ARGUS®
testing the telecom network



ADSL
VDSL
ETH
ISDN
POTS
Cu
TDR
LQ
Data 101101011011
IP TV
Vo IP
MOS
PC
USB

ARGUS® 142

» Overview of menu and test leads

valid from firmware version R2.60.00

intec
GESELLSCHAFT FÜR
INFORMATIONSTECHNIK mbH

Legend, Status, Protocol overview

Cross reference:

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VoIP call / wait	25

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Others	page
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Legend General

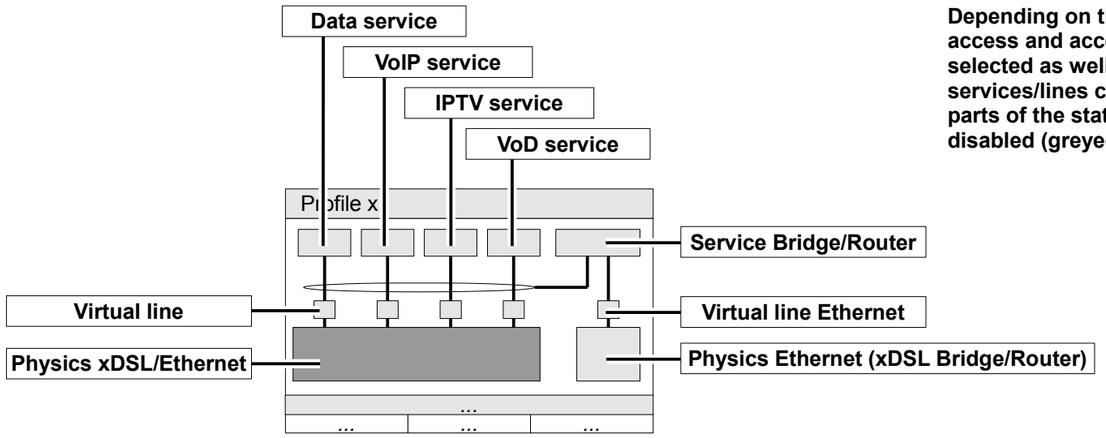
Menu
Configuration menu
Defaul Config.menu
Input menu
Default input menu

Depending on the specified interface, menu item will be shown

Menu item only matters for specified interface

Legend Status

ADSL / VDSL / Ethernet



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

Protocol overview

ADSL / VDSL / Ethernet

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

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

Note

The basic ARGUS *142* package includes support for at least one DSL interface (ADSL or VDSL) with a variety of functions and tests for the interface(s). Support for other interfaces and functions is optional (see the options in the data sheet). Consequently, depending on the scope of the functions delivered, certain menu items may be hidden. The type of access and access mode can affect this, too.

Hotkeys

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Menu Hotkeys

ADSL / VDSL / Ethernet

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

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	
9	BERT start	-
⎍	Level measuring	Voltage measuring
✆	Connection	
✳ then 0	Access	
✳ then 1	ARGUS info	
✳ then 2	Restore config.	
✳ then 3	Factory setting	
✳ then 6	Test manager	-
✳ then 7	-	

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

Graphic hotkeys

ADSL / VDSL

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

Test hotkeys

Copper tests

Key	Line scope (Frequency domain)	Line scope (Time domain)	DMT analysis	TDR	Line qualification	Line symmetry
0	-	-	-	-	-	-
1	-	-	-	-	-	-
2	Zoom	-	Zoom			
3	Cursor					
4	Measurement range		Tones	Measurement range	-	Bandwith
5	-	-	Mode	Pulse width	-	-
6	-	-	-	Wire type/VoP	-	-
7	Probe			-	-	-
8	Symmetry		-	Impedance	-	Impedance
9	Time domain	Frequency domain	-	Averaging	X-axis setting	
	-	-	New	-	Table	
✓	-	-	-	-	Continue	New
⎍	Run/Hold		-	Run/Hold	-	-
✳ then 7	Store					

Switch on and access menu

Cross reference:

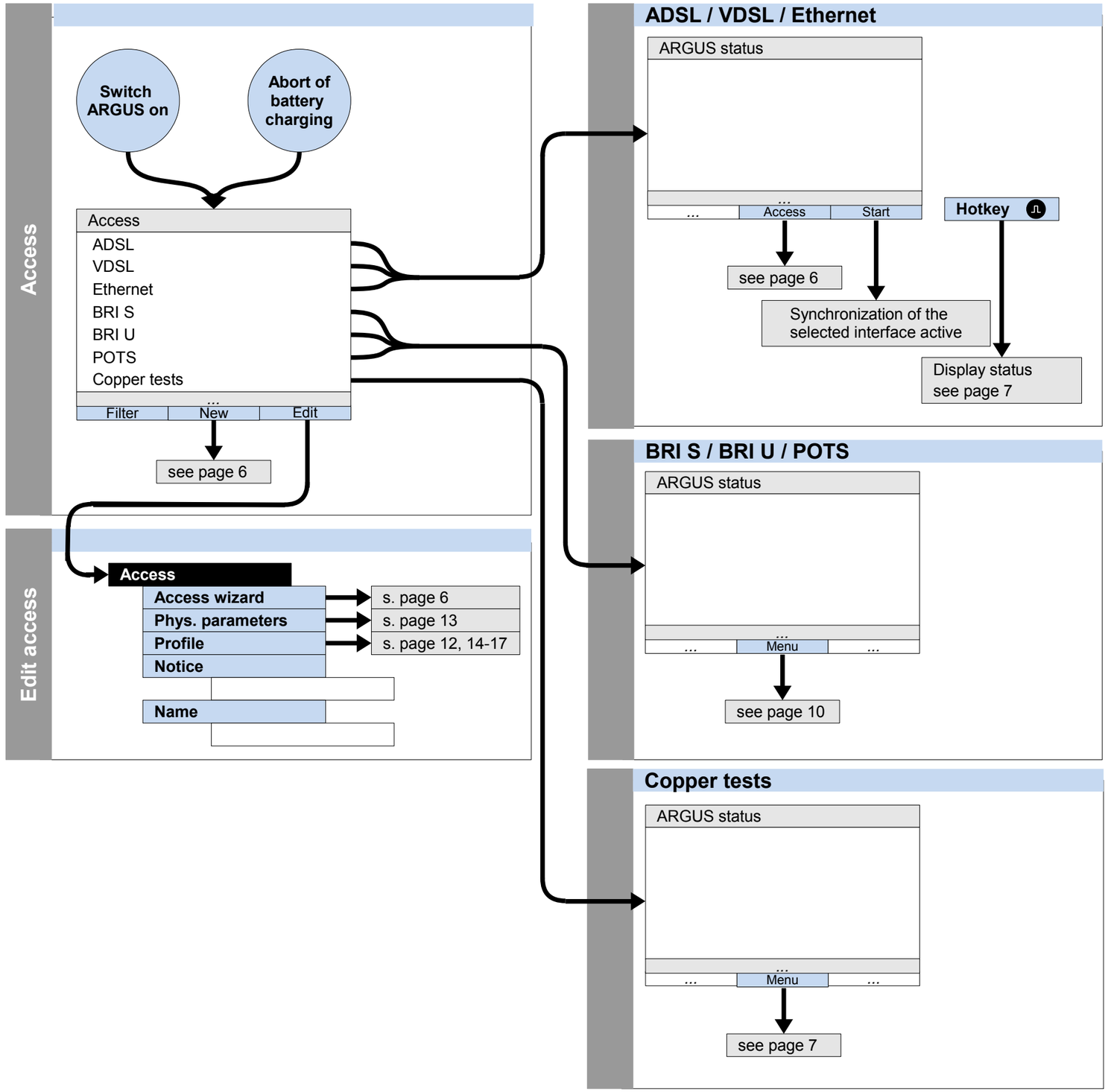
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Access wizard

Cross reference:

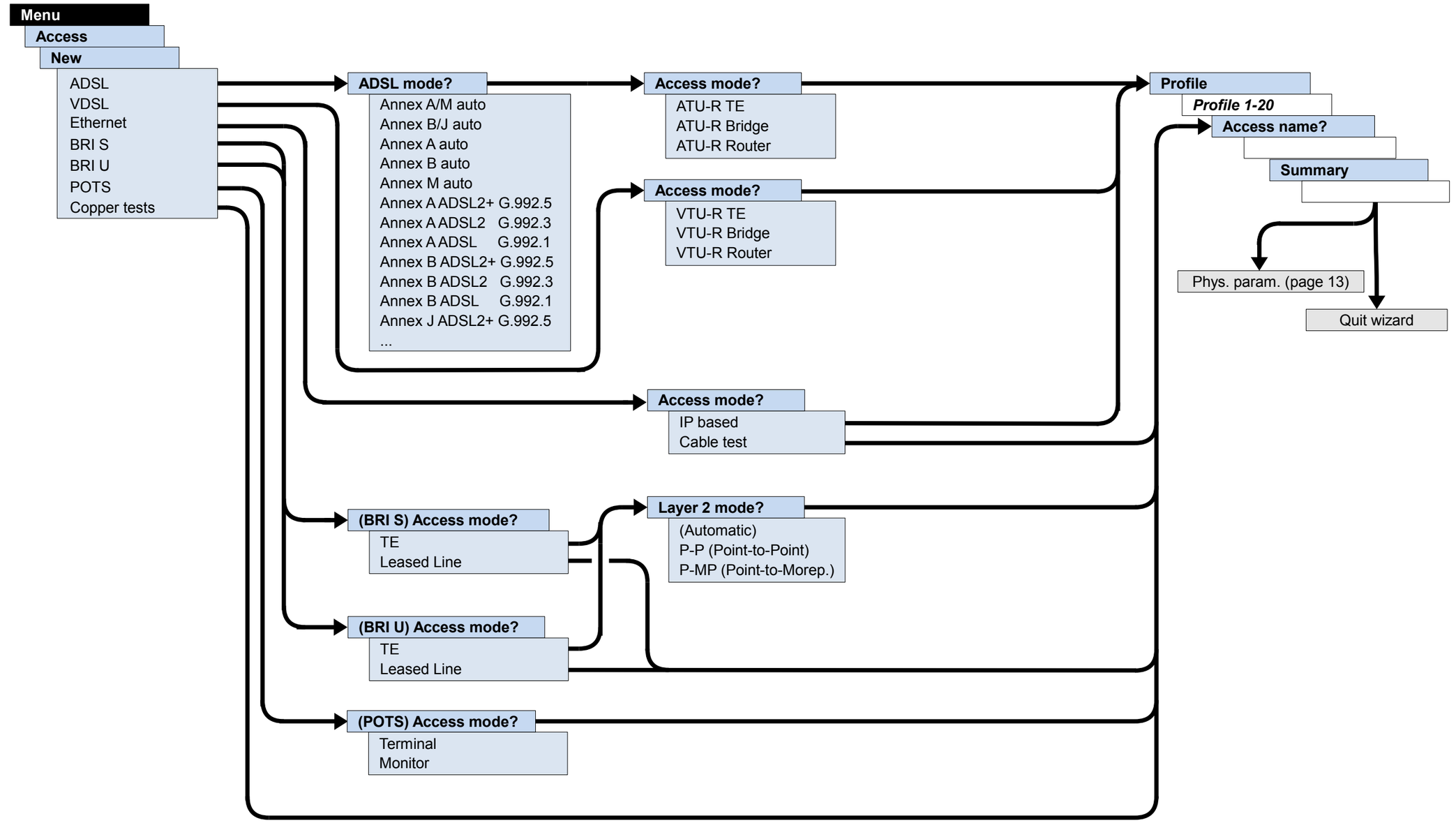
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Main menu, Single tests, Test results, Status
(Access: ADSL, VDSL, Ethernet, Copper tests)

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Main menu

ADSL / VDSL / ETH / Copper tests

- Menu
  - Single tests
  - Test results
  - *1 Status
  - Settings → see page 11-19 / see page 5
  - Access
  - Battery (status,...)
    - Status → Display Battery status
    - Automatic char.
      - *On*
      - Off
  - Help
    - Hotkeys → see table page 4

