

G.fast
VDSL
ADSL
GigE
LTE
Cu
TDR
Copper Box
Data 101101011011
IP TV
Vo IP
USB
PC
WLAN

ARGUS® 153

» Overview of menu and test leads

valid from firmware version R1.01.00

intec
GESELLSCHAFT FÜR
INFORMATIONSTECHNIK mbH

Legend, Status, Protocol overview

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

Legend General

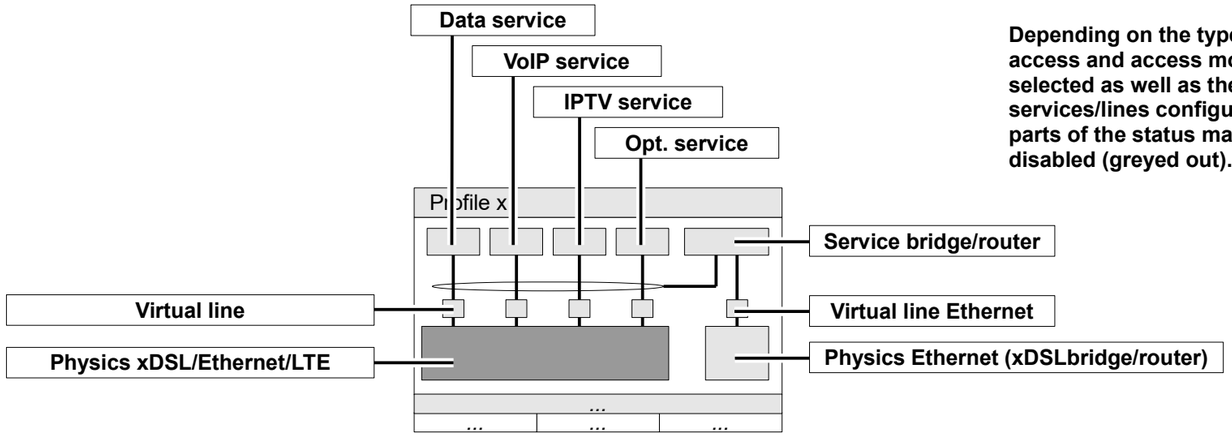
Menu
Configuration menu
Defaul Config.menu
Input menu
Default input menu

Depending on the specified interface, menu item will be shown

Menu item only matters for specified interface

Legend Status

ADSL / VDSL / G.fast / 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 / G.fast / Ethernet / LTE

Access			ADSL					VDSL / G.fast					ETH	LTE
Mode			ATU-R	ATU-R bridge		ATU-R router		VTU-R / FTU-R	VTU-R bridge FTU-R bridge		VTU-R router FTU-R router			
Socket			Line	Line	LAN	Line	LAN	Line	Line	LAN	Line	LAN	LAN	USB
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 20)
a – Protocol set automatically

Note

The ARGUS® *153* VDSL basic package includes a variety of functions and tests. 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	page
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Access wizard	7
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Menu Hotkeys

ADSL / VDSL / G.fast / Ethernet / LTE

Key	ADSL	G.fast / 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 *1			
✳ 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 / G.fast / xDSL trace

Key	ADSL / VDSL / G.fast	XDSL trace
0		
1	-	Legend
2	Zoom	-
3		
4	-	
5	-	
6	-	
7	-	
8	-	
9	Setting of x-axis	-
0	min / max	-
#	-	
✓	Continue	-
⎍	-	
✳ then 0	-	
✳ then 7	Store	-

Test hotkeys

Copper tests

Taste	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	FFT	-
0	Peak hold (min/max)		-
#	100 Ohm Input resistance		-
✓	-	-	-
⎍	Run/Hold		
✳ then 0	Reference curve		
✳ then 7	Store		

User info / Inventory number

ARGUS info

*1

ARGUS info

Type: ARGUS153
SW: …
Date: …
Loader: …
Ser.No. …
...

... | User info | ... | ...

