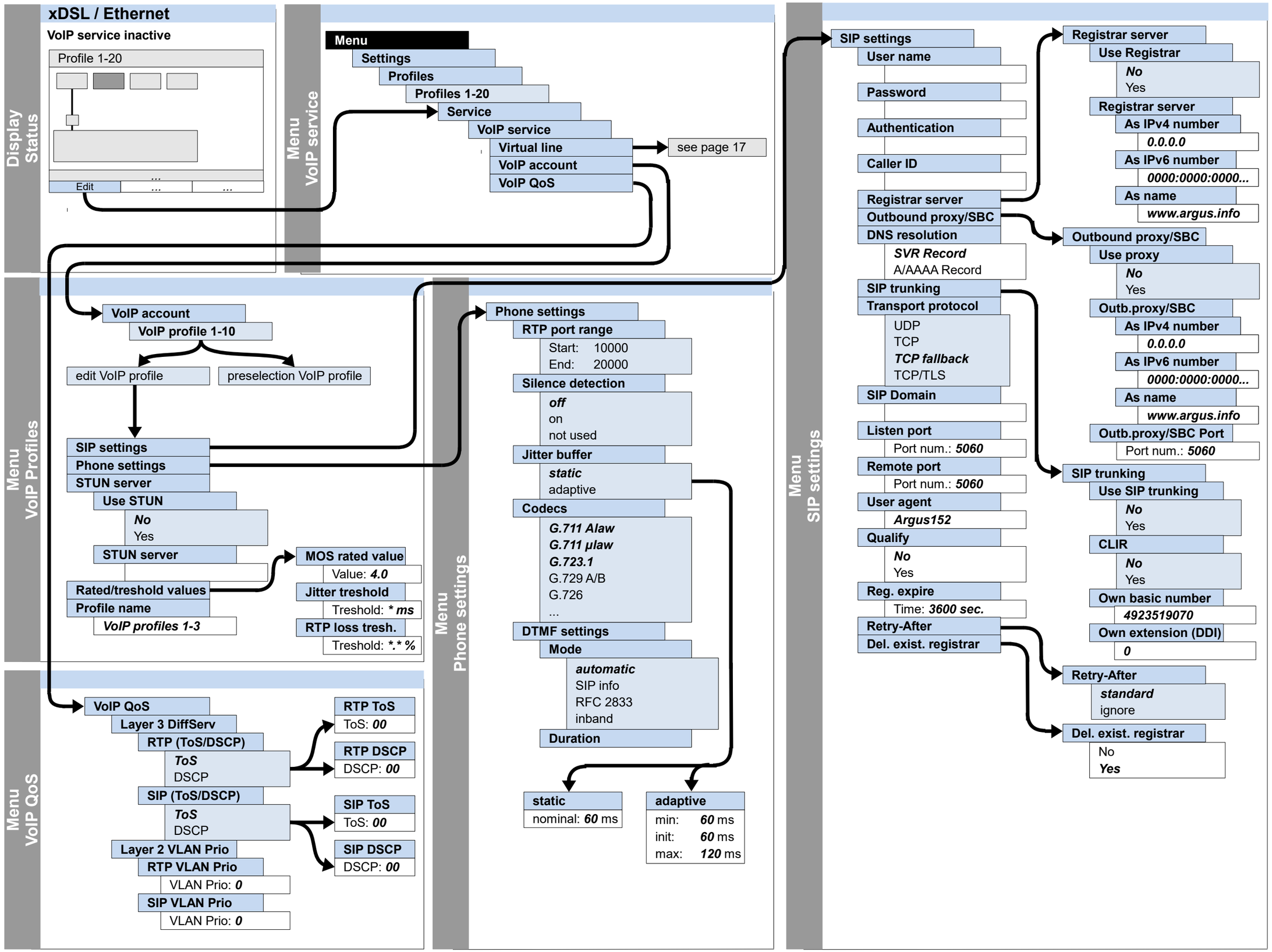


Note

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

Cross reference:

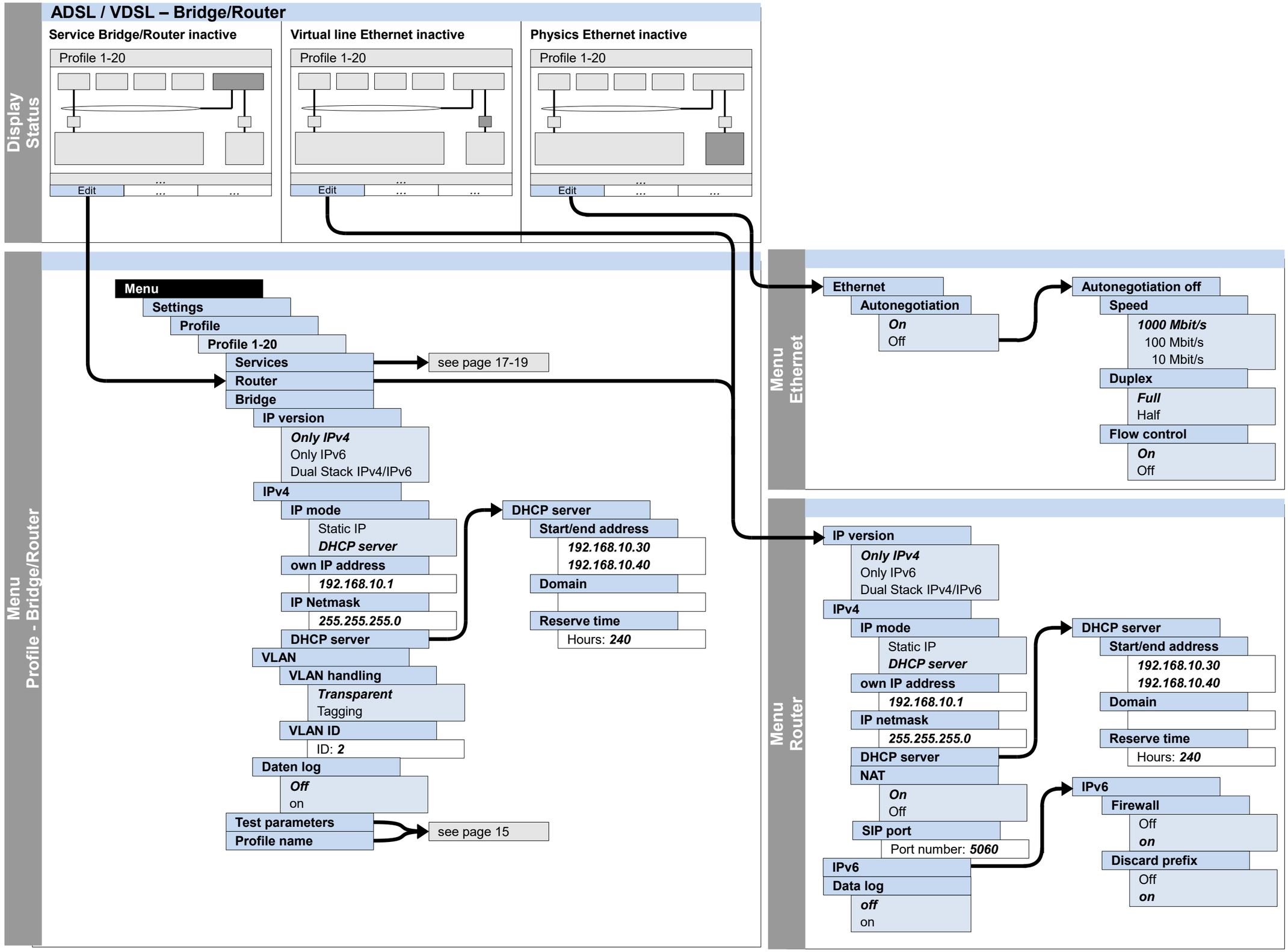
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Settings
Profile – Bridge/Router (Ethernet, Virtual line, Router)

Cross reference:

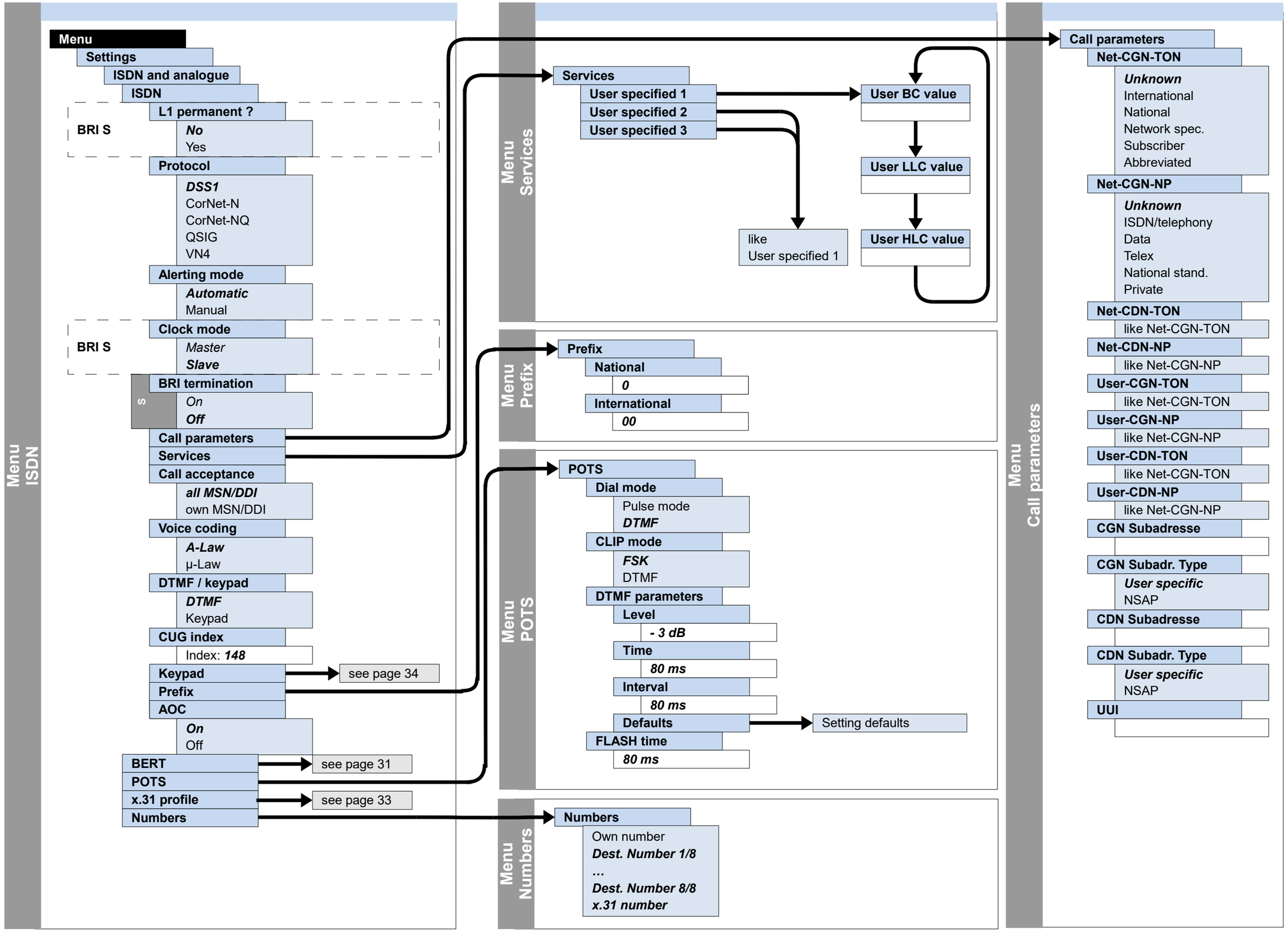
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Settings
ISDN (General, BRI S, BRI U, POTS)

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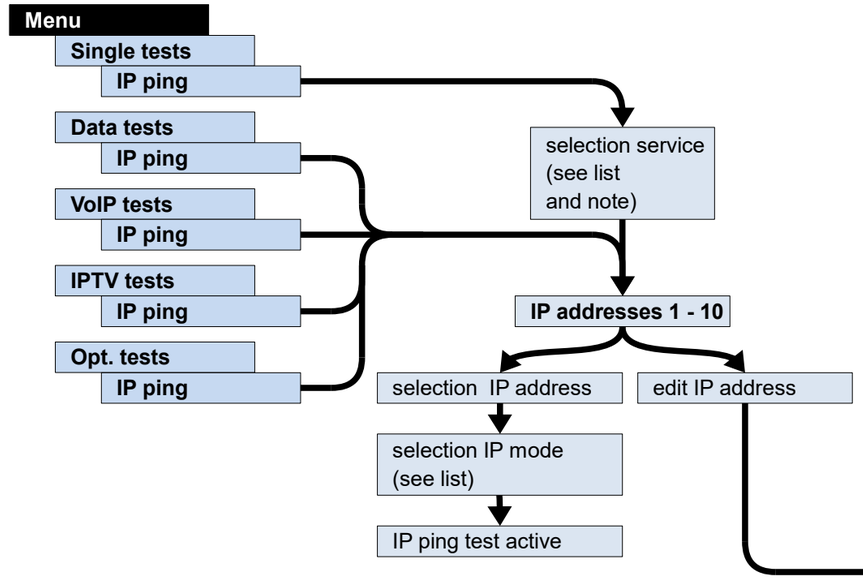


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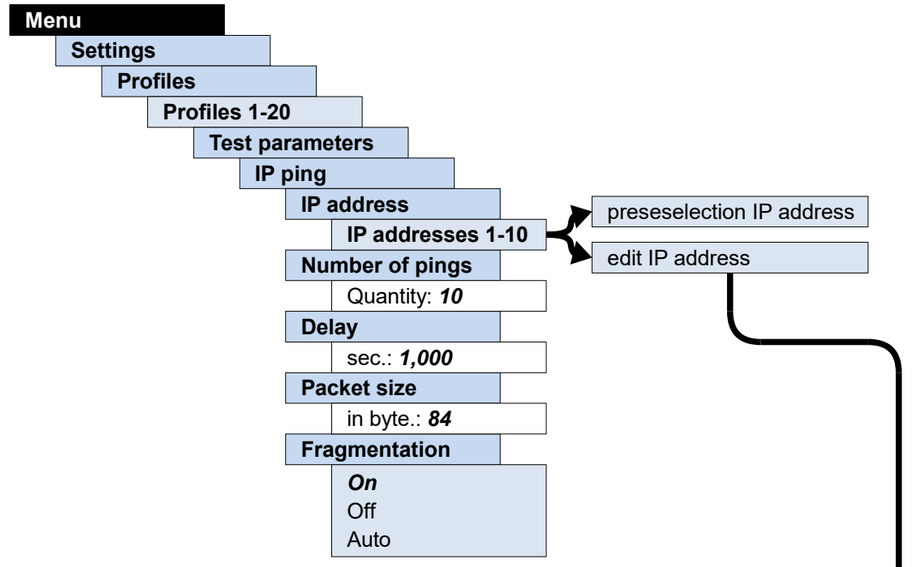
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IP ping Test operation

