

ADSL
VDSL
SHDSL
GigE
SFP
LTE
ISDN
POTS
Cu
TDR
Copper Box
Data
IP TV
VoIP
MOS
PESQ
PC
USB
WLAN

ARGUS® 165

» 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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Profile, Virt.-Profile VoIP-Account	15-22
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Other tests	page
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Others	page
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Legend General

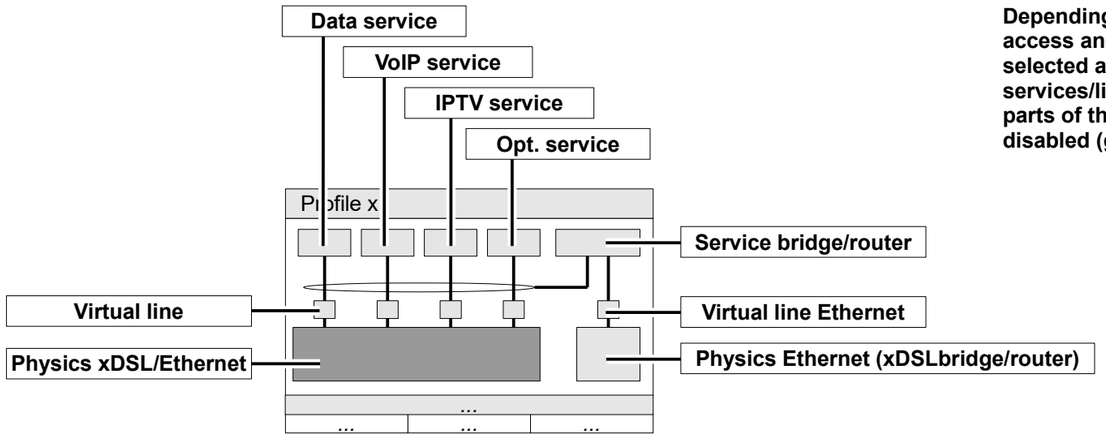
Menu
Configuration menu
Defaul Config.menu
Input menu
Default input menu

Depending on the specified interface, menu item will be shown

Menu item only matters for specified interface

Legend Status

ADSL / VDSL / SHDSL / Ethernet / GPON / 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 / SHDSL / Ethernet / GPON / LTE

Access	ADSL						VDSL						SHDSL														ETH	LTE	GPON
													ATM						EFM						TDM		ITC		HDLC				
Mode	ATU-R	ATU-R bridge		ATU-R router		2 port access	VTU-R	VTU-R bridge		VTU-R router		2 port access	STU-R	STU-C	STU-R bridge		STU-R router	2 port access	STU-R	STU-C	STU-R bridge		STU-R router	2 port access	STU-R	STU-C	STU-R	STU-C	STU-R	STU-C			
Socket	Line	Line	LAN/SFP	Line	LAN/SFP	LAN/SFP	Line	Line	LAN/SFP	Line	LAN/SFP	LAN/SFP	Line	Line	Line	LAN/SFP	Line	LAN/SFP	Line	Line	Line	LAN/SFP	Line	LAN/SFP	Line	Line	Line	Line	Line	Line	LAN 1	LAN 2	SFP 1	USB	USB
Protocol / **ATM/Ethernet**																																			
without - without		**a**	**a**					**a**	**a**					**a**	**a**	**a**				**a**	**a**	**a**			**a**	**a**	**a**	**a**	**a**	**a**					
IP - IP					**a**		●			●	**a**							**a**		●			●	**a**							●	●	●		●
IP Yes EoA	●			●									●				●																		
IP No IPoA	●			●																															
PPP Yes PPPoE	●			●			●			●			●				●		●				●								●	●	●	●	●
PPP No PPPoA	●			●																															
PPTP - PPTP																															●	●	●		

● – Protocol configurable (see page 20)
a – Protocol set automatically

Note

The basic ARGUS *165* package includes support for at least one DSL interface (ADSL, VDSL or SHDSL) 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 / SHDSL / Ethernet / GPON / LTE

Key	ADSL / SHDSL ATM	VDSL / SHDSL EFM	Ethernet	GPON	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 / PRI / POTS

Key	BRI S / BRI U	PRI	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	L1 status	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 / RFC / xDSL trace

Key	ADSL / VDSL	RFC2544 tests	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
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		
✳ then 0	Reference curve		
✳ then 7	Store		

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Single tests

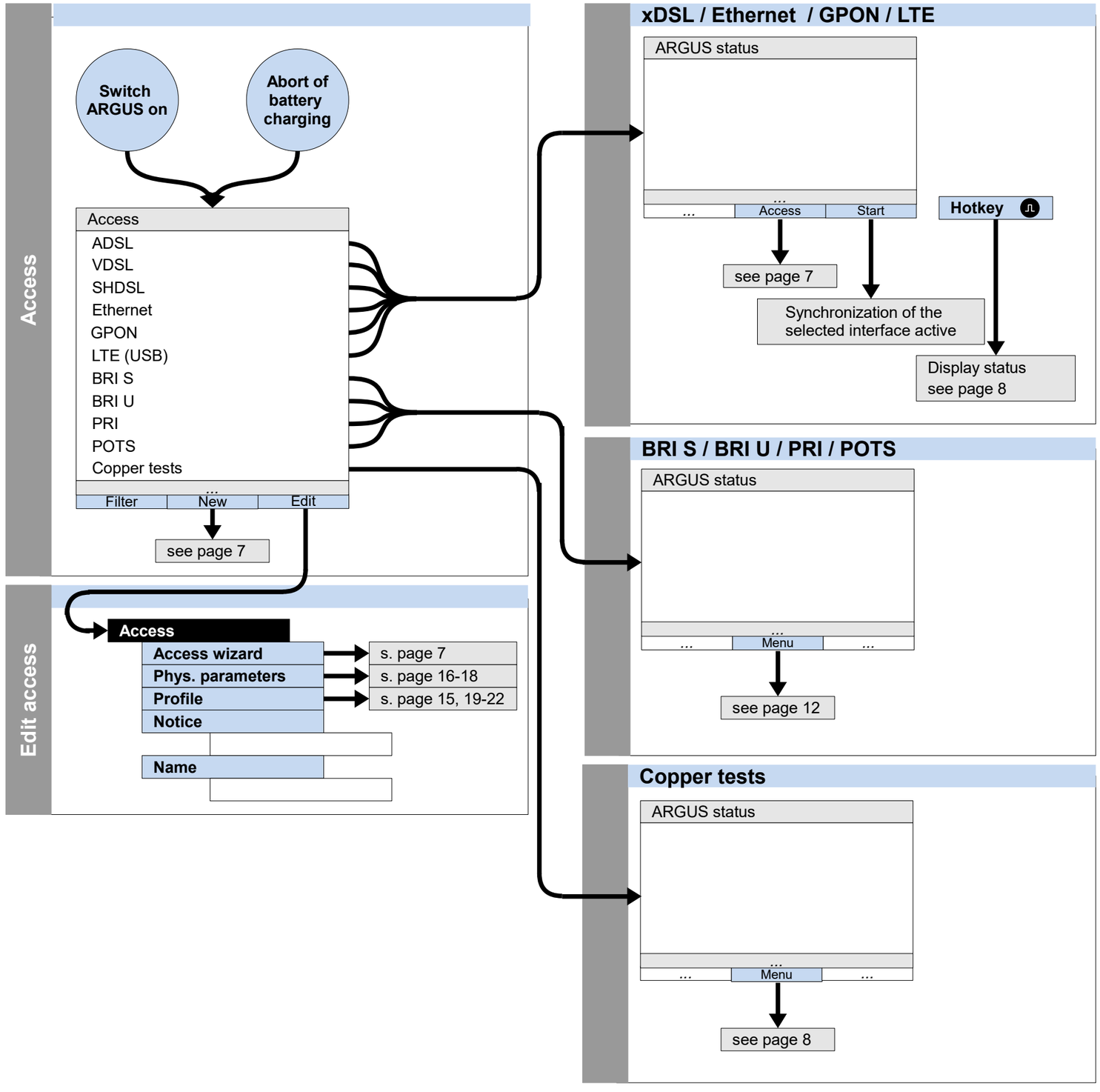
ADSL / VDSL / SHDSL / Ethernet / GPON / LTE / Copper tests

	ADSL / VDSL	ADSL - / VDSL- / SHDSL bridge	ADSL-/ VDSL- / SHDSL router	SHDSL STU-R TE	SHDSL STU-C	Ethernet IP based / GPON	Ethernet cable test	LTE	Copper tests
IP ping	x	-	x	only ATM / EFM	only EFM	x	-	x	-
Trace route	x	-	x	only ATM / EFM	-	x	-	x	-
HTTP downl./ upl.	x	-	x	only ATM / EFM	-	x	-	x	-
FTP downl. / upl.	x	-	x	only ATM / EFM	-	x	-	x	-
FTP server	x	-	x	only ATM / EFM	only EFM	**x**	-	-	-
Text browser	x	-	x	only ATM / EFM	-	x	-	x	-
Network scan	-	-	-	-	-	only ETH-IP based	-	-	-
VPI/VCI scan	only ADSL	only ADSL / SHDSL ATM STU-R	only ADSL / SHDSL ATM	only ATM	only ATM	-	-	-	-
ATM OAM ping	only ADSL	only ADSL / SHDSL ATM STU-R	only ADSL / SHDSL ATM	only ATM	only ATM	-	-	-	-
VoIP call/ wait/ PESQ test	x	-	x	only ATM / EFM	-	x	-	-	-
IPTV / IPTV scan	x	-	x	only ATM / EFM	-	x	-	-	-
IPTV passive	-	not SHDSL STU-C bridge	x	-	-	only ETH-IP based	-	-	-
Video on demand	x	-	x	only ATM / EFM	-	x	-	-	-
LTE scan	-	-	-	-	-	-	-	x	-
Loop	only VDSL	-	not ADSL	only ATM / EFM	only ATM / EFM	only ETH-IP based	-	-	-
Traffic generator	only VDSL	-	only VDSL router / SHDSL EFM STU-R router	only ATM / EFM	only ATM / EFM	only ETH-IP based	-	-	-
RFC2544	only VDSL	-	only VDSL / SHDSL EFM STU-R	only ATM / EFM	only ATM / EFM	only ETH-IP based	-	-	-
ETH TDR / Cable test	-	-	-	-	-	-	x	-	-
Port flash	-	-	-	-	-	-	x	-	-
Copper Box	x	x	x	x	x	-	-	-	x
R measurement / RC measurement	-	-	-	-	-	-	-	-	x
Line scope / TDR	-	-	-	-	-	-	-	-	x

Switch on and access menu

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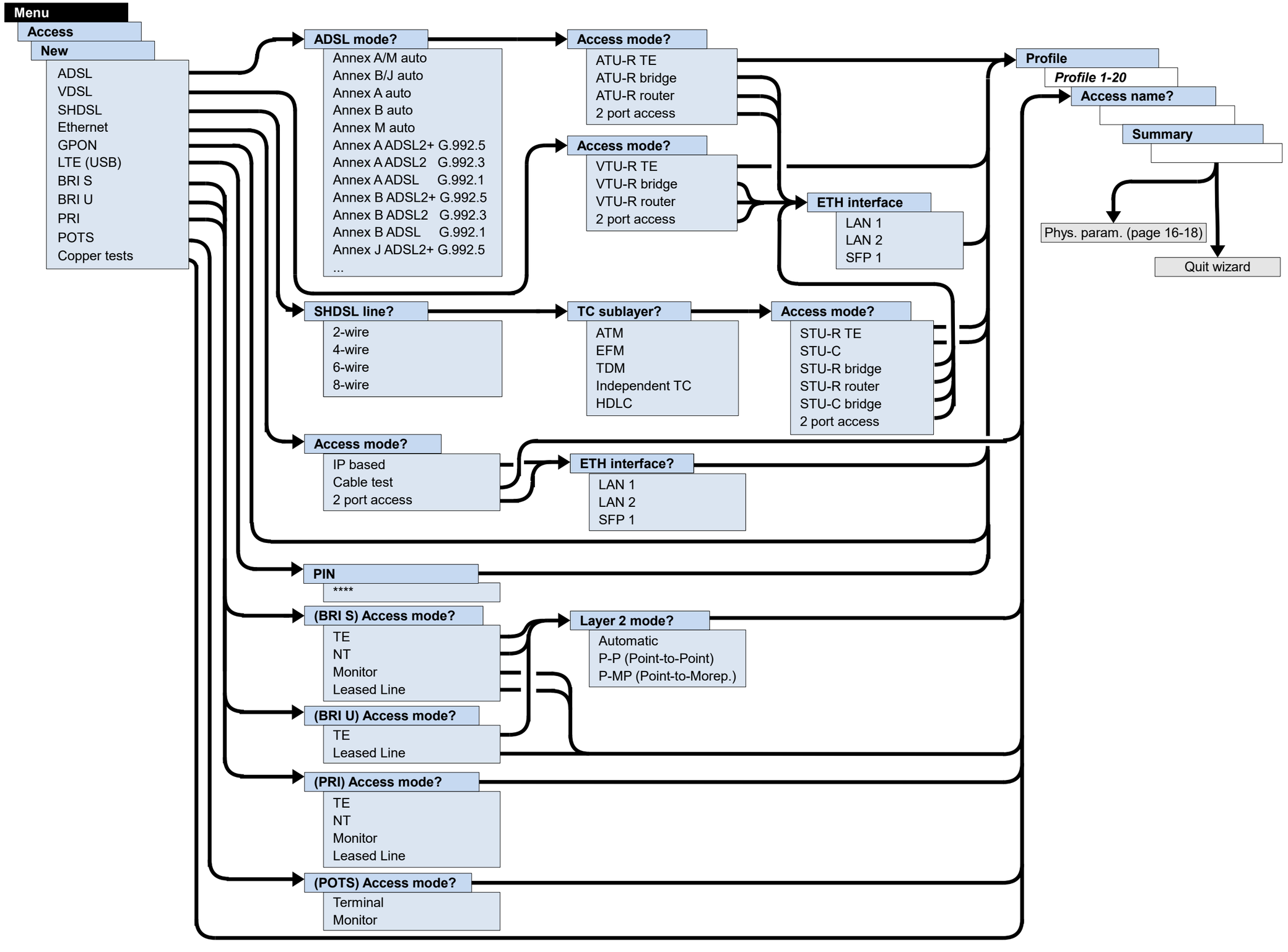


Access wizard

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Access wizard



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

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Main menu

xDSL / ETH / GPON / LTE / Copper tests

Menu

- Single tests → see page 11
- *1 Auto test → see page 11
- *1 Test status → see page 10
- Test results
- Status
- Access → see page 7
- ARGUS manager
  - Managem. Interf. WLAN: ***Off*** / on
  - Web server start: ***Off*** / on
  - VNC server start: ***Off*** / on
  - *2 Update firmware: Update firmware started
  - LCD brightness: Level 0 … ***Level 15***
  - Automatic shutdown: ***After 5 minutes*** / After x minutes / disabled
  - Automatic charge: ***On*** / Off
  - Alarm bell: ***Off*** / on
  - Configuration import: Configurat. Imp. start
  - *2 Test result uplo. (FTP): Test result uplo. start
- Settings → see page 13-24
- Battery (status,...)
  - Status → Display Battery status
  - Automatic char.: Off / ***on***
- Help
  - Hotkeys → see table page 4

Menu Test results

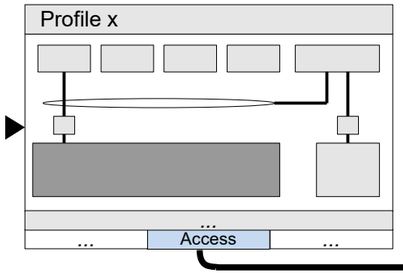
xDSL / ETH / GPON / LTE / Copper tests

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

Display Status

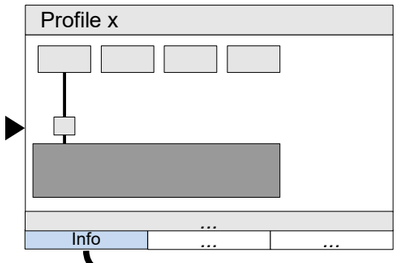
ADSL / VDSL / SHDSL / Ethernet / GPON / LTE

