

ADSL
VDSL
ETH
Data
IP TV
Vo IP
MOS
PC
USB

ARGUS® 141

» Overview of menu and test leads

valid from firmware version R2.30.00

intec
GESELLSCHAFT FÜR
INFORMATIONSTECHNIK mbH

Legend, Status, Protocol overview

Cross reference:

Menu	page
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Legend General

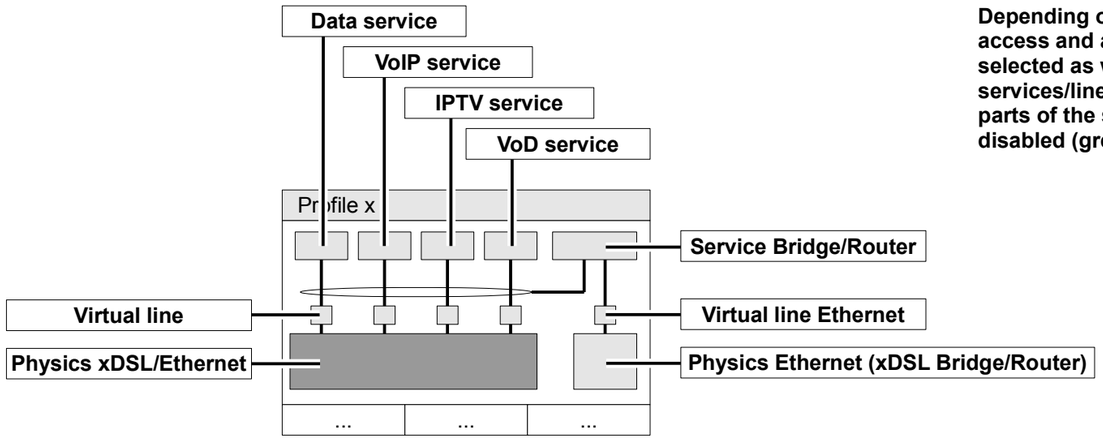
Menu
Configuration menu
Defaul Config.menu
Input menu
Default input menu

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 14)
a – Protocol set automatically

Note

The basic ARGUS *141* 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			Copper tests	
Key	**ADSL**	**VDSL / Ethernet**	**Key**	**Copper tests**
0	ARGUS status		0	ARGUS status
1	Help hotkeys		1	Help hotkeys
2	VPI/VCI scan	-	2	-
3	IP ping		3	-
4	Trace route		4	-
5	HTTP download		5	Test data to PC
6	-		6	-
7	FTP download		7	-
8	Trace/remote		8	Trace/remote
9	IPTV		9	-
⎍	Status		⎍	-
✆	VoIP call		✆	-
✳ then 0	Access		✳ then 0	Access
✳ then 1	ARGUS info		✳ then 1	ARGUS info
✳ then 2	Restore config.		✳ then 2	Restore config.
✳ then 3	Factory setting		✳ then 3	Factory setting
✳ then 6	-		✳ then 6	-
✳ then 7	Store		✳ 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	**DMT analysis**
0	-
1	-
2	Zoom
3	Cursor
4	Tones
5	Mode
6	-
7	-
8	-
9	-
	New
✓	-
⎍	-
✳ then 7	Store

Switch on and access menu

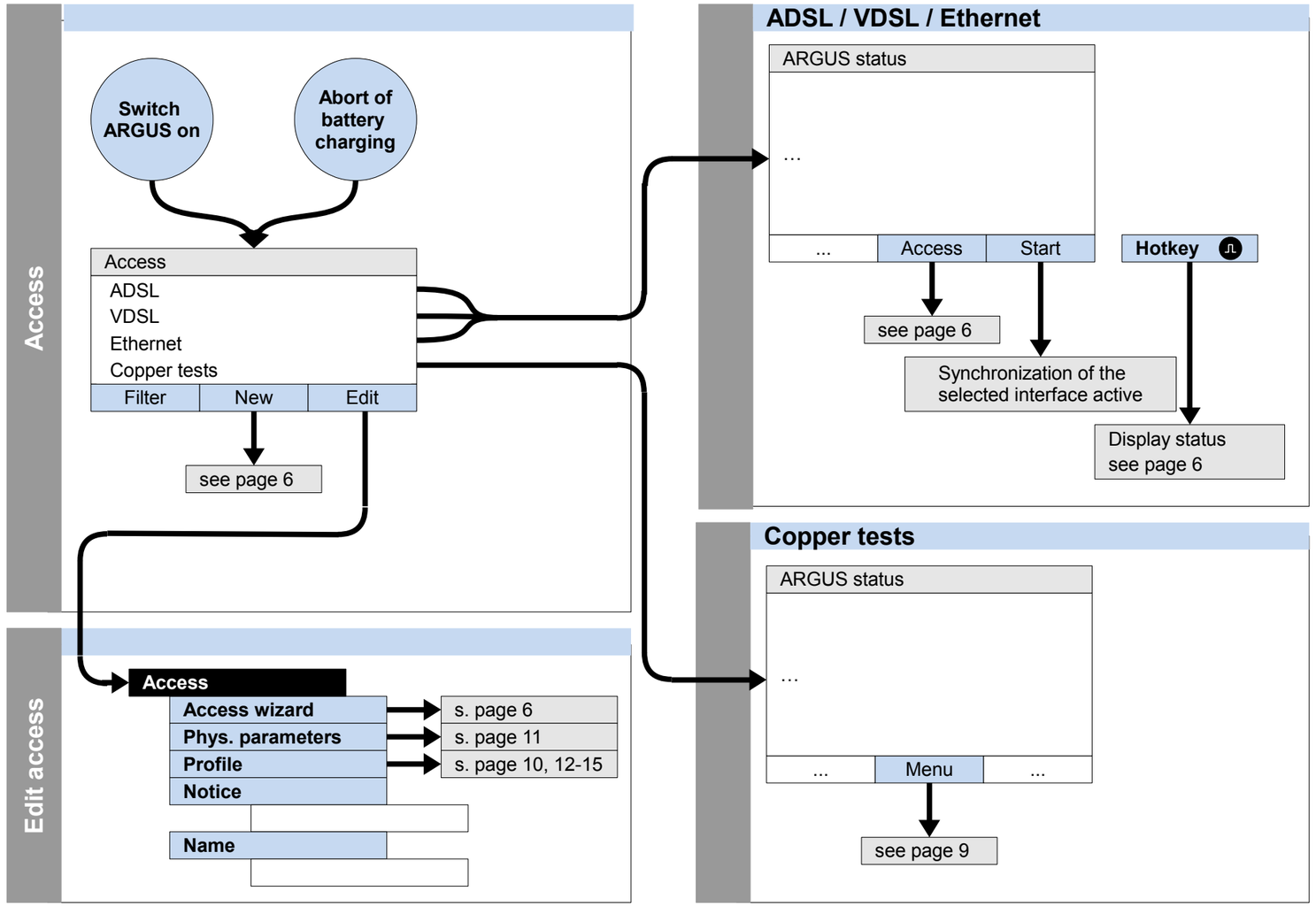
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Access wizard

