

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

ARGUS® 151

» Overview of menu and test leads

valid from firmware version R2.90.00

intec
GESELLSCHAFT FÜR
INFORMATIONSTECHNIK mbH

Legend, Status, Protocol overview

Cross reference:

Menu	page
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Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-9
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Legend General

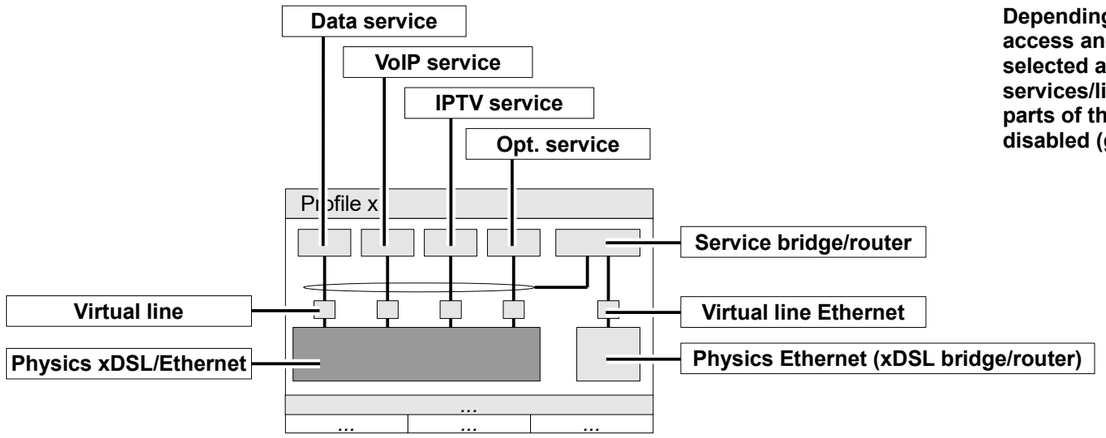
Menu
Configuration menu
Defaul Config.menu
Input menu
Default input menu

Depending on the specified interface, menu item will be shown

Menu item only matters for specified interface

Legend Status

ADSL / VDSL / Ethernet / LTE



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

Protocol overview

ADSL / VDSL / Ethernet / LTE

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

● – Protocol configurable (see page 17)
a – Protocol set automatically

Note

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

Hotkeys

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Menu Hotkeys

ADSL / VDSL / Ethernet / LTE

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

Copper tests

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

Graphic hotkeys

ADSL / VDSL / xDSL trace

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

Single tests

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Menu Single tests

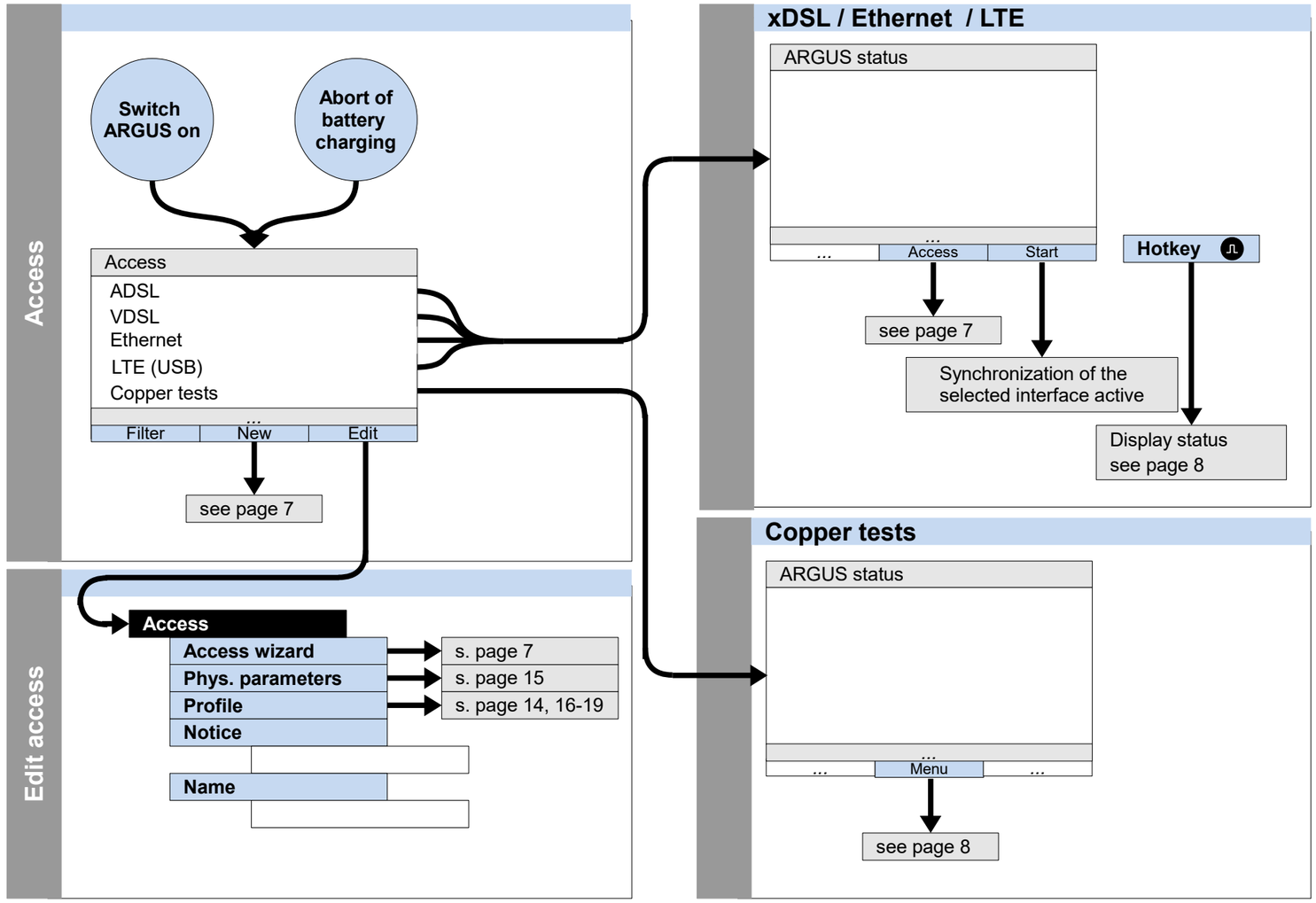
ADSL / VDSL / Ethernet / LTE

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

Switch on and access menu

Cross reference:

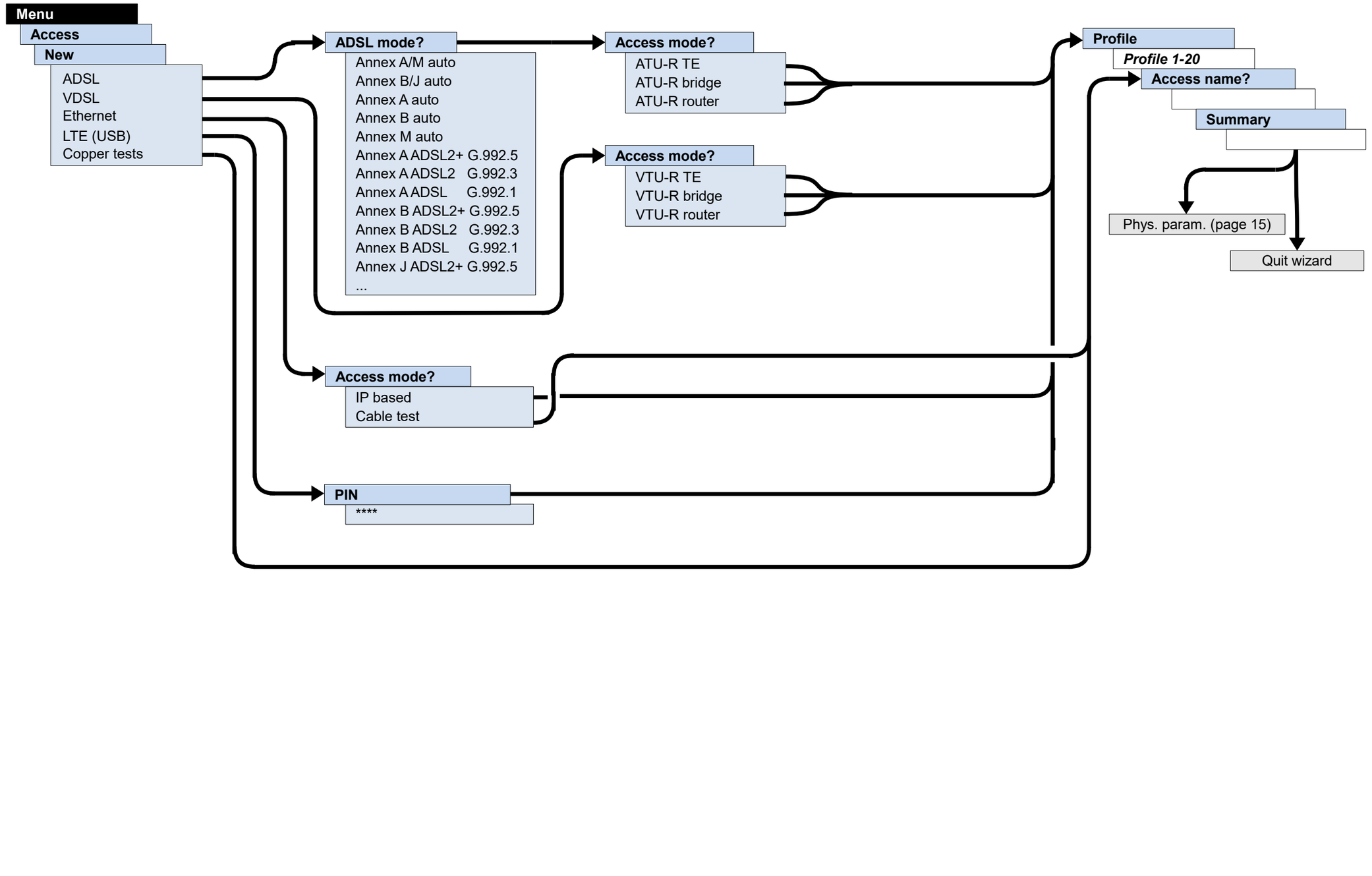
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Access wizard