User info

... | Inv.: | *Delete* | *12>ab*

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Single tests

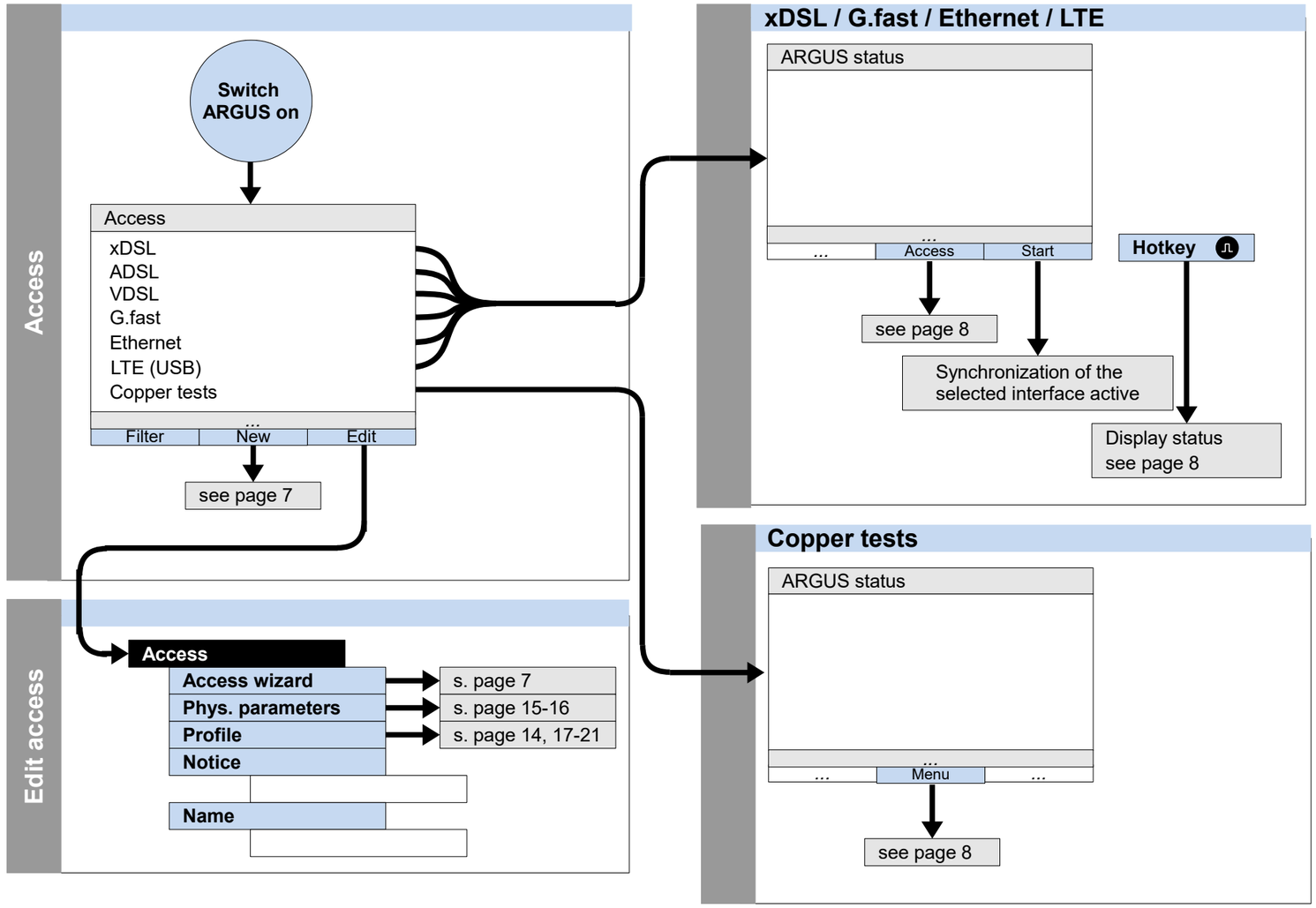
ADSL / VDSL / G.fast / Ethernet / LTE / Copper tests

	ADSL / VDSL / G.fast	ADSL - / VDSL- / G.fast- bridge	ADSL-/ VDSL- / G.fast- router	Ethernet IP based	Ethernet cable test	LTE	Copper tests
IP ping	x	-	x	x	-	x	-
Traceroute	x	-	x	x	-	x	-
HTTP downl./upl.	x	-	x	x	-	x	-
FTP downl. /upl.	x	-	x	x	-	x	-
FTP server	x	-	x	**x**	-	-	-
Textbrowser	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/ call generator / 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	-	-	-
Port flash	-	-	-	-	x	-	-
Copper Box	x	x	x	-	-	-	x