Menu Test results

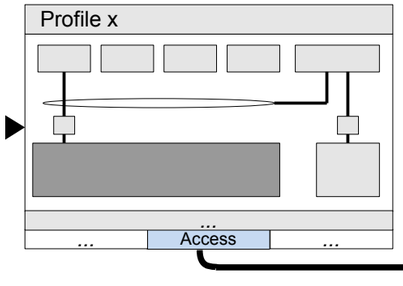
ADSL / VDSL / ETH / Copper tests

- 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

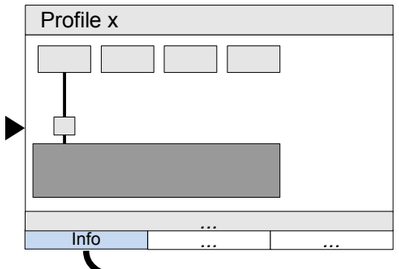
ADSL / VDSL / Ethernet

General



→ see page 5

Physics xDSL/Ethernet active



Hotkey → Display physical access results

Menu Single tests

ADSL / VDSL / ETH / Copper tests

- Single tests
  - *1 IP ping → see page 20
  - *1 Trace route
  - *1 HTTP download
  - *1 FTP download → see page 21
  - *1 FTP upload
  - *1 FTP server
  - *2 VPI/VCI scan → see page 22
  - *2 ATM OAM ping
  - *1 VoIP call → see page 25
  - *1 VoIP wait
  - *1 IPTV
  - *1 IPTV scan → see page 23
  - *3 IPTV passive
  - *1 Video on Demand → see page 24
  - *4 Loop → see page 26
  - *5 Port flash → see page 27
  - Copper tests
    - Copper Box → Copper Box active
    - R measurement → R measurement active
    - RC measurement → RC measurem. active
    - Line scope
    - DMT analysis → see page 32
    - TDR
    - Line qualification → see page 33
    - Line symmetry

Note

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

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

Cross reference:

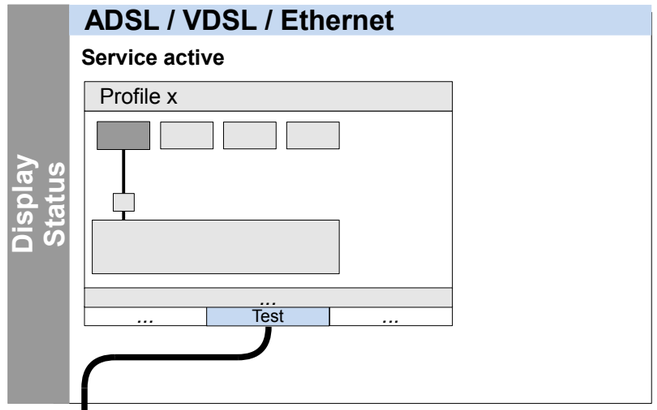
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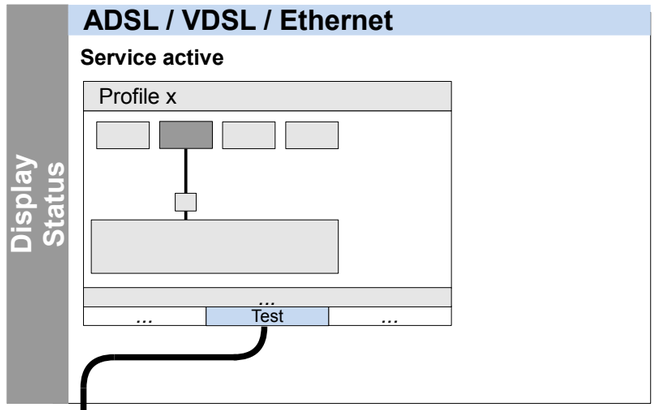
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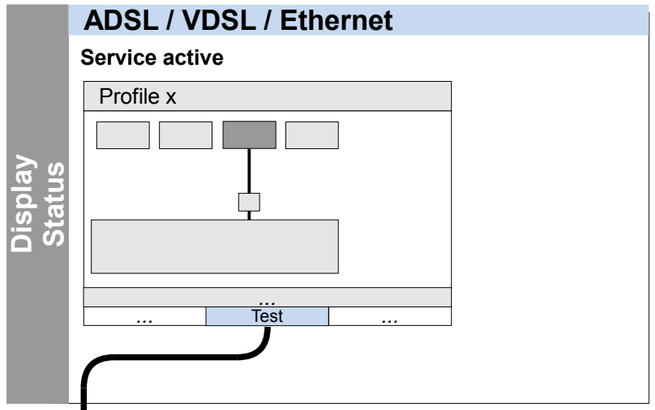
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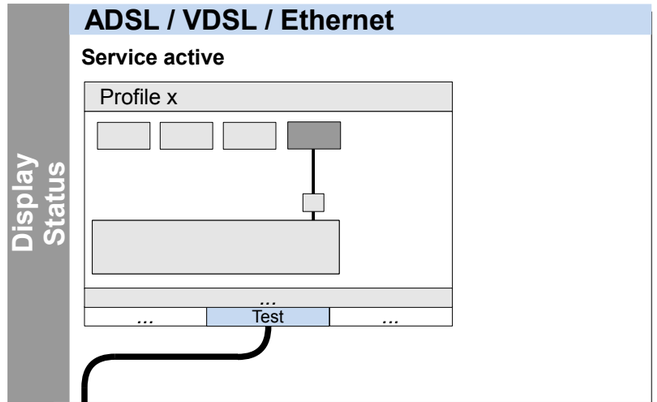
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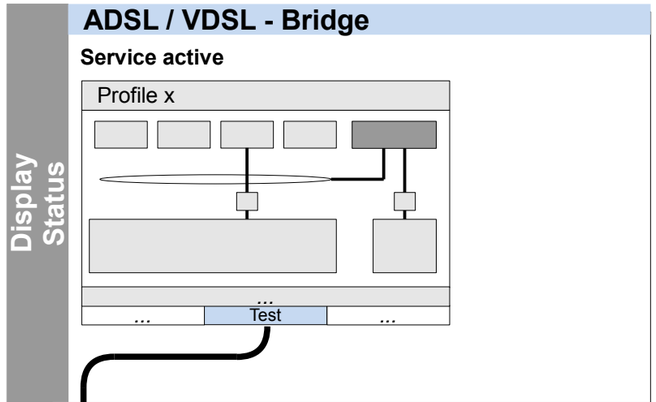
Others	page
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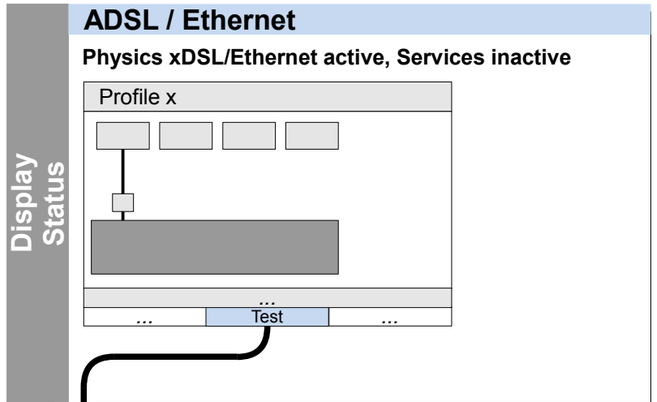












Note

*1 = xDSL-Router

*2 = ADSL

*3 = Ethernet

Service tests: Parallel tests
Test status

Cross reference:

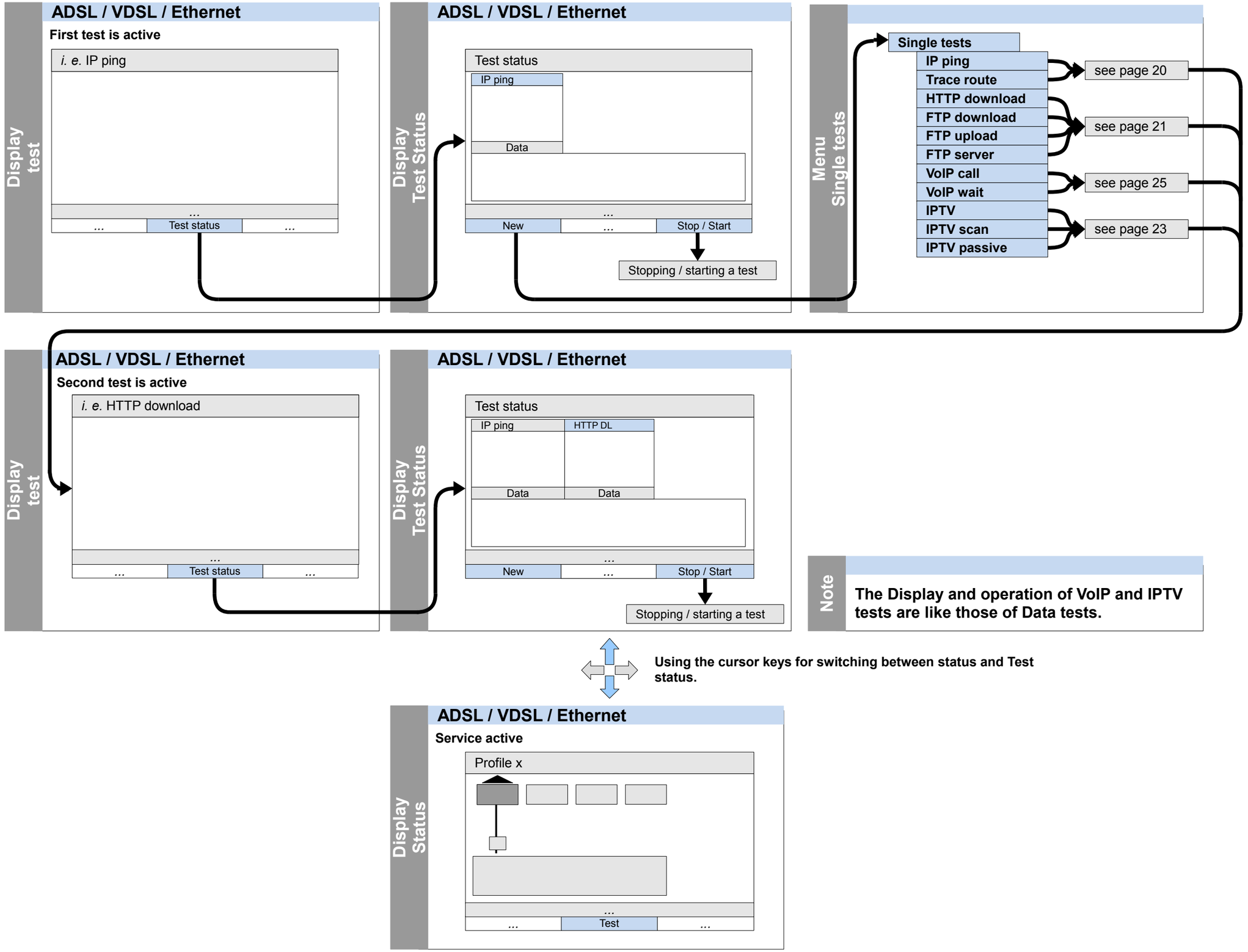
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Main menu, Single tests, Test results (Access: BRI S, BRI U, POTS)

Cross reference:

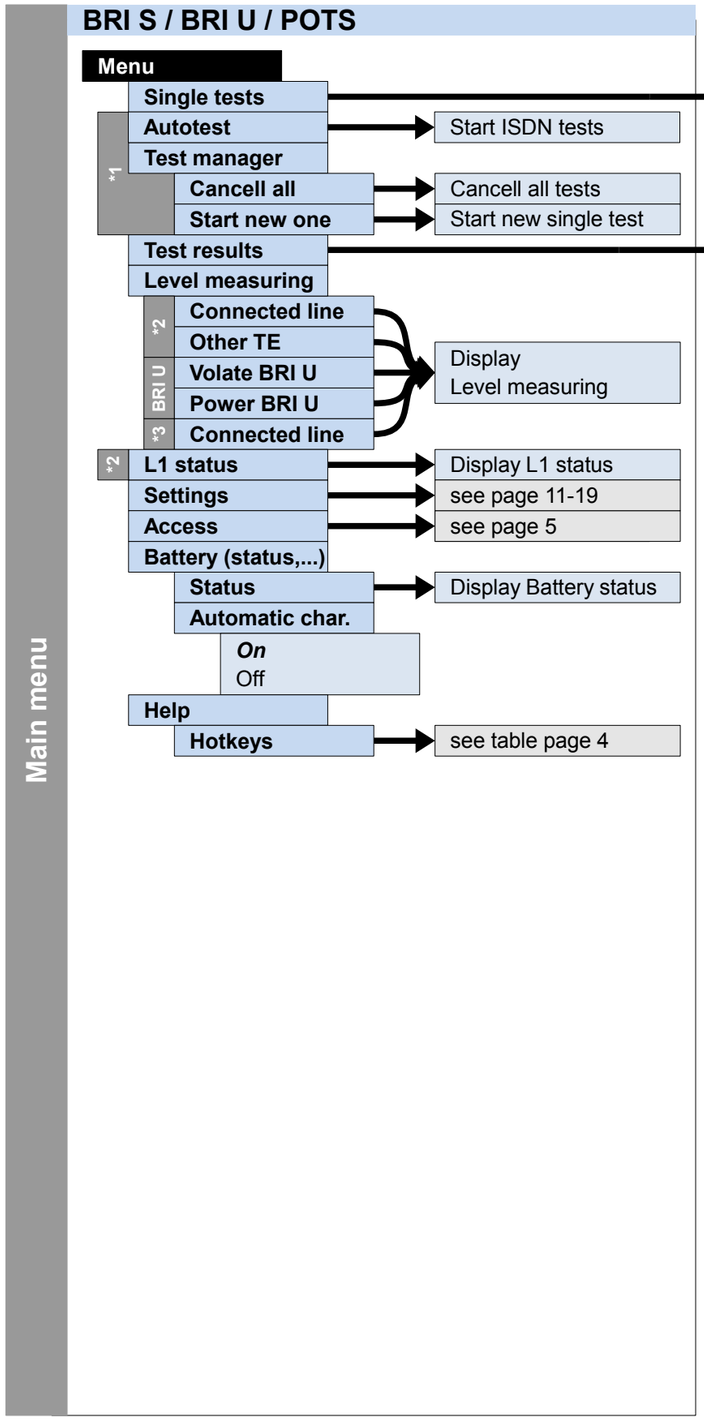
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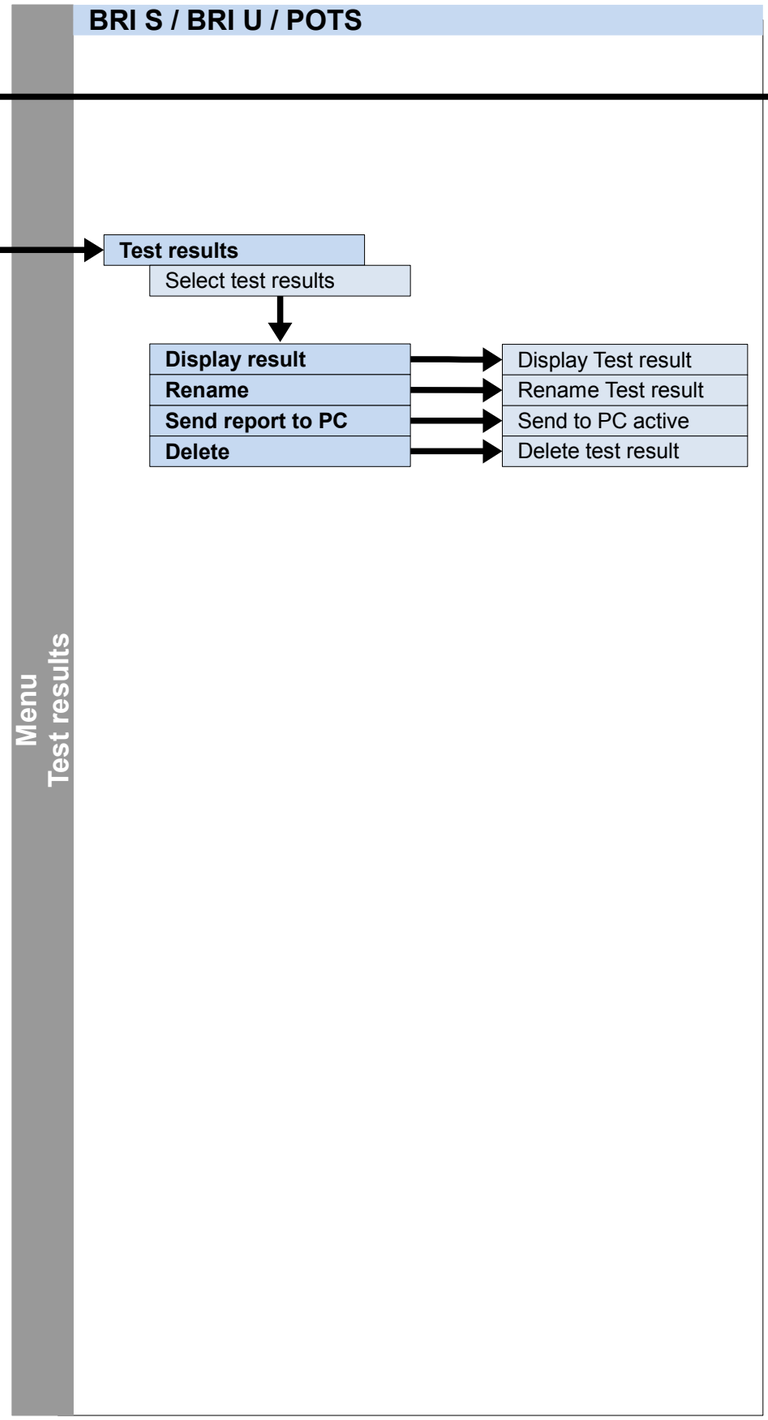
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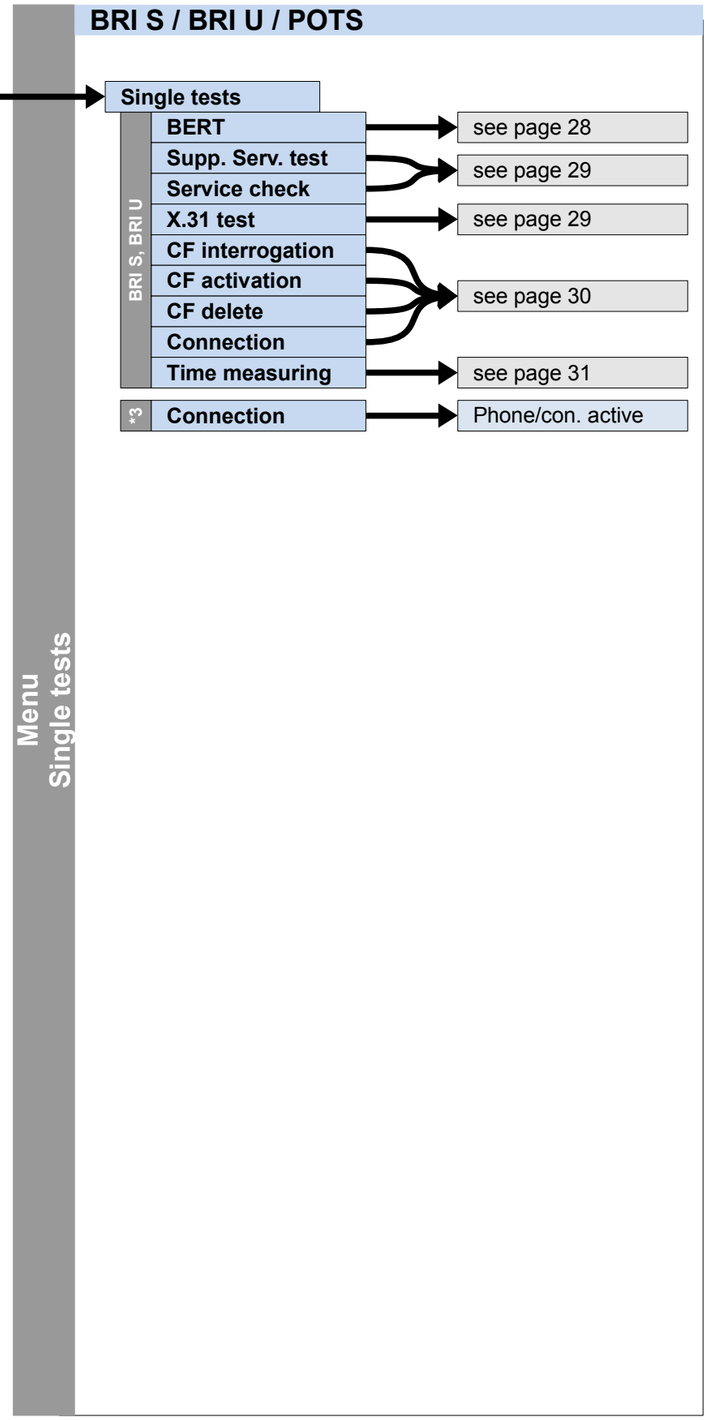
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Note

*1 = BRI S, BRI U

*2 = BRI S

*3 = POTS

Settings and reset
Device, Numbers, Backup/Restore

Cross reference:

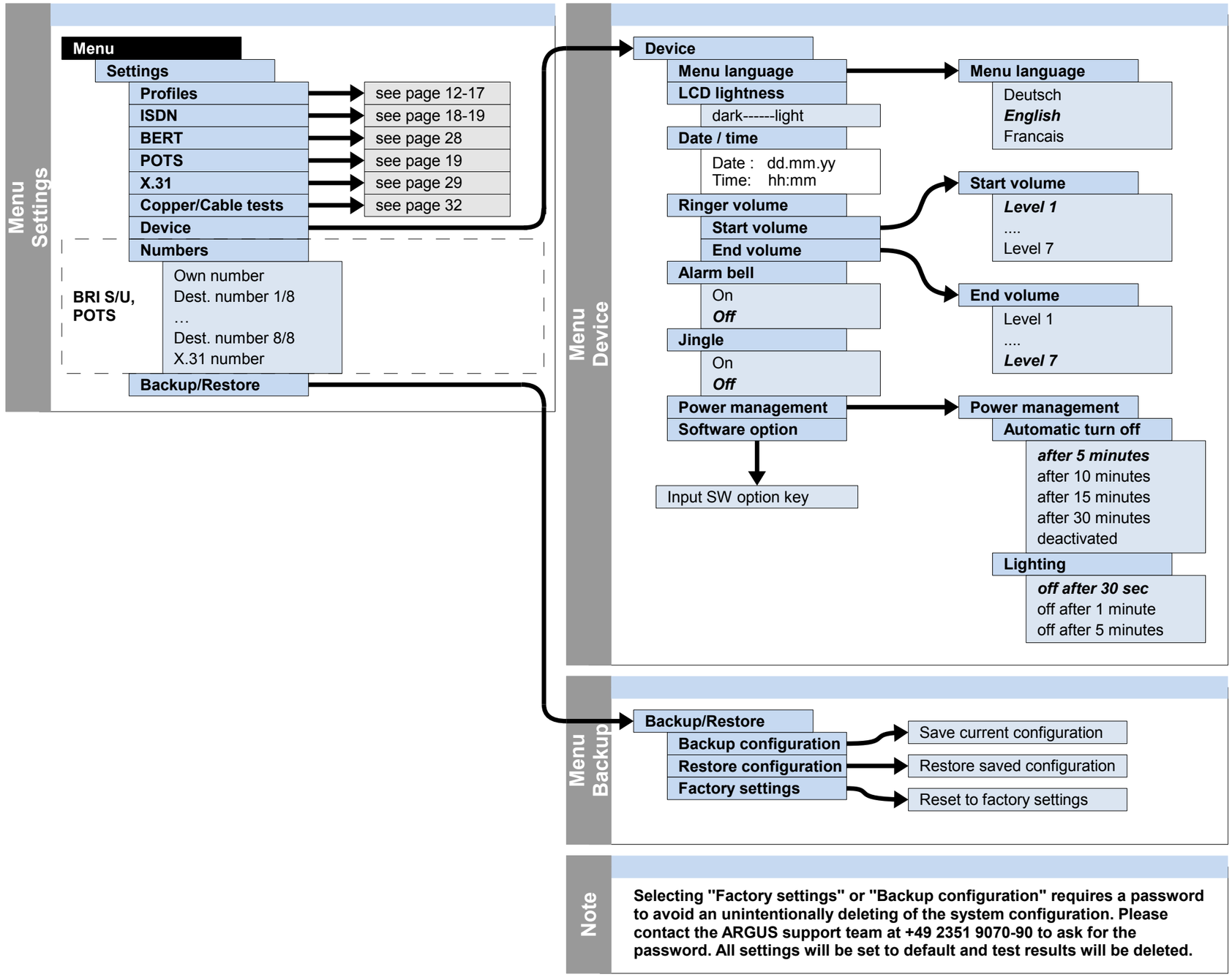
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Settings
Profile

Cross reference:

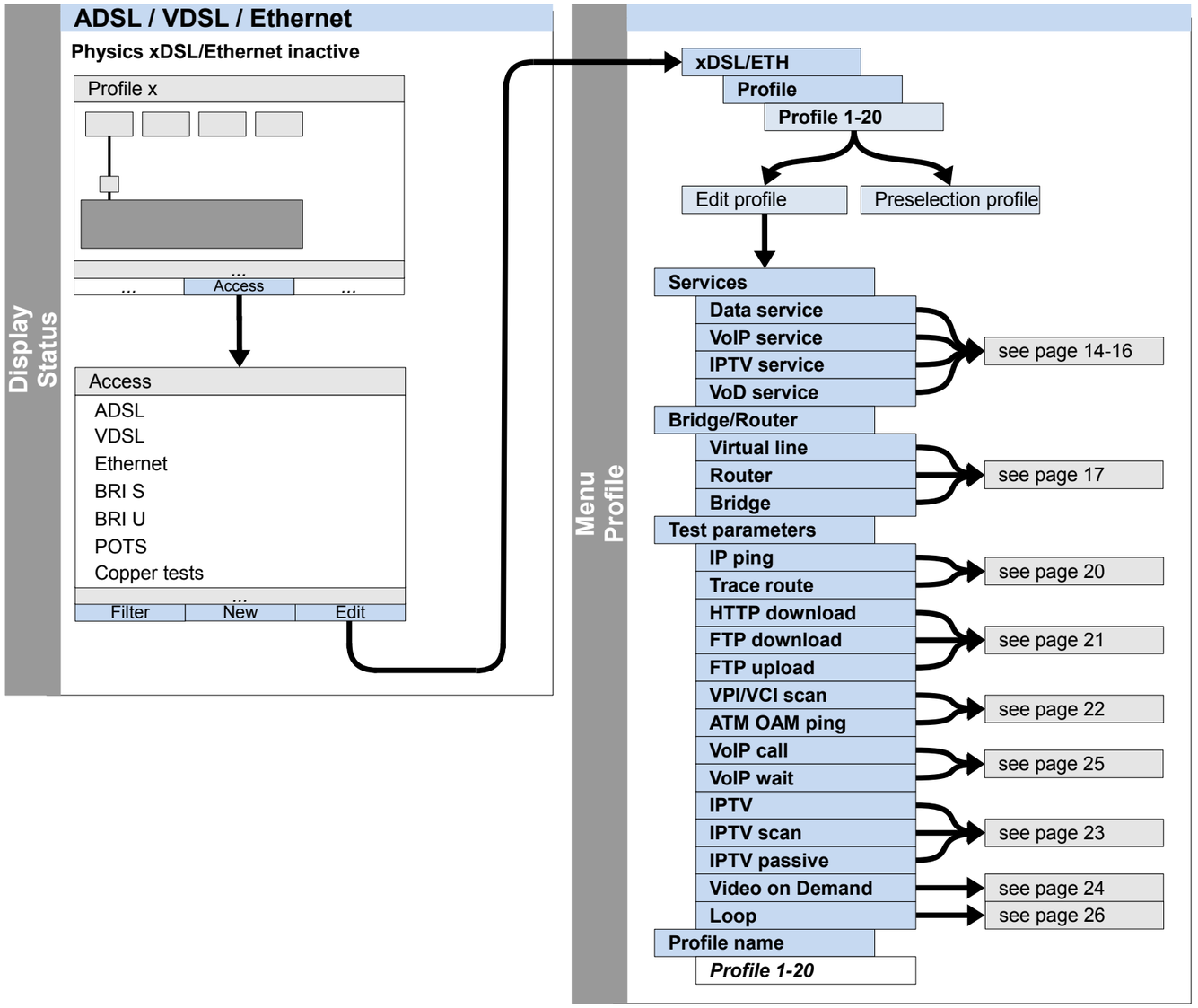
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Settings
Phys. parameters: ADSL, VDSL, Ethernet

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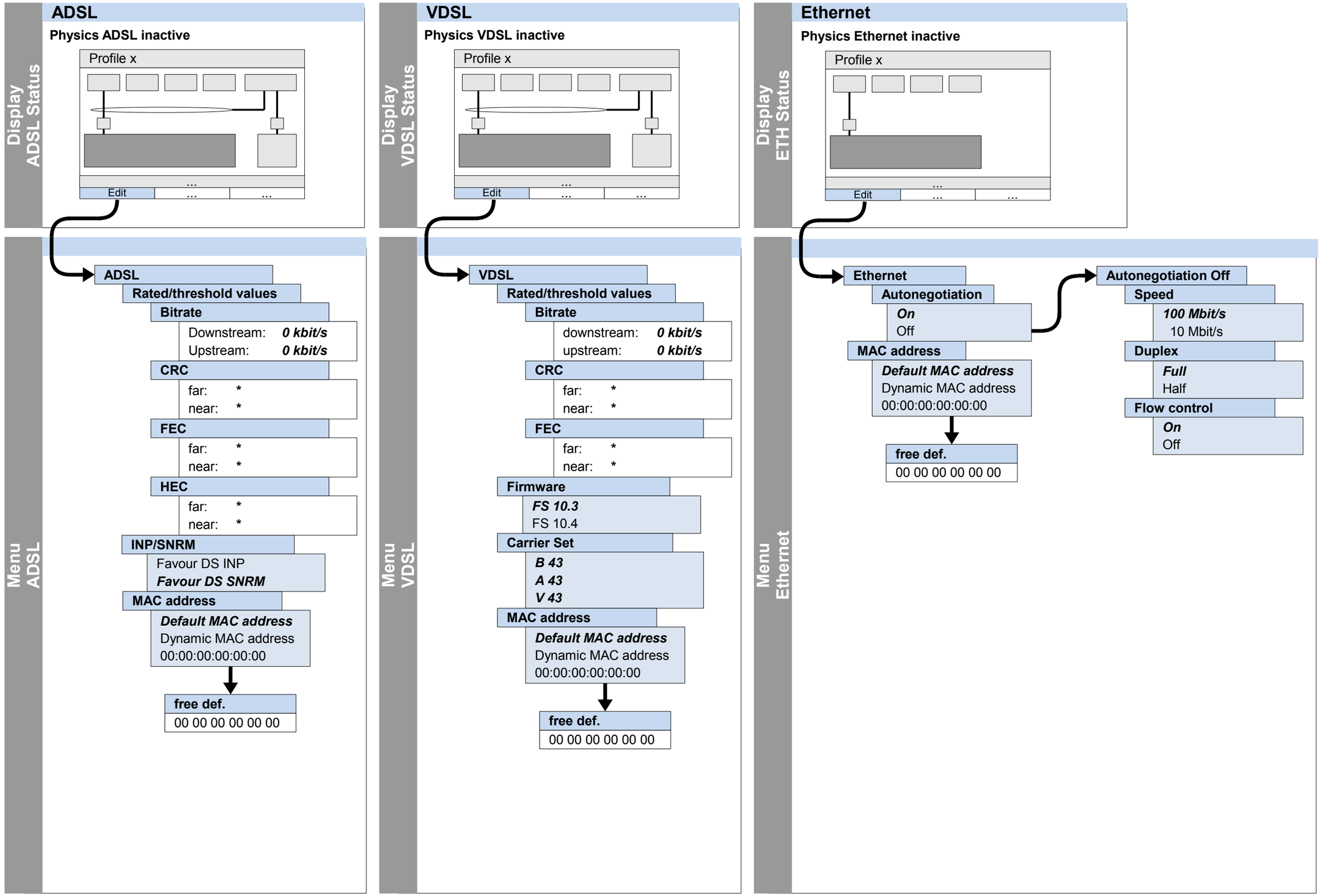
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Cross reference:

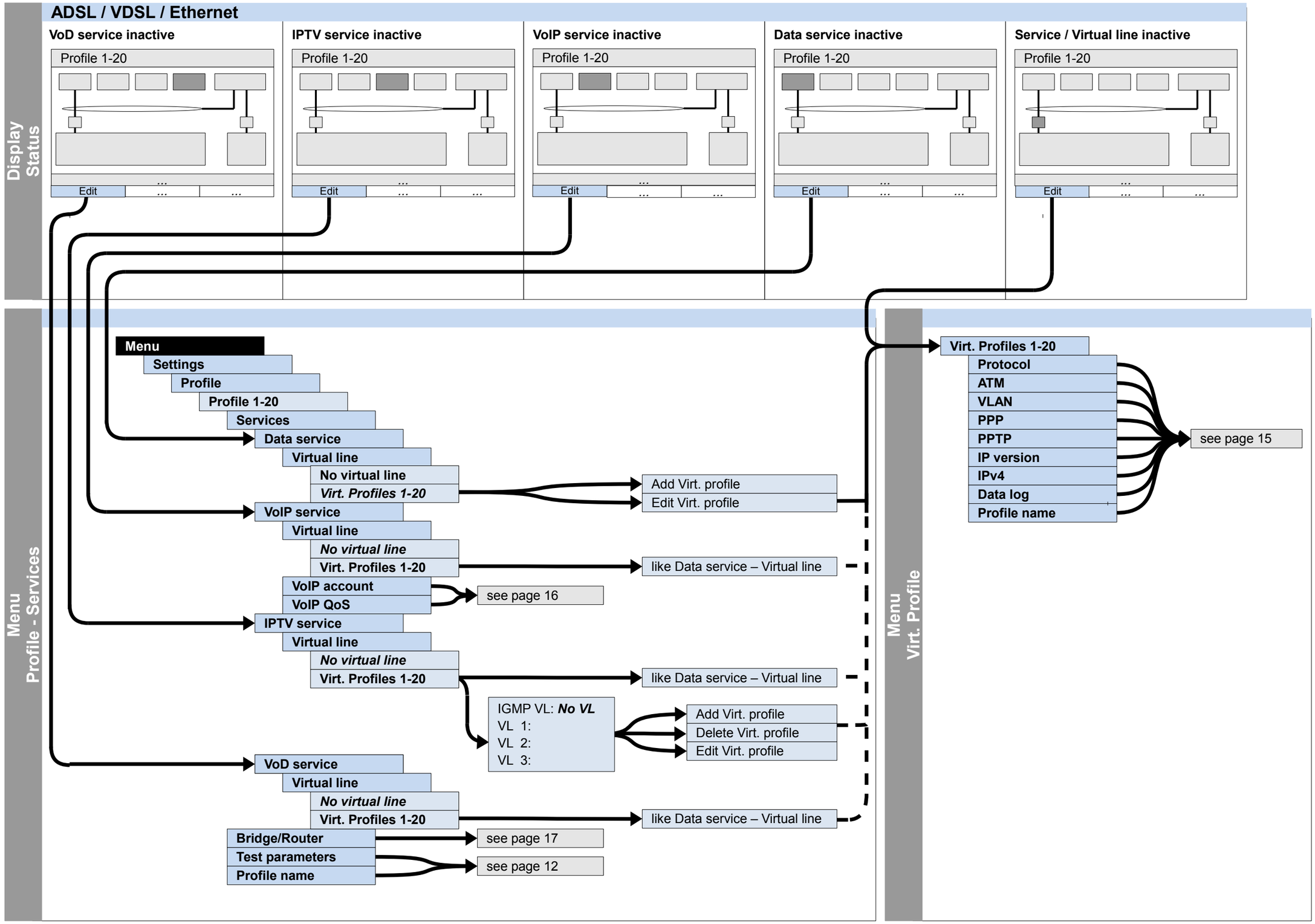
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Settings
Profiles – Virt. profile (Protocol, ATM, VLAN, PPP, PPTP, IP, Data log)

Cross reference:

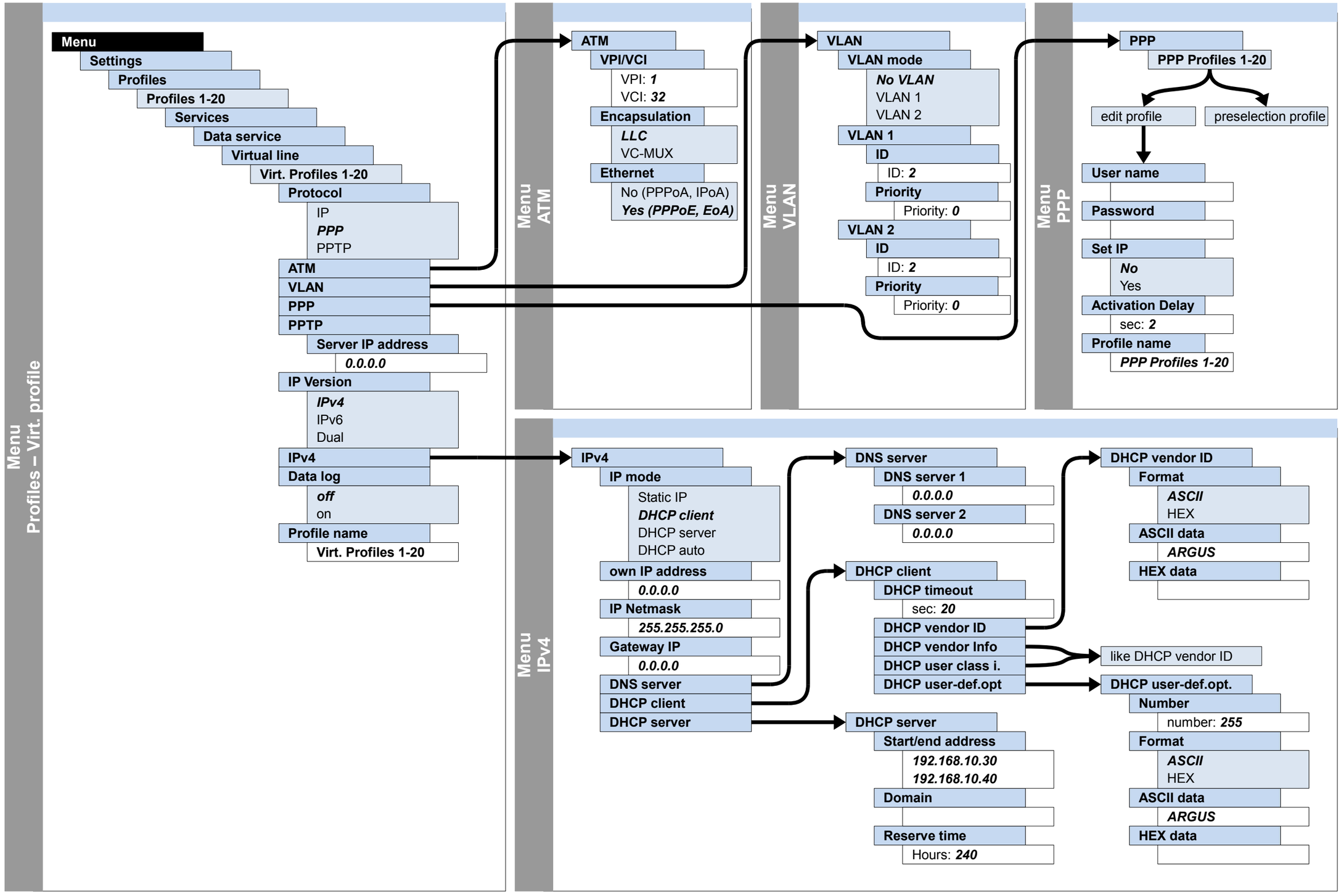
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Note

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

Cross reference:

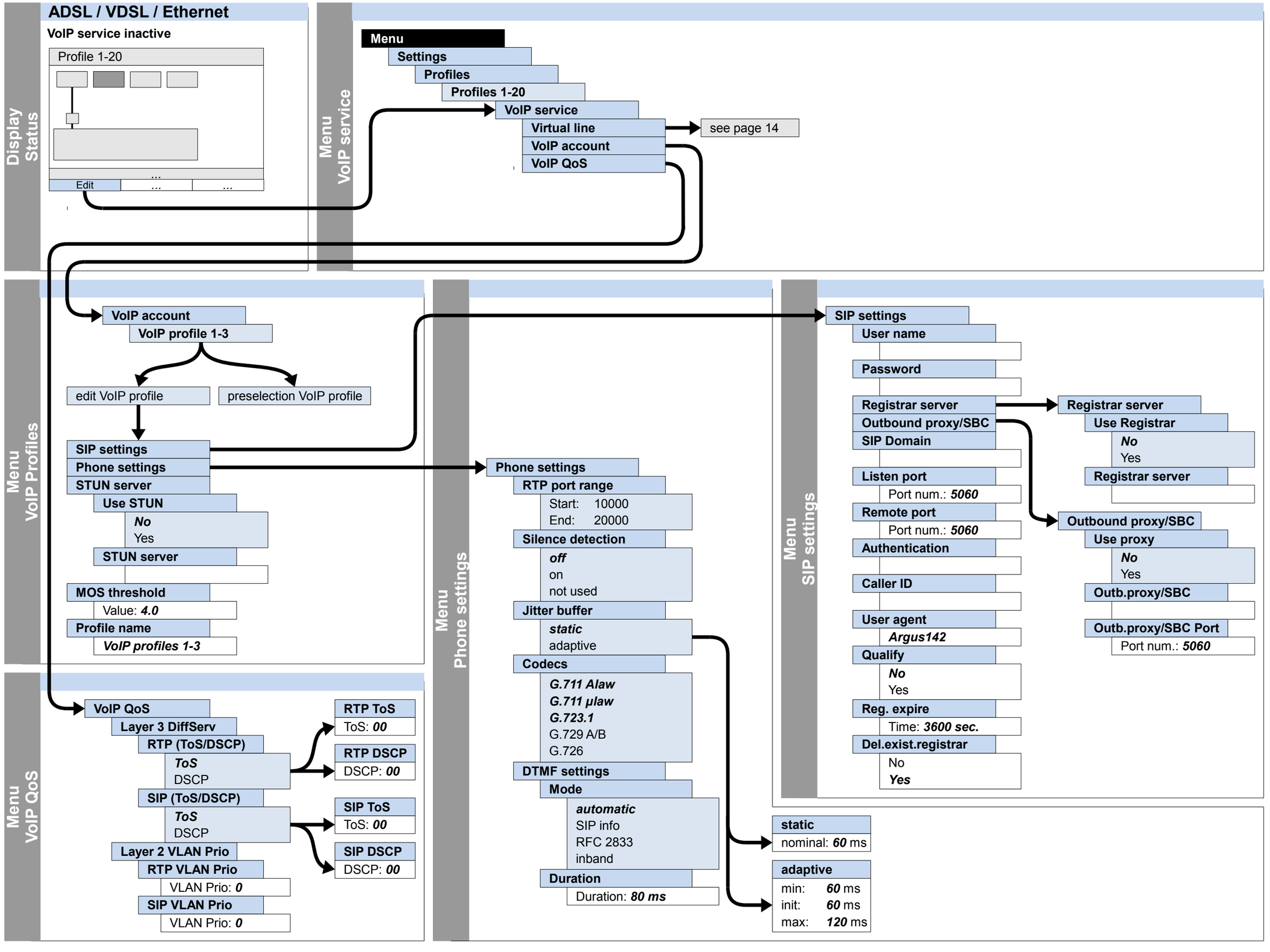
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Settings
Profile – Bridge/Router (Ethernet, Virtual line, Router)

Cross reference:

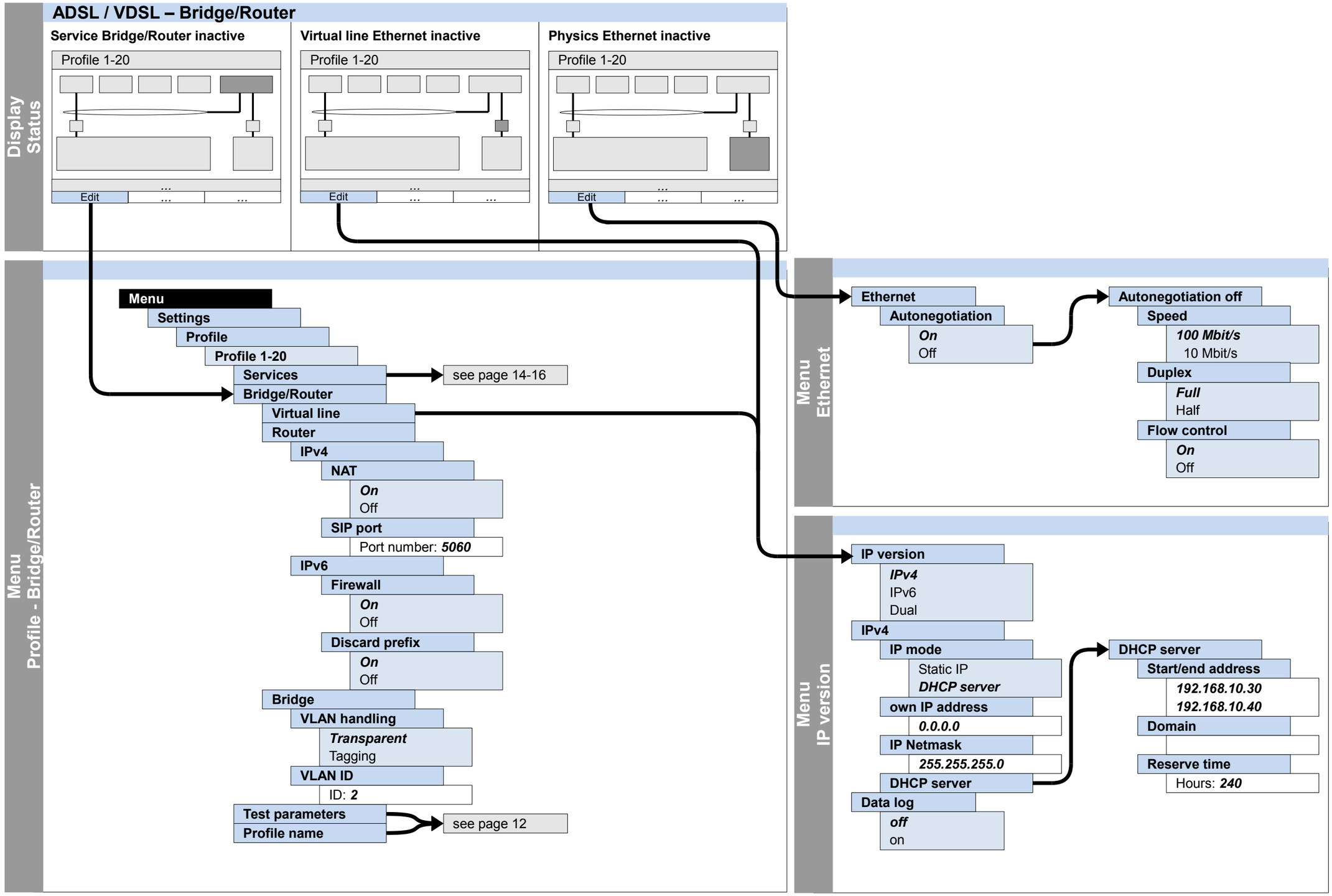
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Settings
ISDN (General, BRI S, BRI U)

Cross reference:

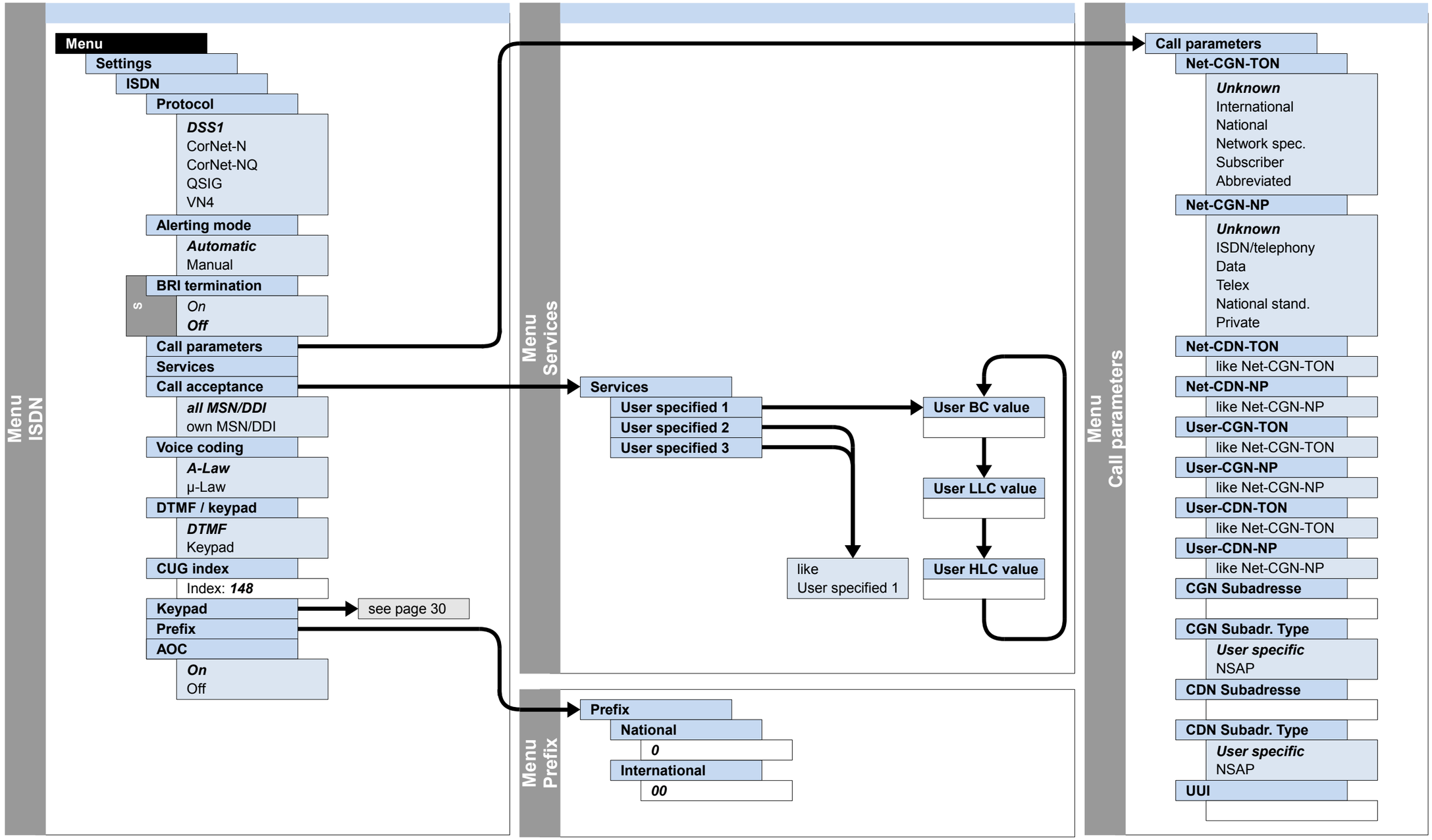
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Settings
POTS