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

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Main menu

xDSL / ETH / LTE / Copper tests

Menu

- Single tests → see page 11
- *1 Auto test → see page 10
- Test status
- 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 12-19
- Battery (status,...)
- Status → Display Battery status
- Automatic char.: Off / ***on***
- Help
- Hotkeys → see table page 4

Menu Test results

xDSL / ETH / LTE / Copper tests

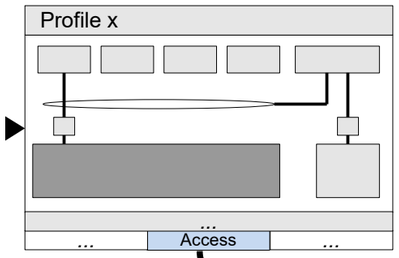
Test results → Select test results

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

Display Status

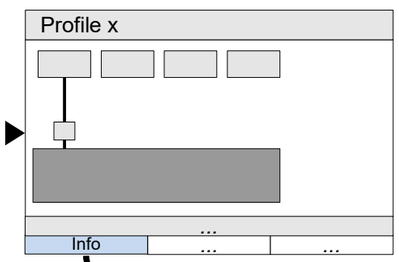
ADSL / VDSL / Ethernet / LTE

General



→ see page 6

Physics xDSL/Ethernet/LTE active



Hotkey

Display physical access results and the xDSL trace

Menu Single tests

xDSL / ETH / LTE / Copper tests

Single tests

- Copper Box → see page 29-30
- IP ping → see page 20
- Trace route
- HTTP download
- HTTP upl. (BRITT)
- FTP download
- FTP upload
- FTP server → see page 21
- Text browser
- Network scan → see page 22
- VPI/VCI scan
- ATM OAM ping → see page 23
- VoIP call
- VoIP wait → see page 26
- IPTV
- IPTV scan
- IPTV passive → see page 24
- Video on Demand → see page 25
- LTE scan → LTE scan is active
- Loop → see page 27
- ETH TDR/Cable t.
- Port flash → see page 28

Copper tests:

- Copper Box → see page 29-30
- R measurement
- RC measurement → see page 31
- Line scope
- TDR → see page 32

Note

*1 = ADSL, VDSL, Ethernet

*2 = not for Copper tests, ETH cable test

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

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xDSL / Ethernet / LTE

Service active

Display Status

Profile x

... Test ...

Menu Data tests

- Data tests
  - IP ping → see page 20
  - Trace route → see page 20
  - HTTP download → see page 21
  - HTTP upl. (BRITT) → see page 21
  - FTP download → see page 21
  - FTP upload → see page 21
  - FTP server → see page 21
  - Text browser → see page 22
  - Network scan → see page 22

xDSL / Ethernet

Service active

Display Status

Profile x

... Test ...

Menu VoIP tests

- VoIP tests
  - IP ping → see page 20
  - Trace route → see page 20
  - VoIP call → see page 26
  - VoIP wait → see page 26

xDSL / Ethernet

Service active

Display Status

Profile x

... Test ...

Menu IPTV tests

- IPTV tests
  - IP ping → see page 20
  - Trace route → see page 20
  - IPTV → see page 24
  - IPTV scan → see page 24
  - IPTV passive → see page 24

xDSL / Ethernet

Service active

Display Status

Profile x

... Test ...

Menu Opt. tests

- Opt. tests
  - IP ping → see page 20
  - Trace route → see page 20
  - HTTP download → see page 21
  - HTTP upl. (BRITT) → see page 21
  - FTP download → see page 21
  - FTP upload → see page 21
  - FTP server → see page 21
  - Text browser → see page 22
  - Network scan → see page 22
  - Video on Demand → see page 25

ADSL / VDSL

Service active

Display Status

Profile x

... Test ...

Menu Bridge tests

- Bridge tests
  - IPTV passive → see page 24

ADSL / Ethernet / LTE

Physics xDSL/Ethernet active, Services inactive

Display Status

Profile x

... Test ...

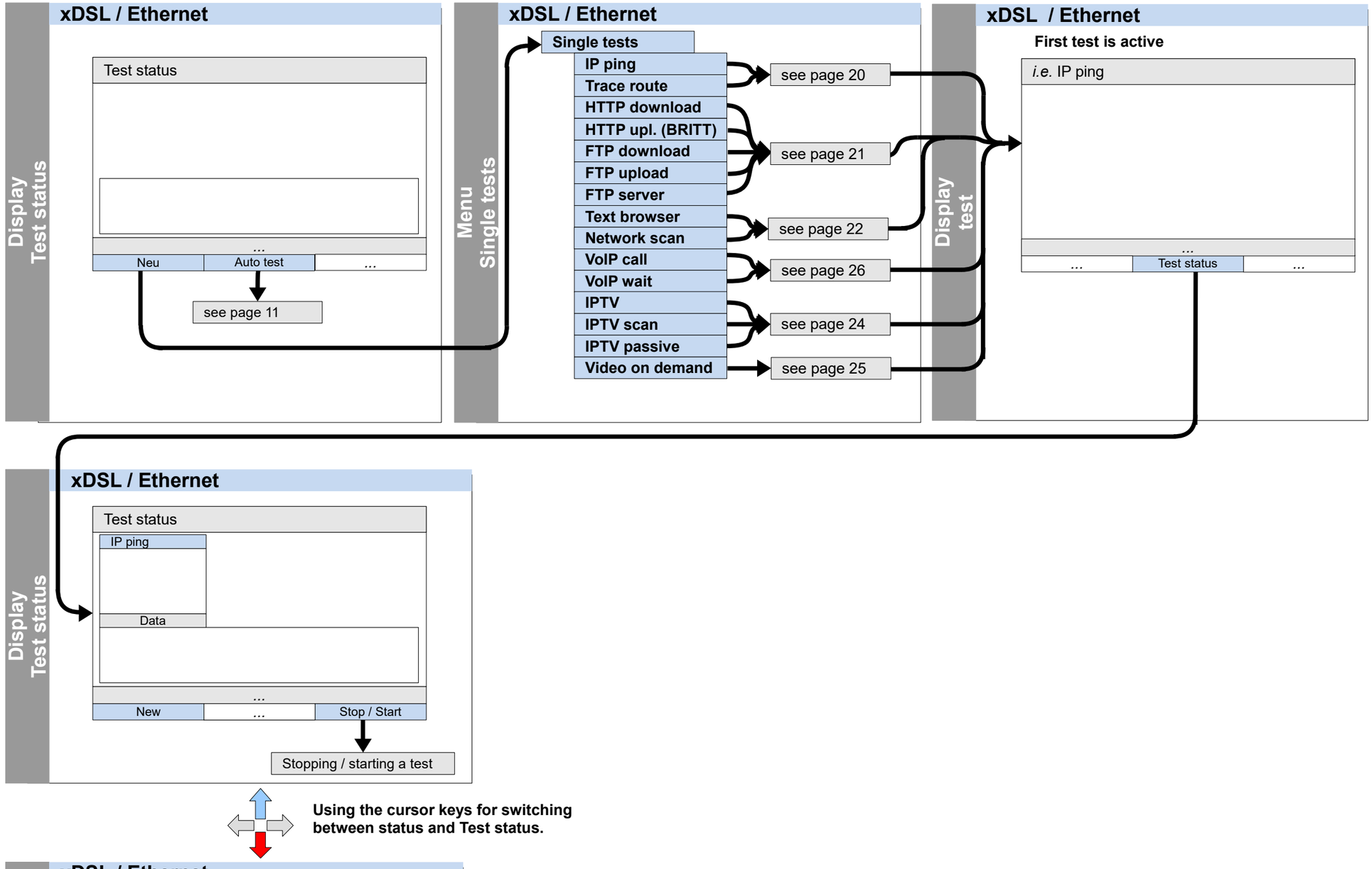
Menu Physic tests

- Physic tests
  - VPI/VCI scan → see page 23
  - ATM OAM ping → see page 23
  - Loop → see page 27
  - LTE scan → LTE scan is active

Service tests: Parallel tests
Test status

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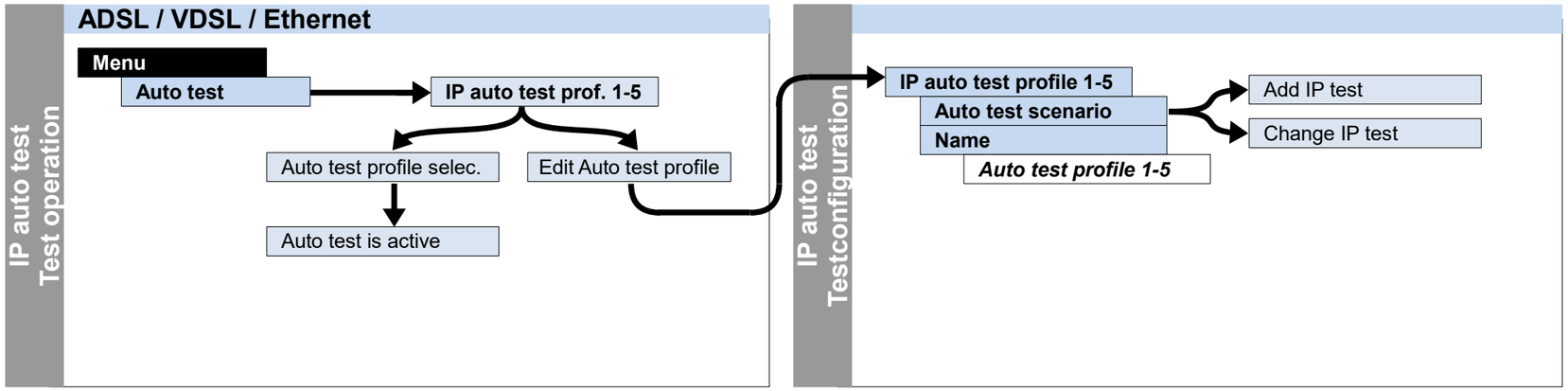
Note

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

Service tests: IP auto test

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Settings and reset
Numbers, Backup/Restore, Cloud services

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Menu Settings

- **Menu**
  - **Settings**
    - **Profiles** → see page 14-19
    - **Copper/Cable tests** → see page 29-32
    - **Cloud services**
    - **Remote access** → see page 13
    - **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

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 (Firmware)
- **FTP server address**: ***firmware.argus.info***
- **Username**: ***argus***
- **Password**: ***update***
- **Profilename**: ***Firmware***