Switch on and access menu

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Menu	page
Access	6
Access wizard	7
Main menu	8, 12
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Test results	8
Status	8
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Test leads	34-35

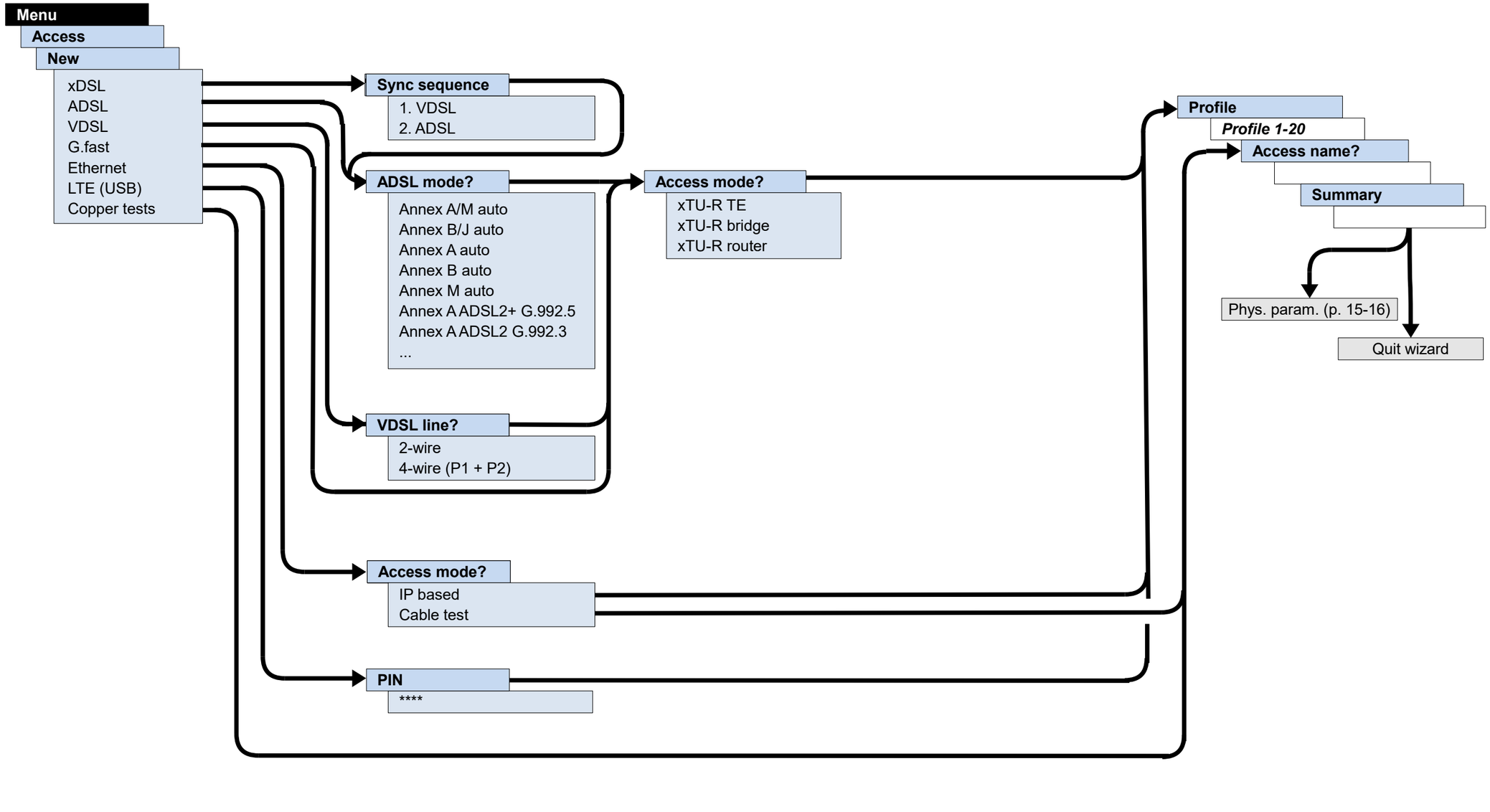


Access wizard

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Access	6
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Main menu	8, 12
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Access wizard