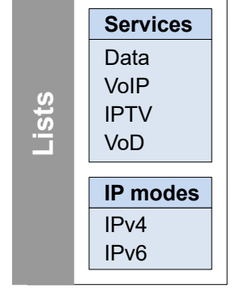
ADSL / VDSL / Ethernet / LTE



IP ping Test configuration

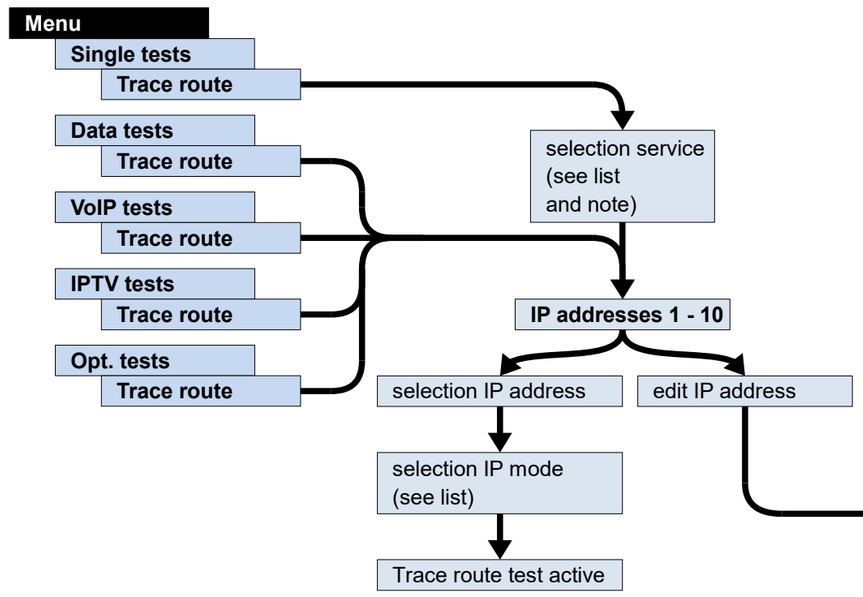


Lists

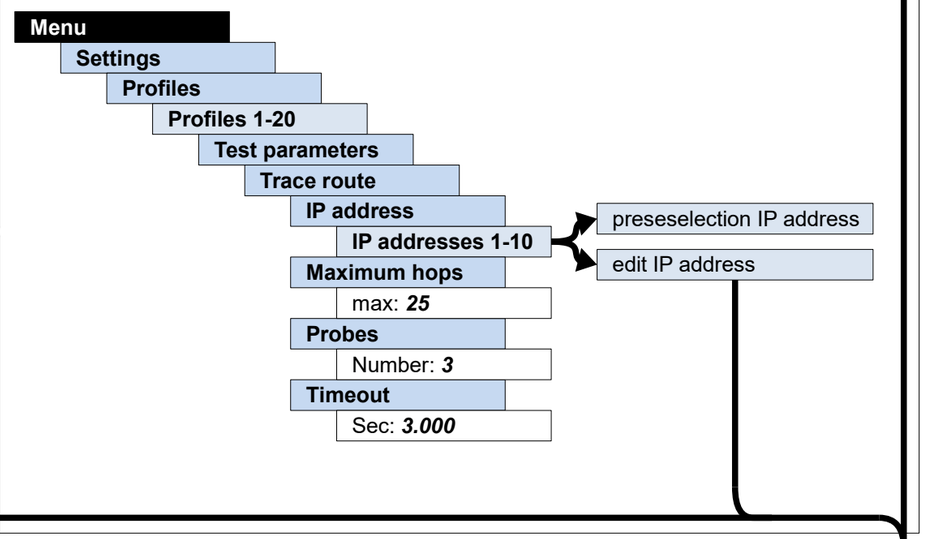


Trace route Test operation

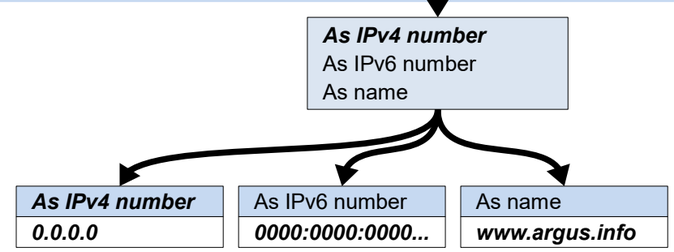
ADSL / VDSL / Ethernet / LTE



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 / LTE

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

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

HTTP download/-upload Test configuration

ADSL / VDSL / Ethernet / LTE

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 / LTE

Menu
- Single tests
  - FTP download
- Data tests
  - FTP download
- Opt. tests
  - FTP download

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

FTP download Test configuration

ADSL / VDSL / Ethernet / LTE

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 / LTE

Menu
- Single tests
  - FTP upload
- Datatests
  - FTP upload
- Opt. tests
  - FTP upload

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

FTP upload Test configuration

ADSL / VDSL / LTE

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
- Opt. 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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xDSL / Eternet / LTE

Text browser Test operation

- **Menu**
  - **Single tests** → **Text browser**
  - **Data tests** → **Text browser**
  - **Opt. tests** → **Text browser**
  - → **Text br. dest. 01/10 - 10/10**
    - selection text br. dest. → Text br. active
    - edit text br. dest.

Text browser Test configuration

- **Menu**
  - **Settings**
    - **Profiles**
      - **Profiles 1-20**
        - **Test parameters**
          - **Text browser**
            - **Text br. dest. 01/10 - 10/10**
              - selection text br. dest.
              - edit text br. dest.

Text br. dest. 01/10 - 10/10

Ethernet

Network scan Test operation

- **Menu**
  - **Single tests** → **Network scan**
  - **Data tests** → **Network scan**
  - **Opt. tests** → **Network scan**
  - → Network scan active

Network scan Test configuration

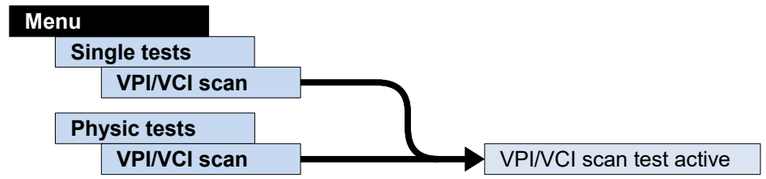
- **Menu**
  - **Settings**
    - **Profiles**
      - **Profiles 1-20**
        - **Test parameters**
          - **Network scan**
            - **Mode**
              - ***Manual***
              - *Automatic*
            - **Network address**
              - 192.168.1.0
            - **Netmask**
              - 255.255.255.0

Cross reference:

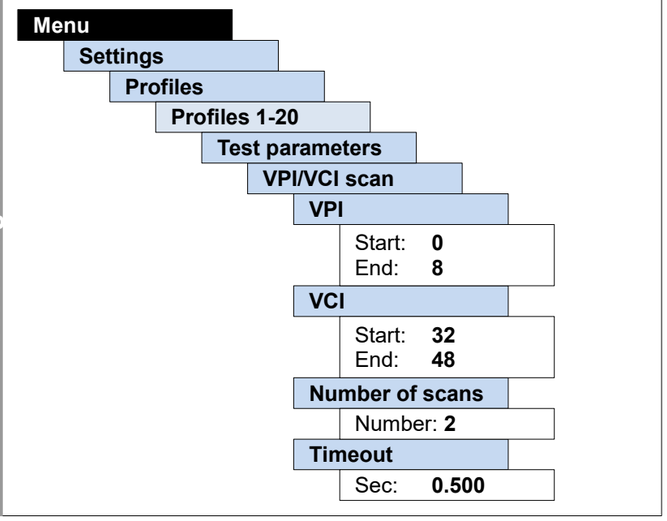
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VPI/VCI scan Test operation

ADSL

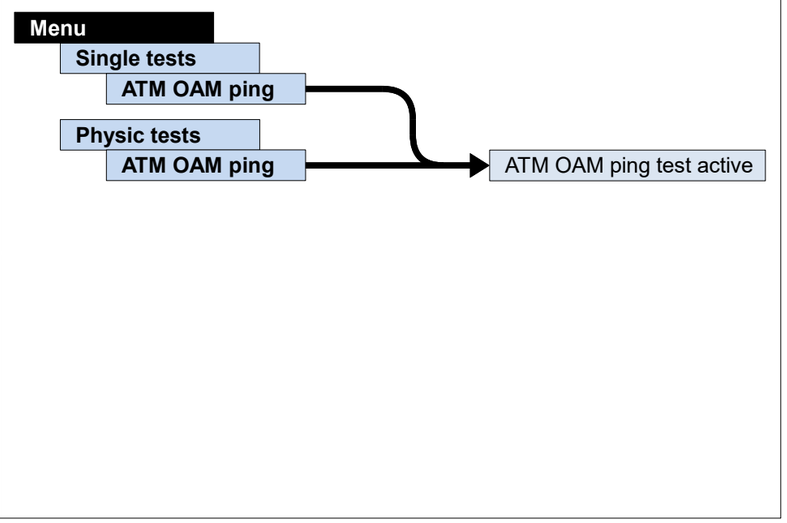


VPI/VCI scan Test configuration

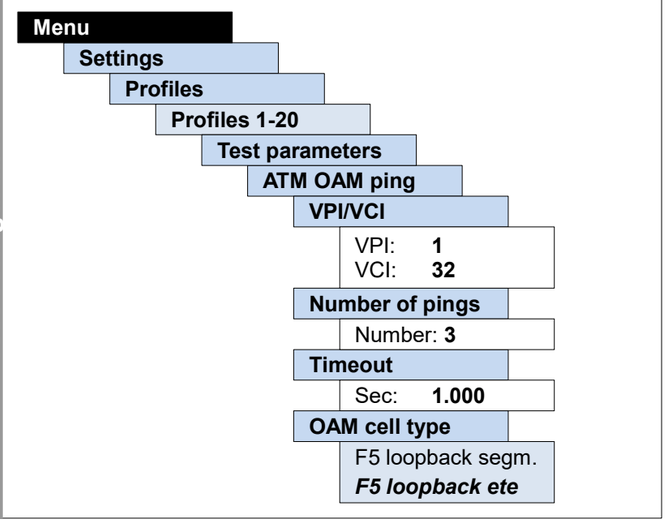


ATM OAM ping Test operation

ADSL



ATM OAM ping Test configuration



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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 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 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***

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***

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

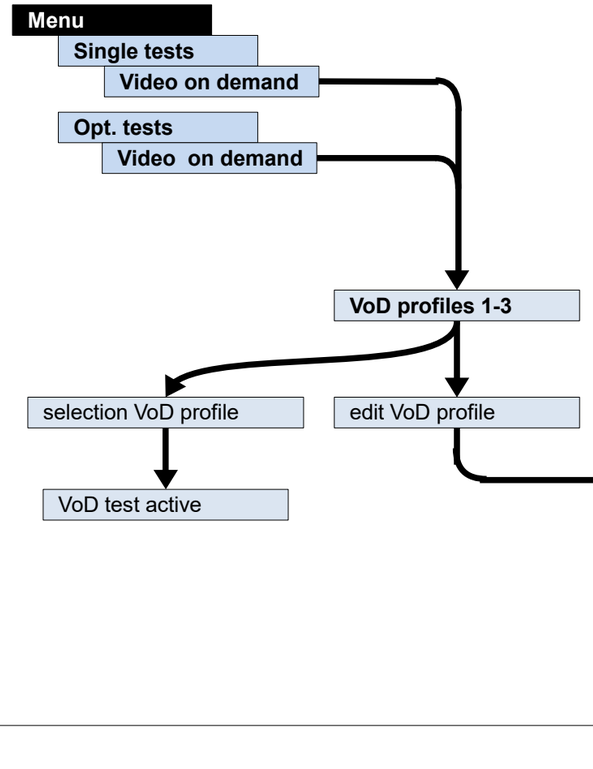
- IPTV channels 1-250
- Multicast IP
  - ***224.0.0.0***
- Port
  - Port number: ***0***
- TV station
  - ***IPTV channel 1-250***