Server (Configuration)
- **FTP server address**
- **Username**
- **Password**
- **Profilename**: ***Configuration***

Server (Test result)
- **FTP server address**
- **Username**
- **Password**
- **Profilename**: ***Test result***

Note

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

Note

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

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**: ***ARGUS151_SN01234***
        - **Password**: ***argus151***
        - **Channel**: ***Channel: 1***
        - **DHCP server**
          - **Start/end address**: ***192.168.20.30*** / ***192.168.20.40***
          - **Domain**
          - **Reserve time**: Hours: ***240***
        - **IP settings**
          - **IP address**: ***192.168.20.1***
          - **Netmask**: ***255.255.255.0***
          - **Gateway**: ***0.0.0.0***

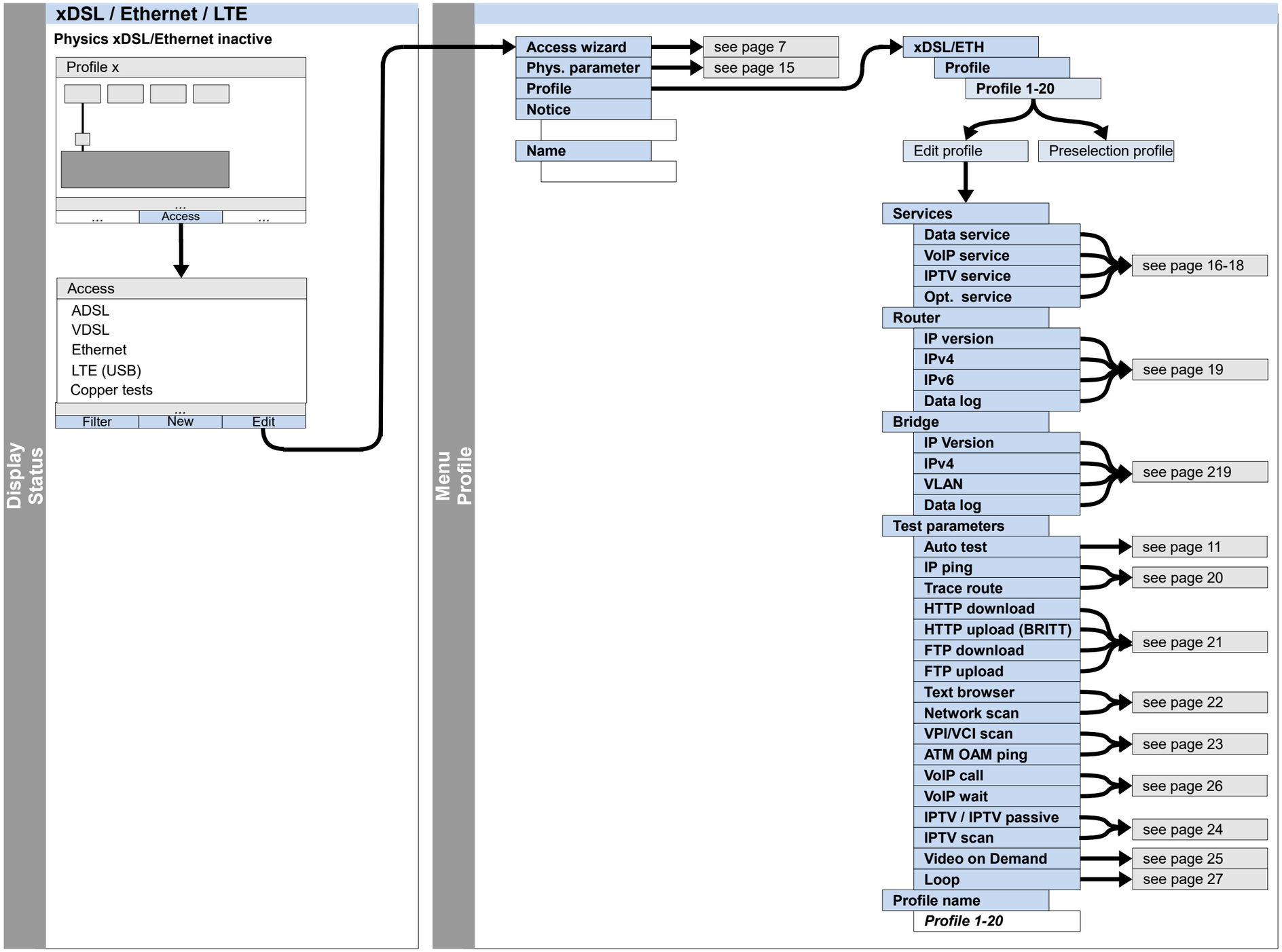
Menu Device

- **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

Settings
Profile

Cross reference:

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

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ADSL

Display ADSL Status

Physics ADSL inactive

Profile x

Edit | ... | ...

Menu ADSL

- **ADSL**
  - **Rated/threshold values**
    - **Bitrate**: Downstream: ***0 kbit/s*** Upstream: ***0 kbit/s***
    - **CRC**: far: * near: *
    - **FEC**: far: * near: *
    - **HEC**: far: * near: *
  - **INP/SNRM**: Favour DS INP / ***Favour DS SNRM***
  - **Retransmission (G.INP)**: off / Downstream / Upstream / ***Down- & upstream***
  - **MAC address**: ***Default MAC address*** / Dynamic MAC address / 00:00:00:00:00:00
    - **free definable**: 00 00 00 00 00 00

VDSL

Display VDSL Status

Physics VDSL inactive

Profile x

Edit | ... | ...

Menu VDSL

- **VDSL**
  - **Rated/threshold values**
    - **Bitrate**: downstream: ***0 kbit/s*** upstream: ***0 kbit/s***
    - **CRC**: far: * near: *
    - **FEC**: far: * near: *
  - **Firmware**: ***A*** / B
  - **Carrier Set**: ***B 43*** / ***A 43*** / ***V 43***
  - **Vectoring mode**: Off / ***Full vectoring***
  - **Retransmission (G.INP)**: off / Downstream / Upstream / ***Down- & upstream***
  - **Suppress profile 30a**: ***No*** / Yes
  - **MAC address**: ***Default MAC address*** / Dynamic MAC address / 00:00:00:00:00:00
    - **free definable**: 00 00 00 00 00 00

Ethernet

Display ETH Status

Physics Ethernet inactive

Profile x

Edit | ... | ...

Menu Ethernet

- **Ethernet**
  - **Autonegotiation**: ***On*** / Off
    - **MAC address**: ***Default MAC address*** / Dynamic MAC address / 00:00:00:00:00:00
      - **free definable**: 00 00 00 00 00 00
  - **Autonegotiation Off**
    - **Speed**: ***1000 Mbit/s*** / 100 Mbit/s / 10 Mbit/s
    - **Duplex**: ***Full*** / Half
    - **Flow control**: ***On*** / Off

LTE

Display LTE - Status

LTE inactive

Profile x

Edit | ... | ...

Menu LTE

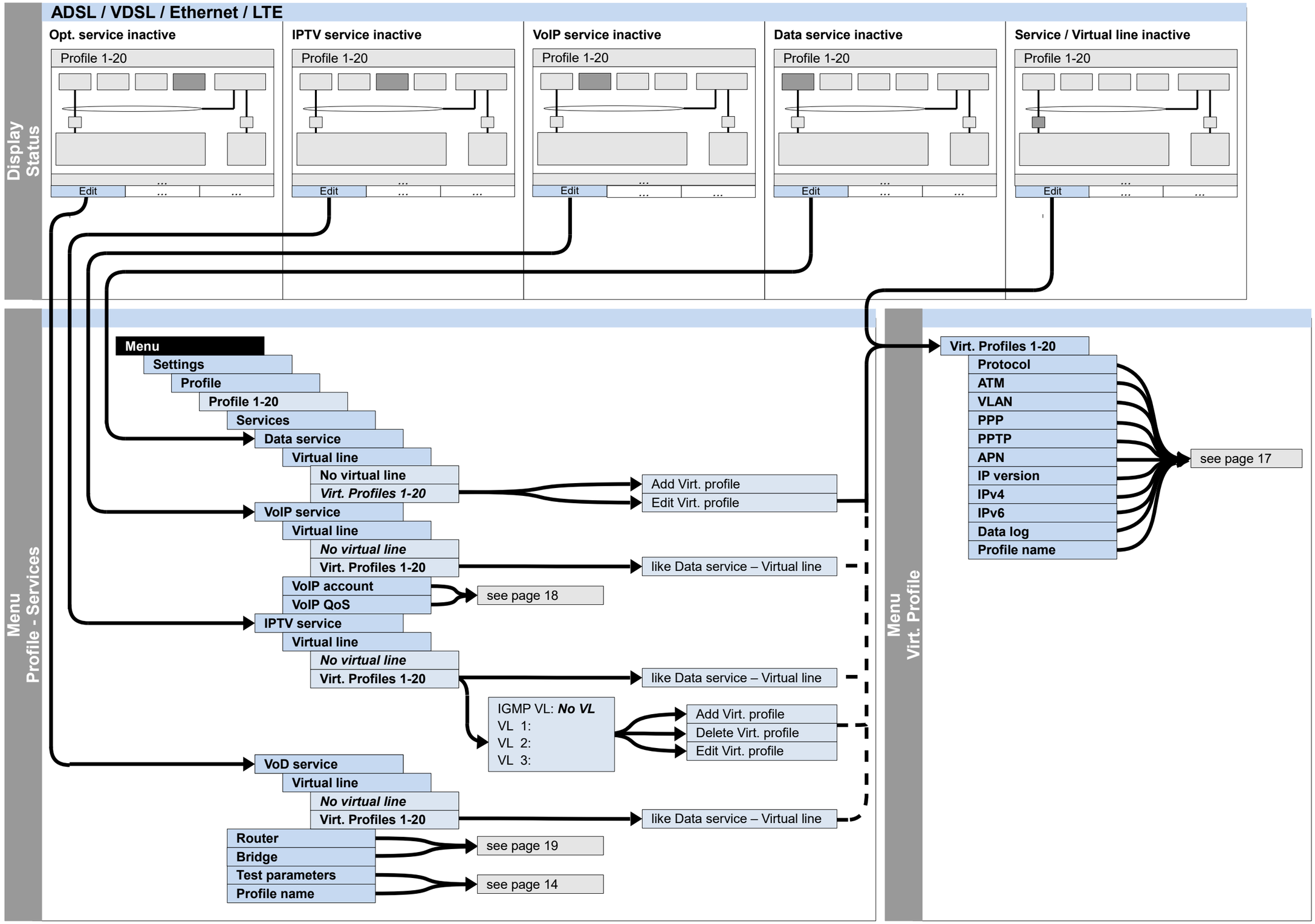
- **LTE**
  - **Frequency band**: ***Automatic*** / 800 MHz / 1800 MHz / 2600 MHz
  - **PIN**: ****