General



→ see page 7

Physics xDSL/Ethernet/LTE active



Hotkey

Display physical access results and the xDSL trace

Menu Single tests

xDSL / ETH / GPON / LTE / Copper tests

Single tests

- Copper Box → see page 42-43
- IP ping → see page 25
- Trace route → see page 25
- HTTP download → see page 26
- HTTP upl. (BRITT) → see page 26
- FTP download → see page 26
- FTP upload → see page 26
- FTP server → see page 26
- Text browser → see page 27
- Network scan → see page 27
- VPI/VCI scan → see page 28
- ATM OAM ping → see page 28
- VoIP call → see page 31
- VoIP wait → see page 31
- VoIP PESQ test → see page 41
- IPTV → see page 29
- IPTV scan → see page 29
- IPTV passive → see page 29
- Video on Demand → see page 30
- LTE scan → LTE scan is active
- Loop → see page 32
- Traffic generator → see page 33
- RFC2544 test → see page 34
- ETH TDR/Cable t. → see page 35
- Port flash → see page 35

Copper tests

- Copper Box → see page 42-43
- R measurement → see page 44
- RC measurement → see page 44
- Line scope → see page 45
- TDR → see page 45

Note

*1 = ADSL, VDSL, SHDSL, Ethernet, GPON

*2 = not for Copper tests

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

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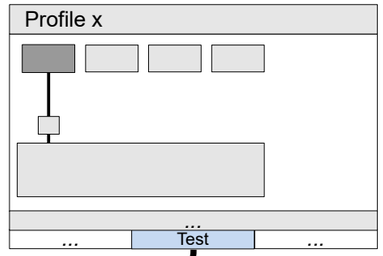
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xDSL / Ethernet / GPON / LTE

Service active

Display Status



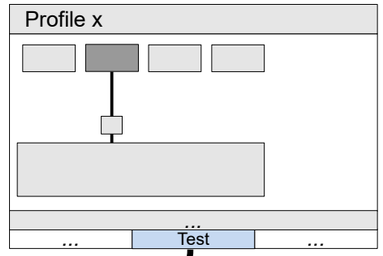
Menu Data tests

- Data tests
  - IP ping → see page 25
  - Trace route → see page 25
  - HTTP download → see page 26
  - HTTP upl. (BRITT) → see page 26
  - FTP download → see page 26
  - FTP upload → see page 26
  - FTP server → see page 26
  - Text browser → see page 27
  - Network scan → see page 27

xDSL / Ethernet / GPON

Service active

Display Status



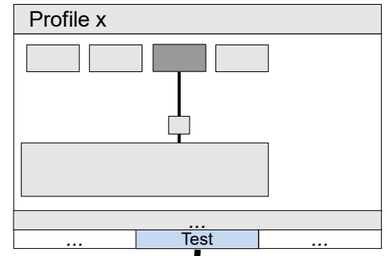
Menu VoIP tests

- VoIP tests
  - IP ping → see page 25
  - Trace route → see page 25
  - VoIP call → see page 31
  - VoIP wait → see page 31
  - VoIP PESQ test → see page 41

xDSL / Ethernet / GPON

Service active

Display Status



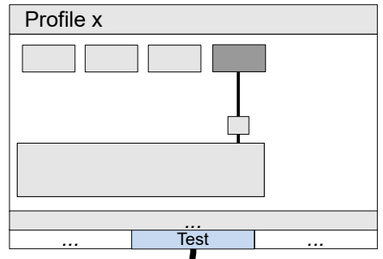
Menu IPTV tests

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  - IP ping → see page 25
  - Trace route → see page 25
  - IPTV → see page 29
  - IPTV scan → see page 29
  - IPTV passive → see page 29

xDSL / Ethernet / GPON

Service active

Display Status



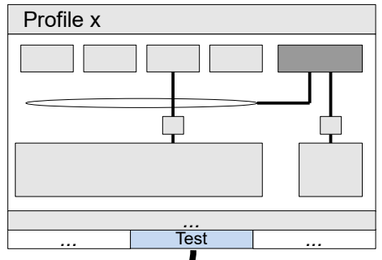
Menu Opt. tests

- Opt tests
  - IP ping → see page 25
  - Trace route → see page 25
  - HTTP download → see page 26
  - HTTP upl. (BRITT) → see page 26
  - FTP download → see page 26
  - FTP upload → see page 26
  - FTP server → see page 26
  - Text browser → see page 27
  - Network scan → see page 27
  - Video on Demand → see page 30

ADSL / VDSL / SHDSL - Bridge

Service active

Display Status



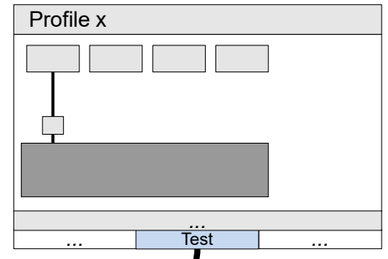
Menu Bridge tests

- Bridge tests
  - IPTV passive → see page 29

ADSL / SHDSL / Ethernet / GPON / LTE

Physics xDSL/Ethernet active, Services inactive

Display Status



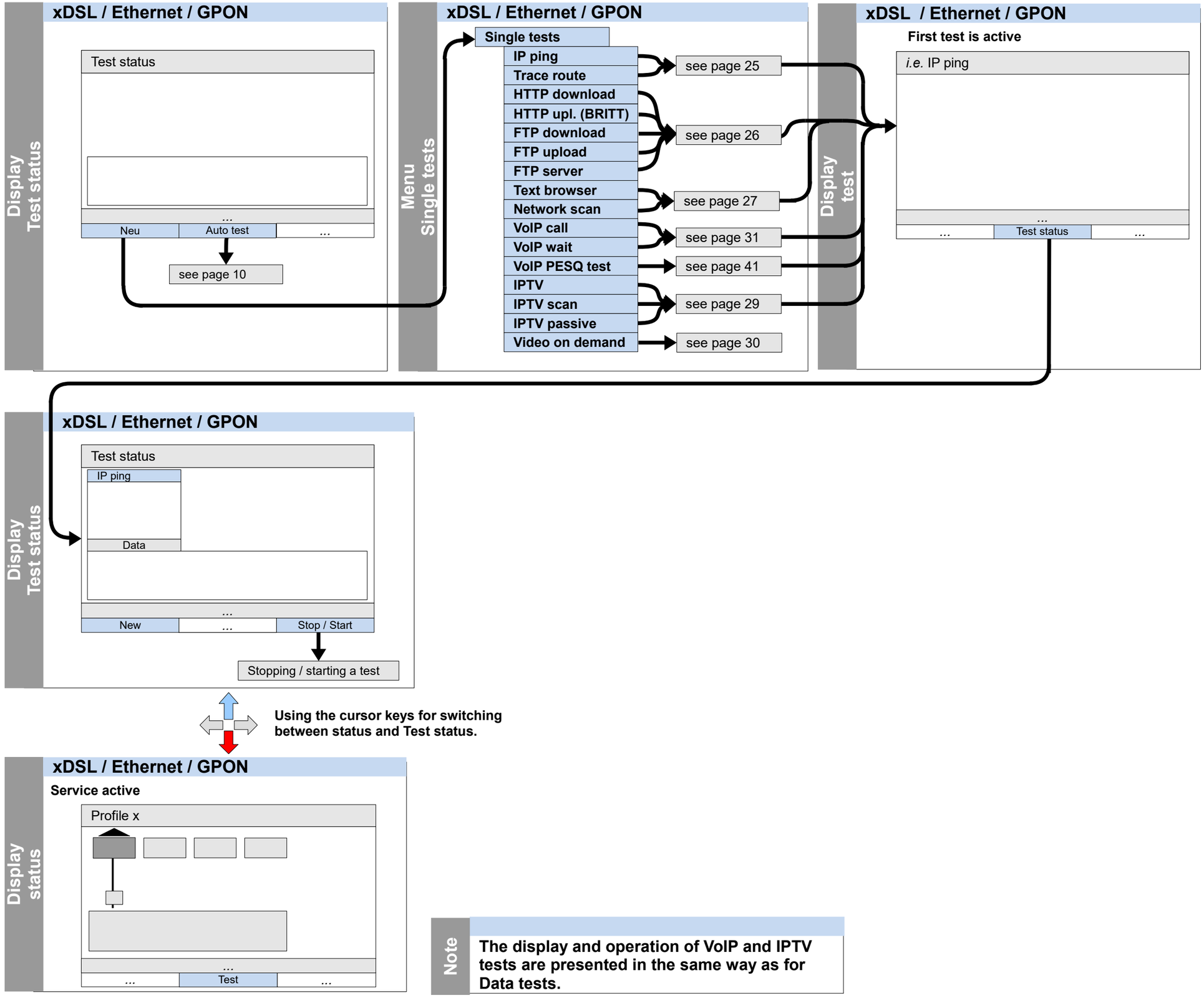
Menu Physic tests

- Physic tests
  - VPI/VCI scan → see page 28
  - ATM OAM ping → see page 28
  - Loop → see page 32
  - Traffic generator → see page 33
  - RFC2544 → see page 34
  - LTE scan → LTE scan is active

Service tests: Parallel tests
Test status

Cross reference:

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VPI/VCI scan ATM OAM ping	28
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VoIP call / wait	31
ISDN tests	**page**
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Copper tests	**page**
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Others	**page**
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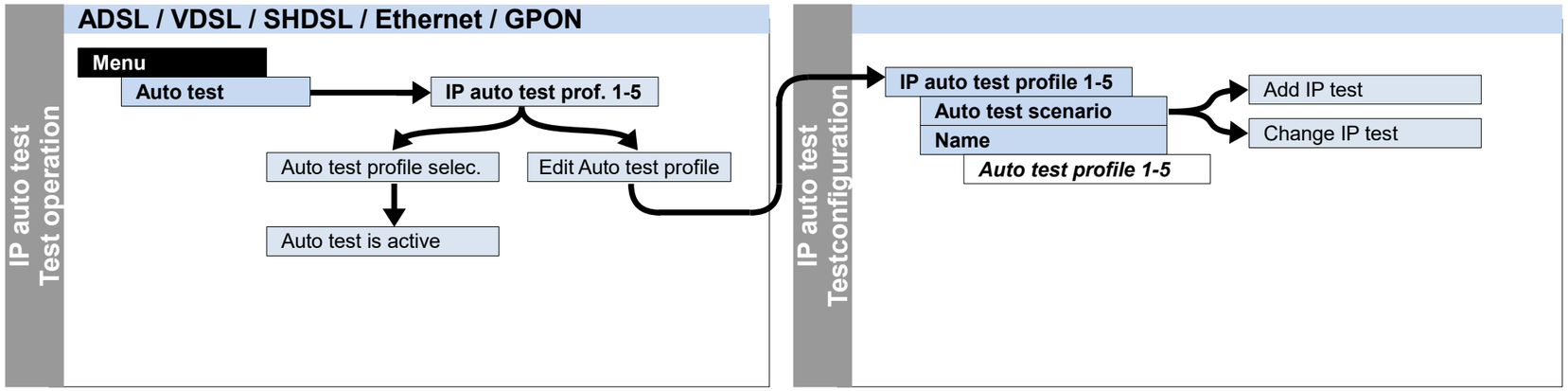
Note

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

Cross reference:

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IP and ATM tests	page
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Others	page
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Main menu

BRI S / BRI U / PRI / POTS

- **Menu**
  - **Single tests** → Start ISDN 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 40
  - *3 **Start monitor** → see page 40
  - **Test results**
  - **Level measurem.**
    - *2 **Connected line**
    - **Other TE**
    - BRI U **Volate BRI U**
    - BRI U **Power BRI U**
    - *4 **Connected line**

    → Display Level measuring
  - *2 **L1 status** → Display L1 status
  - **Access** → see page 6
  - **ARGUS manager**
  - **Settings** → see page 13-24
  - **Battery (status,...)**
    - **Status** → Display Battery status
    - **Automatic char.**
      - ***On***
      - Off
  - **Help**
    - **Hotkeys** → see table page 4

Menu Test results

BRI S / BRI U / PRI / 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 ARGUS manager

BRI S / BRI U / PRI / POTS

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

Menu Single tests

BRI S / BRI U / PRI / POTS

Single tests

BRI S, BRI U
- **BERT** → see page 36
- **Supp. Serv. test** → see page 37
- **Service test** → see page 37
- **X.31 test** → see page 38
- **CF interrogation** → see page 39
- **CF activation** → see page 39
- **CF delete** → see page 39
- **Phone / connection** → see page 39
- **Time measurement** → see page 40
- **PESQ test** → see page 41

PRI
- **BERT** → see page 36
- **Supp. Serv. test** → see page 37
- **Service test** → see page 37
- **X.31 test** → see page 38
- **CF interrogation** → see page 39
- **CF activation** → see page 39
- **CF delete** → see page 39
- **Phone / connection** → see page 39
- **Time measuring** → see page 40

POTS
- **Phone / connection** → Phone/con. active
- **PESQ test** → see page 41

Note

*1 = BRI S, BRI U, PRI

*2 = BRI S, PRI

*3 = BRI S, PRI, POTS

*4 = POTS

Settings and reset
Numbers, Backup/Restore, Cloud services

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Menu Settings

- **Menu**
  - **Settings**
    - *1 **Profiles** → see page 15-22
    - **ISDN and analogue** → see page 23-24
    - **Copper/Cable tests** → see page 42
    - **PESQ** → see page 41
    - **Cloud services**
    - **Remote access** → see page 14
    - **Device**
    - **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 „date“ 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***

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

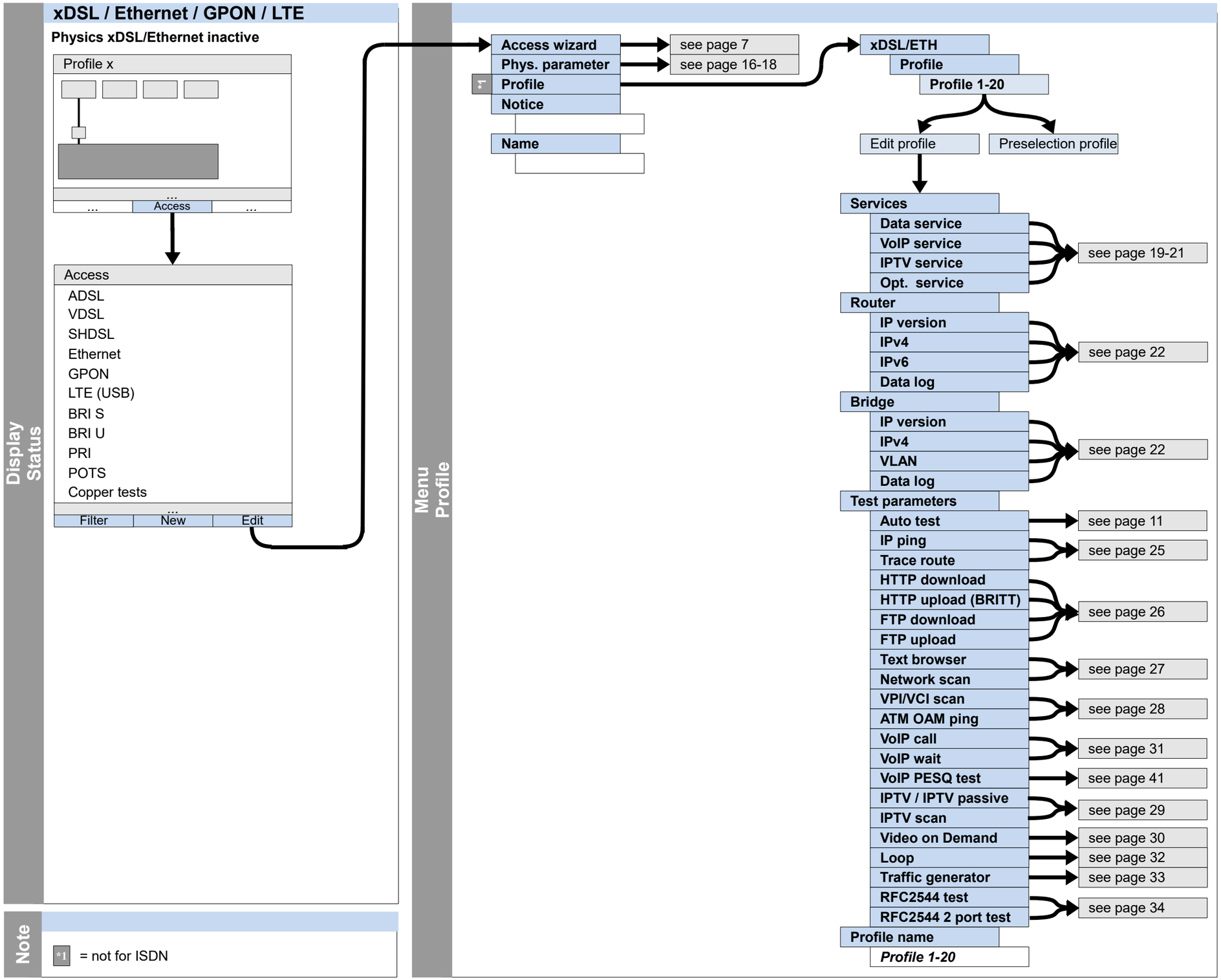
- **Menu**
  - **Settings**
    - **Remote access**
      - **Management interface** → **Start manage. Interf.**: ***Off***, on
      - **Web server**
        - **Start web server**: ***Off***, on
        - **Password protection**: Off, ***on***
        - **VNC server**
        - **Start web server**: ***Off***, on
        - **Password protection**: Off, ***on***
        - **VNC zoom factor**: Factor 1, ***Factor 2***, Factor 3, Factor 4
      - **Interface selection**: ETH, ***WLAN***
      - **WLAN**
        - **SSID**: ***ARGUS165_SN01234***
        - **Password**: ***argus165***
        - **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:

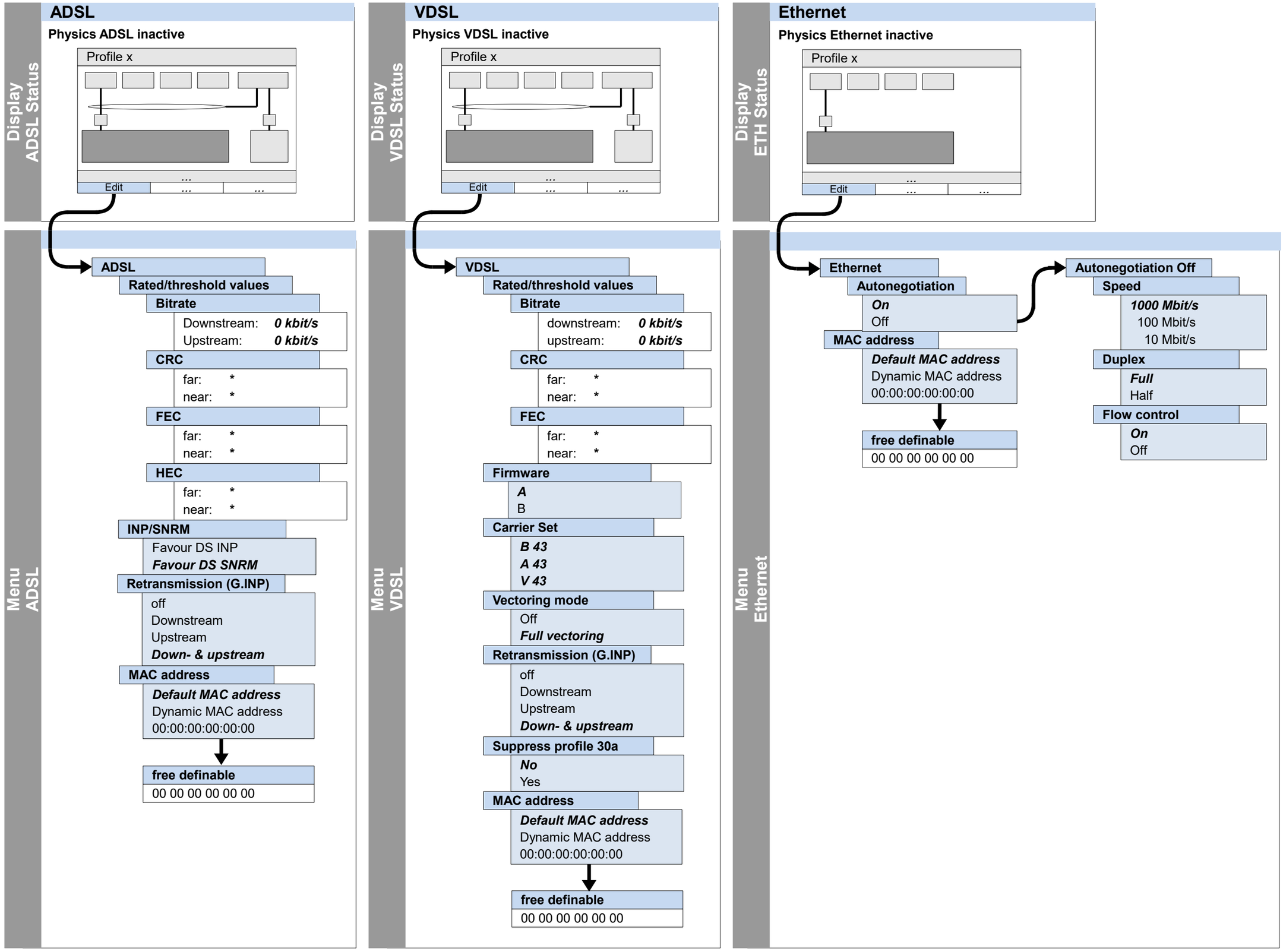
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Settings
Phys. parameters: ADSL, VDSL, Ethernet

Cross reference:

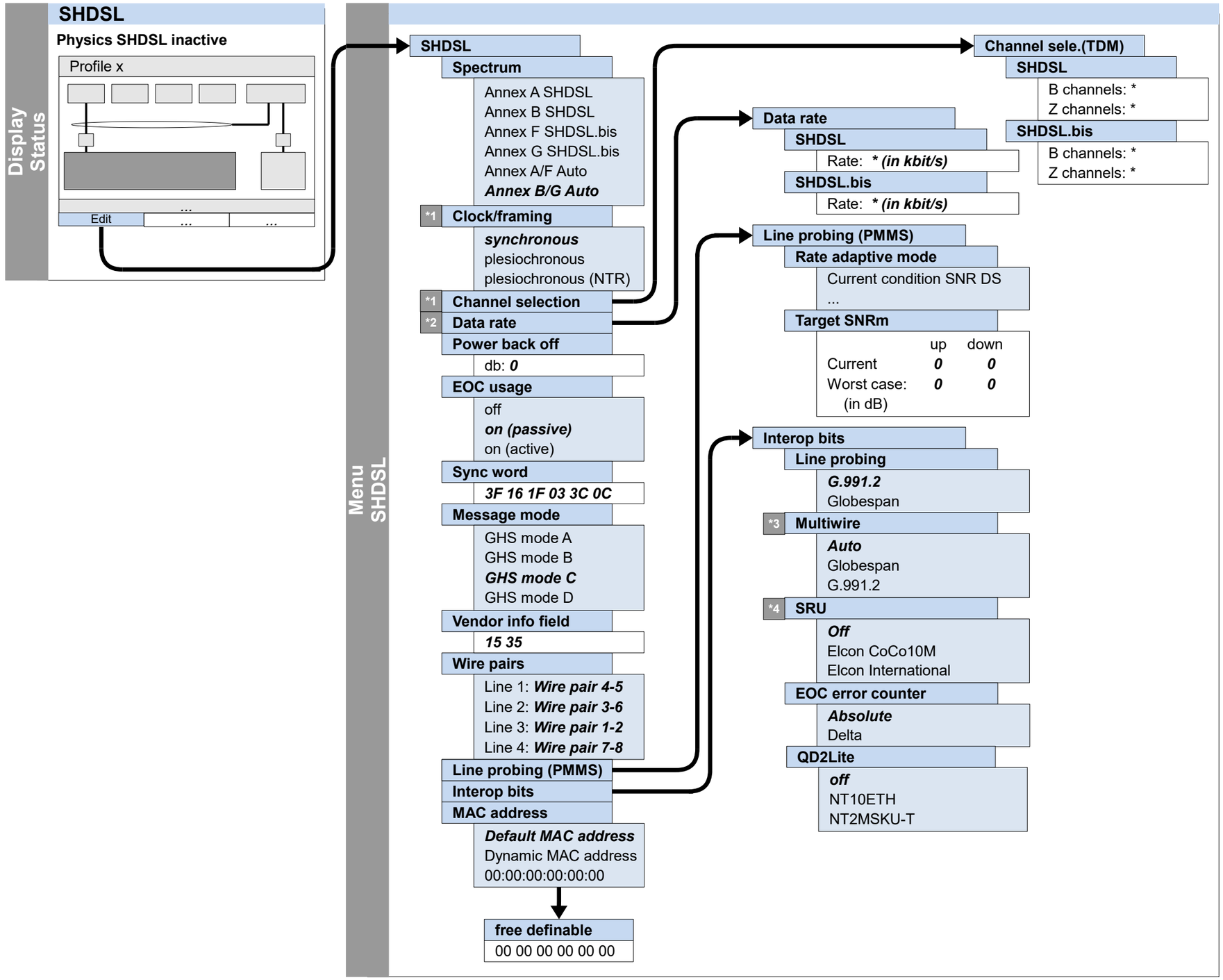
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Settings
Phys. parameters: SHDSL

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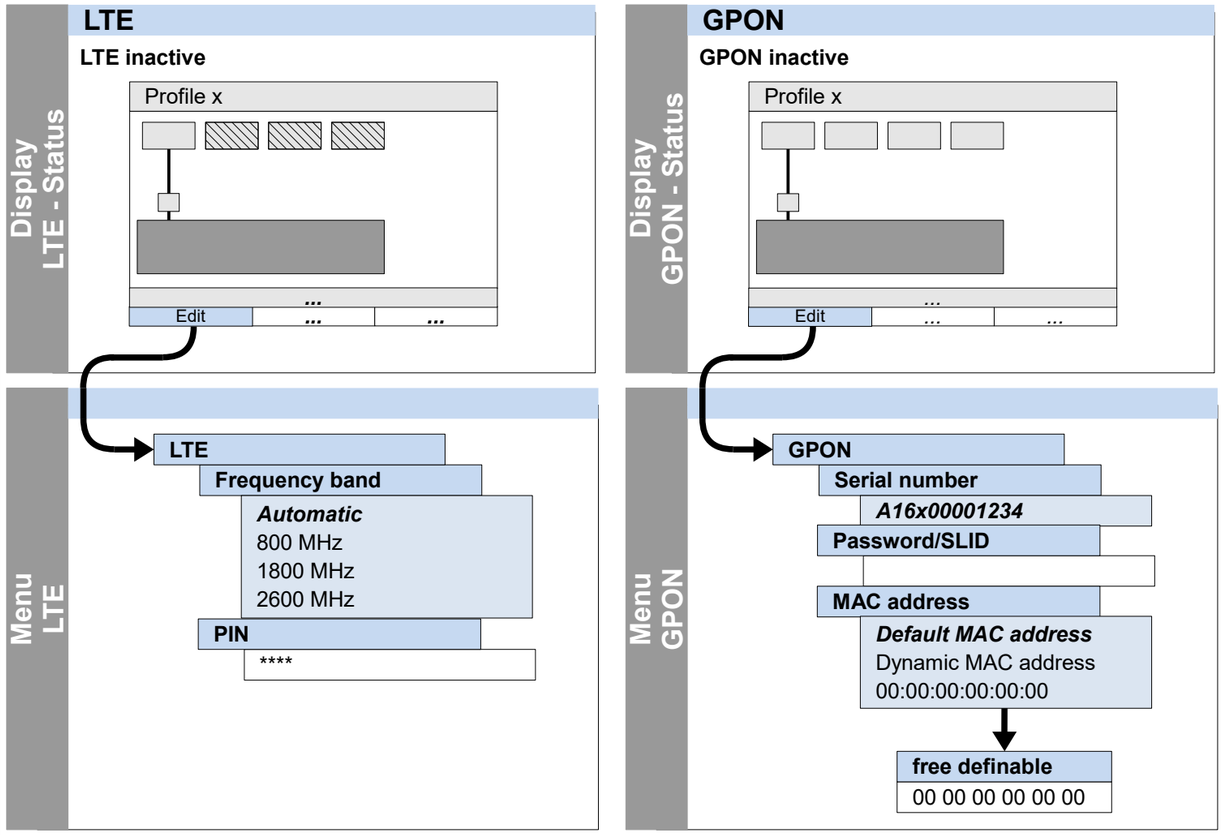
Note

*1 = TDM, Independent TC, HDLC
*2 = ATM, EFM
*3 = ATM, TDM
*4 = EFM, Independent TC

Settings
Phys. parameters: LTE, GPON

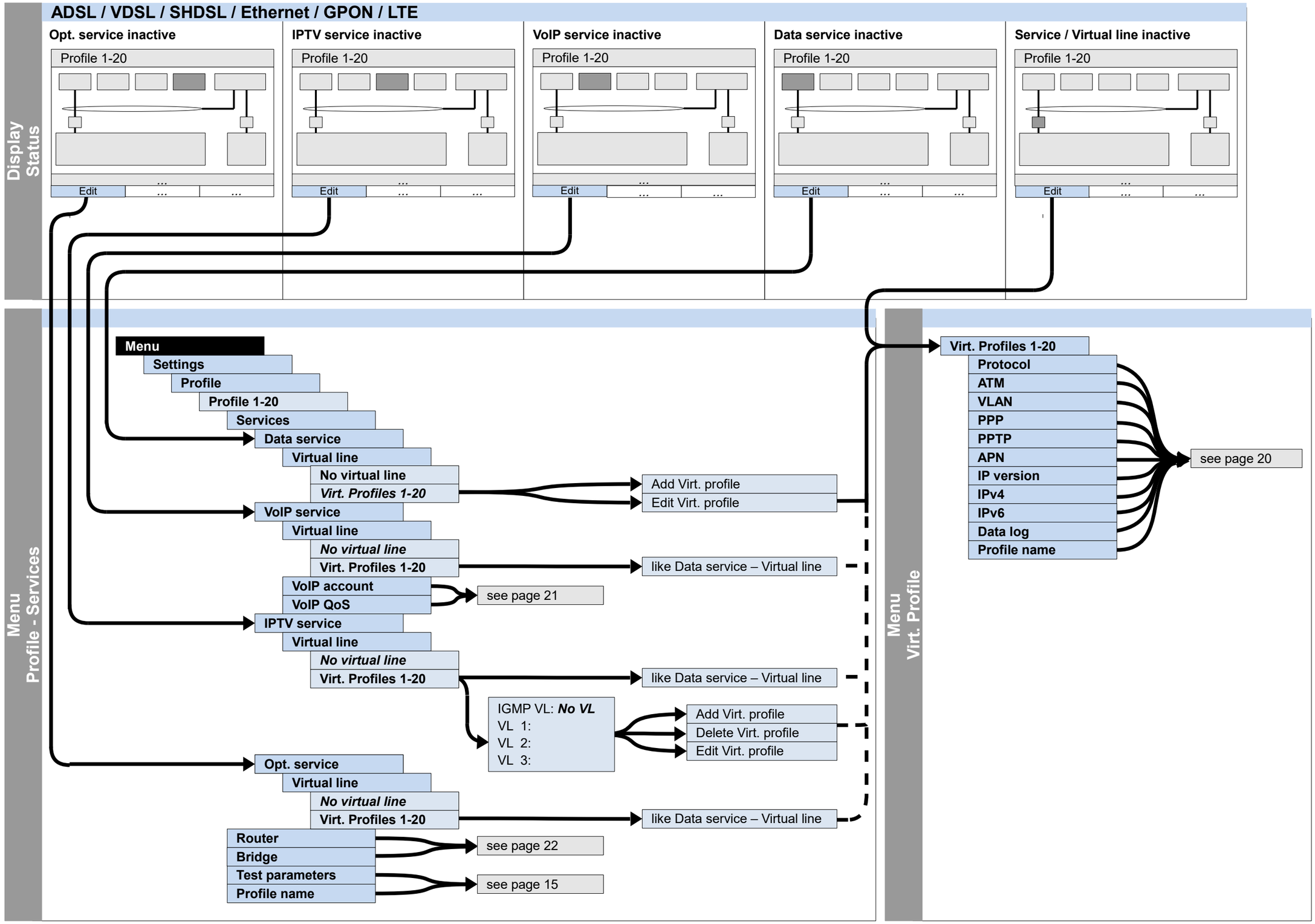
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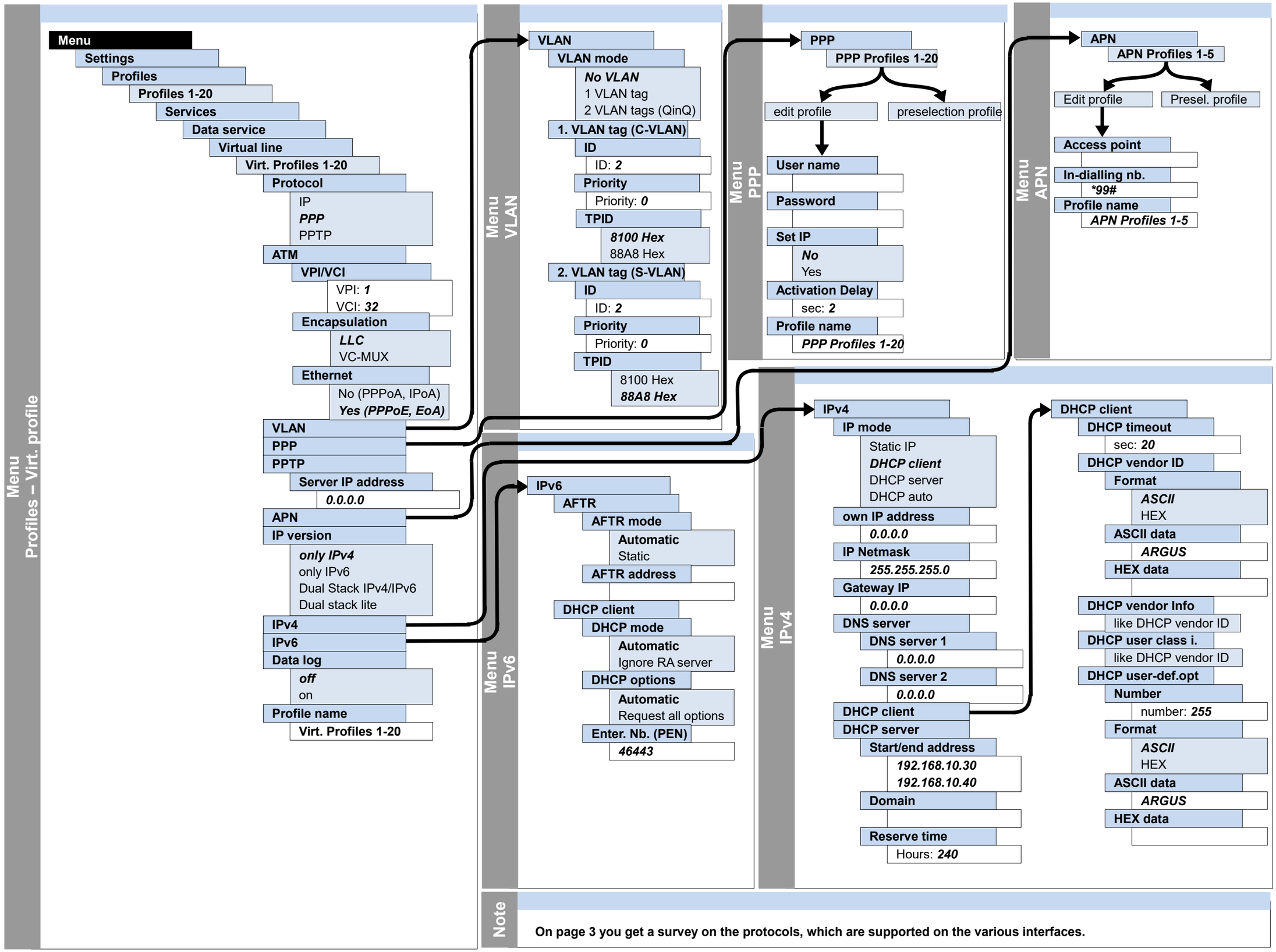