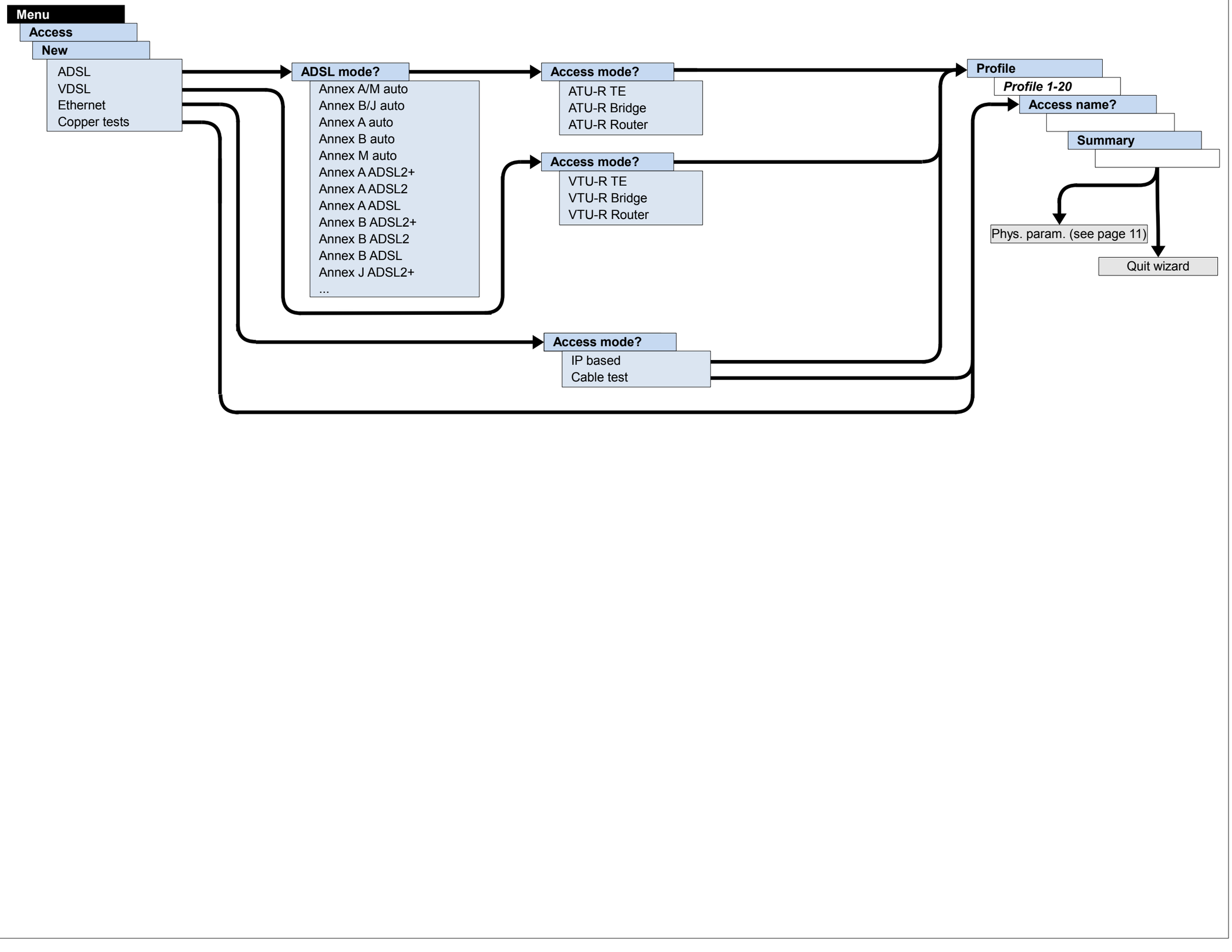
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Main menu, Single tests, Test results, Status
(Access: ADSL, VDSL, Ethernet, Copper tests)

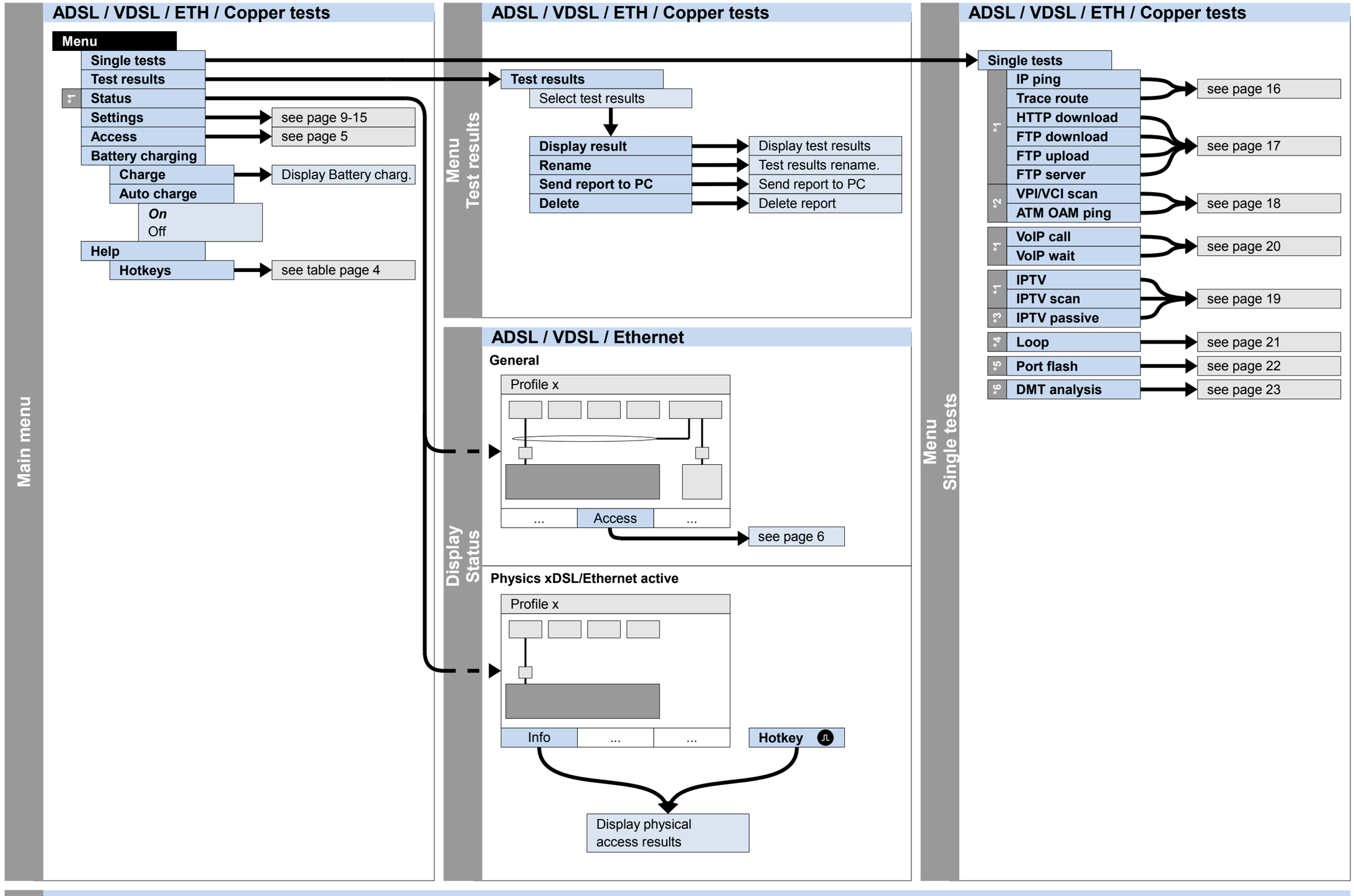
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Note

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

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

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ADSL / VDSL / Ethernet

Service active

Display Status

Profile x

... Test ...

Menu Data tests

- Data tests
  - IP ping → see page 16
  - Trace route → see page 16
  - HTTP download → see page 17
  - FTP download → see page 17
  - FTP upload → see page 17
  - FTP server → see page 17

ADSL / VDSL / Ethernet

Service active

Display Status

Profile x

... Test ...

Menu VoIP tests

- VoIP tests
  - IP ping → see page 16
  - Trace route → see page 16
  - VoIP call → see page 20
  - VoIP wait → see page 20

ADSL / VDSL / Ethernet

Service active

Display Status

Profile x

... Test ...