Settings

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

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

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Menu Profiles – Virt. profile

- **Menu**
  - **Settings**
    - **Profiles**
      - **Profiles 1-20**
        - **Services**
          - **Data service**
            - **Virtual line**
              - **Virt. Profiles 1-20**
                - **Protocol**: IP / ***PPP*** / PPTP
                - **ATM**
                  - **VPI/VCI**: VPI: ***1*** / VCI: ***32***
                  - **Encapsulation**: ***LLC*** / VC-MUX
                - **Ethernet**: No (PPPoA, IPoA) / ***Yes (PPPoE, EoA)***
                - **VLAN**
                - **PPP**
                - **PPTP**
                  - **Server IP address**: ***0.0.0.0***
                - **APN**
                - **IP Version**: ***only IPv4*** / only IPv6 / Dual Stack IPv4/IPv6 / Dual stack lite
                - **IPv4**
                - **IPv6**
                - **Data log**: ***off*** / on
                - **Profile name**: **Virt. Profiles 1-20**

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***

Menu PPP

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

Menu APN

- **APN**
  - **APN Profiles 1-5**
    - Edit profile
      - **Access point**
      - **In-dialling nb.**: ****99#***
      - **Profile name**: ***APN Profiles 1-5***
    - Presel. profile

Menu IPv6

- **IPv6**
  - **AFTR**
    - **AFTR-Modus**: **Automatisch** / Statisch
    - **AFTR-Adresse**
  - **DHCP-Client**
    - **DHCP mode**: **Automatic** / Ignore RA server
    - **DHCP options**: **Automatisch** / Request all options
    - **Enter. Nb. (PEN)**: ***46443***

Menu IPv4

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

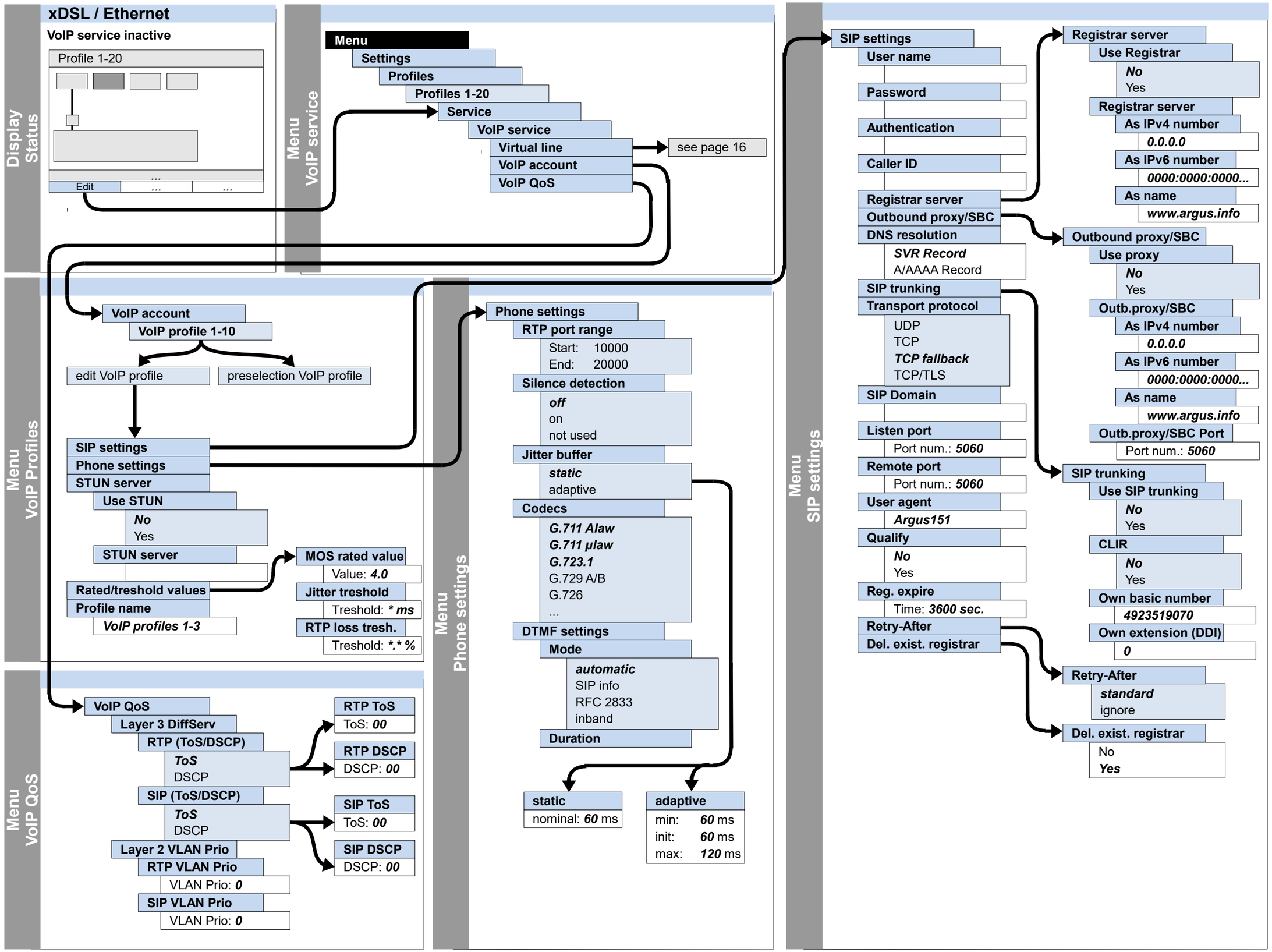
Note

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:

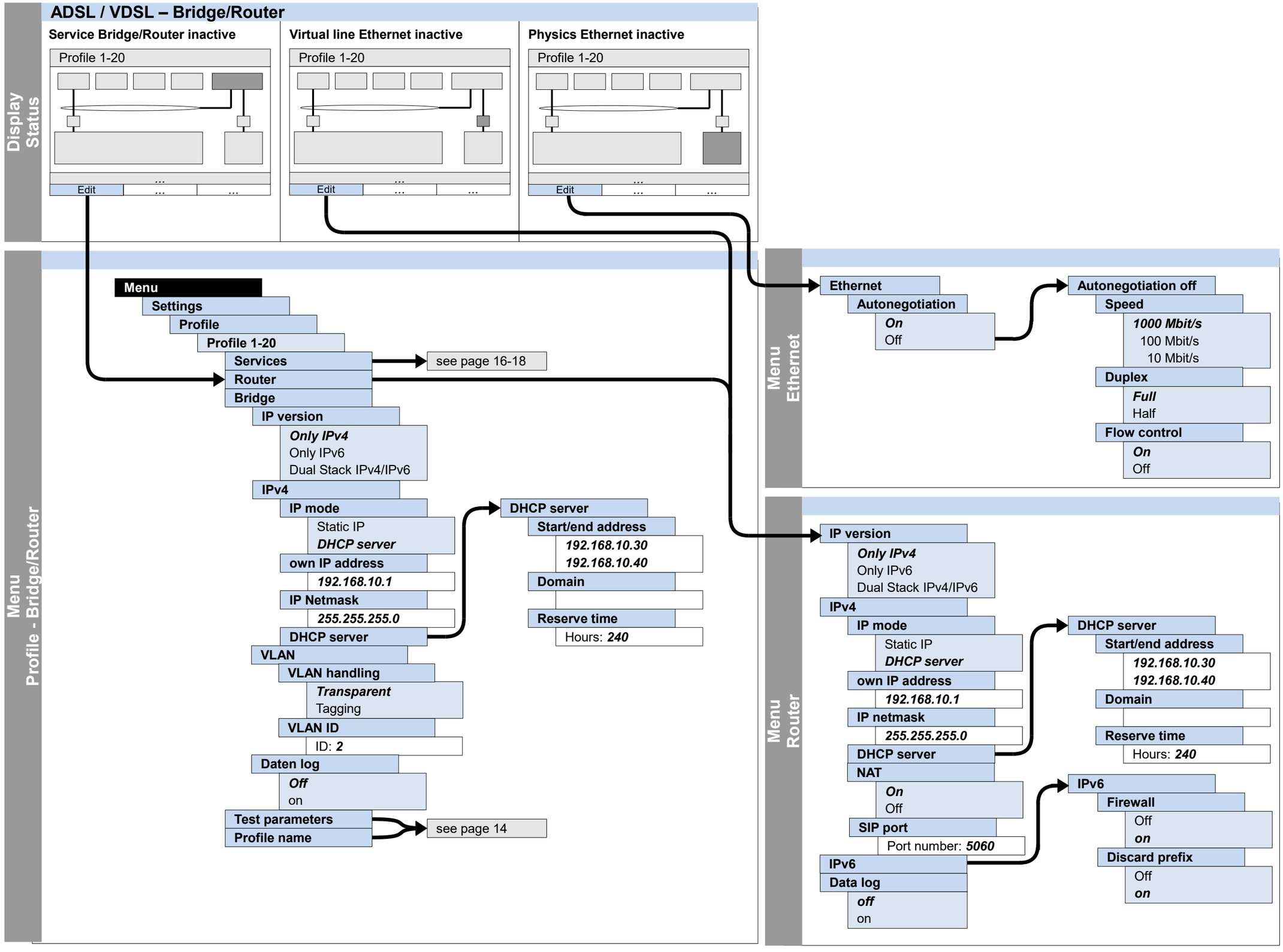
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Settings
Profile – Bridge/Router (Ethernet, Virtual line, Router)