Settings

Profiles – Virt. profile (Protocol, ATM, VLAN, PPP, PPTP, IP version, IPv4, IPv6, Data log)

Cross reference:

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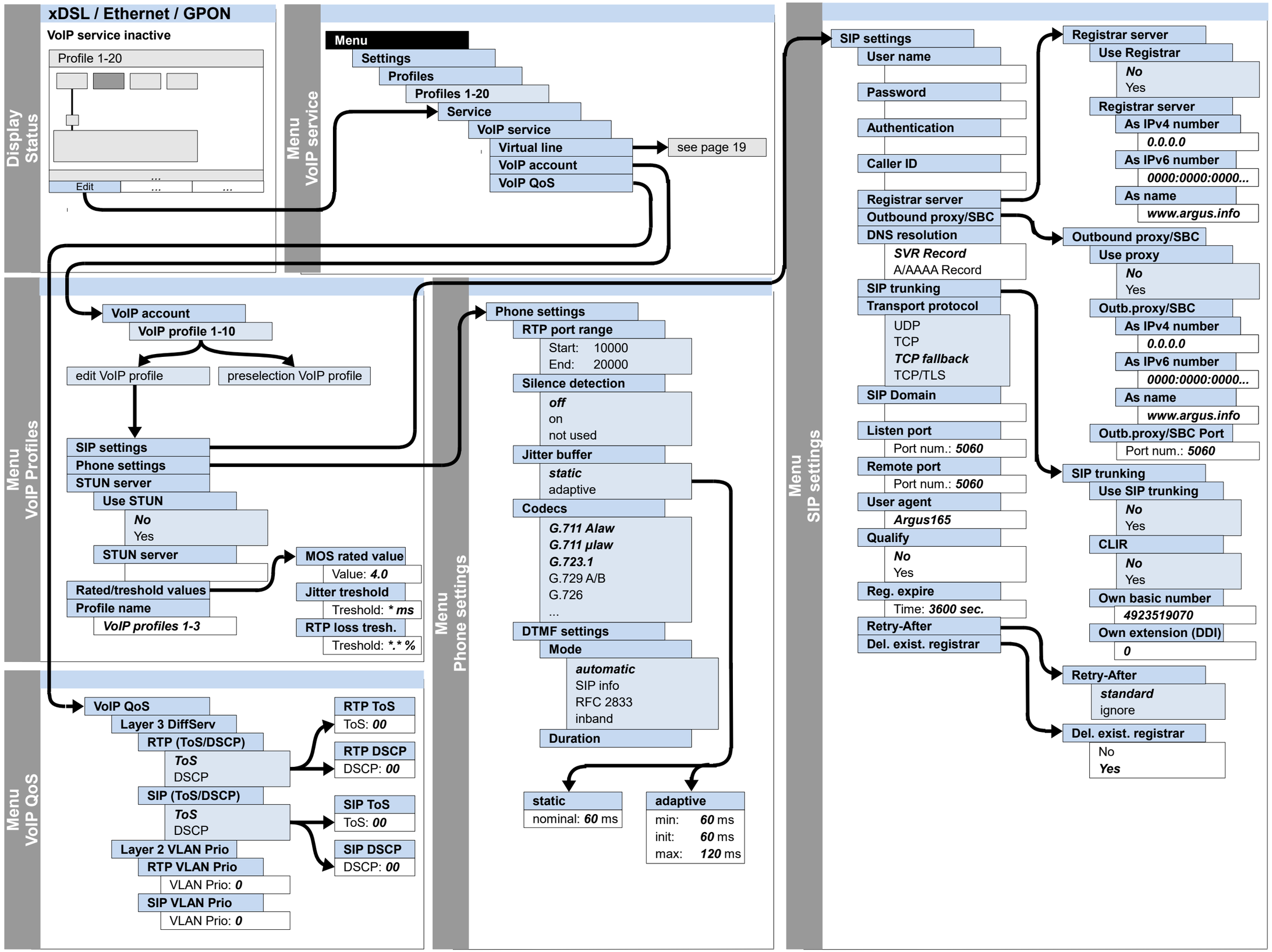
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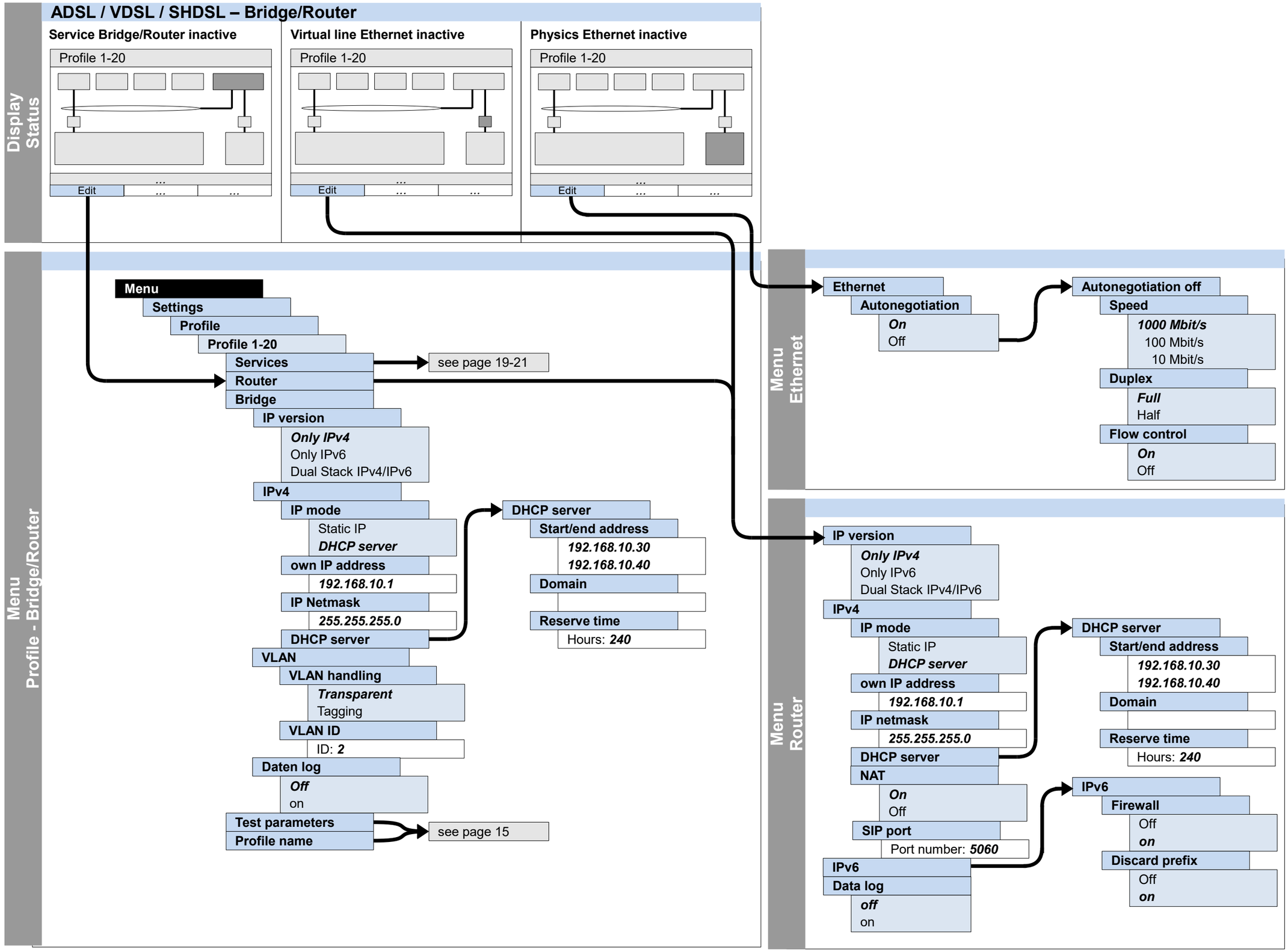
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Settings
Profile – Bridge/Router (Ethernet, Virtual line, Router)

Cross reference:

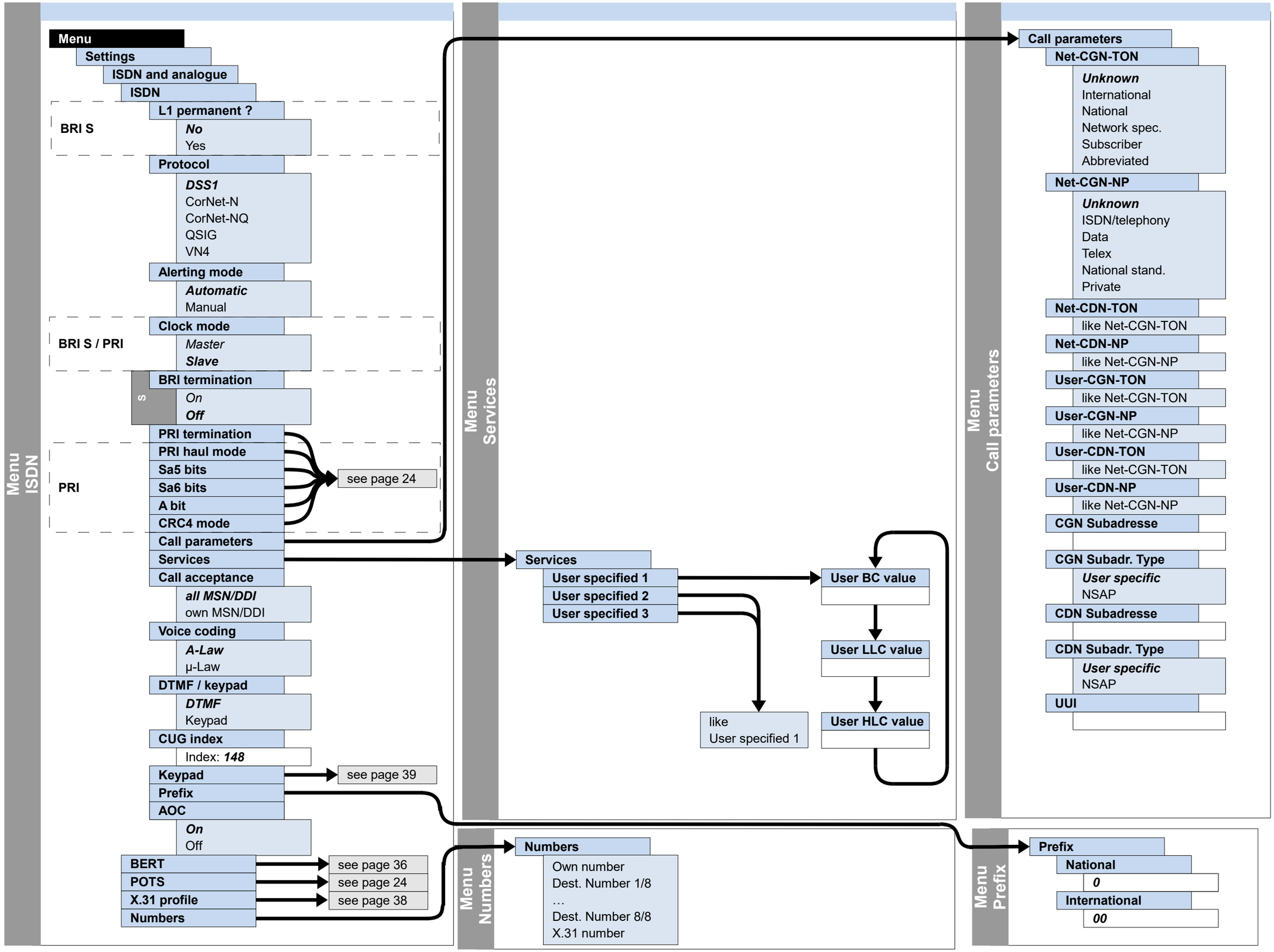
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Settings
ISDN (General, BRI S, BRI U)

Cross reference:

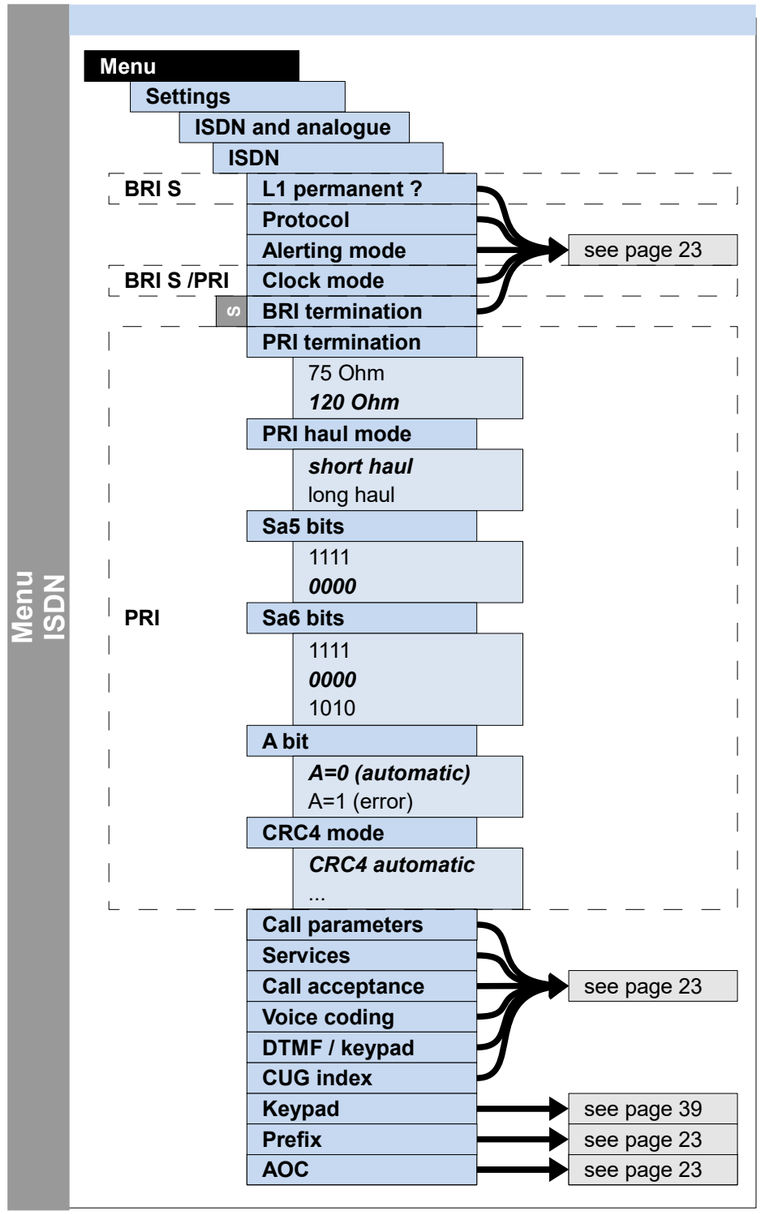
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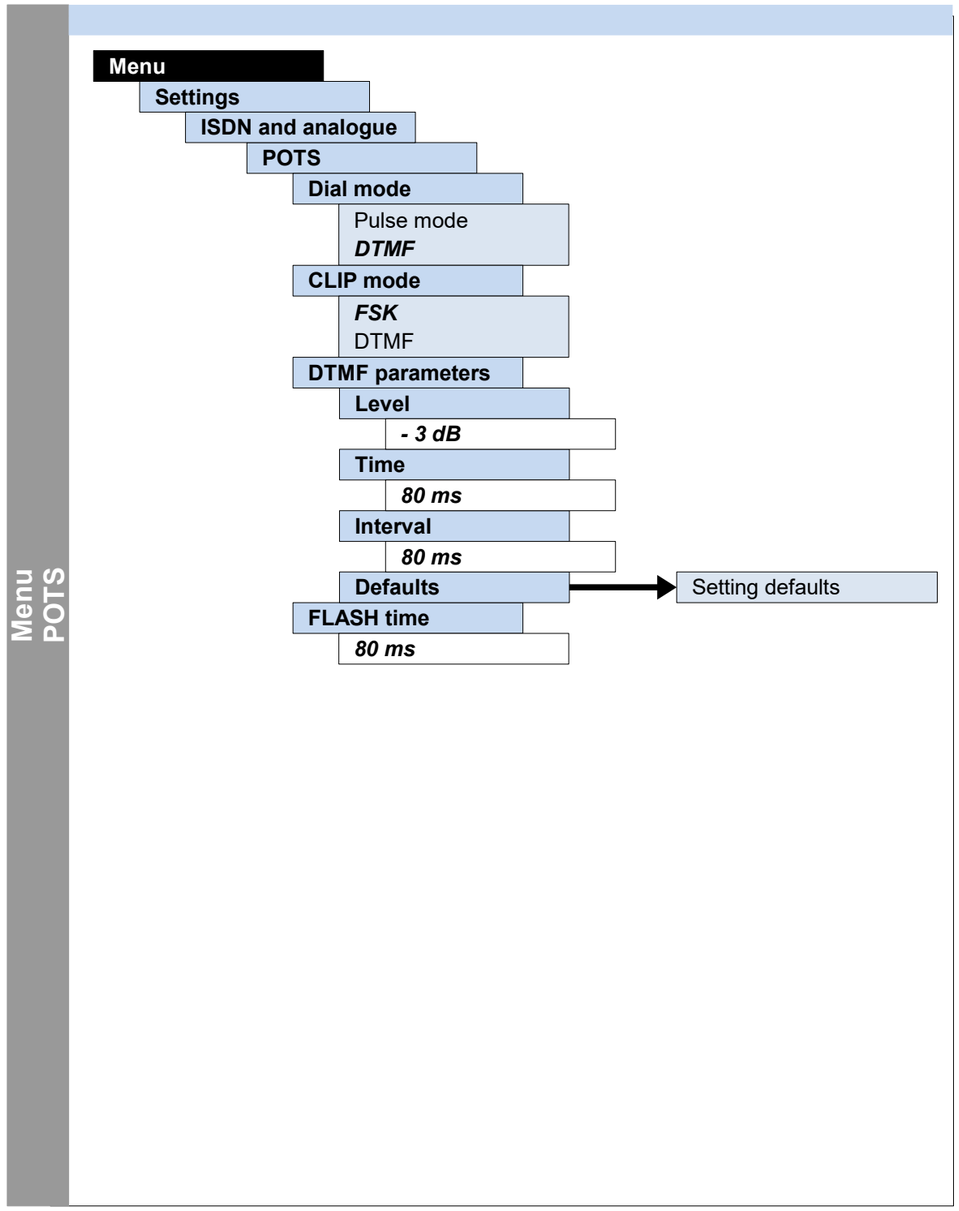


Settings
ISDN (PRI), POTS

Cross reference:

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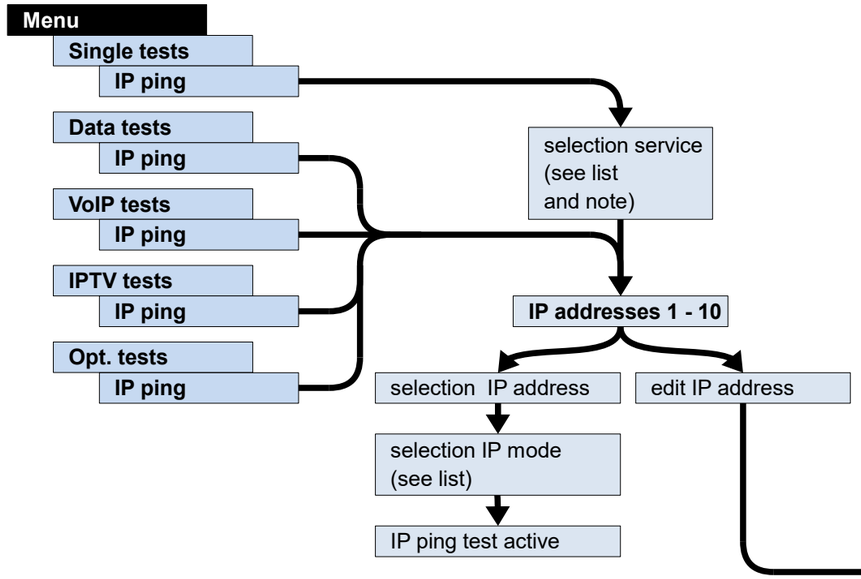


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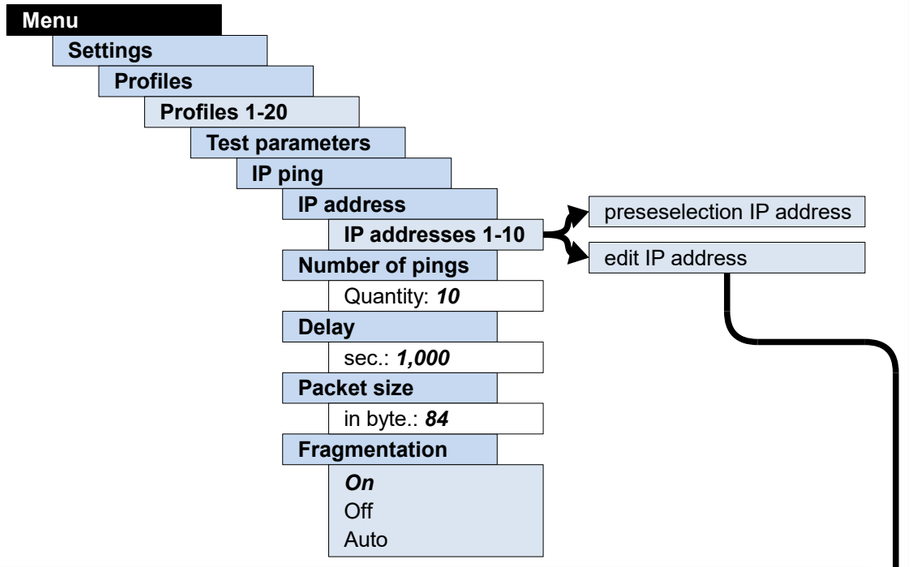
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IP ping Test operation

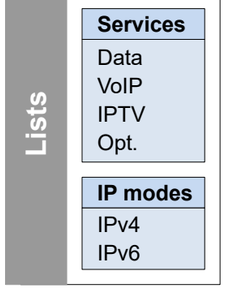
ADSL / VDSL / SHDSL / Ethernet / GPON / LTE



IP ping Test configuration

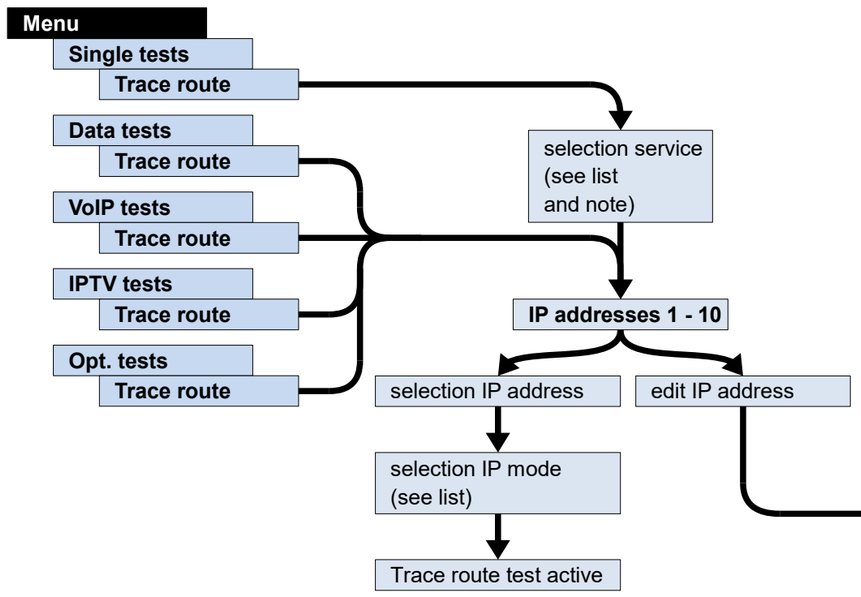


Lists

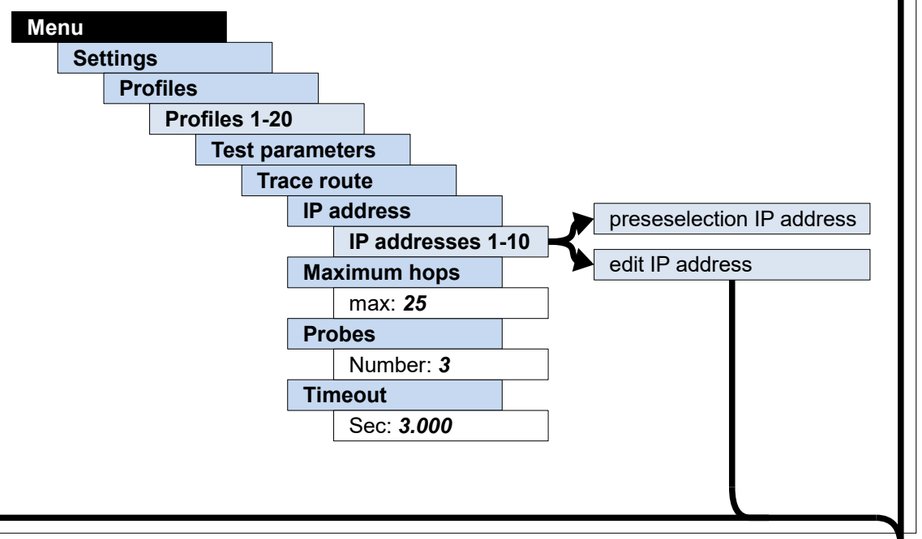


Trace route Test operation

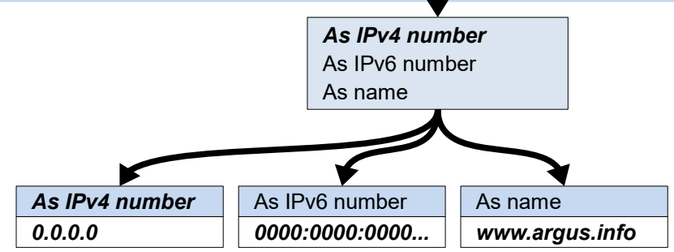
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Trace route Test configuration



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 / SHDSL / Ethernet / GPON / 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 / SHDSL / Ethernet / GPON / 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 / SHDSL / Ethernet / GPON / 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 / SHDSL / Ethernet / GPON / LTE

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- preselection server profile
- edit server profile

FTP upload Test operation

ADSL / VDSL / SHDSL / Ethernet / GPON / 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 / SHDSL / Ethernet / GPON / 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 / SHDSL / Ethernet / GPON

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

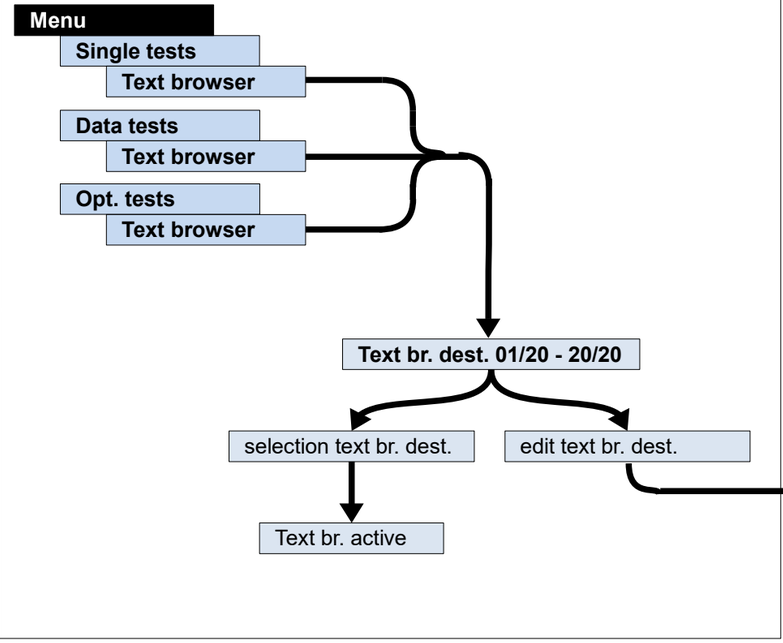
A test configuration of the FTP server is not necassary.