Cross reference:

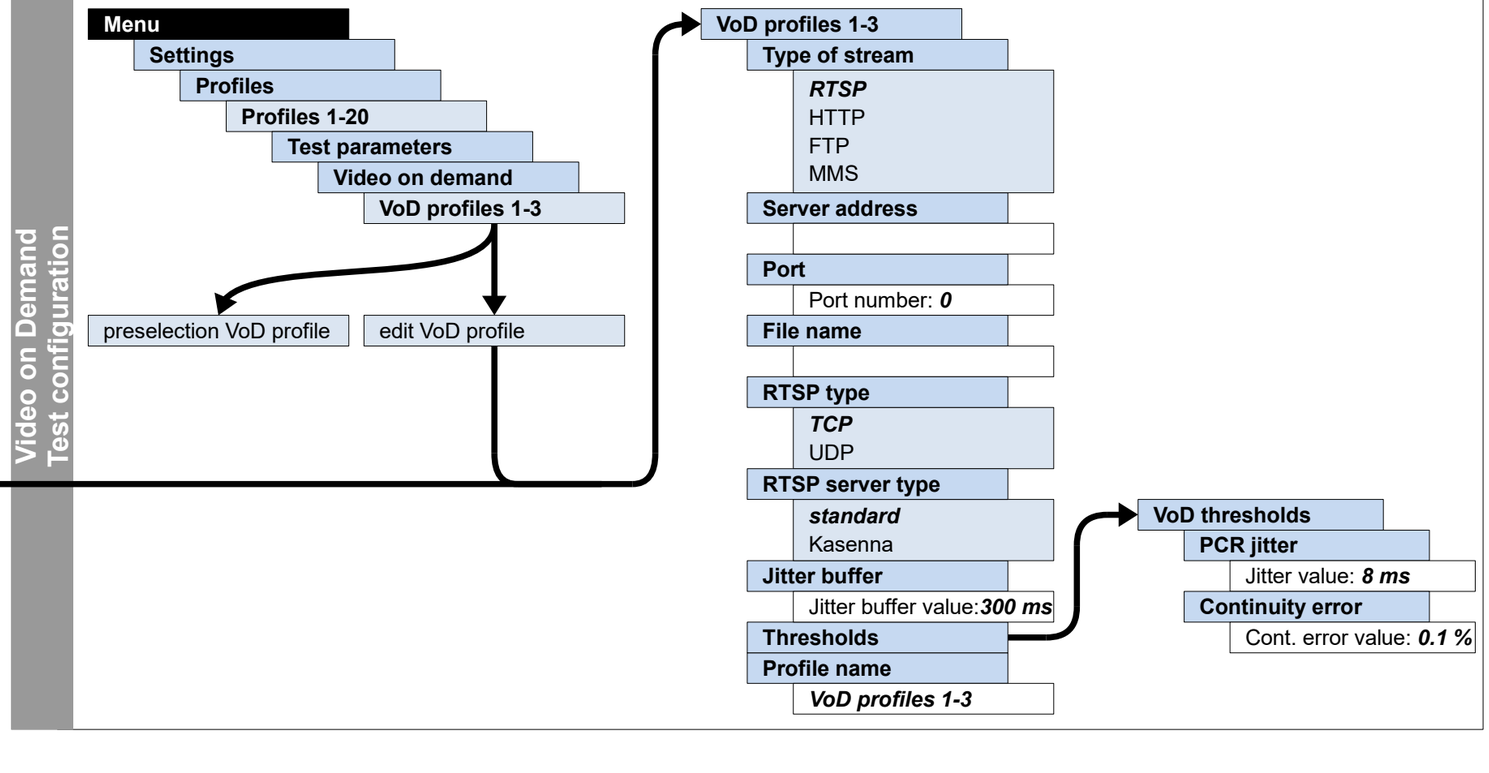
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ADSL / VDSL / Ethernet

Video on demand
Test operation



Video on Demand
Test configuration

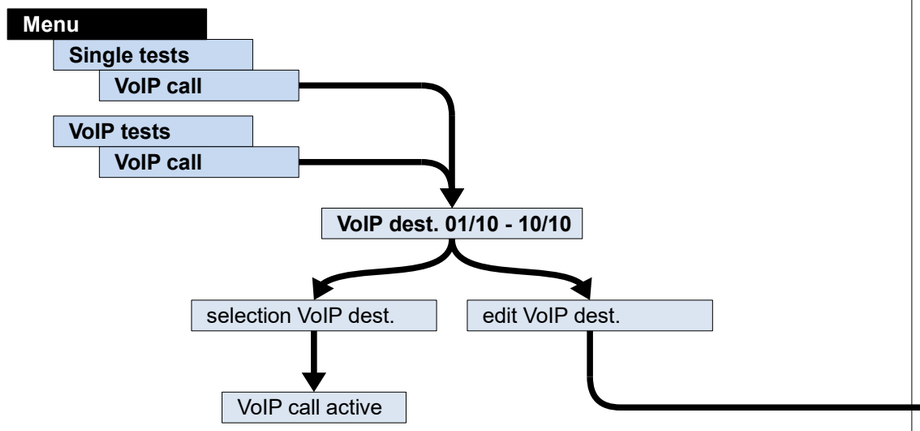


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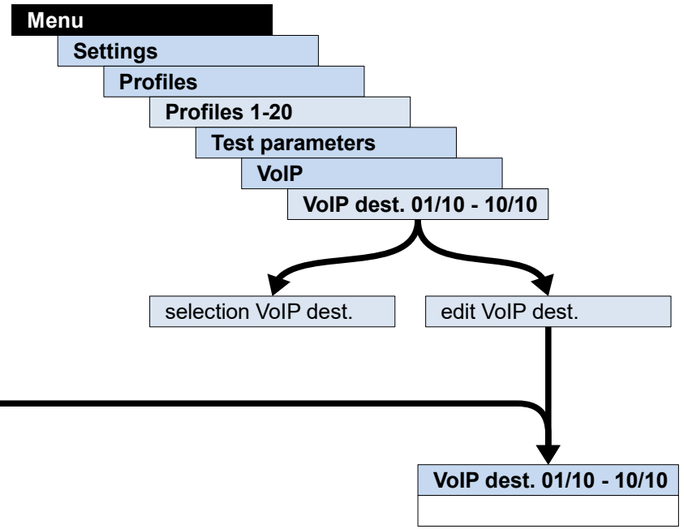
VoIP call Test operation

ADSL / VDSL / Ethernet



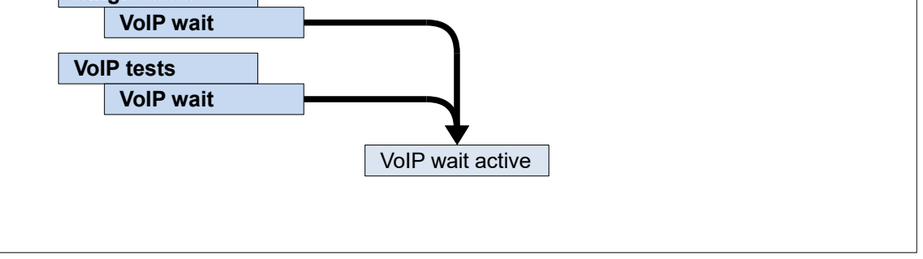
VoIP call Test configuration

ADSL / VDSL / Ethernet

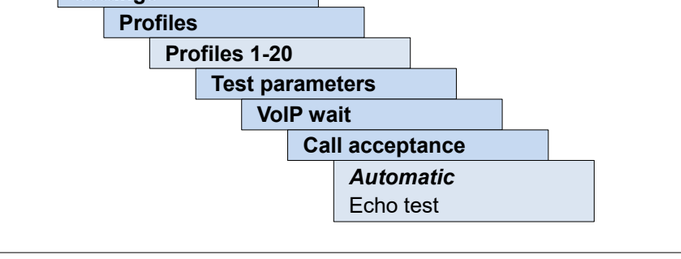


VoIP wait Test operation

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***
            - **Own VLAN**
              - **VLAN mode**
                - ***No VLAN***
                - 1 VLAN tag
                - 2 VLAn tags (QinQ)
              - **1. VLAN tag (C-VLAN)**
                - **ID**
                  - ID: ***2***
                - **Priority**
                  - Priority: ***0***
                - **TPID**
                  - ***8100 Hex***
                  - 88A8 Hex
              - **2. VLAN tag (S-VLAN)**
                - **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***

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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** → **V/2 in m/µs** ***98.9***
            - **Line resistance** ***80 Ohm/km***
            - **Capacitance** ***39 nF/km***
            - **VoP in %** ***66.0***
            - **Name** ***PE 0.5 AWG24***

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.