Menu IPTV tests

- IPTV tests
  - IP ping → see page 16
  - Trace route → see page 16
  - IPTV → see page 19
  - IPTV scan → see page 19
  - *1 IPTV passive → see page 19

ADSL / VDSL / Ethernet

Service active

Display Status

Profile x

... Test ...

Menu VoD tests

- VoD tests
  - IP ping → see page 16
  - Trace route → see page 16

ADSL / VDSL - Bridge

Service active

Display Status

Profile x

... Test ...

Menu Bridge tests

- Bridge tests
  - IPTV passive → see page 19

ADSL / Ethernet

Physics xDSL/Ethernet active, Services inactive

Display Status

Profile x

... Test ...

Menu Physic tests

- Physic tests
  - *2 VPI/VCI scan → see page 18
  - *2 ATM OAM ping → see page 18
  - *3 Loop → see page 21

Note

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

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

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Menu Settings

- **Menu**
  - **Settings**
    - **Trace/remote**
      - ***Off***
      - Auto PC sync
      - Manual PC sync
    - **Profiles** → see page 10-15
    - **Copper/Cable tests** → see page 22-33
    - **Device**
    - **Backup/Restore**

Menu Device

- **Device**
  - **Menu language** → **Menu language**: Deutsch / ***English*** / Francais
  - **LCD lightness**: dark------light
  - **Date / time**: Date : dd.mm.yy / Time: hh:mm
  - **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 turn off**: ***after 5 minutes*** / after 10 minutes / after 15 minutes / after 30 minutes / deactivated
    - **Lighting**: ***off after 30 sec*** / off after 1 minute / off after 5 minutes
  - **Software option** → Input SW option key

Menu Backup

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

Note

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

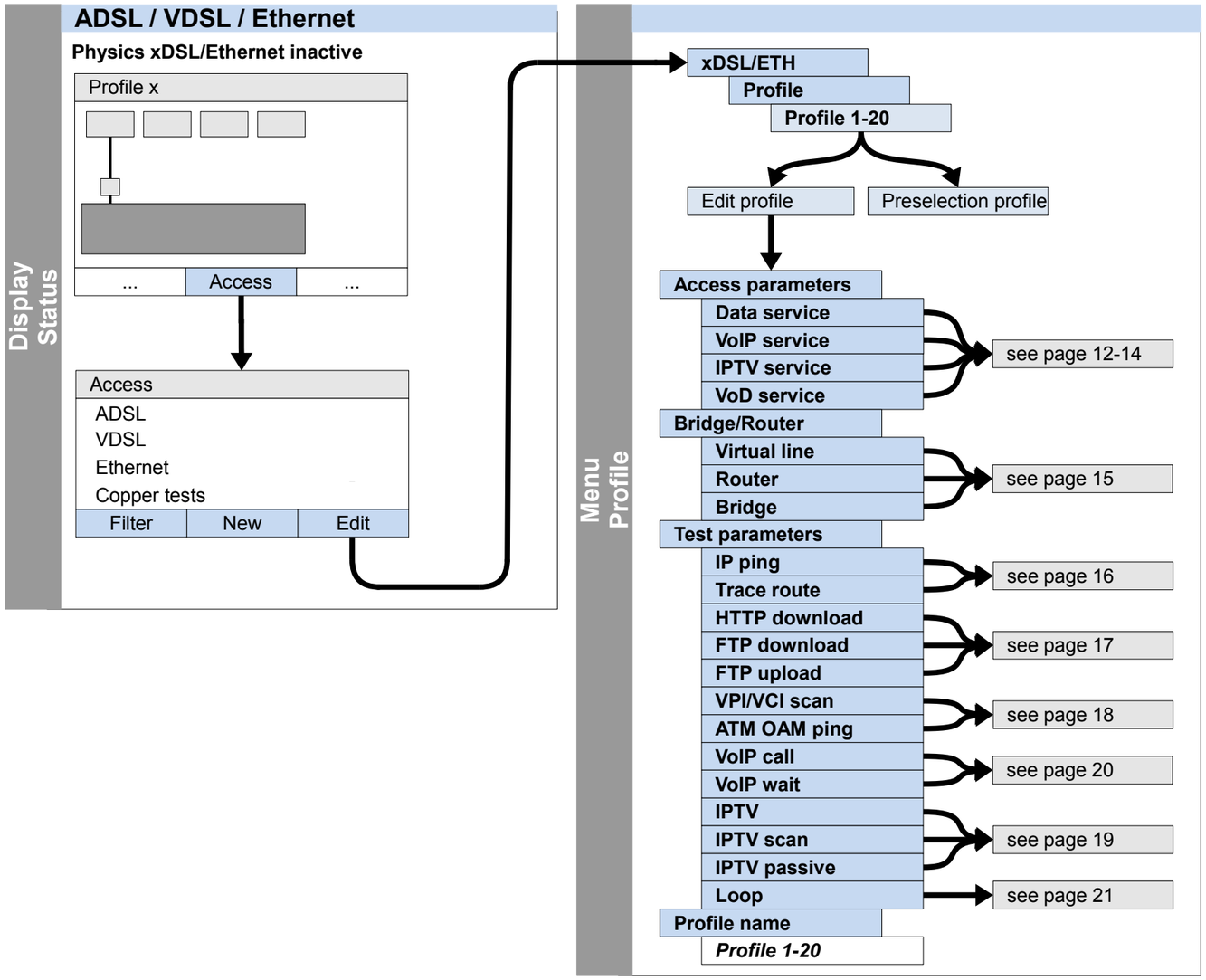
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Settings
Phys. parameters: ADSL, VDSL, Ethernet