Cross reference:

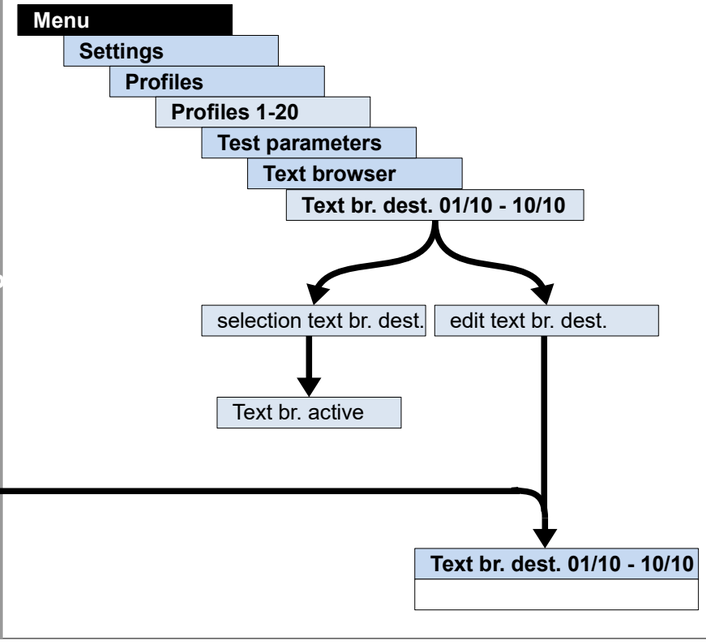
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xDSL / Ethernet / GPON / LTE

Text browser Test operation

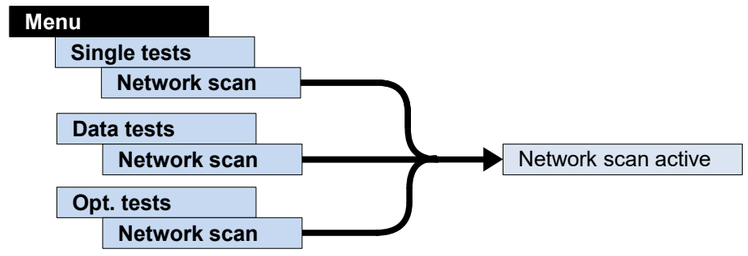


Text browser Test configuration

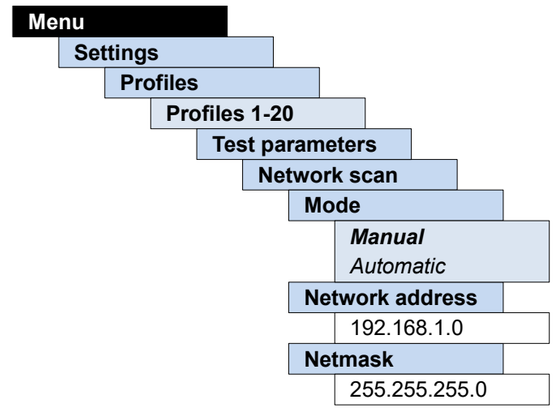


Ethernet

Network scan Test operation



Network scan Test configuration

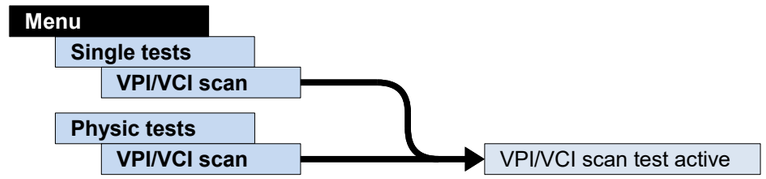


Cross reference:

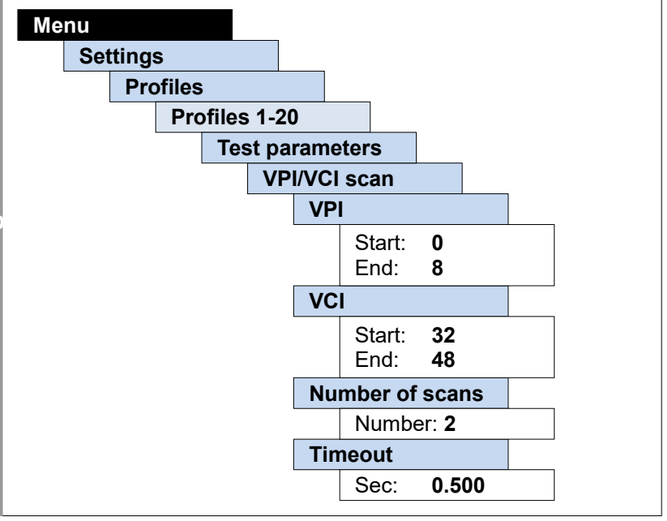
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VPI/VCI scan Test operation

ADSL / SHDSL ATM

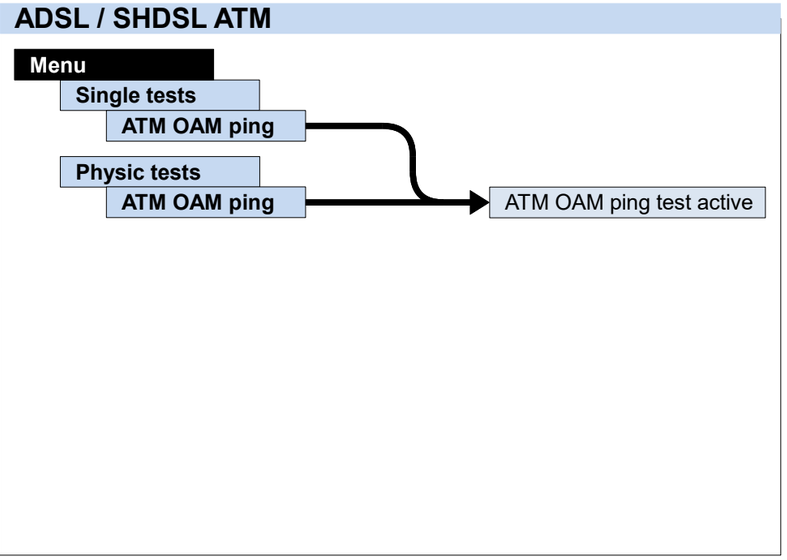


VPI/VCI scan Test configuration

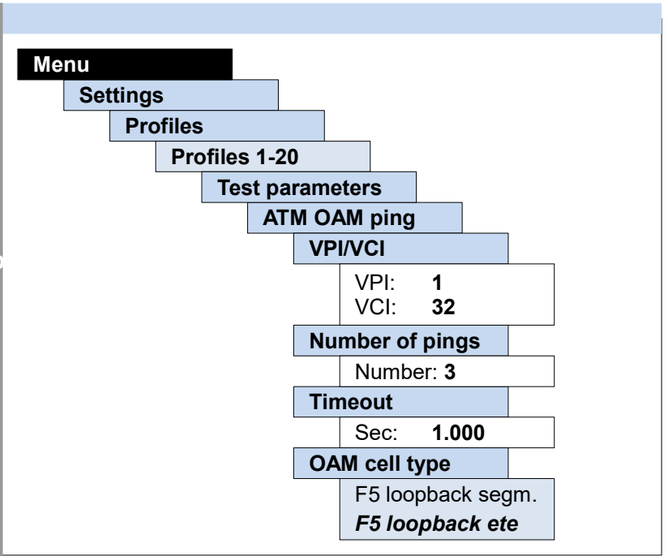


ATM OAM ping Test operation

ADSL / SHDSL ATM



ATM OAM ping Test configuration



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IPTV Test operation

ADSL / VDSL / SHDSL / Ethernet / GPON

- **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 / SHDSL / Ethernet / GPON

- **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

ADSL / VDSL / SHDSL / Ethernet / GPON

- **Menu**
  - **Settings**
  - **Profiles**
  - **Profiles 1-20**
  - **Test parameters**
  - **IPTV / IPTV passive**
  - **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 address**
  - **Multicast address**: Multicast IP: ***224.0.0.0*** / Source IP (SSM): ***0.0.0.0***
- **Port**: Port number: ***0***
- **TV station**: ***IPTV channel 1-250***

IPTV scan Test operation

ADSL / VDSL / SHDSL / Ethernet / GPON

- **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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ISDN / POTS	23-24
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Hotkeys	4
Test leads	46-49

ADSL / VDSL / SHDSL / Ethernet / GPON

Video on demand Test operation

- **Menu**
  - **Single tests**
    - **Video on demand**
  - **Opt. 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

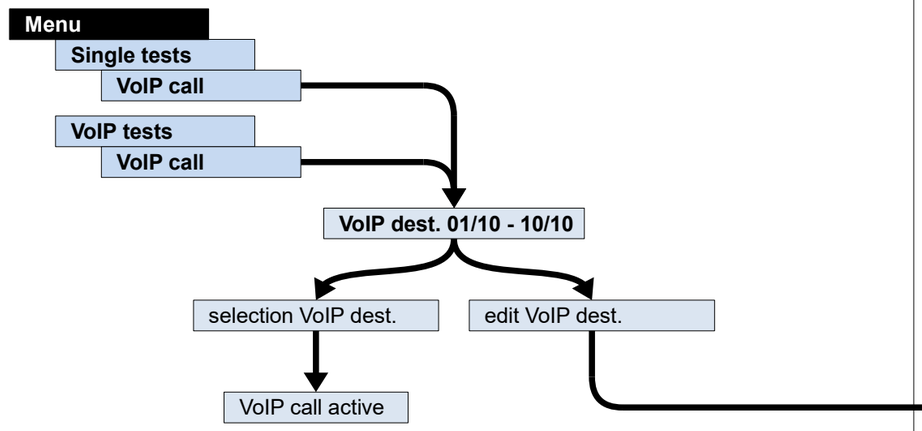
- **Type of stream**: ***RTSP***, HTTP, FTP, MMS
- **Server address**
- **Port**: Port number: ***0***
- **File name**
- **RTSP type**: ***TCP***, UDP
- **RTSP server type**: ***standard***, Kasenna
- **Jitter buffer**: Jitter buffer value: ***300 ms***
- **Thresholds**
  - **VoD thresholds**
    - **PCR jitter**: Jitter value: ***8 ms***
    - **Continuity error**: Cont. error value: ***0.1 %***
- **Profile name**: ***VoD profiles 1-3***

Cross reference:

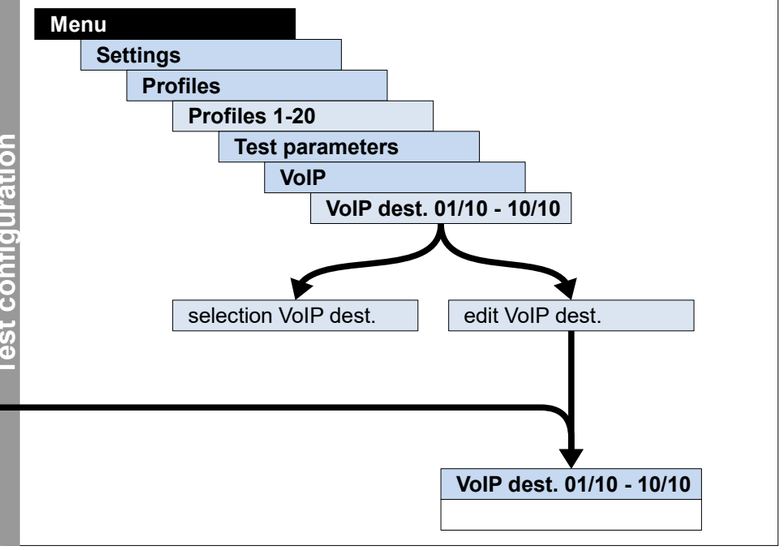
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Test leads	46-49

VoIP call Test operation

ADSL / VDSL / SHDSL / Ethernet / GPON

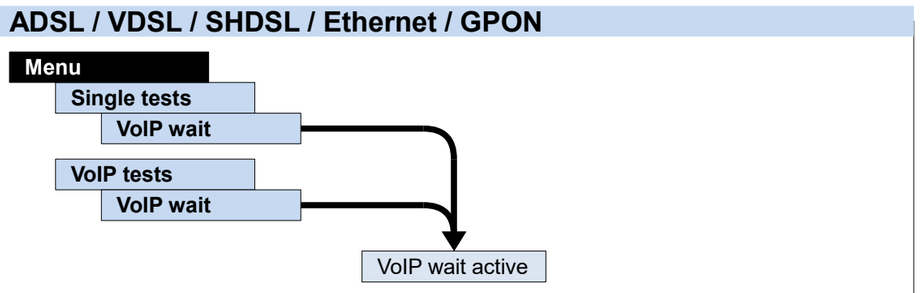


VoIP call Test configuration

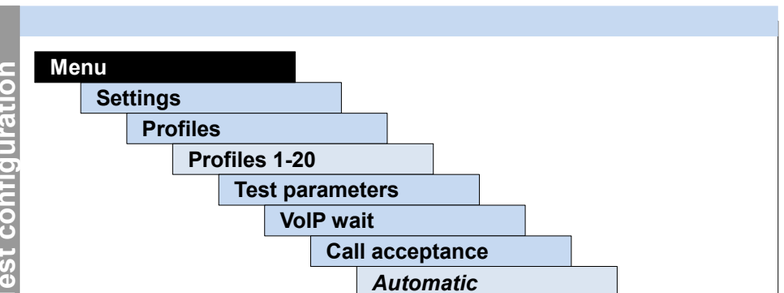


VoIP wait Test operation

ADSL / VDSL / SHDSL / Ethernet / GPON



VoIP wait Test configuration



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SHDSL ATM/EFM / VDSL / Ethernet / GPON

Test operation

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

→ Loop active

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***

Cross reference:

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SHDSL EFM / ATM, VDSL, Ethernet / GPON

Traffic generator
Test operation

- **Menu**
  - **Single tests**
    - **Traffic generator**
  - **Physic tests**
    - **Traffic generator**

→ Traffic generator active

Traffic generator
Test configuration

- **Menu**
  - **Settings**
    - **Profile**
      - **Profile 1-20**
        - **Test parameters**
          - **Traffic generator**
            - **Layer 1**
            - **Layer 2**
              - **Own VPI/VCI**
                - VPI: ***1***
                - VCI: ***32***
              - **Own VLAN** → Menu VLAN
              - **Own Mac check**
                - ***No check***
                - In soure
                - In destination
                - In soure or destination
              - **Dest. MAC address**
                - ***00 00 00 00 00 00***
            - **Layer 3**
              - **Own IP**
                - **Own IP mode**
                  - ***Static IP***
                  - DHCP client
                - **Own IP address**
                  - ***0.0.0.0***
                - **Gateway**
                  - ***0.0.0.0***
                - **Netmask**
                  - ***255.255.255.0***
                - **IP protocol**
                  - ***0x05***
              - **Dest. IP address**
                - ***0.0.0.0***
            - **Layer 4**
              - **UDP ports**
                - Source port: **10000**
                - Dest, port: **20000**
          - **Bandwith**
            - ***1000.000 Mbit/s***
          - **Mode**
            - Time
            - Frame
            - ***Endless***
          - **Frame size**
            - ***1518 Bytes***
          - **Follow-up time**
            - ***Seconds: 3***
          - **TTL**
            - ***Hops: 128***

Menu
VLAN

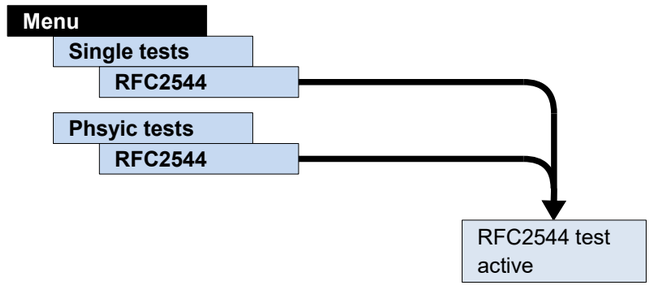
- **VLAN**
  - **VLAN mode**
    - ***No VLAN***
    - 1 VLAN tag
    - 2 VLAN tags (QinQ)
  - **1. VLAN tag (C-VLAN)**
    - **ID**
      - ID: ***2***
    - **Priority**
      - Priority: ***0***
    - **TPID**
      - ***8100 Hex***
      - 88A8 Hex
  - **2. VLAN tag (S-VLAN)**
    - **ID**
     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

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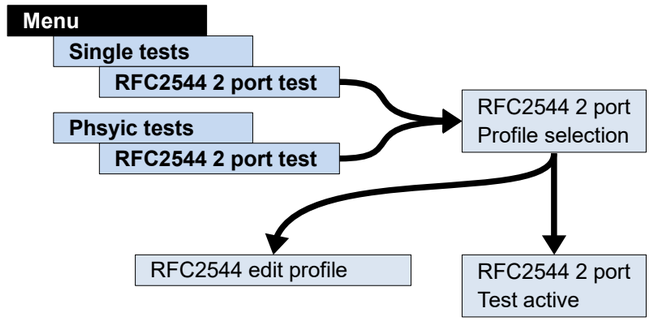
RFC2544 test Test operation