Cross reference:

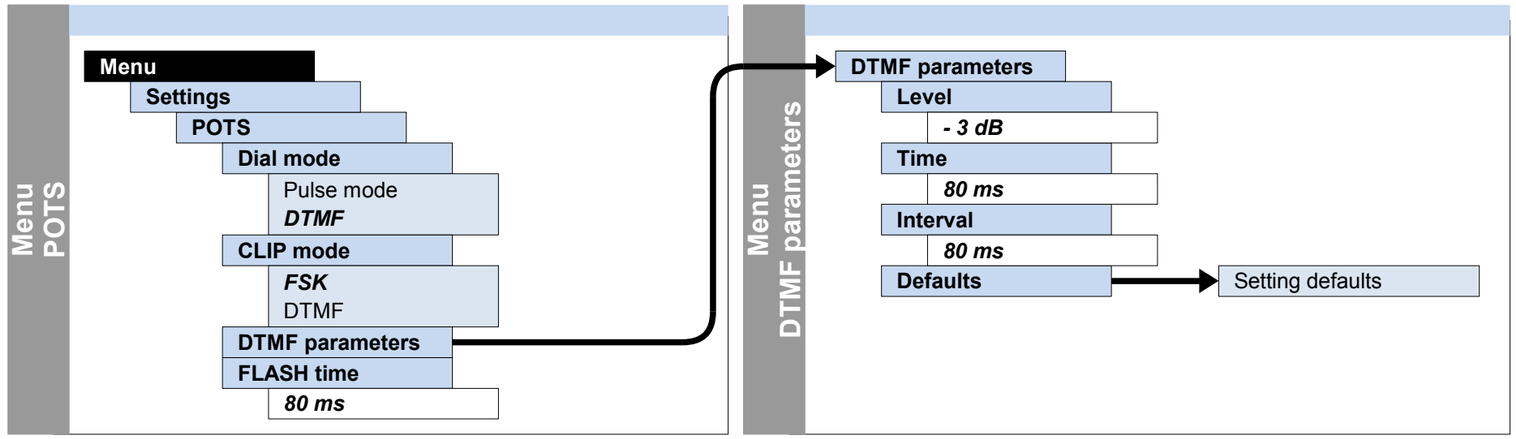
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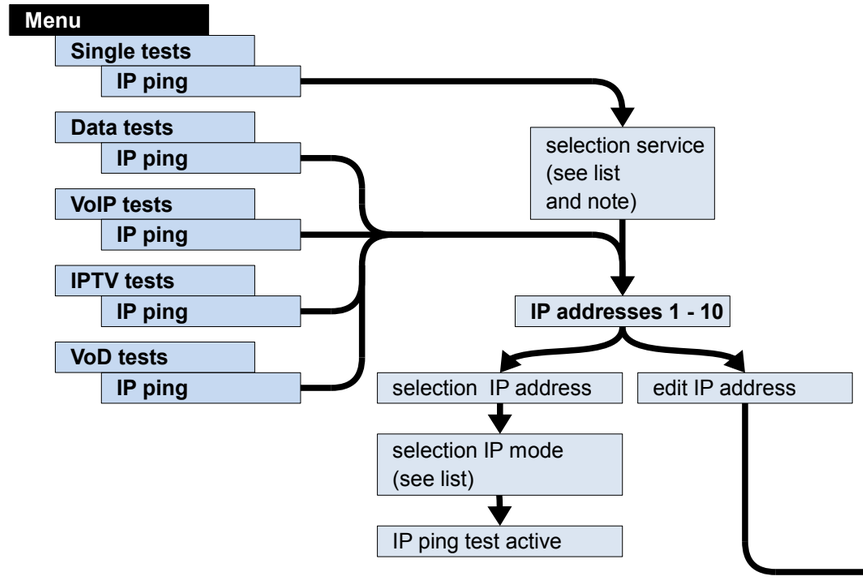
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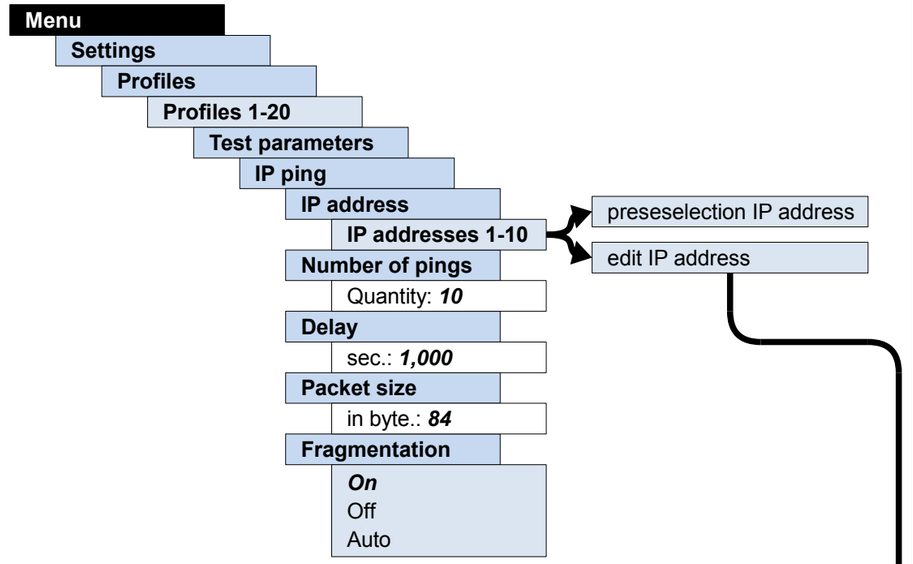
IP ping – Test operation

ADSL / VDSL / Ethernet

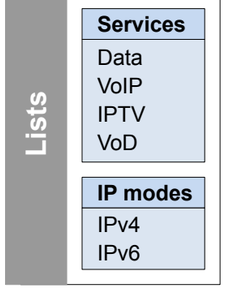


IP ping – Test configuration

ADSL / VDSL / Ethernet

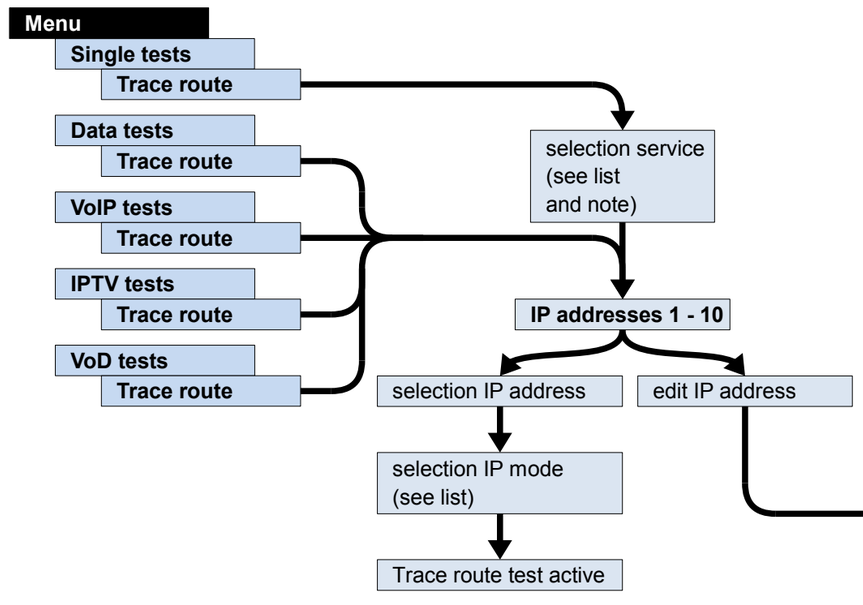


Lists



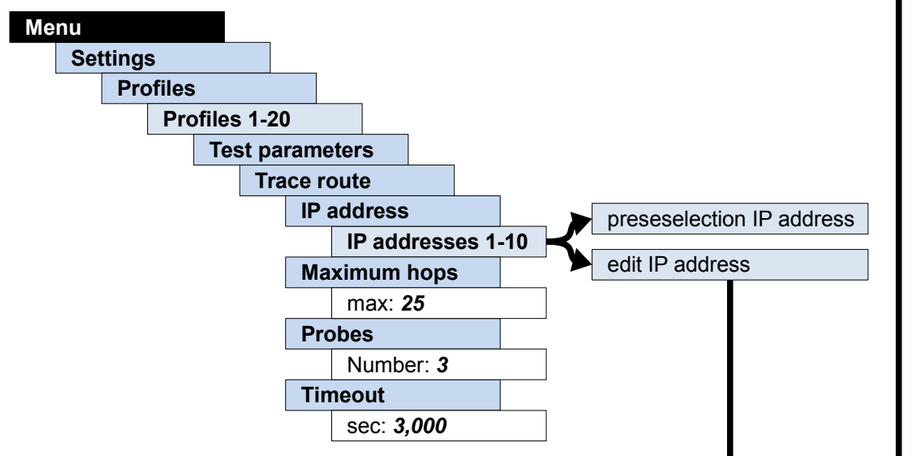
Trace route – Test operation

ADSL / VDSL / Ethernet

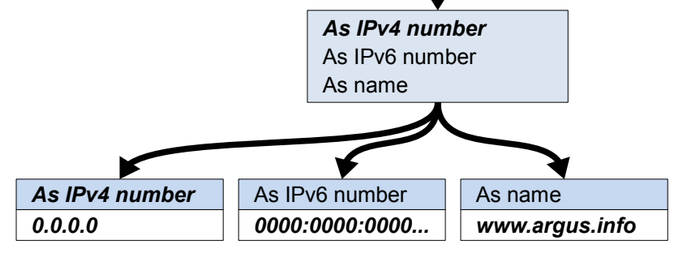


Trace route – Test configuration

ADSL / VDSL / Ethernet



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.

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HTTP download Test operation

ADSL / VDSL / Ethernet

Menu
- Single tests → HTTP download
- Data tests → HTTP download

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

HTTP download Test configuration

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

FTP download Test operation

ADSL / VDSL / Ethernet

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

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

FTP download Test configuration

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

FTP upload Test operation

ADSL / VDSL / Ethernet

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

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

FTP upload Test configuration

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

FTP server Test operation

ADSL / VDSL / Ethernet

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

→ FTP server test active

Menu Server profile

Server profiles 1-10
- Server
- Download file name
- Upload file name: *file*
- Upload file size: *100000000* (Byte)
- 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.