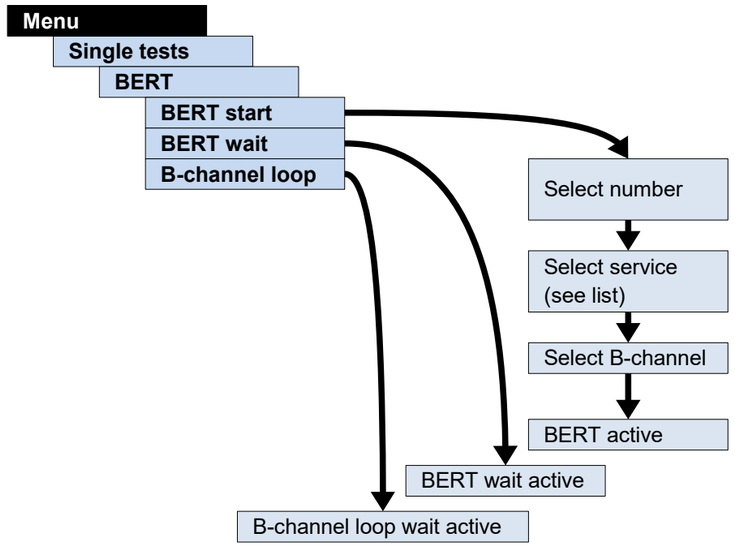
Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-12
Test results	8, 12
Status	8
Parallel-, auto tests	10, 11
Settings	13-21
Rem. Acce., Device	14
Profile, Virt.-Profile VoIP-Account	15-20
ISDN / POTS	21
Battery (status,...)	8, 12
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / wait	28
ISDN tests	**page**
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X.31	33
CF-Tests, Connect.	34
Time measuring Auto. Test	35
Copper tests	**page**
Copper Box	37-38
RC measurement	39
Line scope, TDR	40
LQ, Line symmetry	41
Other tests	**page**
Text br., Netw. scan	24
Loop	29
Connection (POTS)	12
Monitor (POTS)	35
PESQ	36
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
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Test leads	42-44

BERT Test operation

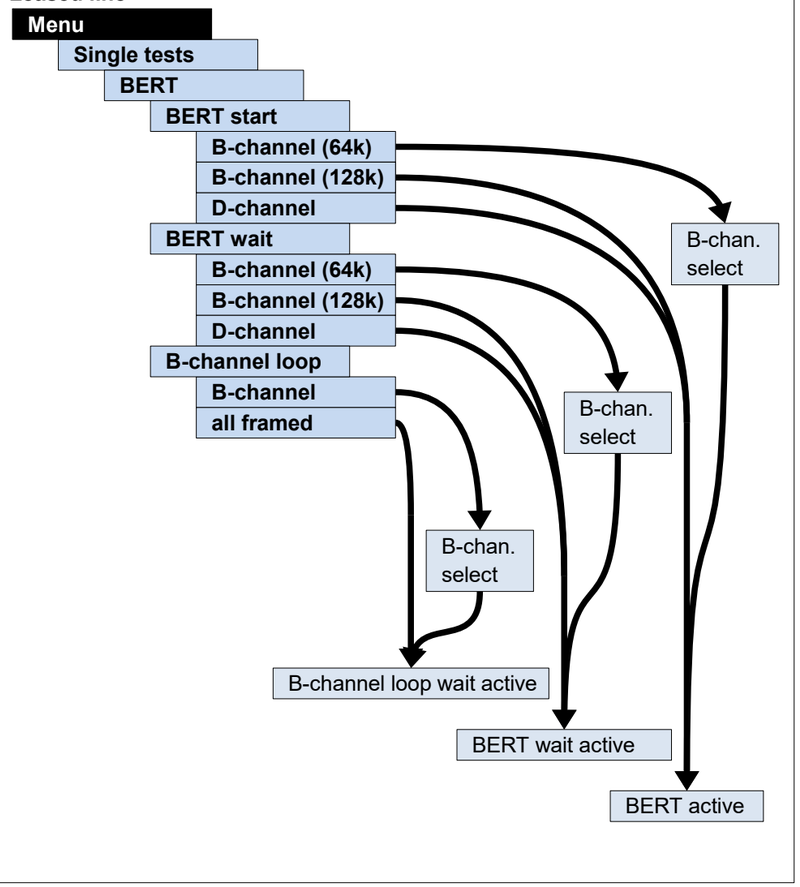
BRI S/U

TE ... / NT ...

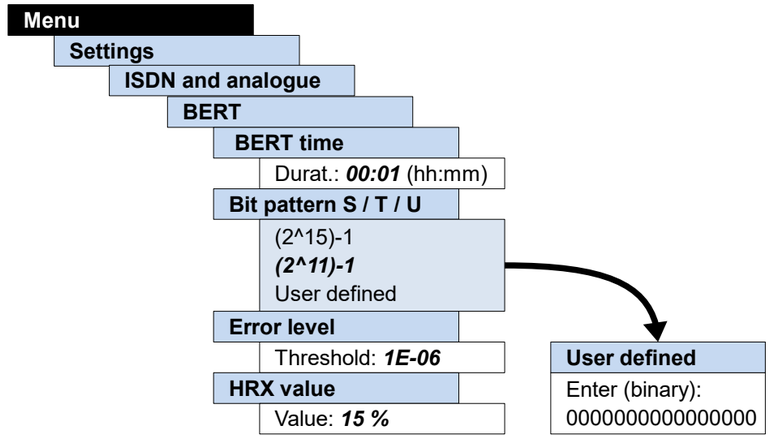


BRI S/U

Leased line



BERT Test configuration



Lists

Services

- Speech
- UDI 64 kBit
- 3.1 kHz audio
- 7 kHz audio
- DFU-TA
- Telephony ISDN
- Fax G3
- Fax G4
- Mixed Mode
- Teletex
- Videotex
- Telex
- OSI
- Telephony 7 kHz
- Video telephony 1
- Video telephony 2
- User specified 1
- User specified 2
- User specified 3

MegaBERT pattern

- 2^15-1
- 2^15-1 inverse
- 2^20/QRSS
- 2^20/QRSS/inverse
- Space (0000)
- Mark (1111)

Cross reference:

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PESQ	36
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
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Test leads	42-44

Supplementary services Test operation

BRI S/U

TE P-MP / TE P-P

Menu
→ **Single tests**
→ **Supp. serv.test**
→ Enter own number
→ Service select (see list)
→ B-channel select
→ Supp. Services select (see list)
→ Supp. Services test active

Service test Test operation

BRI S/U

TE ... / NT ...

Menu
→ **Single tests**
→ **Service test**
→ Enter own number
→ Select B-channel
→ Service test active

Lists

Services

- Speech
- UDI 64 kBit
- 3.1 kHz audio
- 7 kHz audio
- DFU-TA
- Telephony ISDN
- Fax G3
- Fax G4
- Mixed Mode
- Teletex
- Videotex
- Telex
- OSI
- Telephony 7 kHz
- Video telephony 1
- Video telephony 2
- User specified 1
- User specified 2
- User specified 3

Supp. services

- TP test
- HOLD test
- CLIP test
- CLIP / CLIR
- COLP/COLR
- DDI test
- MSN test
- CF test
- CFU
- CFB
- CFNR
- CW test
- CCBS test
- CCNR test
- MCID test
- 3PTY test
- ECTtest
- CUG test
- CD test
- AOC test
- SUB test
- UUS test

Cross reference:

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Help	8, 12
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BRI S/U

TE P-MP / TE P-P

Menu
Single tests
X.31 test
X.31 profiles 1-3

Select X.31 profile
Edit X.31 profile

Automatic
Manual

Enter TEI
Enter LCN
Edit / select number
X.31 test active

Looking for TEI
Edit / select number
X.31 test active

X.31 test Test operation

Menu
Settings
ISDN and analogue
X.31 profiles
X.31 profiles 1-3

Edit X.31 profile
Select X.31 profile

Packet number
Packet countl: ***10***
TEI
TEI: **
LCN
LCN: ***1***
Packet size
16 Byte
32 Byte
64 Byte
128 Byte
256 Byte
Agree packet size
No
Yes
Window size
Agree window size
No
Yes
Throughput
Agree throughput
No
Yes
User data
CUG
No
Yes
CUG-Index
Index: ***1***
D-Bit
Local
End to end
Facilities
Profilename
X.31 profiles 1-3

X.31 test Test configuration

Menu Throughput

Throughput
75 bit/s
150 bit /s
300 bit/s
600 bit/s
1200 bit/s
2400 bit/s
4800 bit/s
9600 bit/s

Menu Windowsize

Windowsize
1 packet
2 packets
3 packets
4 packets
5 packets
6 packets
7 packets

Menu User data

User data
Format
ASCII
HEX
ASCII data
ASCII data 1-3
HEX data
HEX data 1-3
Edit ASCII data
ASCII data 1-3
Edit HEX data
HEX data 1
01 00 00 00 45 43 48 4F
HEX data 2
01 00 00 00 30 30 47 47
HEX data 3

Menu Facilities

Facilities
Facility 1-3
Edit Facility
Facility 1-3

Cross reference:

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CF interrogation Test operation

BRI S/U

TE P-MP / TE P-P

Menu
→ Single tests
→ CF interrogation
→ CF interrogation test active

CF activation Test operation

BRI S/U

TE P-MP / TE P-P

Menu
→ Single tests
→ CF activation
→ Select service (see list services (CF))
→ Select Cfx type (see list Cfx types)
→ Enter own number
→ Enter / select remote number
→ CF activation test active