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

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Copper Box	31-32
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Hotkeys	4
Test leads	34-35

Main menu

xDSL / G.fast / ETH / LTE / Copper tests

- **Menu**
  - **Single tests** → see page 11
  - *1 **Auto test** → see page 10
  - *1 **Test status**
  - **Test results**
  - **Status**
  - **Access** → see page 6
  - **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 12-21
  - **Battery (status,...)**
    - **Status** → Display Battery status
    - **Automatic char.**: Off / ***on***
  - **Help**
    - **Hotkeys** → see table page 4

Menu Test results

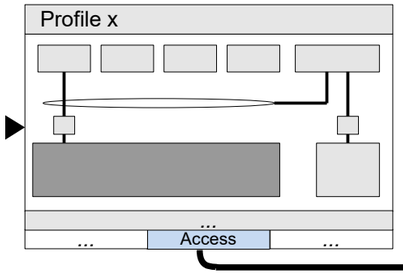
xDSL / G.fast / ETH / LTE / Copper tests

- **Test results**
  - Select test results
    - **Display result** → Display test results
    - **Rename** → Test results rename
    - **Send report to PC** → Send report to PC
    - **Upload (FTP)**
      - Test result is uploaded
    - **Delete** → Delete report

Display Status

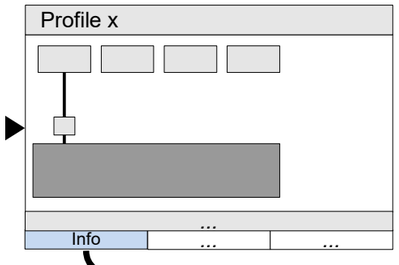
xDSL / G.fast / ETH / LTE

General



→ see page 7

Physics xDSL / G.fast / Ethernet / LTE active



Hotkey

Display physical access results and the xDSL trace

Menu Single tests

xDSL / G.fast / ETH / LTE / Copper tests

- **Single tests**
  - **Copper Box** → see page 31-32
  - **IP ping** → see page 22
  - **Trace route**
  - **HTTP download**
  - **HTTP upl. (BRITT)**
  - **FTP download** → see page 23
  - **FTP upload**
  - **FTP server**
  - **Text browser** → see page 24
  - **Network scan**
  - **VPI/VCI scan** → see page 25
  - **ATM OAM ping**
  - **VoIP call**
  - **VoIP call generator** → see page 28
  - **VoIP wait**
  - **IPTV**
  - **IPTV scan** → see page 26
  - **IPTV passive**
  - **Video on Demand** → see page 27
  - **LTE scan** → LTE scan is active
  - **Loop** → see page 29
  - **Port flash** → see page 30
  - *3 **Copper Box** → see page 31-32
  - *3 **Line scope**
  - *3 **TDR** → see page 33

Note

- *1 = ADSL, VDSL, G.fast, Ethernet
- *2 = not for Copper tests
- *3 = Copper tests

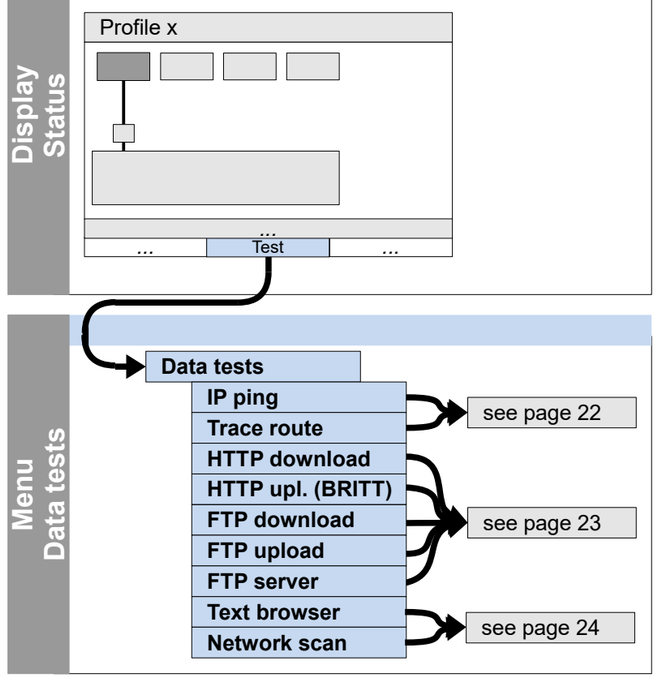
Service tests: Data tests, VoIP tests, IPTV tests, Opt. tests, Bridge tests, Physic tests (Access: ADSL, VDSL, G.fast, Ethernet, LTE)