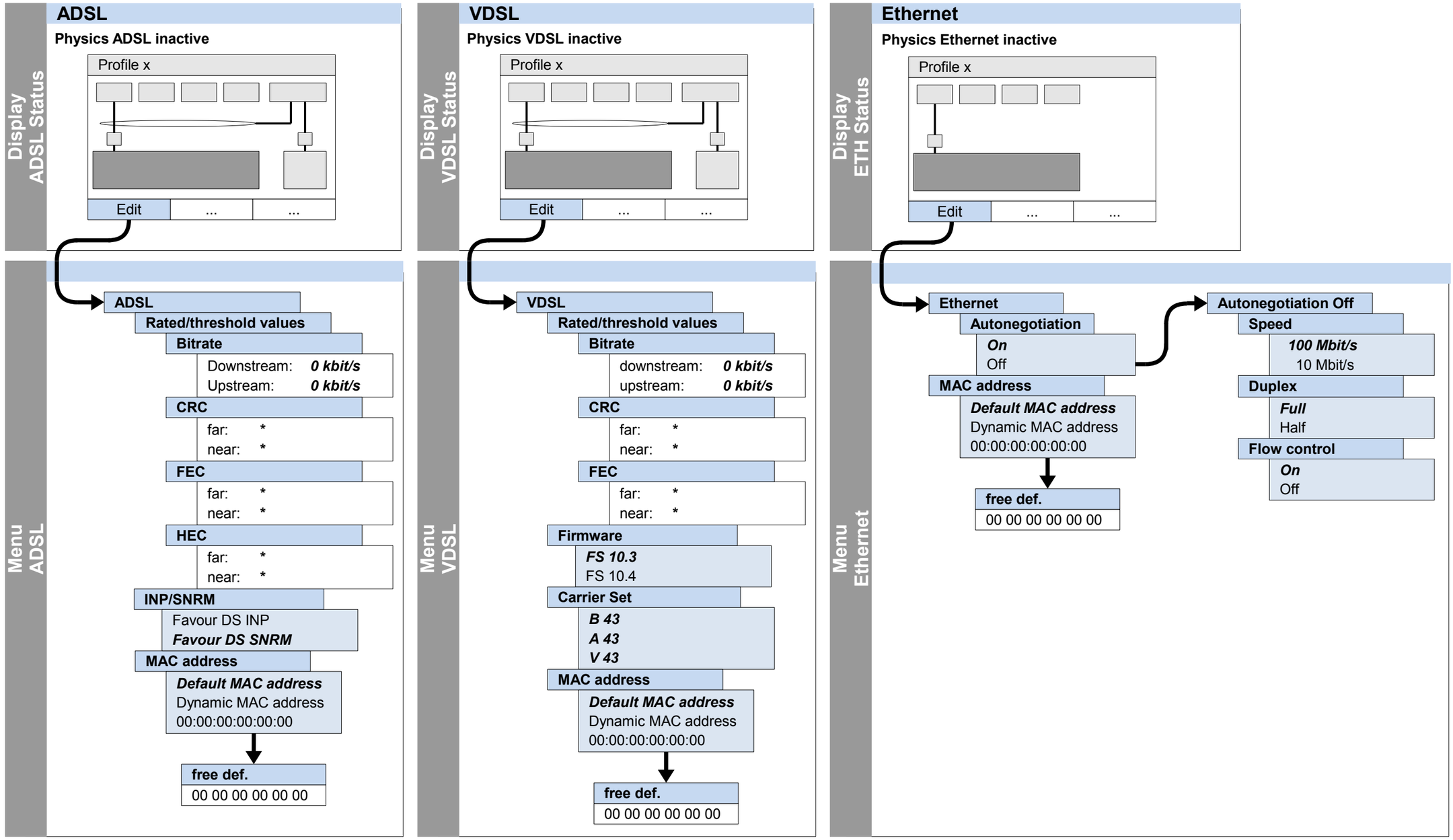
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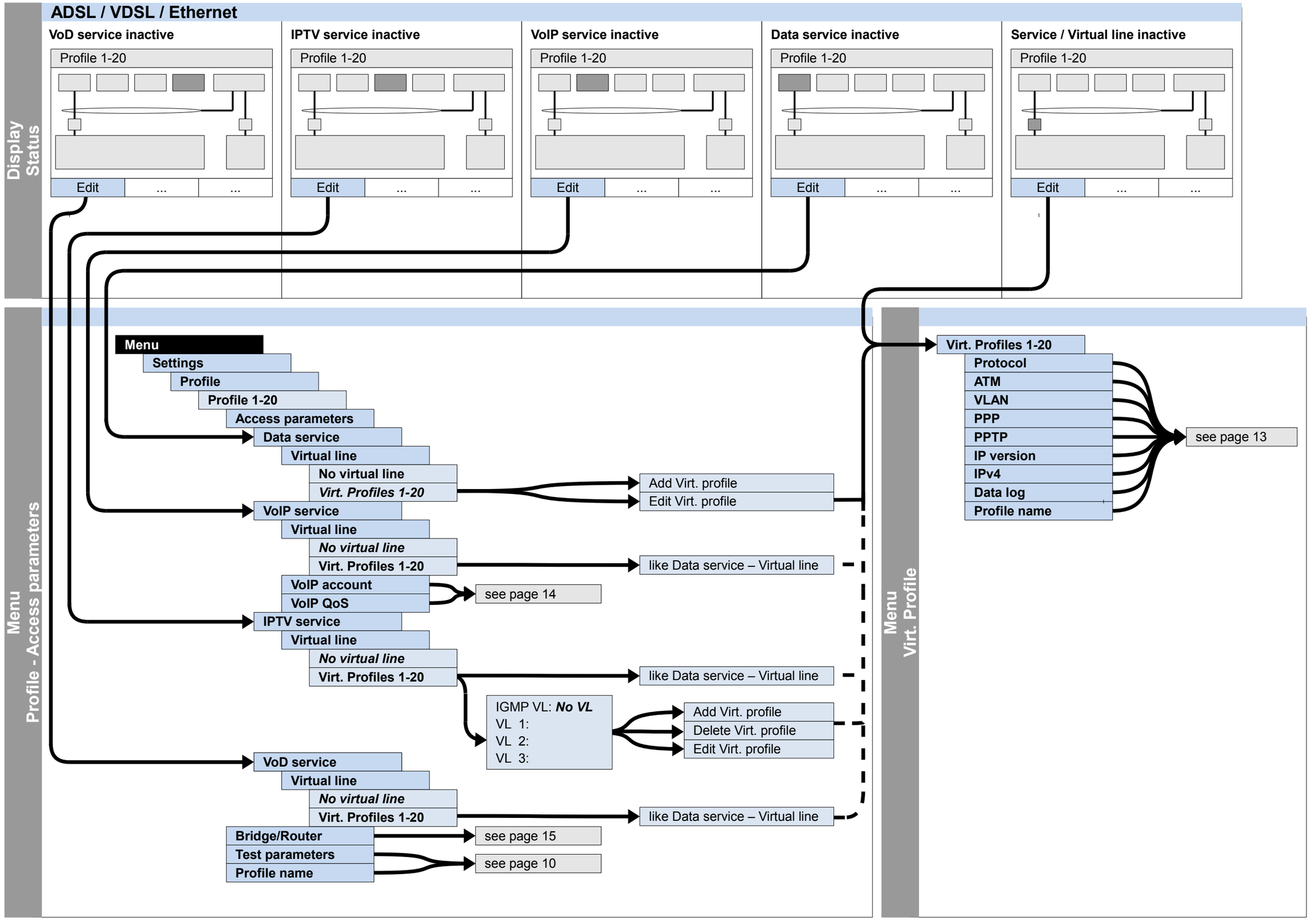
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Settings
Profiles – Virt. profile (Protocol, ATM, VLAN, PPP, PPTP, IP, Data log)