Configuration and operation
VPI/VCI scan, ATM OAM ping

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VPI/VCI scan Test operation

ADSL

Menu
- **Single tests**
  - **VPI/VCI scan**
- **Physic tests**
  - **VPI/VCI scan**

→ VPI/VCI scan test active

VPI/VCI scan Test configuration

Menu
- **Settings**
  - **Profiles**
    - **Profiles 1-20**
      - **Test parameters**
        - **VPI/VCI scan**
          - **VPI**
            - Start: **0**
            - End: **8**
          - **VCI**
            - Start: **32**
            - End: **48**
          - **Number of scans**
            - Number: **2**
          - **Timeout**
            - sec: **0,500**

ATM OAM ping Test operation

ADSL

Menu
- **Single tests**
  - **ATM OAM ping**
- **Physic tests**
  - **ATM OAM ping**

→ ATM OAM ping test active

ATM OAM ping Test configuration

Menu
- **Settings**
  - **Profiles**
    - **Profiles 1-20**
      - **Test parameters**
        - **ATM OAM ping**
          - **VPI/VCI**
            - VPI: **1**
            - VCI: **32**
          - **Number of pings**
            - Number: **3**
          - **Timeout**
            - sec: **1,000**
          - **OAM cell type**
            - F5 loopback segm.
            - ***F5 loopback ete***

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IPTV Test operation

ADSL / VDSL / Ethernet

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

IPTV passive Test operation

ADSL / VDSL / Ethernet

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

IPTV Test configuration

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

IPTV profiles 1-3

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

Menu IPTV thresholds

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

Menu IPTV channel

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

IPTV scan Test operation

ADSL / VDSL / Ethernet

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

IPTV scan Test configuration

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

IPTV scan profiles 1-3

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

Cross reference:

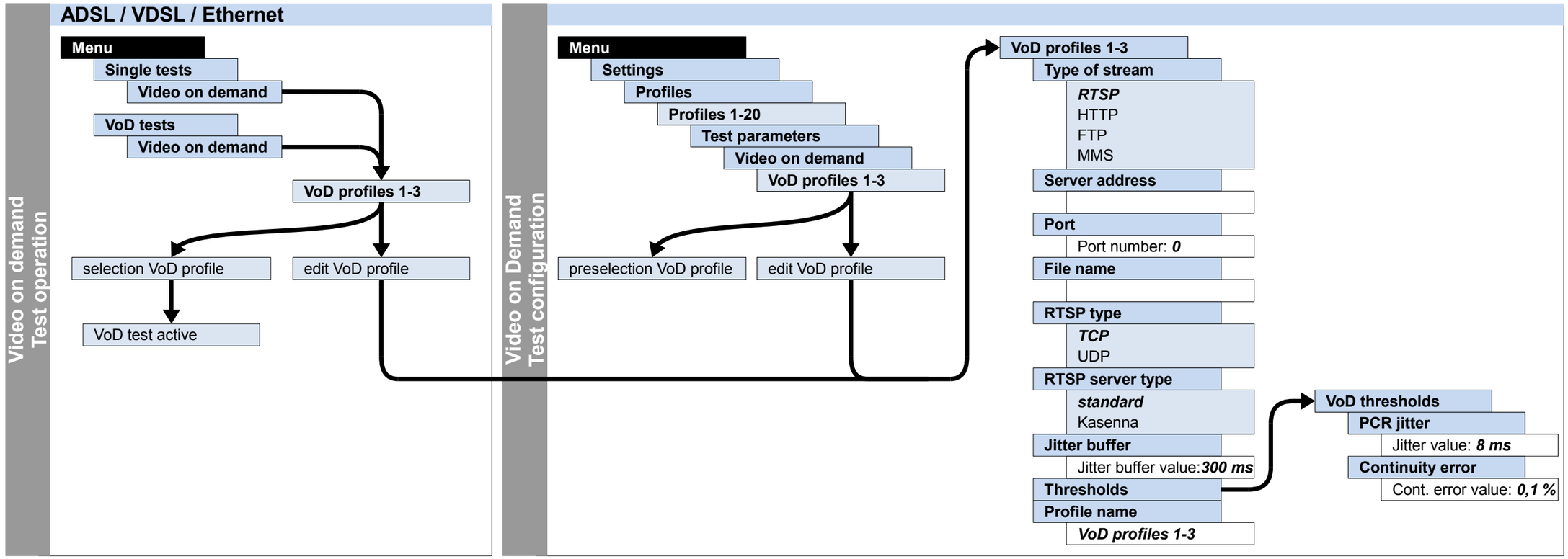
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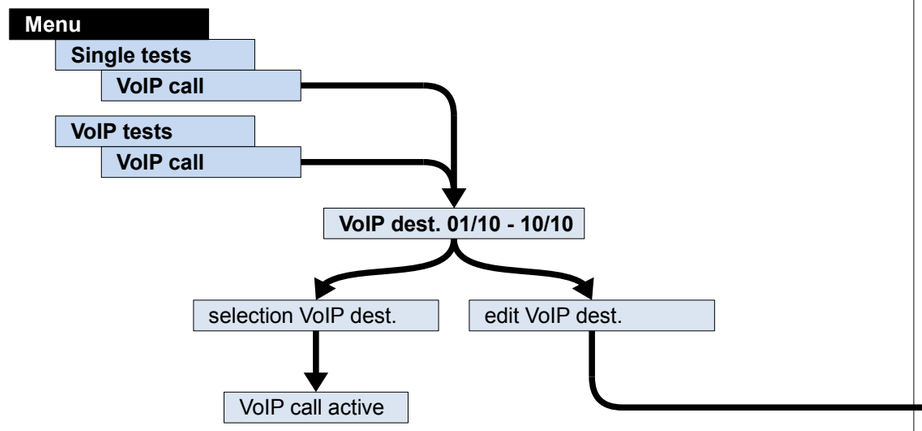
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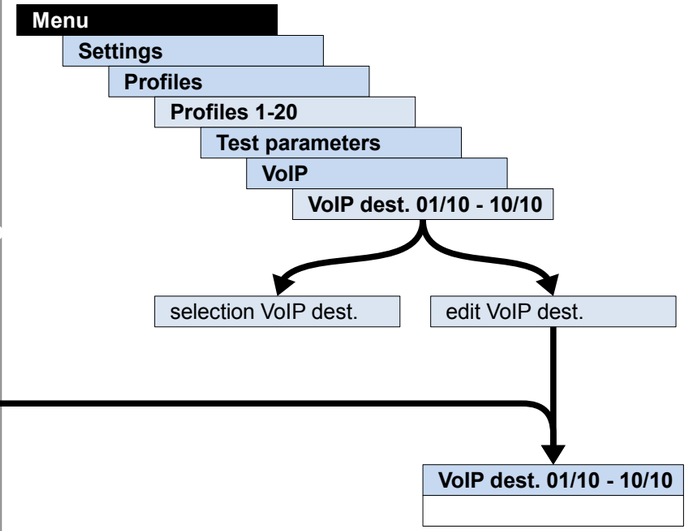
VoIP call Test operation

ADSL / VDSL / Ethernet



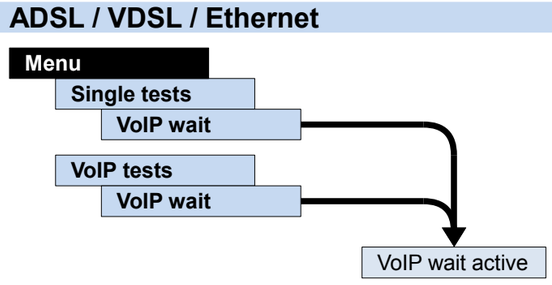
VoIP call Test configuration

ADSL / VDSL / Ethernet

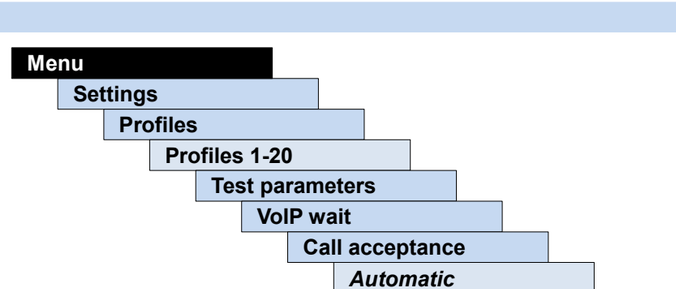


VoIP wait Test operation

ADSL / VDSL / Ethernet



VoIP wait Test configuration



Cross reference:

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ISDN / POTS	18-19
Battery (status,...)	7, 10
Help	7, 10

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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**
            - Layer 1
            - ***Layer 2***
            - Layer 3
          - **MAC mode**
            - ***Only own MAC***
            - Loop everything
          - **VLAN**
            - **VLAN mode**
              - ***No VLAN***
              - VLAN 1
              - VLAN 2
            - **VLAN 1**
              - **ID**
                - ID: ***2***
              - **Priority**
                - Priority: ***0***
              - **TPID**
                - ***8100 Hex***
                - 88A8 Hex
            - **VLAN 2**
              - **ID**
                - ID: ***2***
              - **Priority**
                - Priority: ***0***
              - **TPID**
                - 8100 Hex
                - ***88A8 Hex***
          - **Own IP mode**
            - ***Static IP***
            - DHCP client
          - **Own IP address**
            - ***0.0.0.0***

Cross reference:

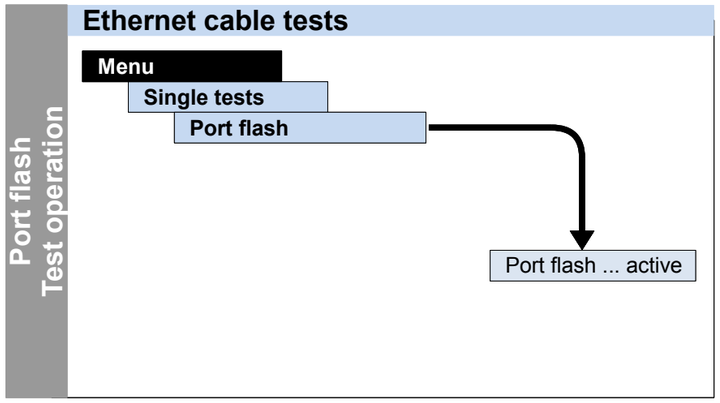
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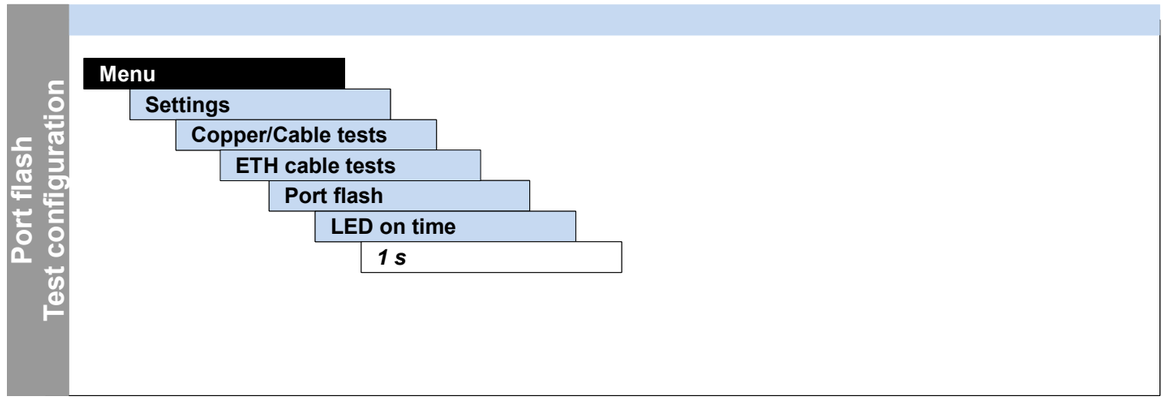
IP and ATM tests	page
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Others	page
Legend Protocol-overview	3
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BERT Test operation

BRI S/U

TE ...

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

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
B-channel loop wait active
BERT wait active
BERT active

Cross reference:

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ISDN tests	page
BERT	28
Supp. Serv. test Service check X.31	29
CF-Tests Connection	30
Time measuring Auto. Test	31

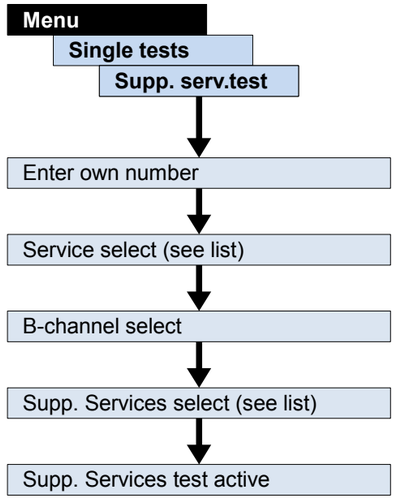
Other tests	page
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Line qualification Line symmetry	33
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Others	page
Legend Protocol-overview	3
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Supplementary services Test operation

BRI S/U

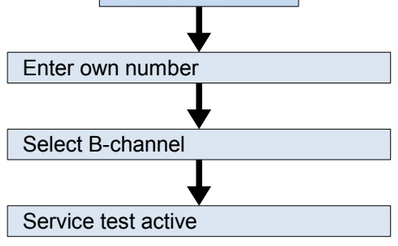
TE P-MP / TE P-P



Service test Test operation

BRI S/U

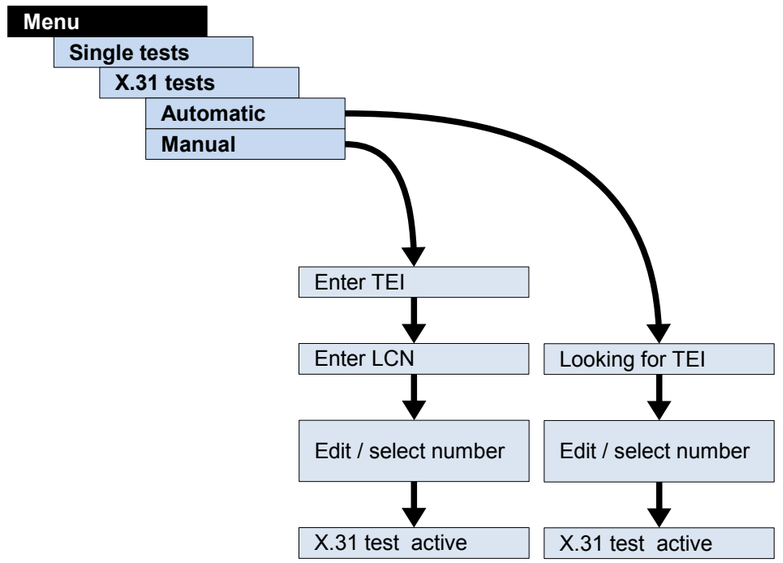
TE ...