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
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Help	8, 12
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Hotkeys	4
Test leads	34-35

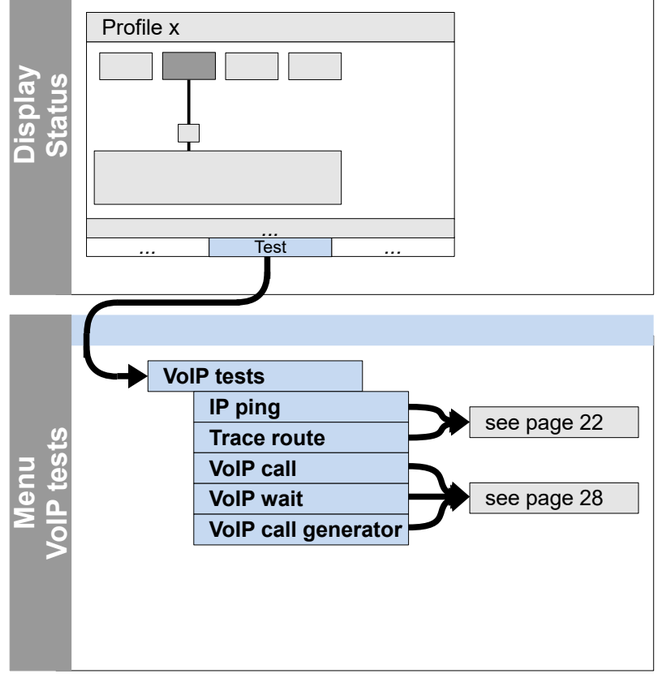
xDSL / G.fast / Ethernet / LTE

Service active



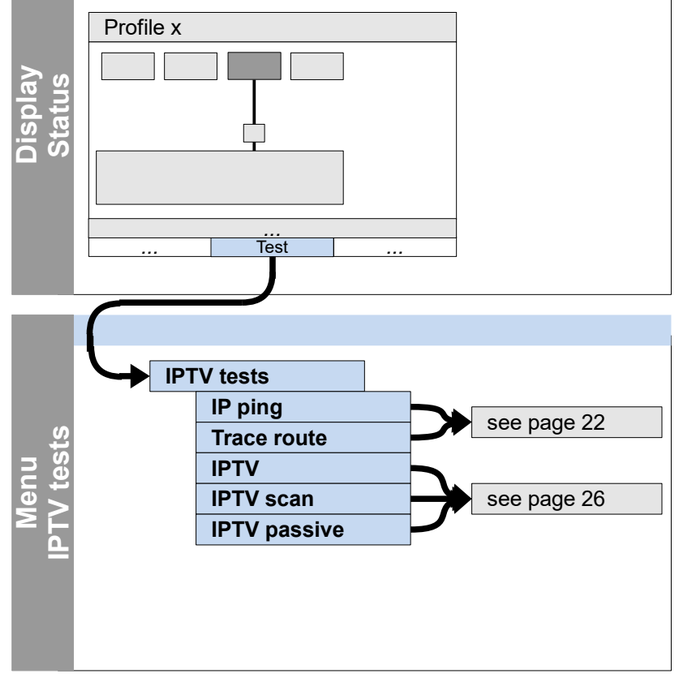