CF delete Test operation

BRI S/U

TE P-MP / TE P-P

Menu
→ Single tests
→ CF delete
→ Select service (see list services (CF))
→ Select Cfx type (see list Cfx types)
→ Enter own number
→ CF delete test active

Phone / connection Test operation

BRI S/U

TE … / NT …

Menu
→ Single tests
→ Phone / connection
→ Overlap sending / Enblock / Redialing / Keypad dial
→ Keypad info 1-3
→ Edit Keypad Info / Select keypad info
→ Edit / select number
→ Select service (see list)
→ Select B-channel
→ connection test active

Leased line

Menu
→ Single tests
→ Phone / connection
→ Select B-channel
→ Connection test active

Menu Keypad

Menu
→ Settings
→ ISDN and analogue
→ ISDN
→ Keypad
→ Keypad info 1-3
→ Select keypad info / Edit keypad info
→ Keypad info 1-3

Lists

Services

speech
IDU 64 kBit
3.1 kHz audio
7 kHz audio
IDU TA
Telephony ISDN
Fax G3
Fax G4
Mixed Mode
Teletex
Videotex
Telex
OSI
Telephony7 kHz
Videotelephony 1
Videotelephony 2
User specified 1
User specified 2
User specified 3

Services (CF)

All
Spch
DFU
A3K1H
A7kHz
Tel31
TTX
FaxG4
ViSyB
ViTel
FaxG3
Tel7k

CFx types

CFU
CFB
CFNR

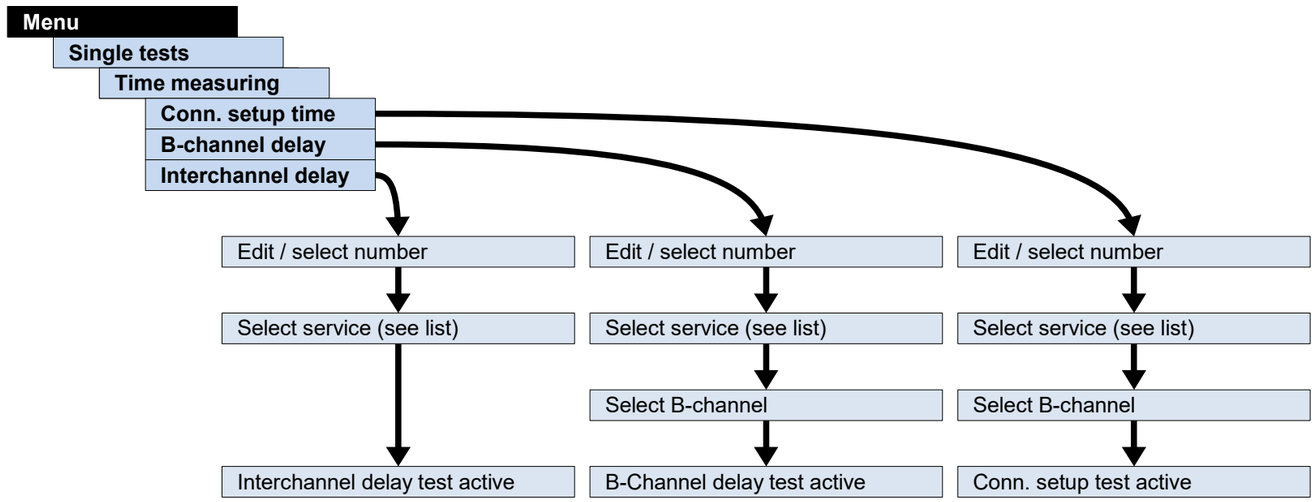
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Time measuring Test operation

BRI S/U

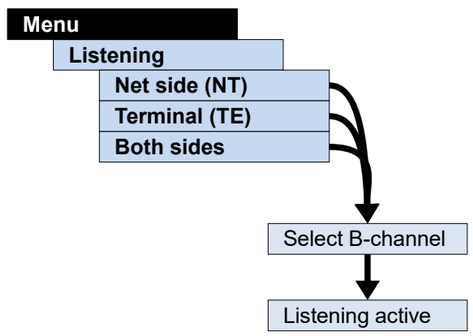
TE … / NT … / Leased line



Listening Test operation

BRI S

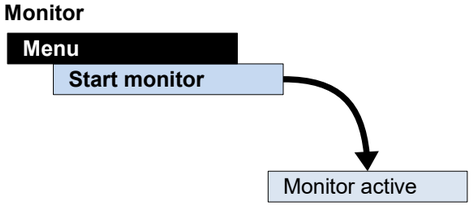
Monitor



Monitor Test operation

BRI S / POTS

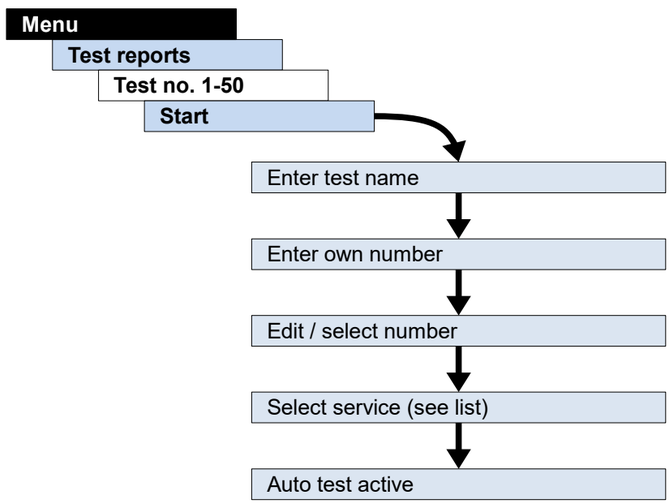
Monitor



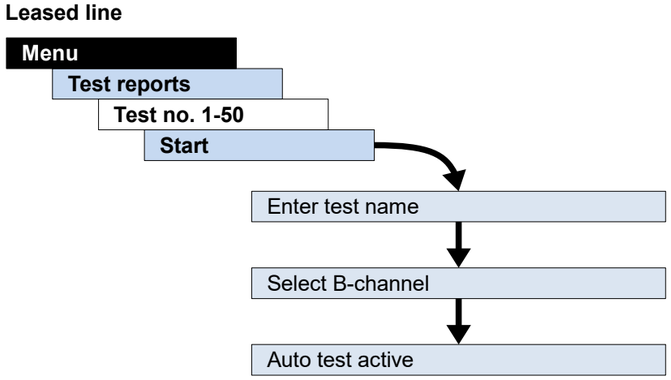
Auto test Test operation

BRI S / BRI U

TE P-MP / TE P-P



Leased line

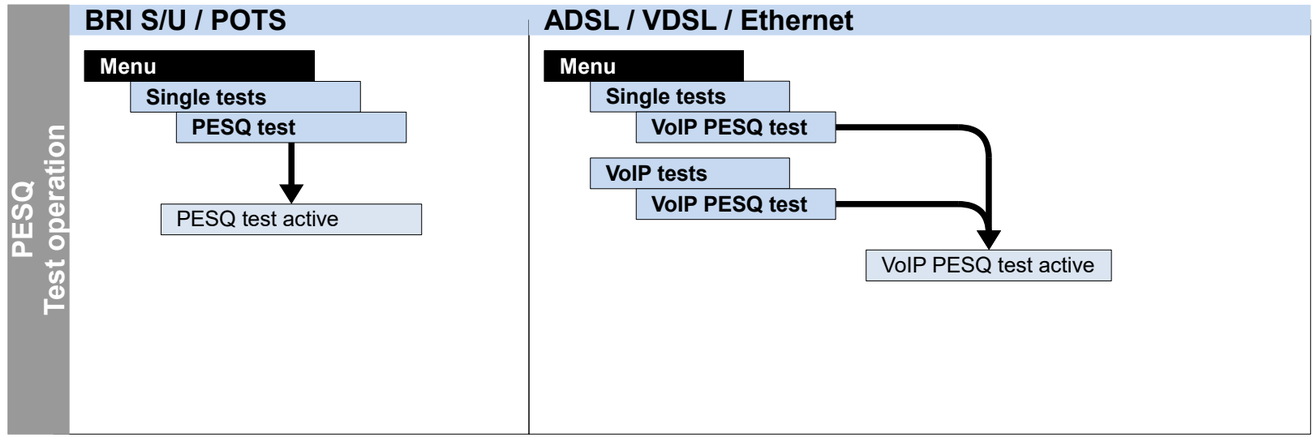


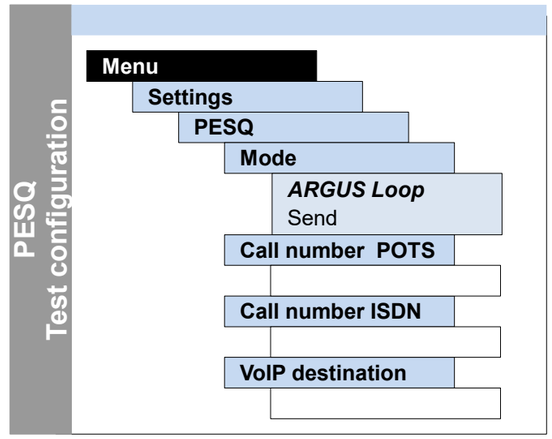
List

Services
Speech
IDU 64 kBit
3.1 kHz audio
7 kHz audio
IDU TA
Telephony ISDN
Fax G3
Fax G4
Mixed Mode
Teletex
Videotex
Telex
OSI
Telephony 7 kHz
Videotelephony 1
Videotelephony 2
User specified 1
User specified 2
User specified 3