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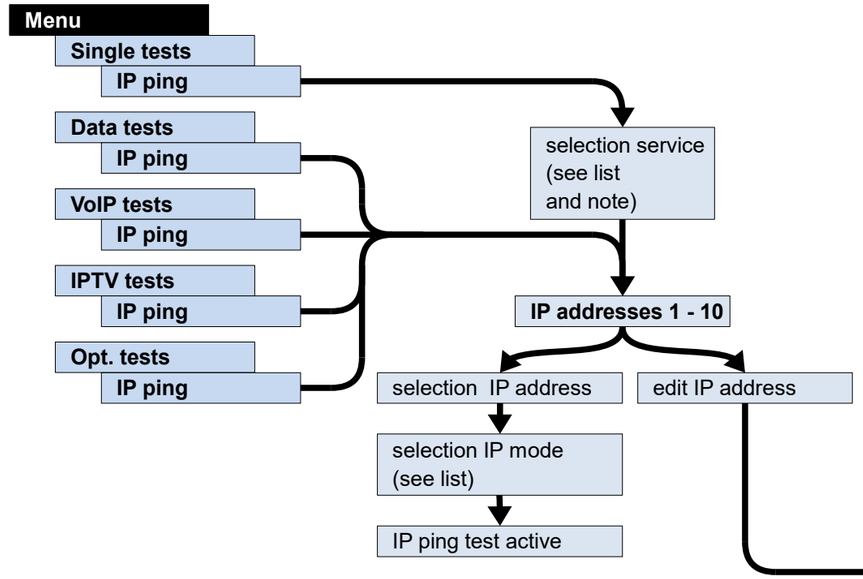


Cross reference:

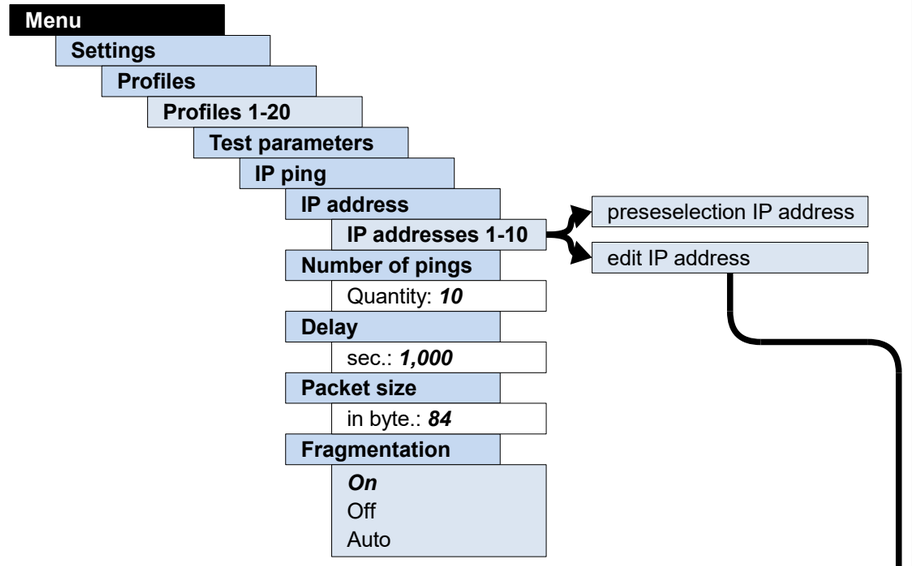
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IP ping Test operation

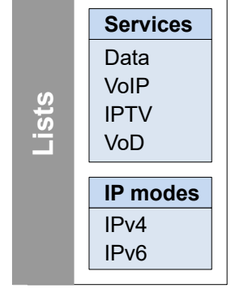
ADSL / VDSL / Ethernet / LTE



IP ping Test configuration

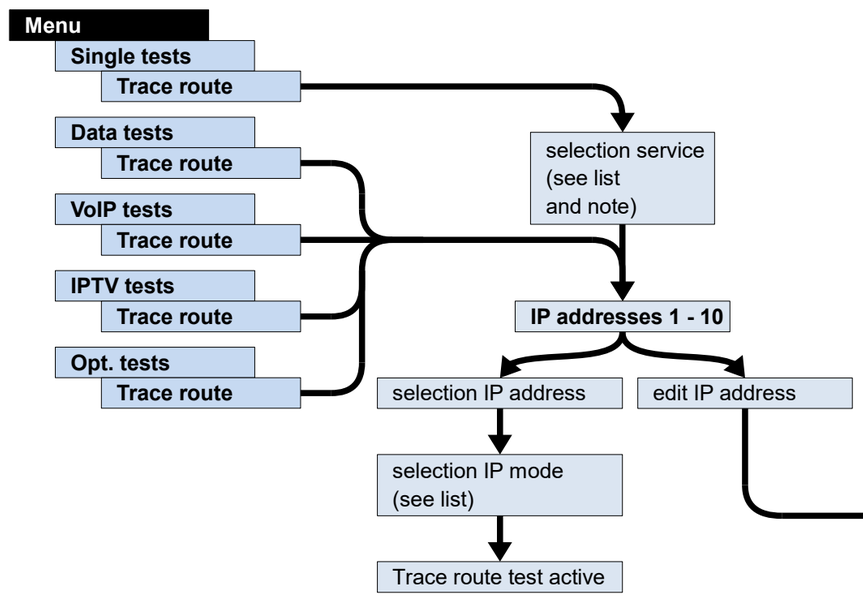


Lists

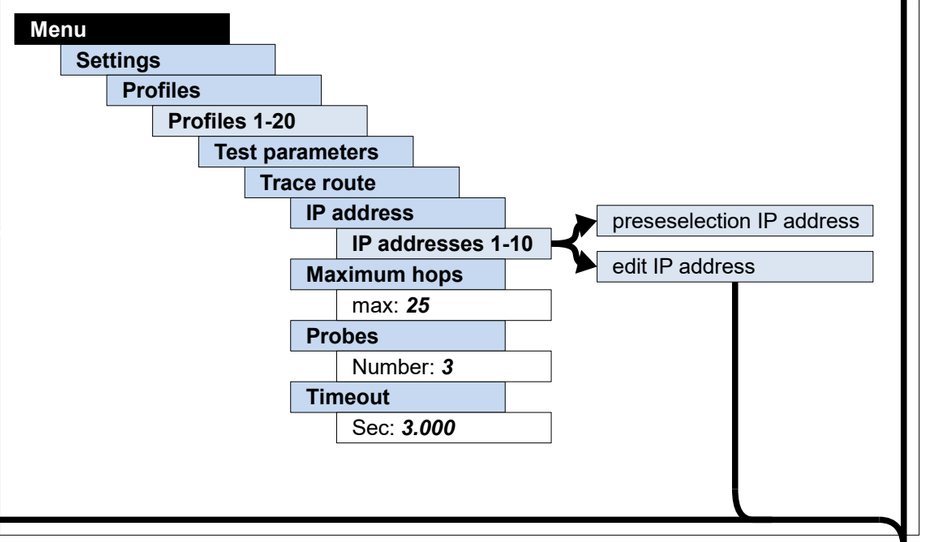


Trace route Test operation

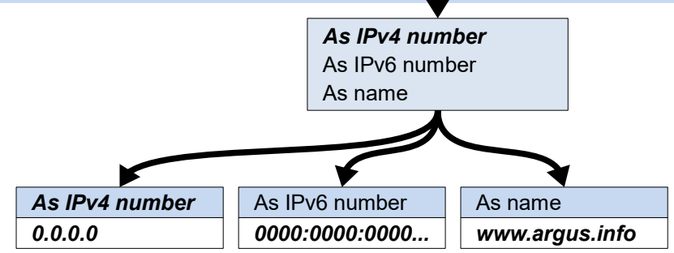
ADSL / VDSL / Ethernet / LTE



Trace route Test configuration



Menu IP address



Note

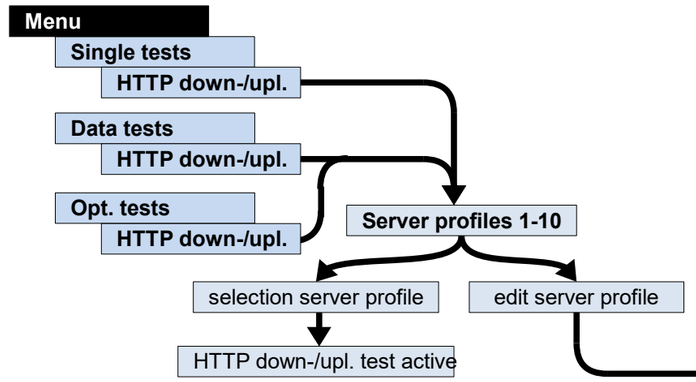
The number of services may vary depending on the configuration of the Data, VoIP, IPTV, VoD services. If a single service has been configured, the selection will be skipped.

Cross reference:

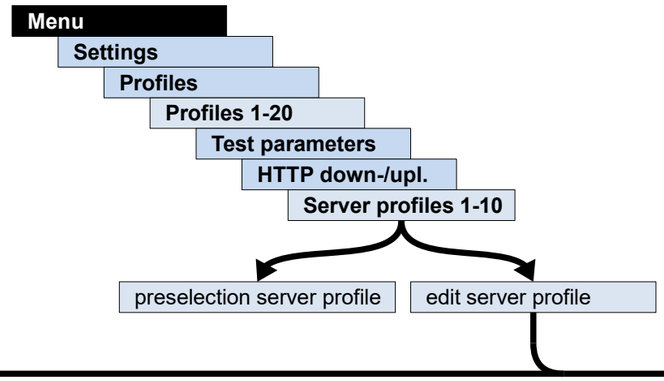
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HTTP download/-upload Test operation