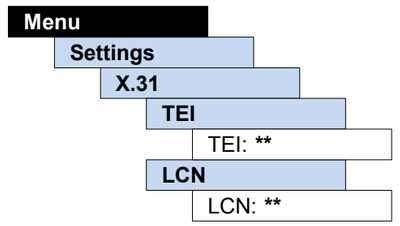
X.31 test Test configuration

BRI S / U interface

TE P-MP / TE P-P



X.31 test 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

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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IP and ATM tests	page
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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 ...

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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Help	7, 10

IP and ATM tests	page
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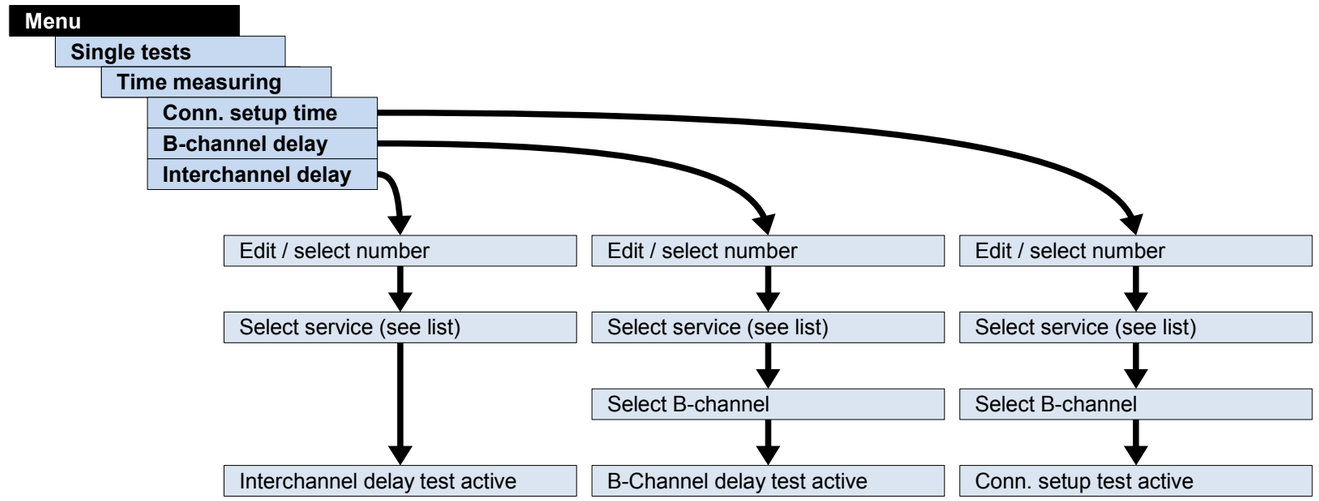
Other tests	page
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Others	page
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Time measuring
Test operation

BRI S/U

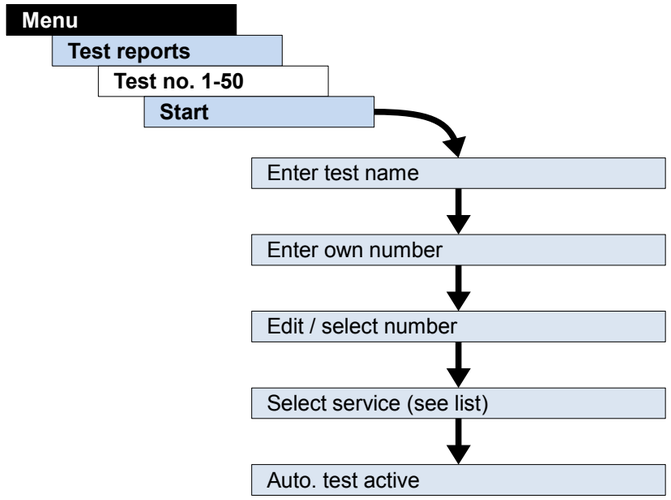
TE ... / Leased line



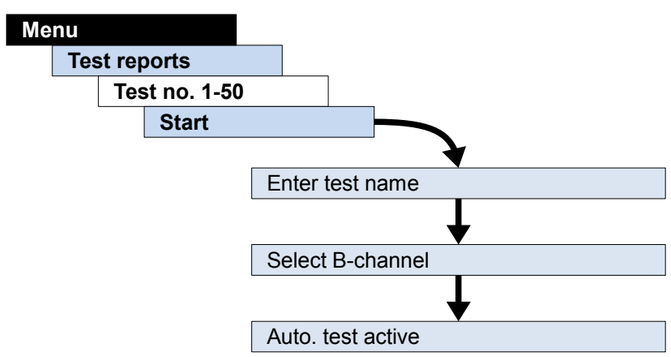
Auto. test
Test operation

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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Line scope Test operation

Copper tests

Menu
→ **Single tests**
→ **Line scope**
→ Line scope active

Line scope Test configuration

The setting “Probe” set at DMT analysis is used by the line scope, too.

DMT analysis Test operation

Copper tests

Menu
→ **Single tests**
→ **DMT analysis**
→ Test DMT analysis active

DMT analysis Test configuration

Menu
→ **Settings**
→ **Copper/Cable tests**
→ **Copper tests**
→ **DMT analysis**
→ **Mode**
- ***Average***
- Peak
- Bottom
- All

→ **Tones**
- ***1.1MHz (ADSL)***
- 2.2MHz (ADSL2+)
- 8.8MHz (VDSL2 8a)
- 17.6MHz (VDSL2 17a)
- 30.0MHz (VDSL2 30a)

→ **Probe**
- ***No***
- Yes

TDR Test operation

Copper tests

Menu
→ **Single tests**
→ **TDR**
→ TDR active

TDR Test configuration

Menu
→ **Settings**
→ **Copper/Cable tests**
→ **Copper tests**
→ **TDR (2-wire)**
→ **Wire types/VoP**
→ **Wire type 1-10**

- Wire type selection
- Edit wire type
  → **VoP**
  Name
  Wire type 1-10
  → **VoP in %**
  66,7
  → **V/2 in m/µs**
  100.0

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

Cross reference:

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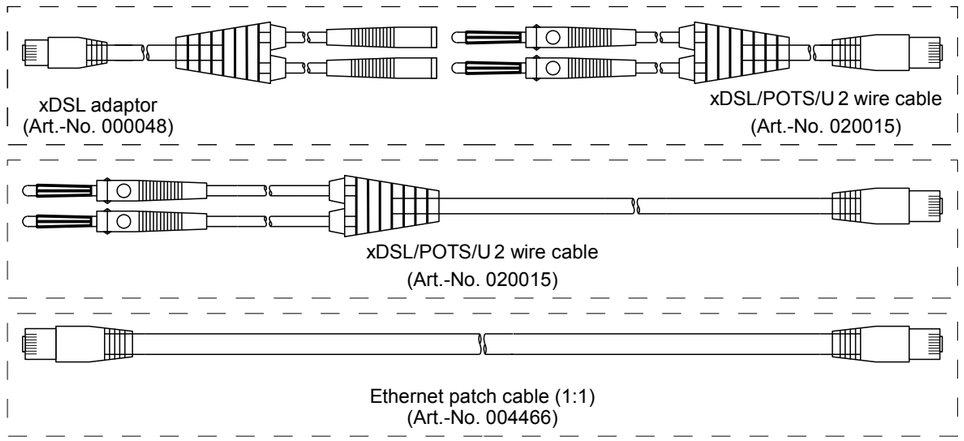
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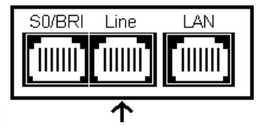
ADSL / VDSL



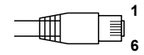
RJ11	Ban.	RJ45
3	rd	4
4	blk	5

Ban.	RJ45
rd	4
blk	5

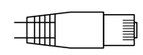
RJ45	RJ45
1-8	1-8



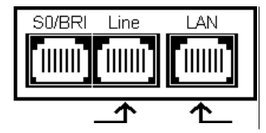
RJ11



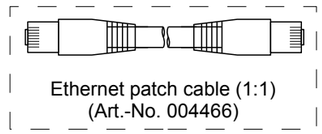
RJ45



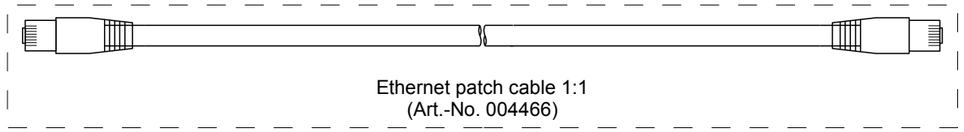
ADSL / VDSL – Bridge / Router



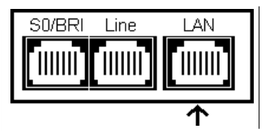
RJ45	RJ45
1-8	1-8



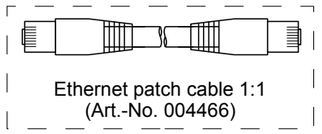
Ethernet



RJ45	RJ45
1-8	1-8



RJ45	RJ45
1-8	1-8



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

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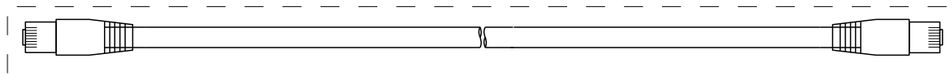
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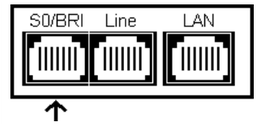
Others	page
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-36

BRI S

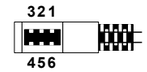


BRI S cable
(Art.-No. 000041)

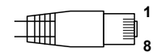
RJ45	RJ45
3/6	3/6
4/5	4/5



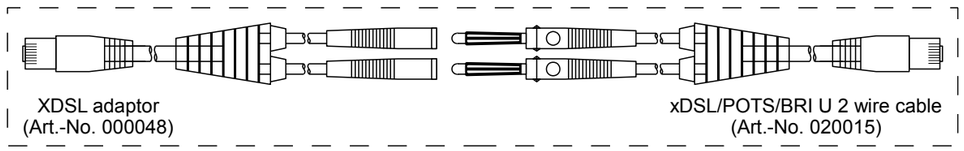
TAE



RJ45

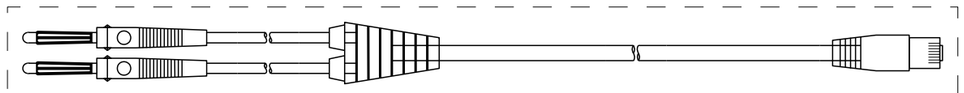


BRI U / POTS



XDSL adaptor
(Art.-No. 000048)

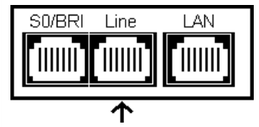
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020015)



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



Test leads and pin assignments
Copper tests

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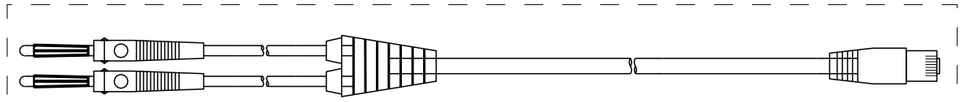
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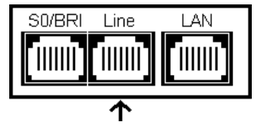
Others	page
Legend Protocol-overview	3
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Copper tests: R measurement / RC measurement / Line scope / DMT analysis / TDR



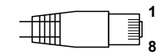
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020015)

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

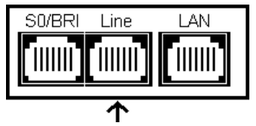


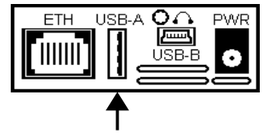
Copper tests: Line scope / DMT analysis



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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