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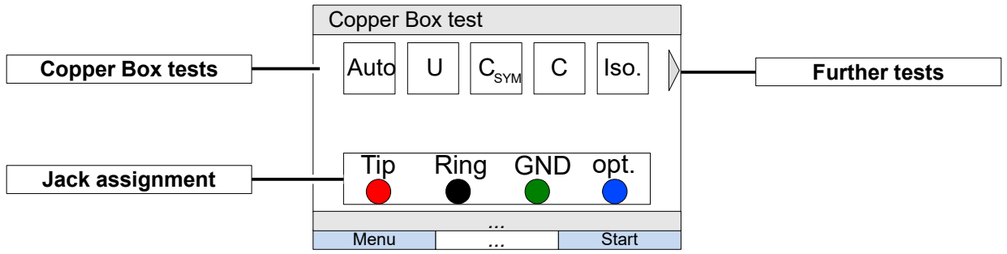


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Legend status

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	Fast cable check	Remote control of loop assistant
0	-	Reset	-	Reset		-	Reset				-		
1	Auto test prof.	-											
2	-												
3	-				Polarity	-							
4	-				Meas. range	-							
5	-				Meas. voltage	-							
6	Wire types	-	Wire types		-	Wire types	-						
7	QR code	-											
8	-		Susceptibility				-						
9	-	Display mode	-	Display mode		-	Display mode			-			
⎍	-												
#	-	Input resistance	-										
✆	Information bell												
✳ then 0	-												
✳ then 1	Copper Box info												
✳ then 2	-												
✳ then 3	-												
✳ then 6	-												
✳ then 7	Store										-		
✳ then #	Remote kit command										-		
	Remote kit												

Note

The hotkeys can vary depending on the selected sockets.

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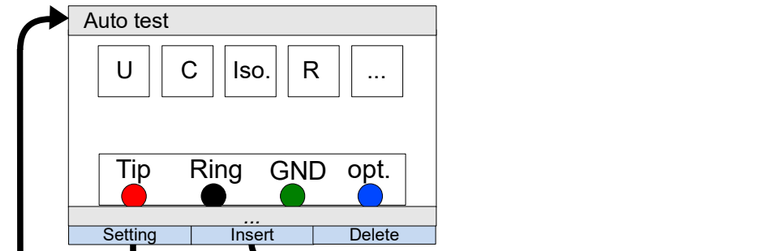
Copper Box

Copper Box Test operation

Menu
- **Single tests**
  - **Copper Box**
    - **Auto**
    - **U**
    - **CSym**
    - **C**
    - **Iso.**
    - **RSym**
    - **R**
    - **I=**
    - **LCL**
    - **NEXT**
    - **Sig.**
    - **Fast cable check**
    - **Rem.**

→ Copper Box active

- Short circuit a/T-b/R
- ***Exchange connect***
- Short circ. a/T-b/R-GND
- Open circuit
- Tone mode
- Port 1 loop 3 sec.
- Port 1+3 connect
- P1+2 & P 3+4 connect
- Port 1+4 connect
- Port 1+4 loop
- Port 4 loop 3 sec.
- Port 2+4 connect
- Port 3+4 connect



Insert a new test and select the jack assignment

Copper Box
- ***1 Auto test profiles**
- ***2 Polarity**
  - ***Standard***
  - Inverse
- ***2 Measurement range**
  - ***Automatic (to 1 GΩ)***
  - 25 MΩ - 1 GΩ
  - 2 MΩ - 500 MΩ
  - 200 kΩ - 50 MΩ
  - 100 Ω - 5 MΩ
- ***2 Measurement voltage**
  - High voltage (105 V)
  - ***Low voltage (8 V)***
- ***3 Wire types** → See page 39
- ***4 Susceptibility**
  - ***Robust for ext. voltage***
  - Insecure (fast)
- ***5 Display mode**
  - Normal display mode
  - ***Min/Max display mode***
- ***8 Input resistance**
  - High-resistance
  - ***Low-resist. (200 kΩ load)***
- **Remote kit command** → See command
- **Remote kit**
- ***5 Information bell**
  - Off
  - ***on***

Auto test profiles
- **Auto test**
- **Auto test sequence**
- **Notice**
- **Profile name**
  - ***Auto test***

- ***8 Input resistance**
- ***2 Polarity**
- ***2 Measurement range**
- ***2 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***

Remote kit
- ***TX91x + 900/905 remote***
- TX91x (orange)
- 900/905 remote (blue)

Copper Box Test configuration

Menu
- **Single tests**
  - **Copper Box**
    - **Auto**
    - **U**
    - **CSym**
    - **C**
    - **Iso.**
    - **RSym**
    - **R**
    - **I=**
    - **LCL**
    - **NEXT**
    - **Sig.**
    - **Fast cable check**
    - **Rem.**

Note

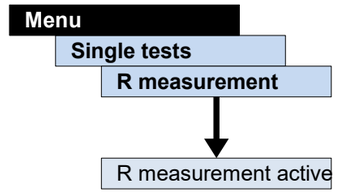
*1 = Autotest	*3 = Auto test, CSym, C, RSym, R	*5 = U, C, Iso., R, I=, LCL, NEXT	*7 = Rem.
*2 = Iso.	*4 = CSym, C, Iso., RSym, R,	*6 = RSym, R	*8 = U

Cross reference:

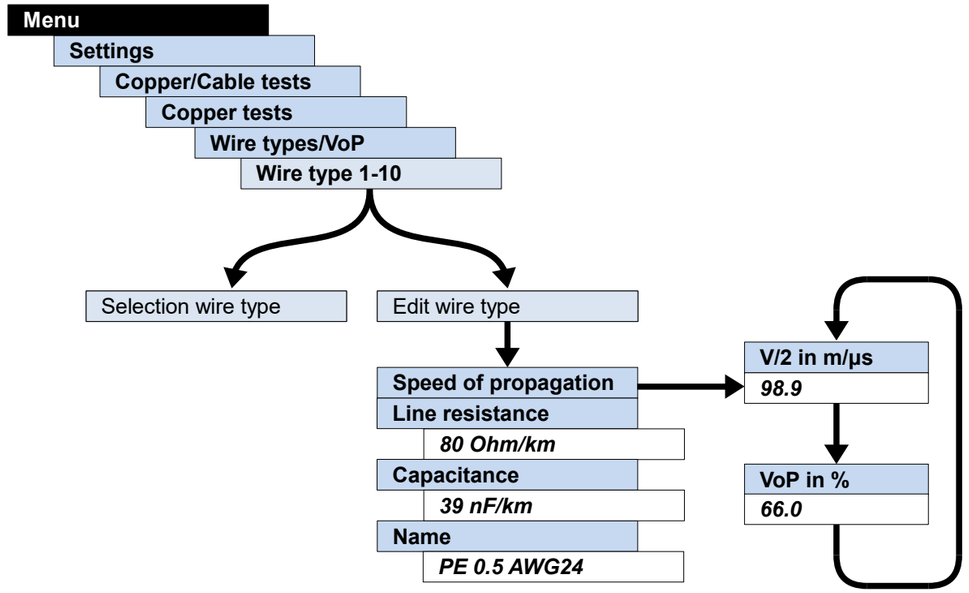
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R measurement Test operation

Copper tests

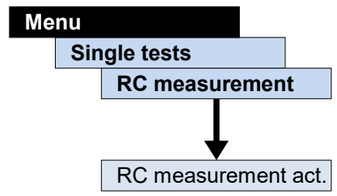


R measurement Test configuration

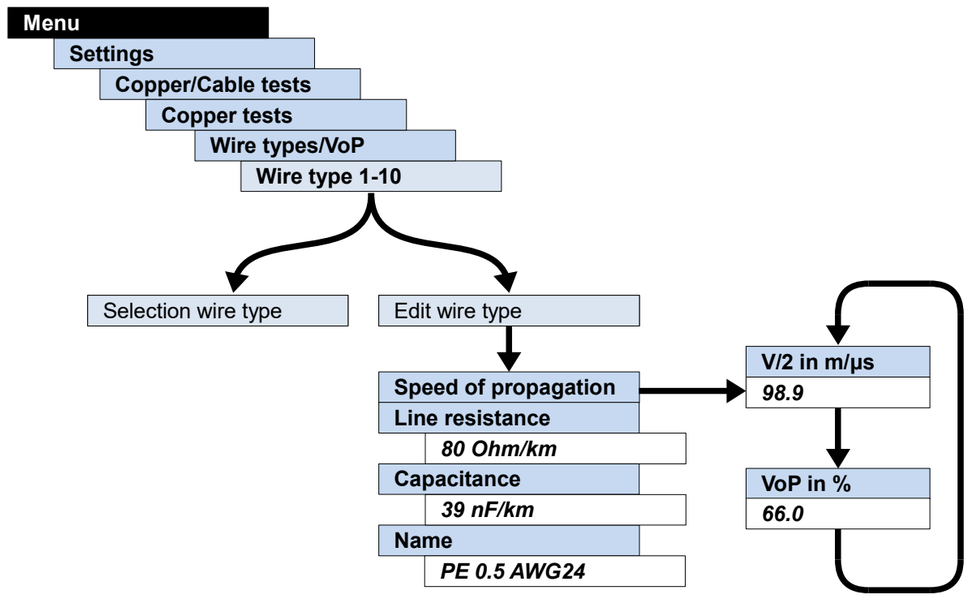


RC measurement Test operation

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
98.9
Line resistance
80 Ohm/km
Capacitance
39 nF/km
Name
PE 0.5 AWG24