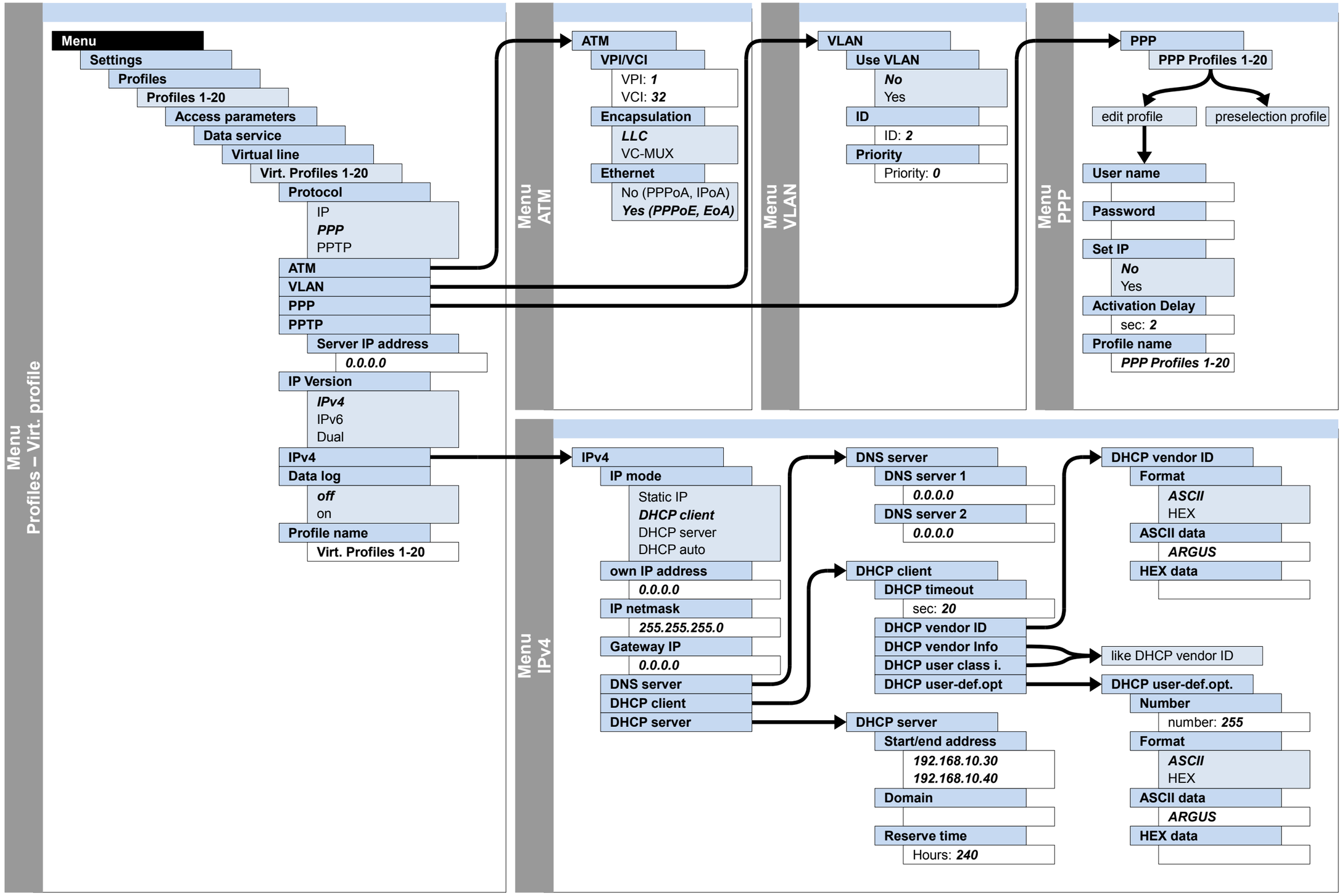
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Note

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

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Display Status

ADSL / VDSL / Ethernet

VoIP service inactive

Profiles 1-20

Edit | ... | ...

Menu VoIP service

Menu
Settings
Profiles
Profiles 1-20
VoIP service
Virtual line → see page 12
VoIP account
VoIP QoS

Menu VoIP Profiles

VoIP account
VoIP profile 1-3
edit VoIP profile | preselection VoIP profile
SIP settings
Phone settings
STUN server
Use STUN
No
Yes
STUN server
MOS threshold
Value: ***4.0***
Profile name
VoIP profiles 1-3

Menu VoIP QoS

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

RTP ToS
ToS: ***00***
RTP DSCP
DSCP: ***00***
SIP ToS
ToS: ***00***
SIP DSCP
DSCP: ***00***

Menu Phone settings

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

static
nominal: ***60*** ms

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

Menu SIP settings

SIP settings
User name
Password
Registrar server
Outbound proxy/SBC
SIP Domain
Listen port
Port num.: ***5060***
Remote port
Port num.: ***5060***
Authentication
Caller ID
User agent
Argus141
Qualify
No
Yes
Reg. expire
Time: ***3600 sec.***
Del.exist.registrar
No
Yes

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

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

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

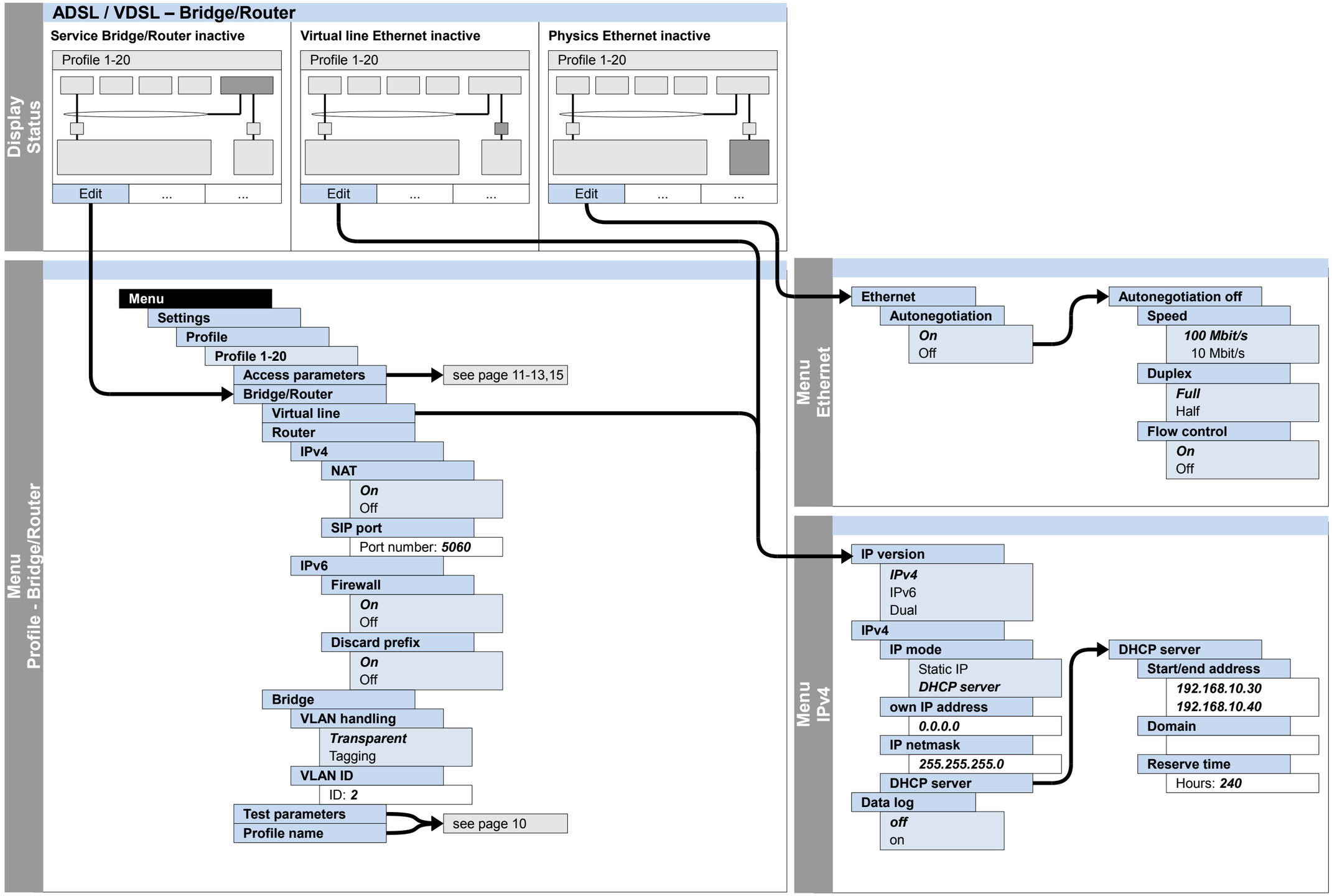
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IP ping Test operation

ADSL / VDSL / Ethernet

Menu
- **Single tests** → **IP ping**
- **Data tests** → **IP ping**
- **VoIP tests** → **IP ping**
- **IPTV tests** → **IP ping**
- **VoD tests** → **IP ping**

→ selection service (see list and note)
→ **IP addresses 1 - 10**
→ selection IP address
→ selection IP mode (see list)
→ IP ping test active

→ edit IP address

IP ping Test configuration

Menu
- **Settings**
- **Profiles**
- **Profiles 1-20**
- **Test parameters**
- **IP ping**
- **IP address**
- **IP addresses 1-10**
  - preseselection IP address
  - edit IP address
- **Number of pings**: Quantity: ***10***
- **Delay**: sec.: ***1,000***
- **Packet size**: in byte.: ***84***
- **Fragmentation**: ***On*** / Off / Auto