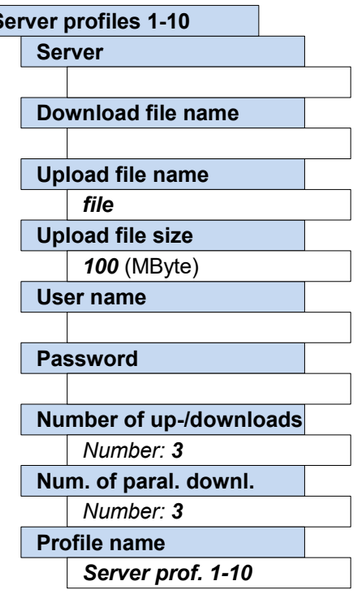
ADSL / VDSL / Ethernet / LTE



HTTP download/-upload Test configuration

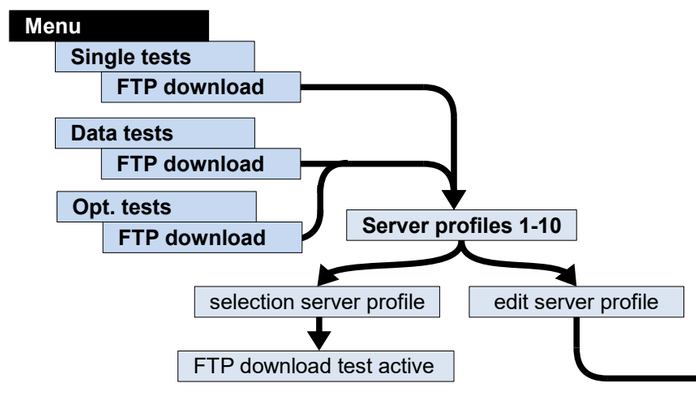


Menu Server profile

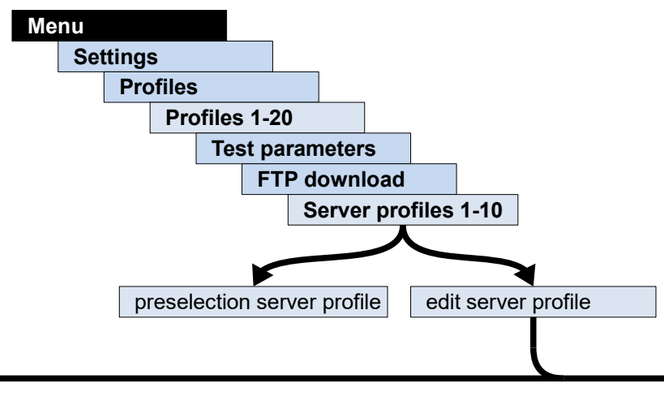


FTP download Test operation

ADSL / VDSL / Ethernet / LTE

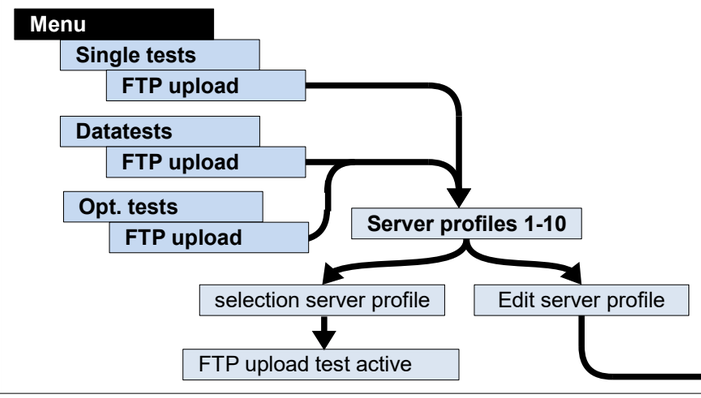


FTP download Test configuration

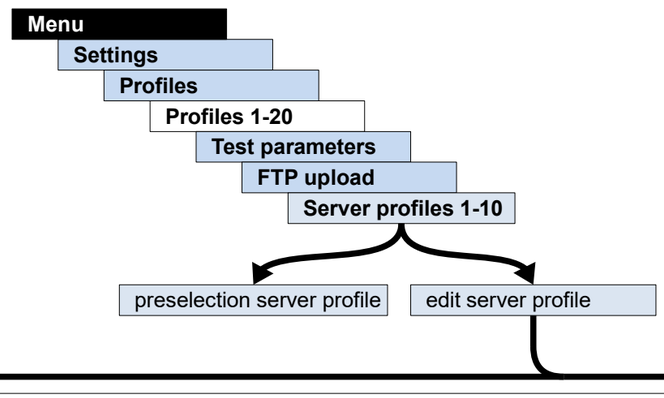


FTP upload Test operation

ADSL / VDSL / LTE

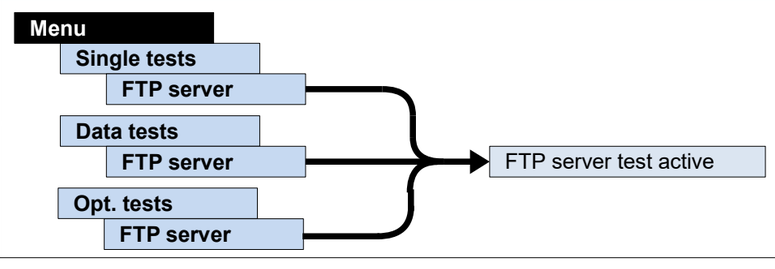


FTP upload Test configuration



FTP server Test operation

ADSL / VDSL / Ethernet



Note

A test configuration of the FTP server is not necassary.

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xDSL / Eternet / LTE

Text browser Test operation

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

Text browser Test configuration

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

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

Ethernet

Network scan Test operation

- Menu
  - Single tests
    - Network scan
  - Data tests
    - Network scan
  - Opt. tests
    - Network scan

Network scan active

Network scan Test configuration

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

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Others	**page**
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Test leads	33-34

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**

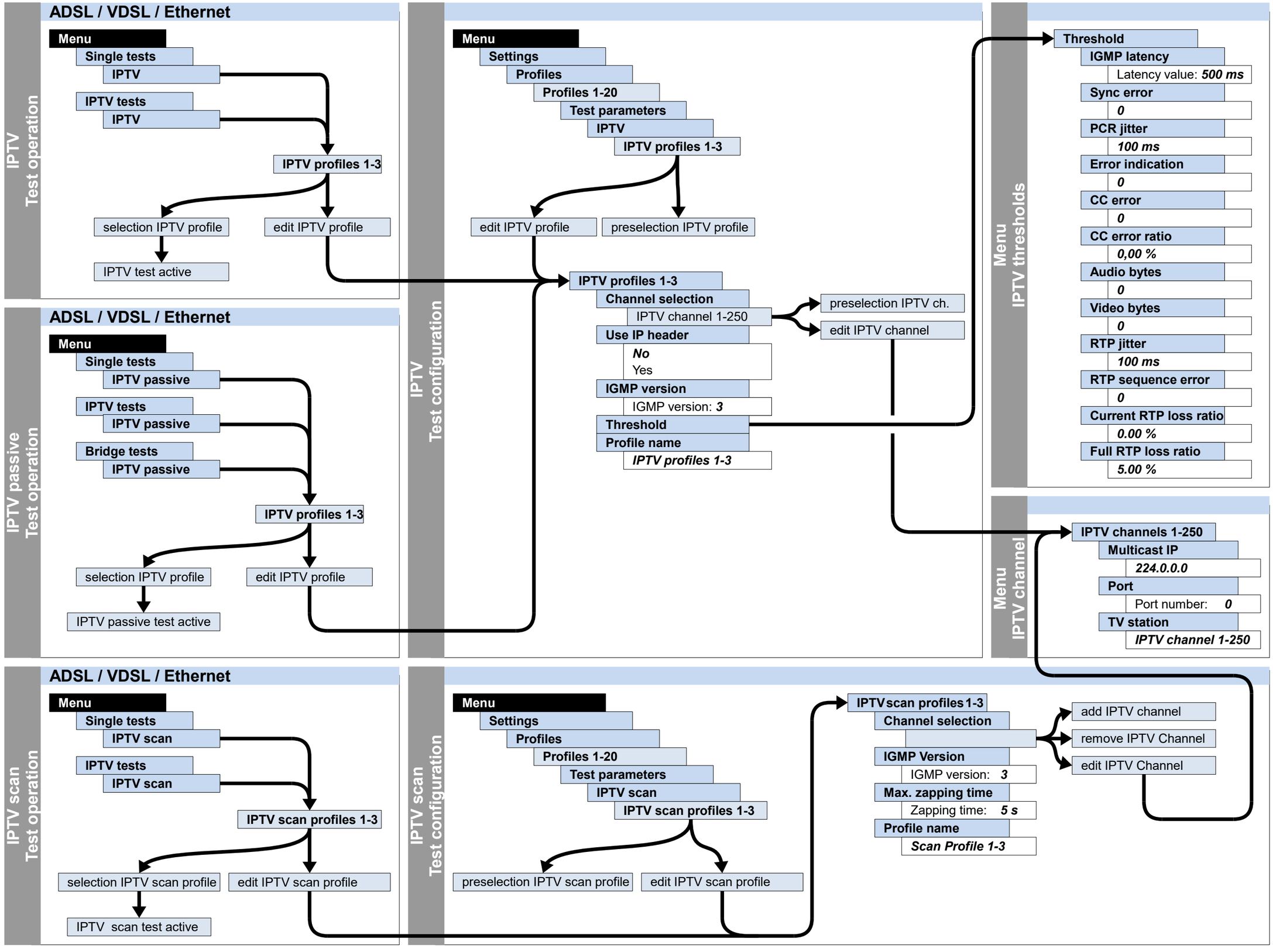
→ ATM OAM ping test active

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***

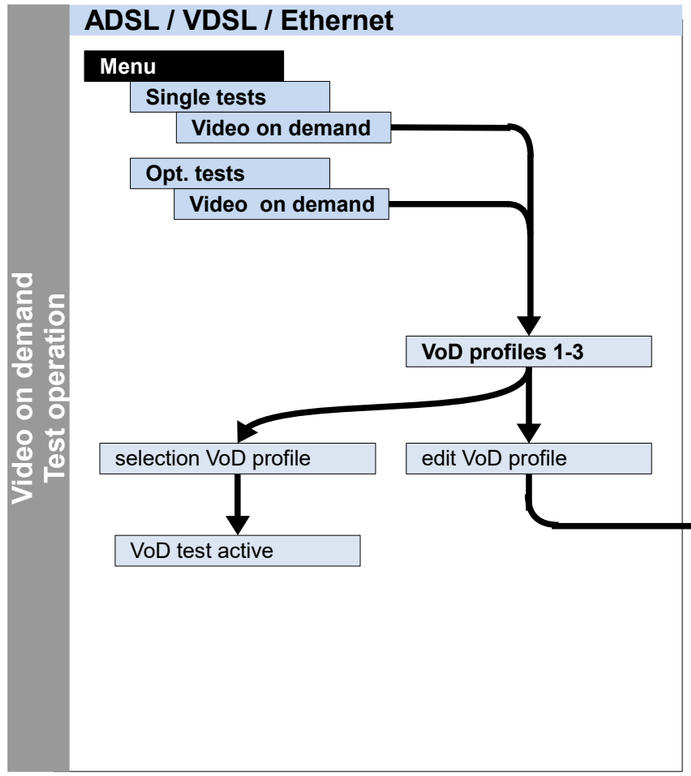
Cross reference:

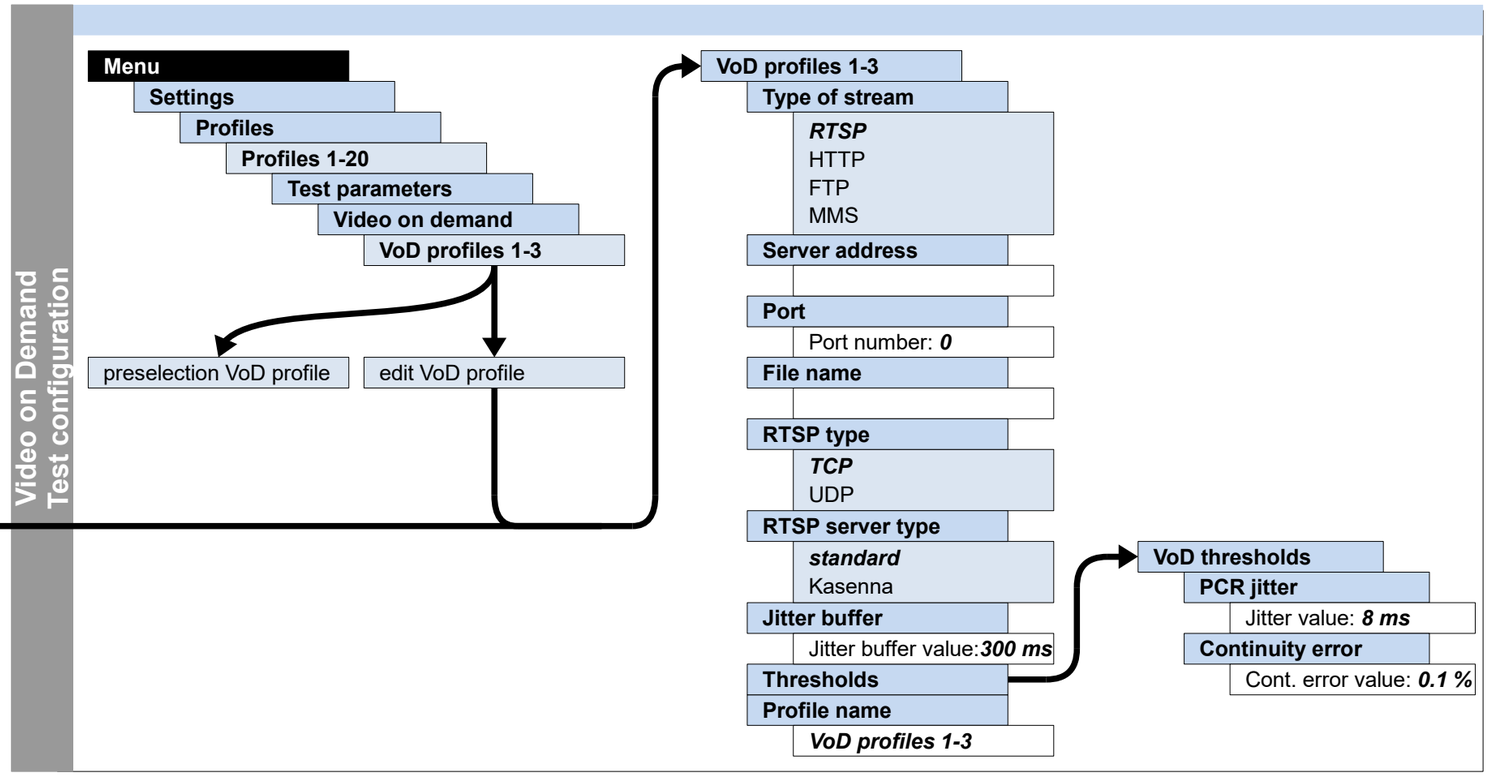
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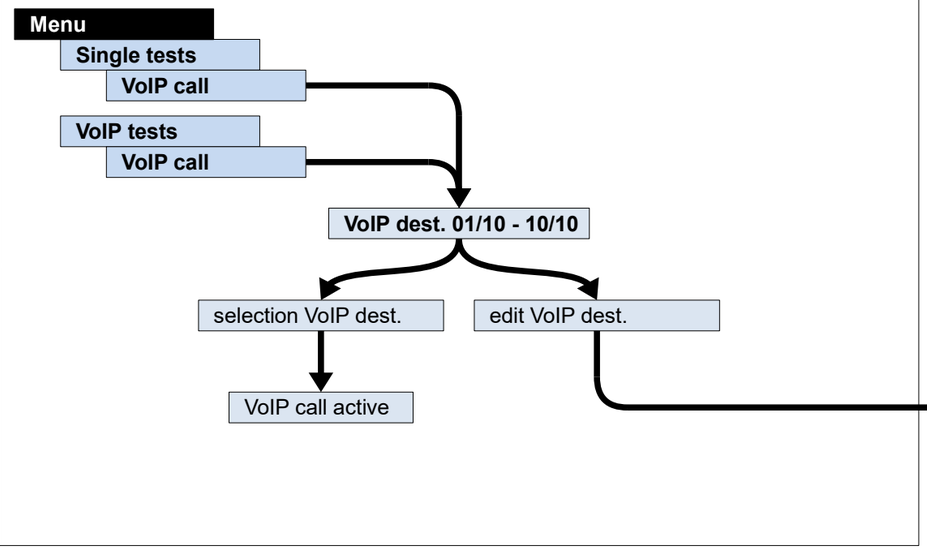


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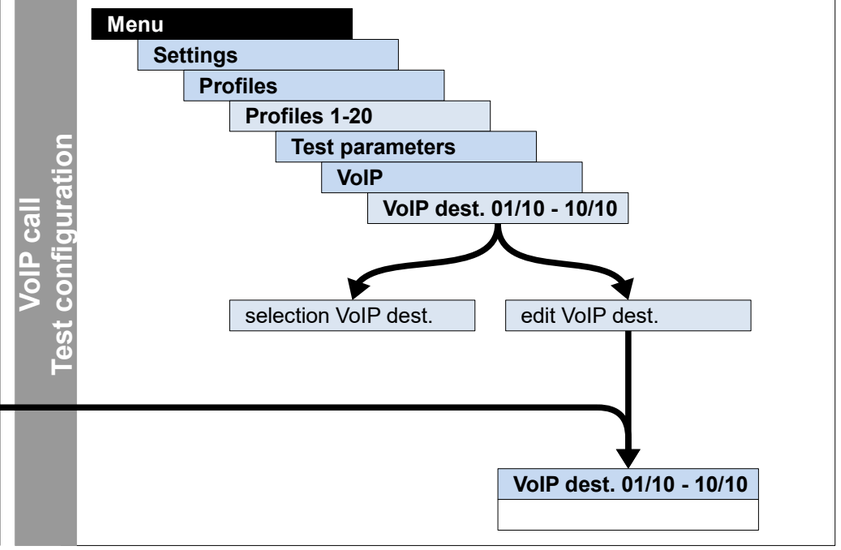
VoIP call Test operation

ADSL / VDSL / Ethernet



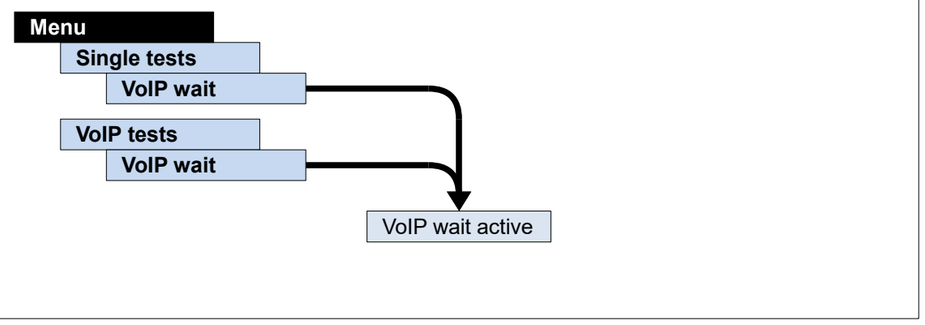
VoIP call Test configuration

ADSL / VDSL / Ethernet



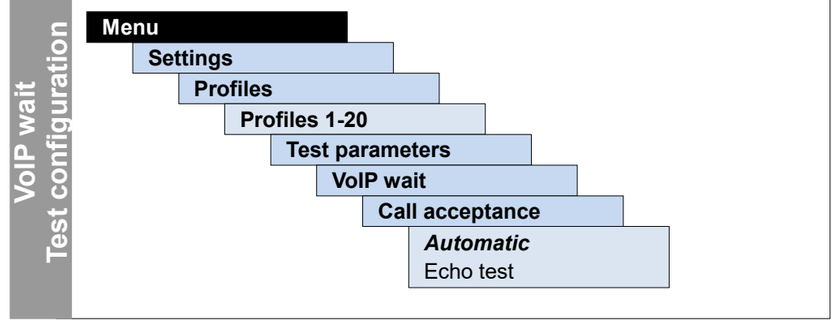
VoIP wait Test operation

ADSL / VDSL / Ethernet



VoIP wait Test configuration

ADSL / VDSL / Ethernet



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Ethernet

Loop
Test operation

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

→ Loop active

Loop
Test configuration

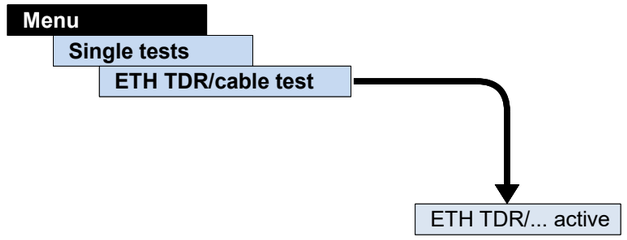
- **Menu**
  - **Settings**
    - **Profiles**
      - **Profiles 1-20**
        - **Test parameters**
          - **Loop**
            - **Layer 1**
            - **Layer 2**
              - **MAC mode**
                - ***Only own MAC***
                  Loop everything
              - **Own VPI/VCI**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