SHDSL EFM / ATM, VDSL, Ethernet IP based

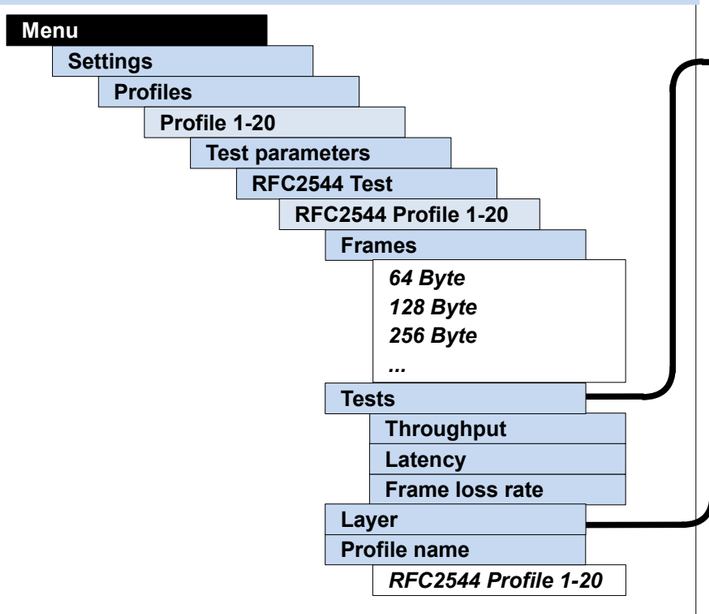


RFC2544 2 port Test operation

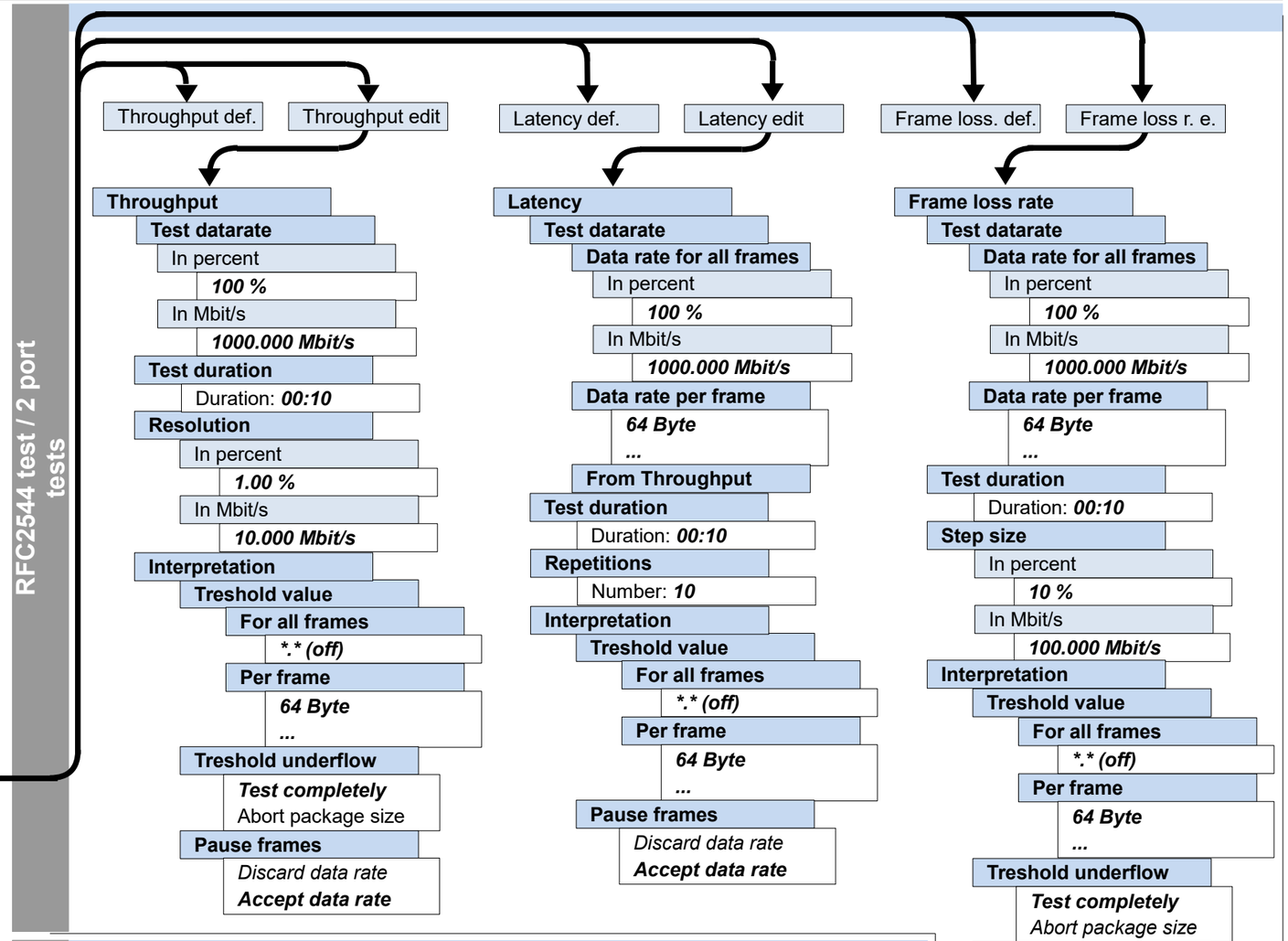
ADSL / VDSL / SHDSL / Ethernet 2 port access



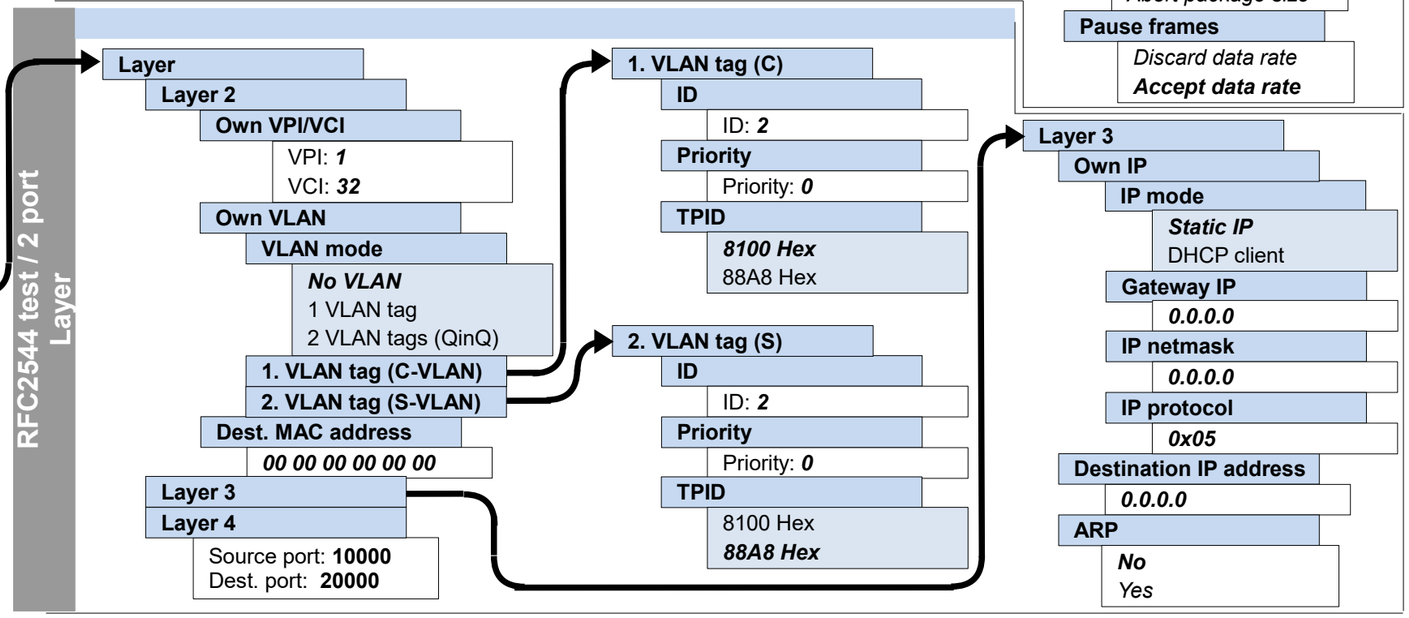
RFC2544 test / 2 port Test configuration



RFC2544 test / 2 port tests



RFC2544 test / 2 port Layer



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Ethernet cable tests

ETH TDR/Cable tests
Test operation

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

Ethernet cable tests

Port flash
Test operation

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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BERT Test operation

BRI S/U / PRI

TE ... / NT ...

Menu
- Single tests
  - BERT
    - BERT start
    - BERT wait
    - B-channel loop

Select number → Select service (see list) → Select B-channel → BERT active

BERT wait active

B-channel loop wait active

BERT Test configuration

Menu
- Settings
  - BERT
    - BERT time
      - Durat.: ***00:01*** (hh:mm)
    - Bit pattern S / U
      - (2^15)-1
      - ***(2^11)-1***
      - User defined
    - Pattern PRI
      - like S/U
    - Error level
      - Threshold: ***1E-06***
    - HRX value
      - Value: ***15 %***

User defined
Enter (binary):
0000000000000000

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)

BRI S/U

Leased line

Menu
- Single tests
  - BERT
    - BERT start
      - B-channel (64k)
      - B-channel (128k)
      - D-channel
    - BERT wait
      - B-channel (64k)
      - B-channel (128k)
      - D-channel
    - B-channel loop
      - B-channel
      - all framed

B-chan. select → B-chan. select → B-chan. select → BERT active

BERT wait active

B-channel loop wait active

PRI

Leased line

Menu
- Single tests
  - BERT
    - BERT start
      - B-channel (64k)
      - B-channel (128k)
      - MegaBERT fr.
      - MegaBERT unfr.
      - D-channel
    - BERT wait
      - B-channel (64k)
      - B-channel (128k)
      - MegaBERT fr.
      - MegaBERT unfr.
      - D-channel
    - B-channel-loop
      - B-channel
      - all framed
      - all unframed

B-chan. select → 1. B-chan. select → 2. B-chan. select → Pattern select (see list) → BERT active

B-chan. select → B-chan. select → Pattern select (see list) → BERT wait active

B-chan. select → B-chan. select → 1. B-chan. select → 2. B-chan. select → B-chan. select → BERT active

B-channel loop wait active

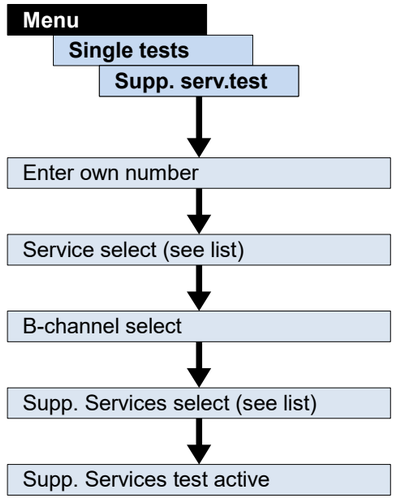
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Supplementary services Test operation

BRI S/U / PRI

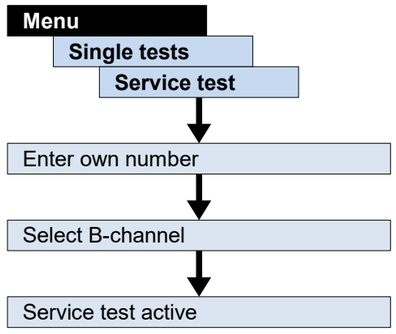
TE P-MP / TE P-P



Service test Test operation

BRI S/U / PRI

TE ... / NT ...



Lists

Services

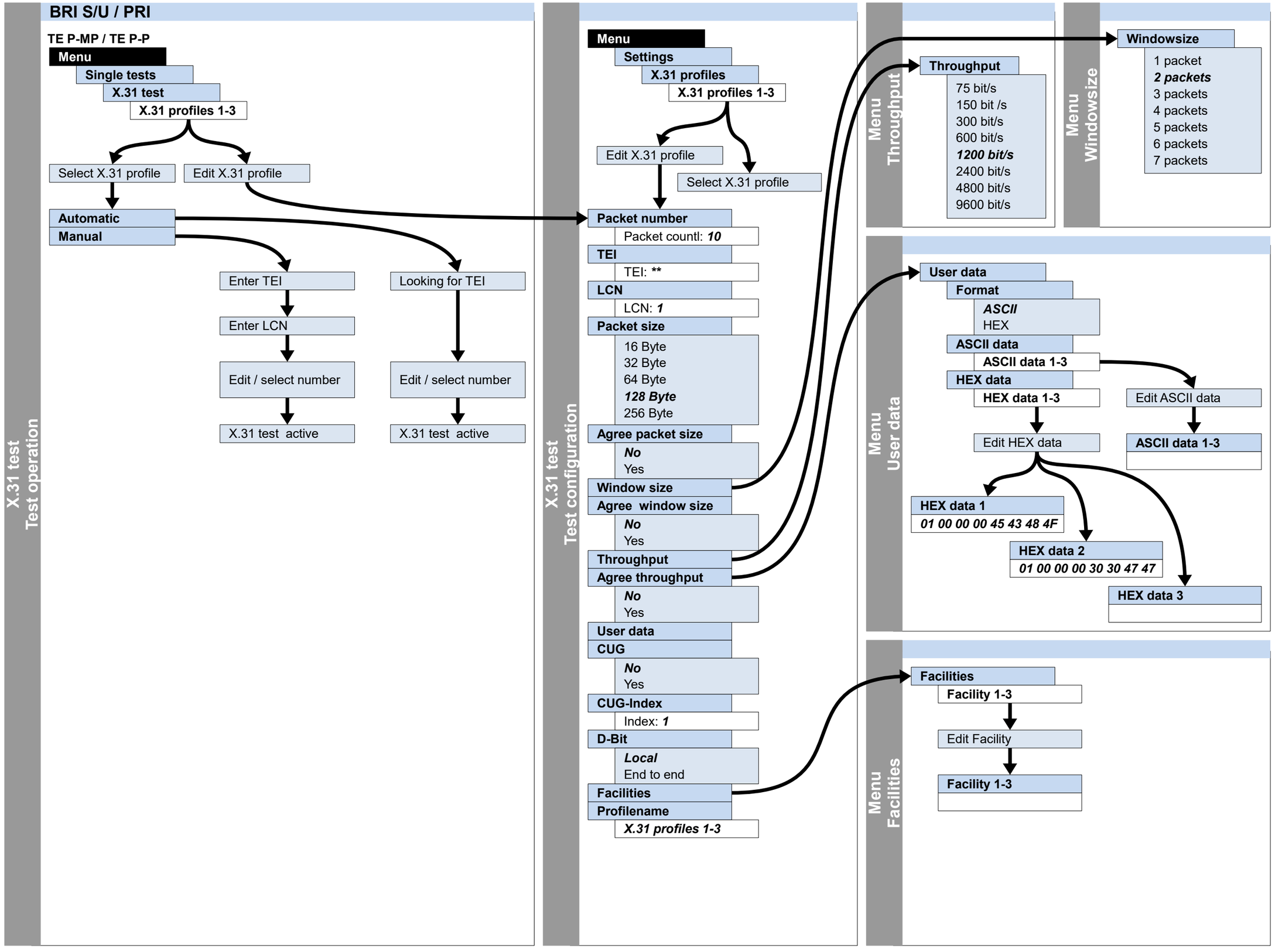
- Speech
- UDI 64 kBit
- 3.1 kHz audio
- 7 kHz audio
- DFU-TA
- Telephony ISDN
- Fax G3
- Fax G4
- Mixed Mode
- Teletex
- Videotex
- Telex
- OSI
- Telephony 7 kHz
- Video telephony 1
- Video telephony 2
- User specified 1
- User specified 2
- User specified 3

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

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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 / PRI

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
→ 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

Cross reference:

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Time measuring Test operation

BRI S/U

TE ... / NT ... / Leased line

Menu → Single tests → Time measuring → Conn. setup time / B-channel delay / Interchannel delay

- Conn. setup time → Edit / select number → Select service (see list) → Interchannel delay test active
- B-channel delay → Edit / select number → Select service (see list) → Select B-channel → B-Channel delay test active
- Interchannel delay → Edit / select number → Select service (see list) → Select B-channel → Conn. setup test active

PRI

TE ... / NT ...