Lists

Services
- Data
- VoIP
- IPTV
- VoD

IP modes
- IPv4
- IPv6

Trace route Test operation

ADSL / VDSL / Ethernet

Menu
- **Single tests** → **Trace route**
- **Data tests** → **Trace route**
- **VoIP tests** → **Trace route**
- **IPTV tests** → **Trace route**
- **VoD tests** → **Trace route**

→ selection service (see list and note)
→ **IP addresses 1 - 10**
→ selection IP address
→ selection IP mode (see list)
→ Trace route test active

→ edit IP address

Trace route Test configuration

Menu
- **Settings**
- **Profiles**
- **Profiles 1-20**
- **Test parameters**
- **Trace route**
- **IP address**
- **IP addresses 1-10**
  - preseselection IP address
  - edit IP address
- **Maximum hops**: max: ***25***
- **Probes**: Number: ***3***
- **Timeout**: sec: ***3,000***

Menu IP address

As IPv4 number / As IPv6 number / As name

As IPv4 number	As IPv6 number	As name
0.0.0.0	***0000:0000:0000...***	***www.argus.info***

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
Menu → 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
Menu → 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
Menu → 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
Menu → 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.

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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***

Cross reference:

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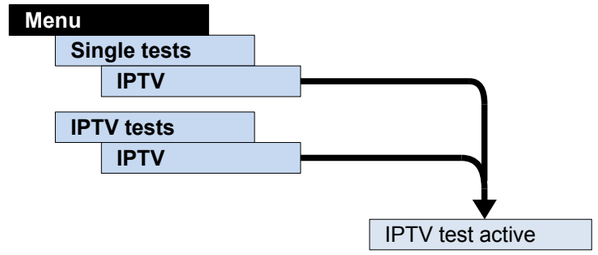
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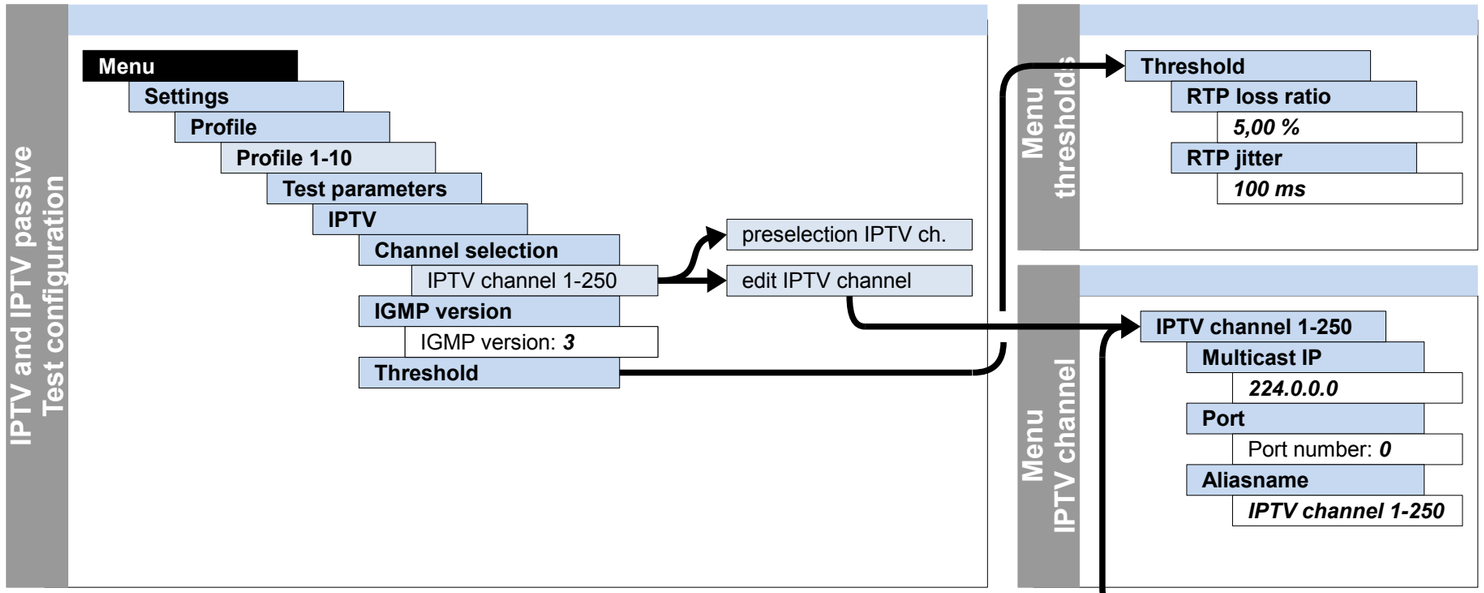
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IPTV Test operation