Cross reference:

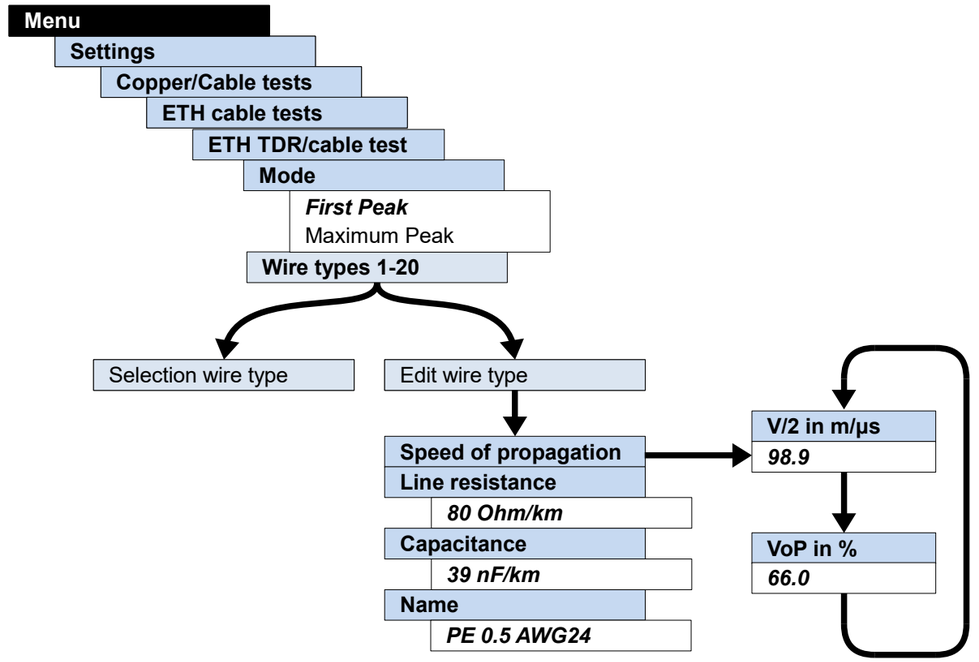
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ETH TDR/Cable tests
Test operation

Ethernet cable tests

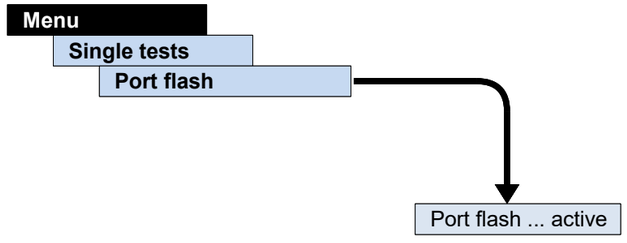


ETH TDR/Cable tests
Test configuration

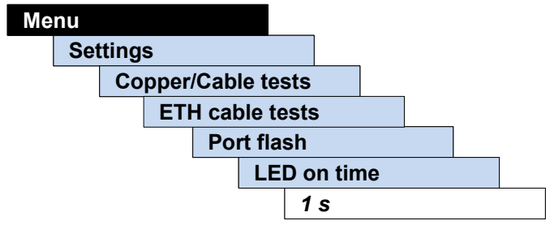


Port flash
Test operation

Ethernet cable tests



Port flash
Test configuration



Note

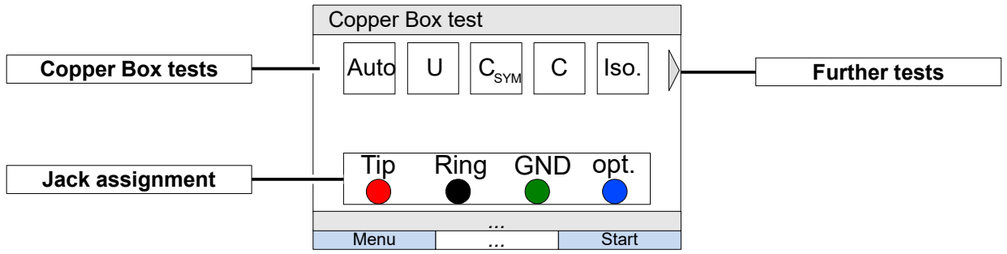
The wire type settings are the same settings which are used for the copper tests.

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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.

Cross reference:

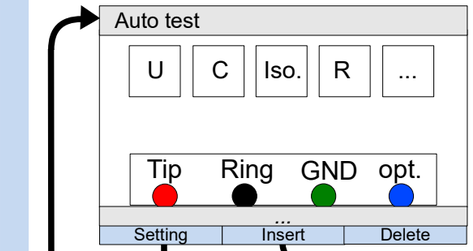
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Copper Box

Copper Box Test operation

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

→ Copper Box active



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 31
*4 **Susceptibility**
Robust for ext. voltage
Insecure (fast)
*5 **Display mode**
Normal display mode
Min/Max display mode
*8 **Input resistance**
High-resistance
Low-resist. (200 kΩ load)
Remote kit command → See command
Remote kit
*5 **Information bell**
Off
on

Auto test profiles
Auto test
Auto test sequence
Notice
Profile name
Auto test

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

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

Copper Box Test configuration

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

Note

*1 = Autotest
*2 = Iso.
*3 = Auto test, CSym, C, RSym, R
*4 = CSym, C, Iso., RSym, R,
*5 = U, C, Iso., R, I=, LCL, NEXT
*6 = RSym, R
*7 = Rem.
*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
Line resistance
80 Ohm/km
Capacitance
39 nF/km
Name
PE 0.5 AWG24
V/2 in m/µs
VoP in %
66.0

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

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Line scope
Test operation

Copper tests

Menu
Single tests
Line scope
Line scope active

TDR
Test operation

Copper tests

Menu
Single tests
TDR
TDR active

TDR
Test configuration

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

Selection wire type

Edit wire type

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

V/2 in m/µs
98.9

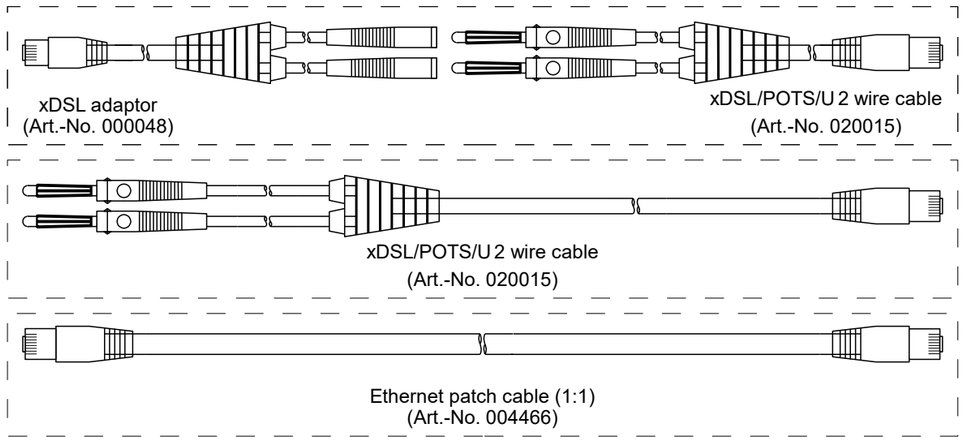
VoP in %
66.0

Test leads and pin assignments
ADSL, VDSL, Ethernet

Cross reference:

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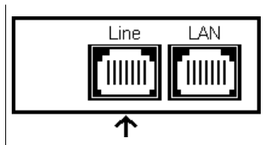
ADSL / VDSL



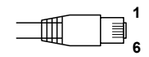
RJ11	Ban.	RJ45
3	rd	4
4	blk	5

Ban.	RJ45
rd	4
blk	5

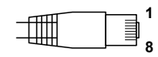
RJ45	RJ45
1-8	1-8



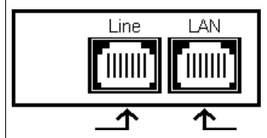
RJ11



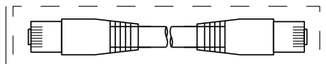
RJ45



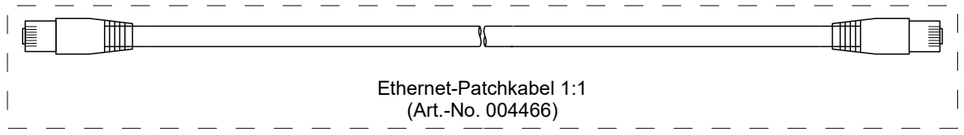
ADSL / VDSL – Bridge / Router



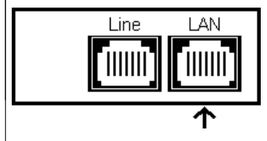
RJ45	RJ45
1-8	1-8



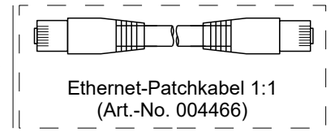
Ethernet



RJ45	RJ45
1-8	1-8



RJ45	RJ45
1-8	1-8

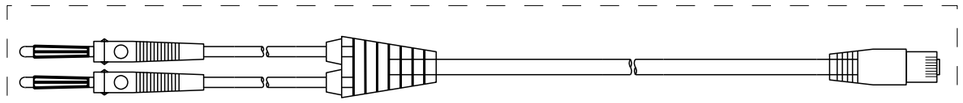


Test leads and pin assignments
Copper tests

Cross reference:

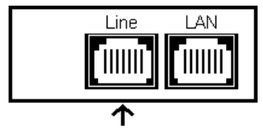
Menu	page
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Battery (status,...)	8
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VPI/VCI scan ATM OAM ping	23
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Others	**page**
Legend Protocol-overview	3
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Test leads	33-34

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



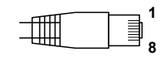
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020015)

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

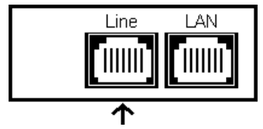


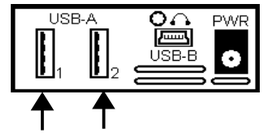
Copper tests: Line scope



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.

Notes

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GESELLSCHAFT FÜR
INFORMATIONSTECHNIK mbH

Rahmedestraße 90
58507 Lüdenscheid

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