Menu → Single tests → Time measuring → Conn. Setup time → Edit/ select number → Select service (see list) → Select B-channel → Conn. setup test active

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

Listening Test operation

BRI S

Monitor

Menu → Listening → Net side (NT) / Terminal (TE) / Both sides → Select B-channel → Listening active

PRI

Monitor

Menu → Listening → Net side (NT) / Terminal (TE) → Select B-channel → Listening active

Monitor Test operation

BRI S / PRI / POTS

Monitor

Menu → Start monitor → Monitor active

Auto test Test operation

BRI S / BRI U / PRI

TE P-MP / TE P-P

Menu → Test reports → Test no. 1-50 → Start → Enter test name → Enter own number → Edit / select number → Select service (see list) → Auto test active

Leased line

Menu → Test reports → Test no. 1-50 → Start → Enter test name → Select B-channel → Auto test active

Cross reference:

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PESQ Test operation

BRI S/U / POTS

Menu
Single tests
PESQ test
PESQ test active

ADSL / VDSL / SHDSL / Ethernet / GPON

Menu
Single tests
VoIP PESQ test
VoIP tests
VoIP PESQ test
VoIP PESQ test active

PESQ Test configuration

Menu
Settings
PESQ
Mode
ARGUS Loop
Send
Call number POTS
Call number ISDN
VoIP destination

Cross reference:

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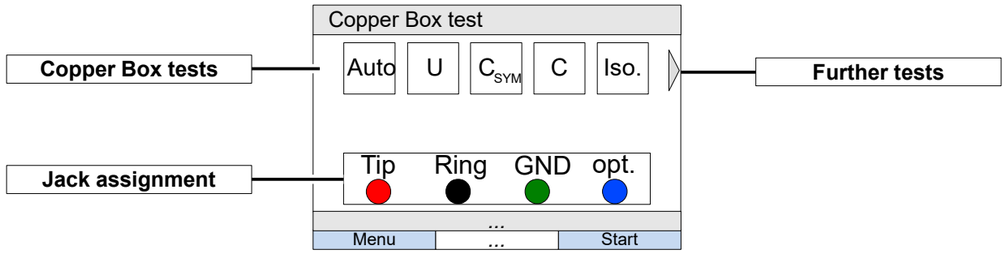
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Legend status

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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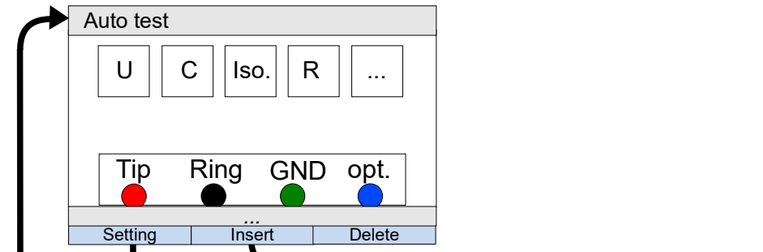
Copper Box

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 43
- *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**
- **Polarity**
- *2 **Measurement range**
- **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

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

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R measurement Test operation

Copper tests

Menu
Single tests
R measurement
R measurement active

R measurement 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
V/2 in m/µs
Line resistance
80 Ohm/km
Capacitance
39 nF/km
VoP in %
66.0
Name
PE 0.5 AWG24

RC measurement Test operation

Copper tests

Menu
Single tests
RC measurement
RC measurement act.

RC measurement 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
V/2 in m/µs
Line resistance
80 Ohm/km
Capacitance
39 nF/km
VoP in %
66.0
Name
PE 0.5 AWG24

Cross reference:

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

V/2 in m/µs
98.9

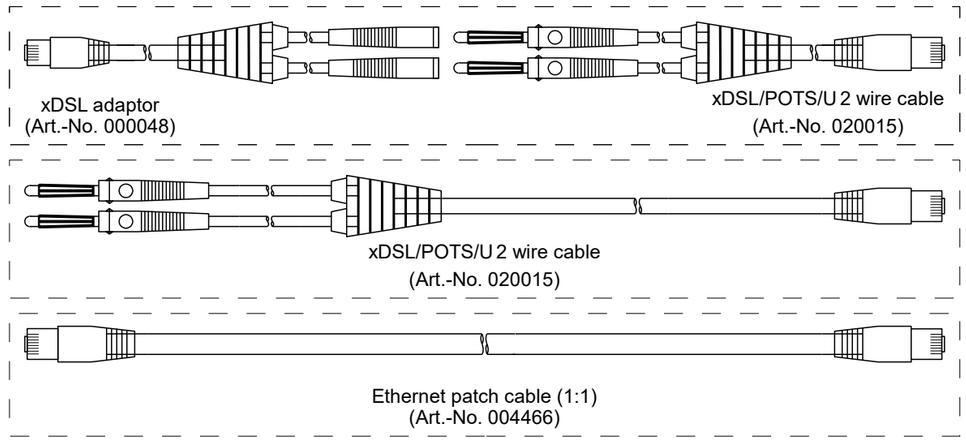
VoP in %
66.0

Test leads and pin assignments
ADSL, VDSL

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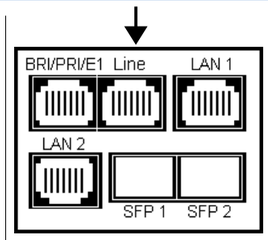
ADSL / VDSL



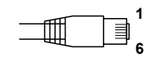
RJ11	Ban.	RJ45
3	rd	4
4	blk	5

Ban.	RJ45
rd	4
blk	5

RJ45	RJ45
1-8	1-8



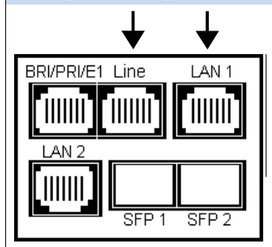
RJ11



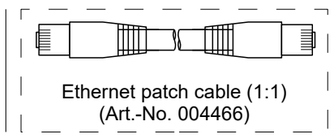
RJ45



ADSL / VDSL – Bridge / Router



RJ45	RJ45
1-8	1-8

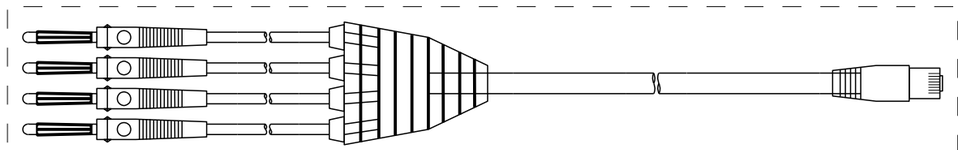


Test leads and pin assignments
SHDSL, Ethernet

Cross reference:

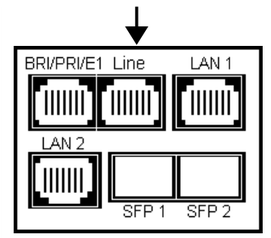
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SHDSL 2 / 4 wire

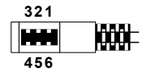


SHDSL 4 wire cable
(Art.-No. 000076)

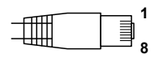
Ban.	RJ45
rd (L2)	3
rd (L1)	4
blk (L1)	5
blk (L2)	6



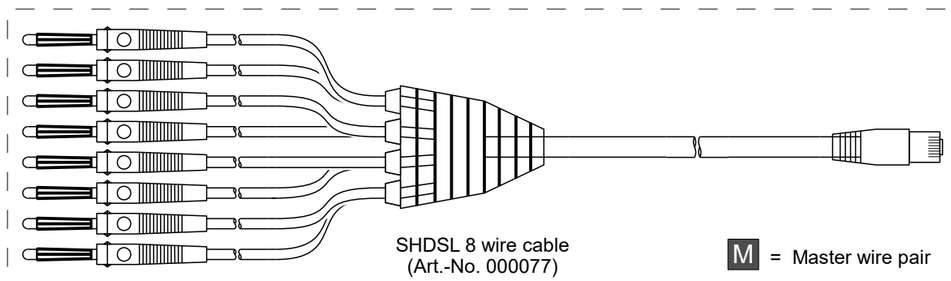
TAE



RJ45



SHDSL 2 / 4 / 6 / 8 wire

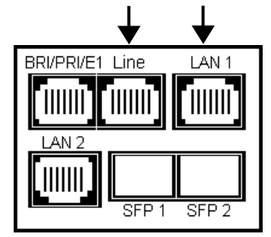


SHDSL 8 wire cable
(Art.-No. 000077)

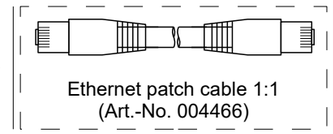
M = Master wire pair

	Ban.	Line	RJ45
M	rd	Pin 4	4/5
M	blk	Pin 5	
	rd	Pin 3	3/6
	blk	Pin 6	
	rd	Pin 1	1/2
	blk	Pin 2	
	rd	Pin 7	7/8
	blk	Pin 8	

SHDSL 2 / 4 / 6 / 8 wire – Bridge / Router

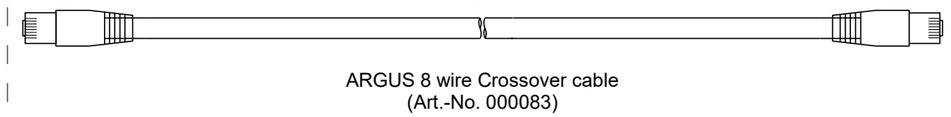


RJ45	RJ45
1-8	1-8



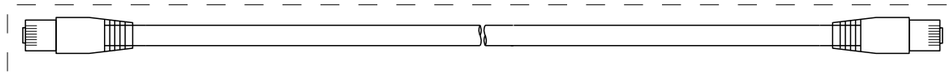
Ethernet patch cable 1:1
(Art.-No. 004466)

SHDSL 8 wire



ARGUS 8 wire Crossover cable
(Art.-No. 000083)

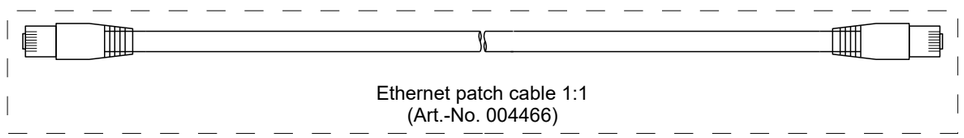
Line	RJ45	RJ45
1	1/2	4/5
2	4/5	1/2
3	3/6	3/6
4	7/8	7/8



Ethernet patch cable 1:1
(Art.-No. 004466)

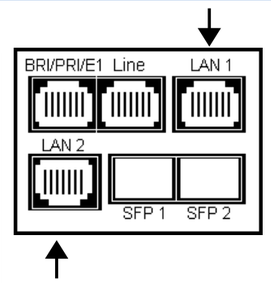
RJ45	RJ45
1-8	1-8

Ethernet

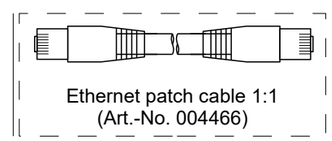


Ethernet patch cable 1:1
(Art.-No. 004466)

RJ45	RJ45
1-8	1-8



RJ45	RJ45
1-8	1-8



Ethernet patch cable 1:1
(Art.-No. 004466)

Notice

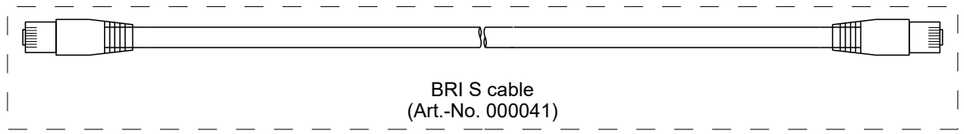
For the use of the SFPs, please contact your dealer or the intec support.

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

Cross reference:

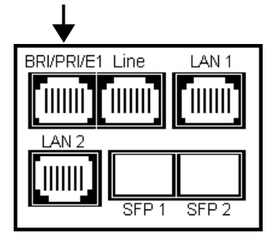
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BRI S

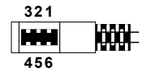


BRI S cable
(Art.-No. 000041)

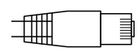
RJ45	RJ45
3/6	3/6
4/5	4/5



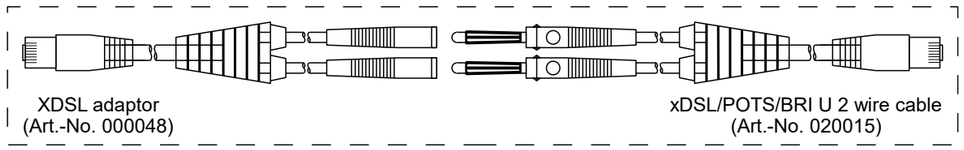
TAE



RJ45

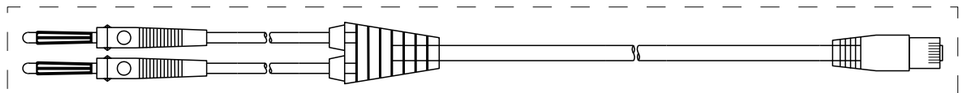


BRI U / POTS



XDSL adaptor
(Art.-No. 000048)

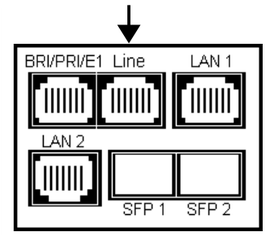
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020015)



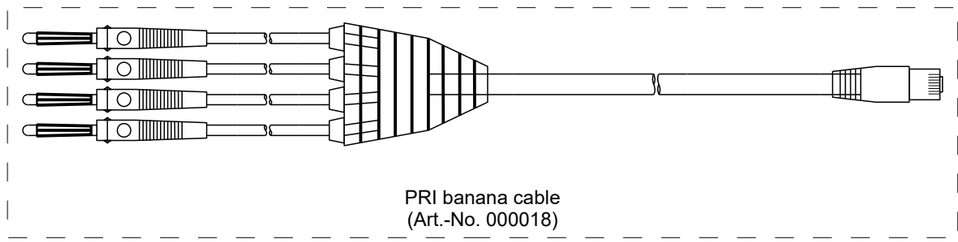
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020015)

RJ11	Ban.	RJ45
3	rd	4
4	blk	5

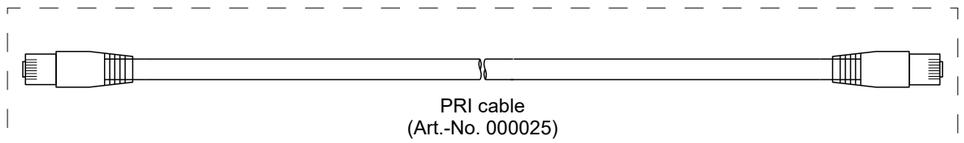
Ban.	RJ45
rd	4
blk	5



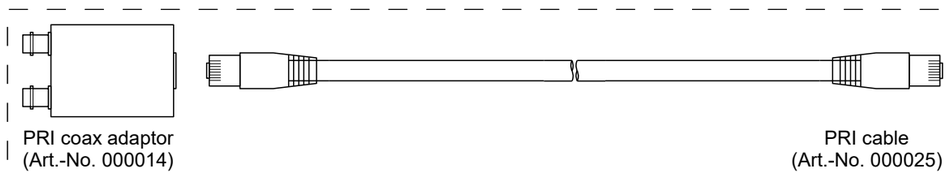
PRI



PRI banana cable
(Art.-No. 000018)

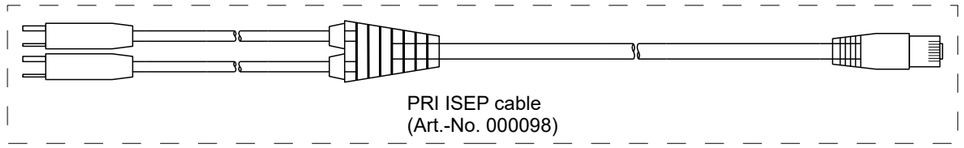


PRI cable
(Art.-No. 000025)



PRI coax adaptor
(Art.-No. 000014)

PRI cable
(Art.-No. 000025)



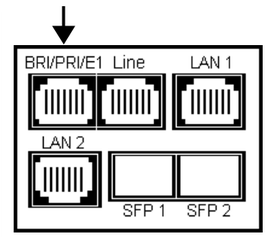
PRI ISEP cable
(Art.-No. 000098)

Ban.	RJ45
rd 1	8
rd 2	1
blk 1	7
blk 2	2

RJ45	RJ45
1/2	1/8
4/5	2/7

BNC	RJ45	RJ45
TX Out	1/2	1/8
RX In	4/5	2/7

ISEP	RJ45
1/2	1/8
4/5	2/7

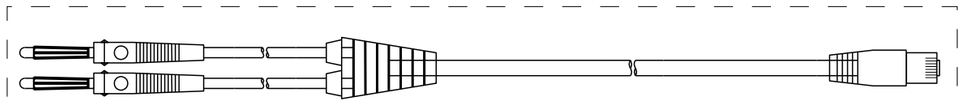


Test leads and pin assignments
Copper tests

Cross reference:

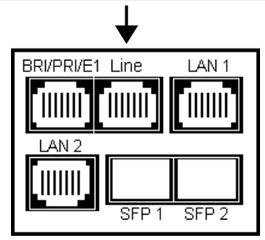
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Copper tests: R measurement / RC measurement / Line scope / TDR



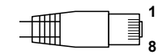
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020015)

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

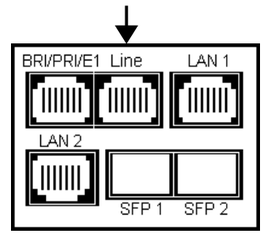


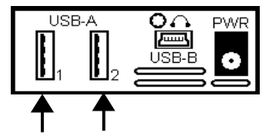
Copper tests: Line scope



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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