ADSL / VDSL / Ethernet

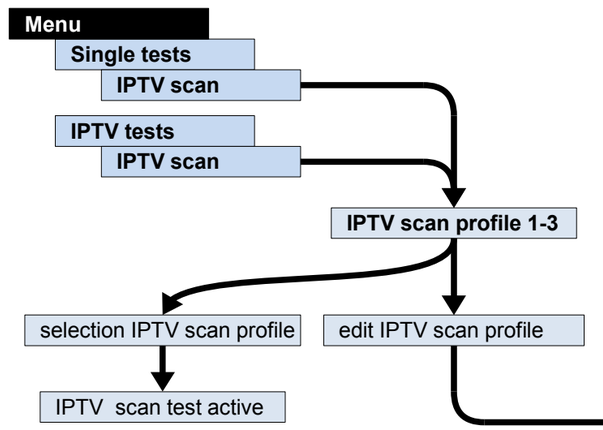


IPTV and IPTV passive Test configuration

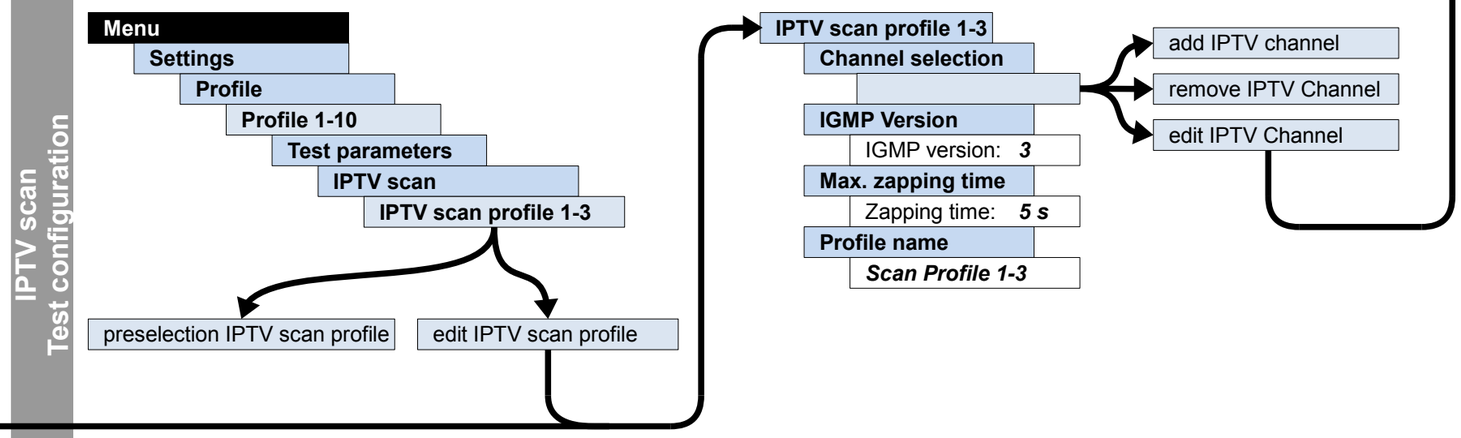


IPTV scan Test operation

ADSL / VDSL / Ethernet

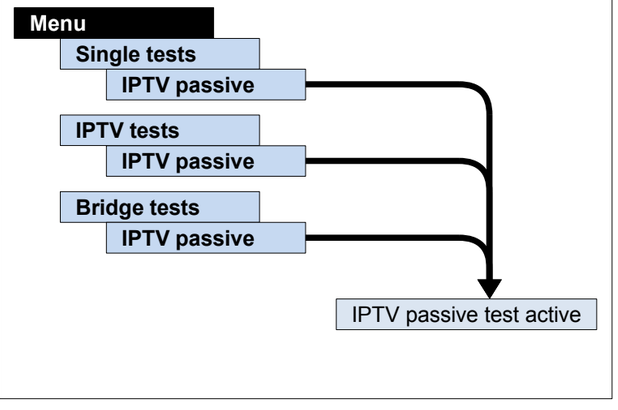


IPTV scan Test configuration



IPTV passive Test operation

ADSL / VDSL / Ethernet



Note

The IPTV test configuration will be used for the IPTV passive test.

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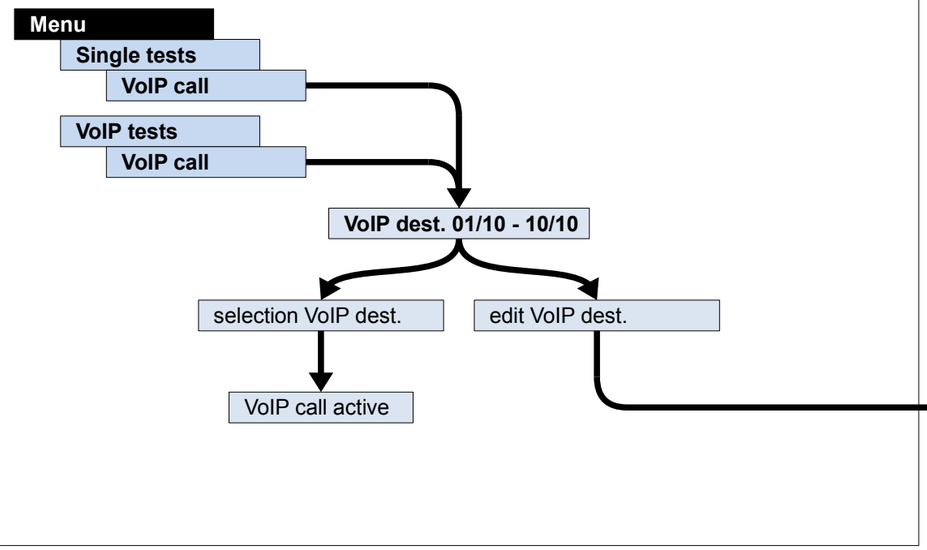
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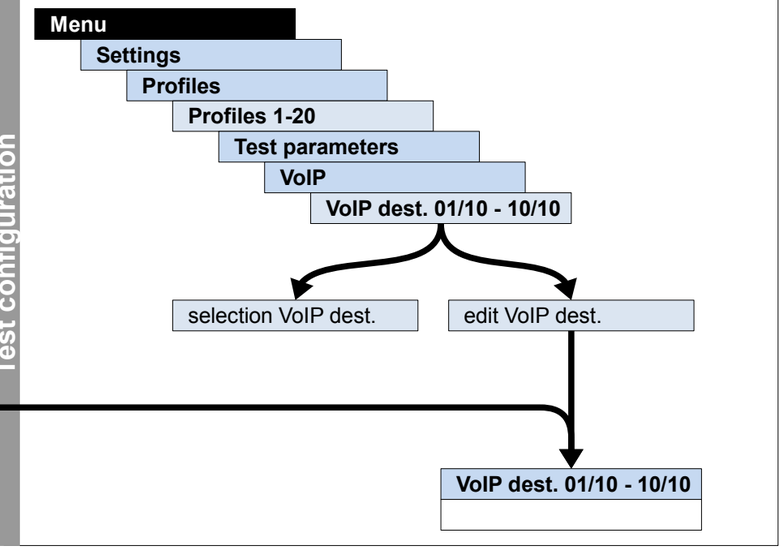
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VoIP call Test operation

ADSL / VDSL / Ethernet

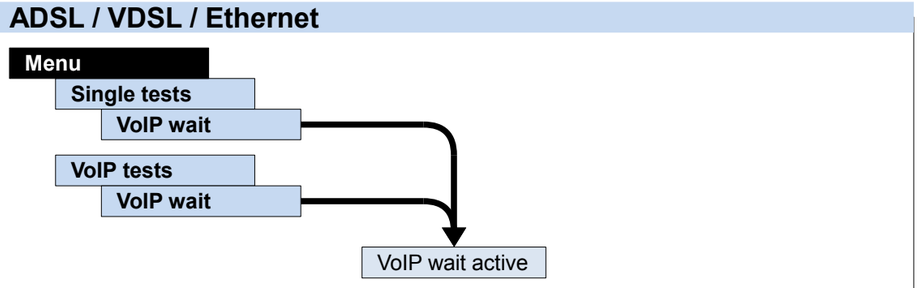


VoIP call Test configuration

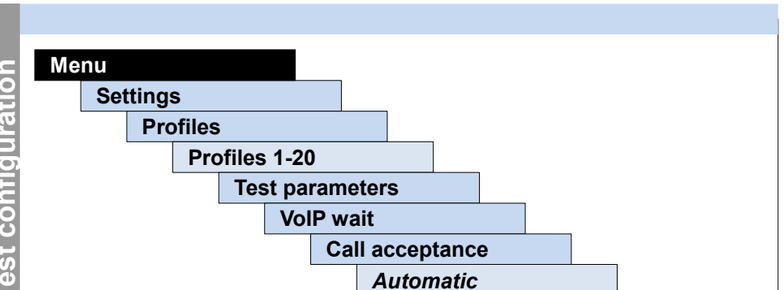


VoIP wait Test operation

ADSL / VDSL / Ethernet



VoIP wait Test configuration



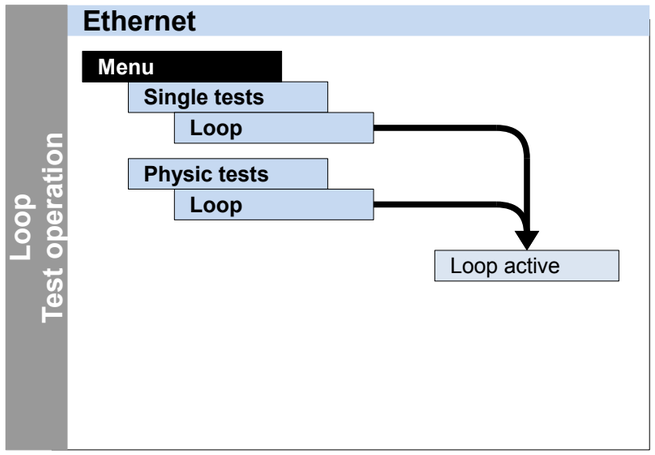
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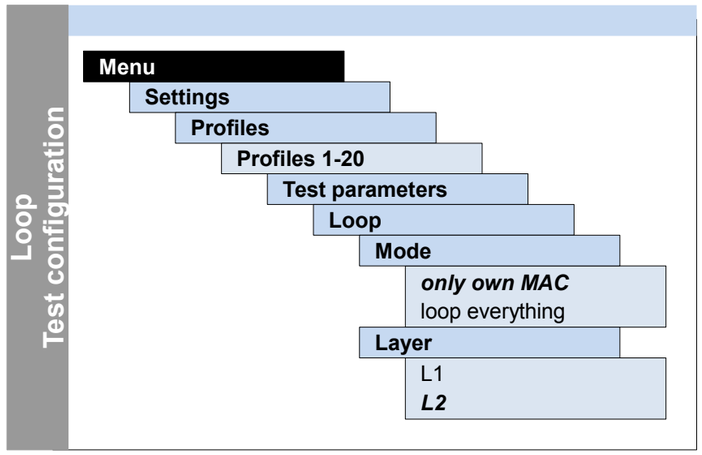
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Ethernet cable tests

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.