V/2 in m/µs
98.9

VoP in %
66.0

Cross reference:

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Line qualification Test operation

Copper tests

Menu
- **Single tests**
  - **Line qualification**
    - **LQ slave mode** → Slave mode active
    - **LQ master mode** → Master mode active

Line symmetry Test operation

Copper tests

Menu
- **Single tests**
  - **Line symmetry** → Line symmetry active

Line qualification / Line symmetry Test configuration

Menu
- **Settings**
  - **Copper/Cable tests**
    - **Copper tests**
      - **Line qualification**
        - **Bandwidth**

1.1 MHz	(ADSL)
2.2 MHz	***(ADSL2+)***
8.8 MHz	(VDSL2)
12.0 MHz	(VDSL2)
17.6 MHz	(VDSL2)
30.0 MHz	(VDSL2)

        - **Bandplan**

*1	***Annex A***	***(ADSLx)***
	Annex B	(ADSLx)
*2	***998-M2x-A***	***(VDSL2)***
	998-M2x-B	(VDSL2)
	998ADE17-M2x-A	(VDSL2)
	998ADE17-M2x-B	(VDSL2)
*3	***998ADE17-M2x-A***	***(VDSL2)***
	998ADE17-M2x-B	(VDSL2)
*4	***998ADE30-M2x-NUS0-A***	***(V)***
	998ADE30-M2x-NUS0-M	(V)

        - **Impedance**

100 Ω
120 Ω
135 Ω

        - **Transmit level**

12 dBm
6 dBm
0 dBm

Note

The displayed bandplan menu items depends on the bandwidth that has been set.

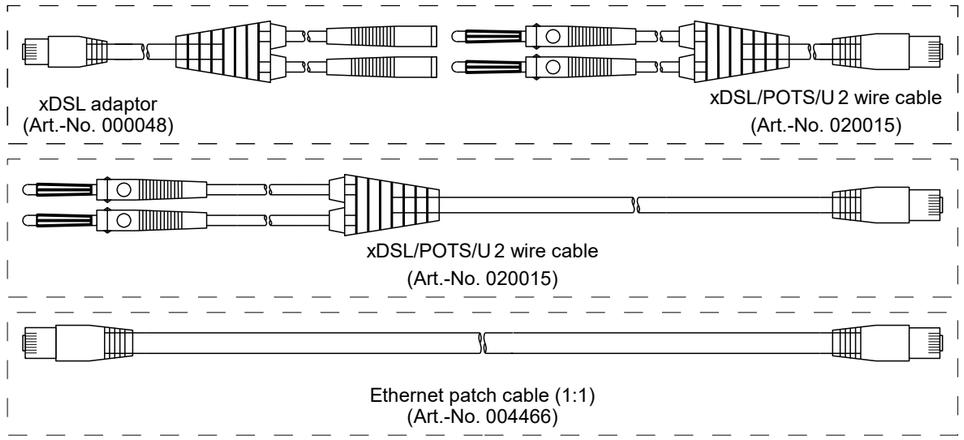
- *1 = 1.1 MHz, 2.2 MHz
- *2 = 8.8 MHz, 12.0 MHz
- *3 = 17.6 MHz
- *4 = 30.0 MHz

Test leads and pin assignments
ADSL, VDSL, Ethernet

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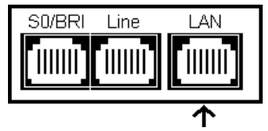
ADSL / VDSL



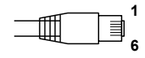
RJ11	Ban.	RJ45
3	rd	4
4	blk	5

Ban.	RJ45
rd	4
blk	5

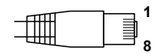
RJ45	RJ45
1-8	1-8



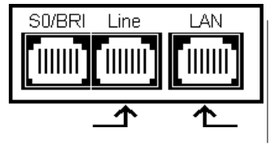
RJ11



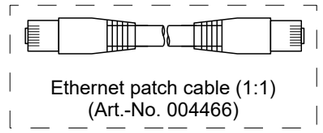
RJ45



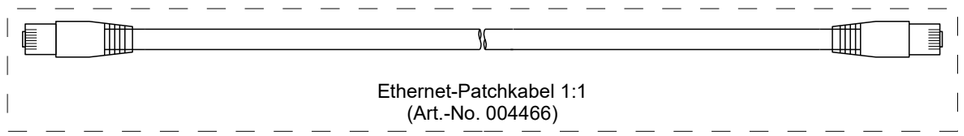
ADSL / VDSL – Bridge / Router



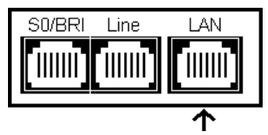
RJ45	RJ45
1-8	1-8



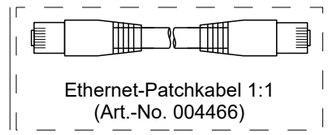
Ethernet



RJ45	RJ45
1-8	1-8



RJ45	RJ45
1-8	1-8

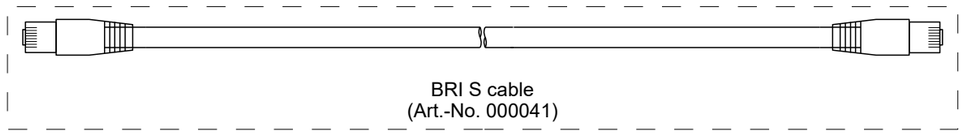


Test leads and pin assignments
BRI S, BRI U, POTS

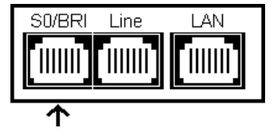
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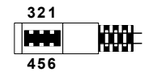
BRI S



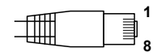
RJ45	RJ45
3/6	3/6
4/5	4/5



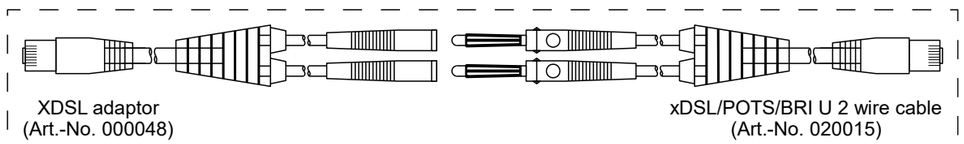
TAE

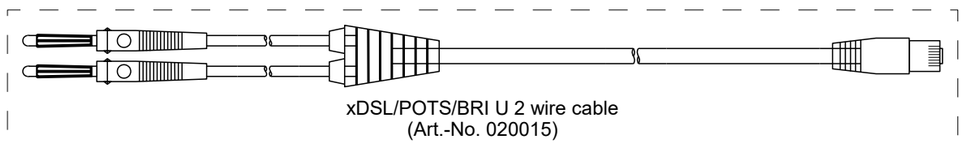


RJ45



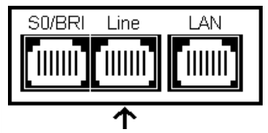
BRI U / POTS





RJ11	Ban.	RJ45
3	rd	4
4	blk	5

Ban.	RJ45
rd	4
blk	5

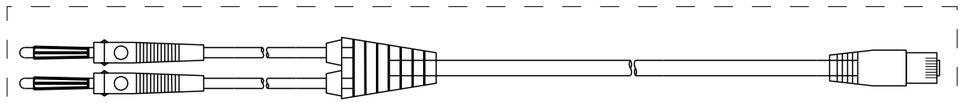


Test leads and pin assignments
Copper tests

Cross reference:

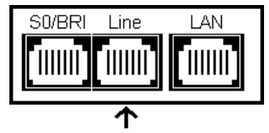
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Copper tests: R measurement / RC measurement / Line scope / TDR



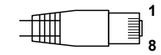
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020015)

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

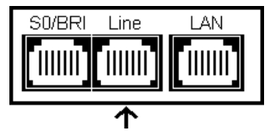


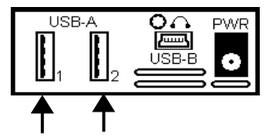
Copper tests: Line scope



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

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