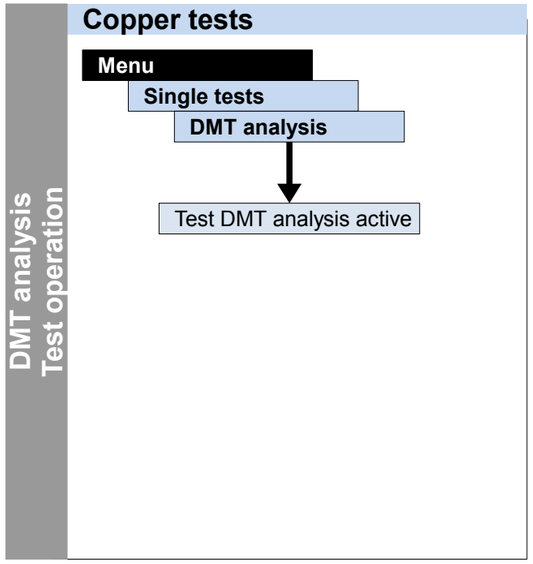
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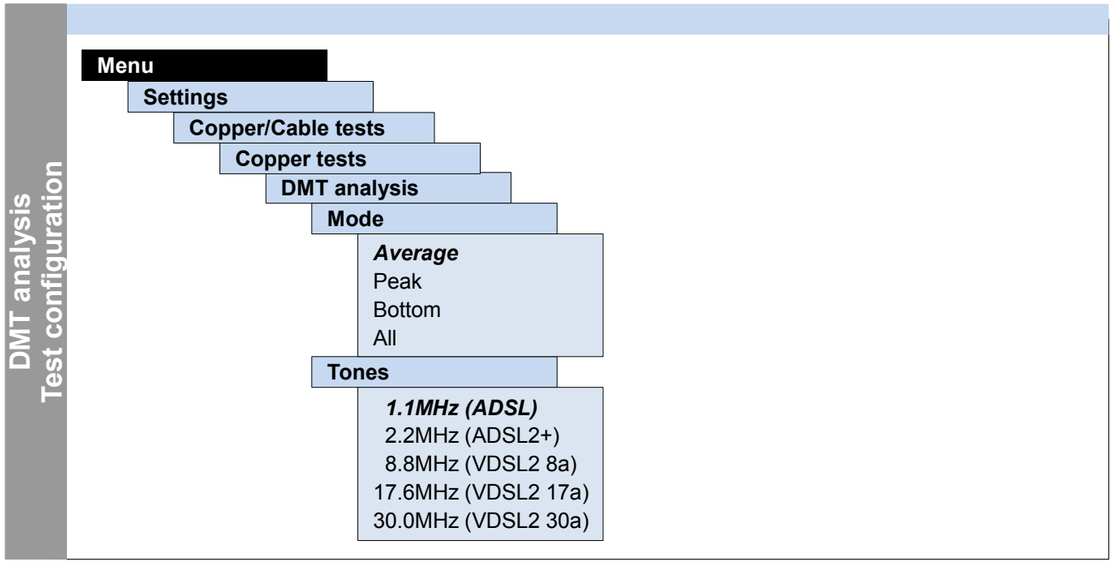
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Test leads and pin assignments
ADSL, VDSL, Ethernet, Copper tests

Cross reference:

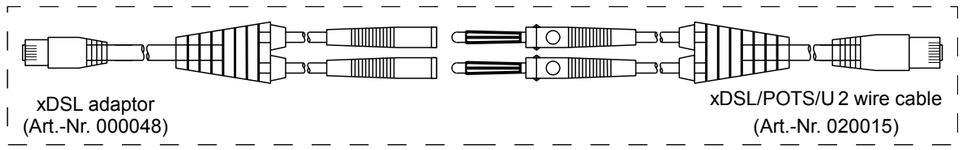
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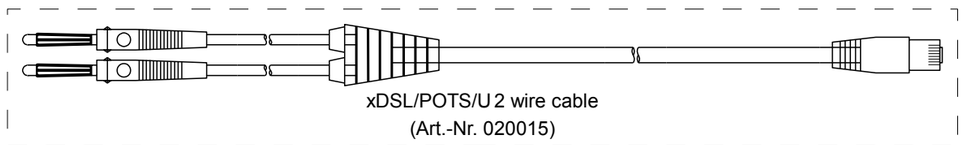
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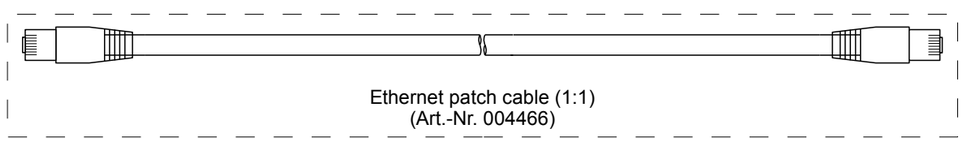
ADSL / VDSL



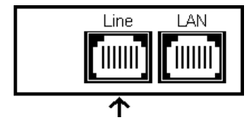
RJ11	Ban.	RJ45
3	rd	4
4	blk	5



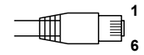
Ban.	RJ45
rd	4
blk	5



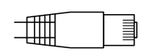
RJ45	RJ45
1-8	1-8



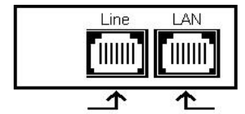
RJ11



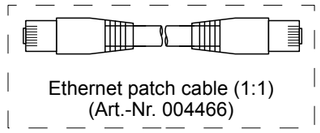
RJ45



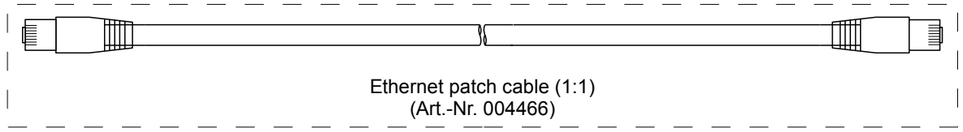
ADSL / VDSL – Bridge / Router



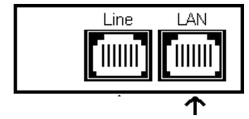
RJ45	RJ45
1-8	1-8



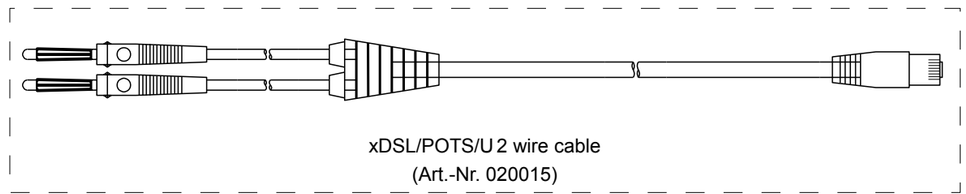
Ethernet



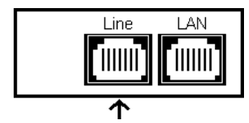
RJ45	RJ45
1-8	1-8



Copper tests: DMT analysis



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.

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