xDSL / G.fast / Ethernet

Service active



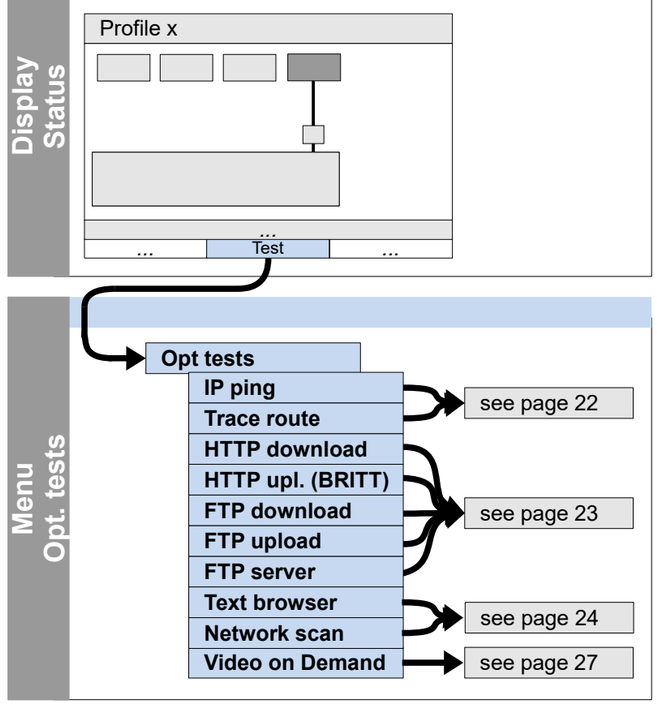
xDSL / Ethernet

Service active



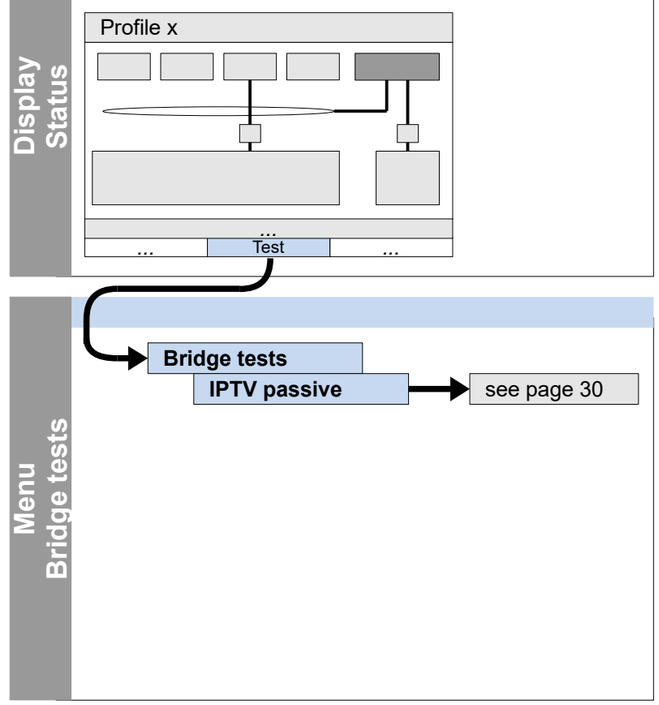
xDSL / G.fast / Ethernet

Service active



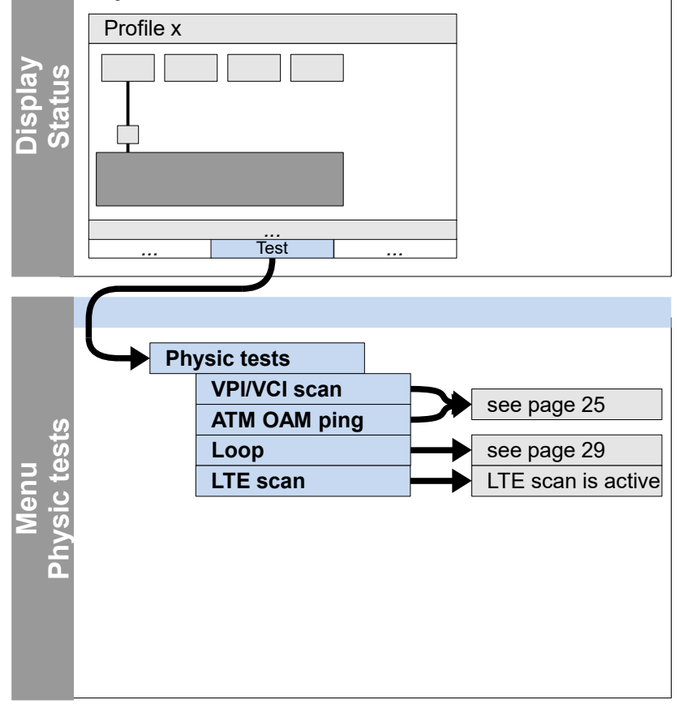
ADSL / VDSL / G.fast - Bridge

Service active



ADSL / Ethernet / LTE

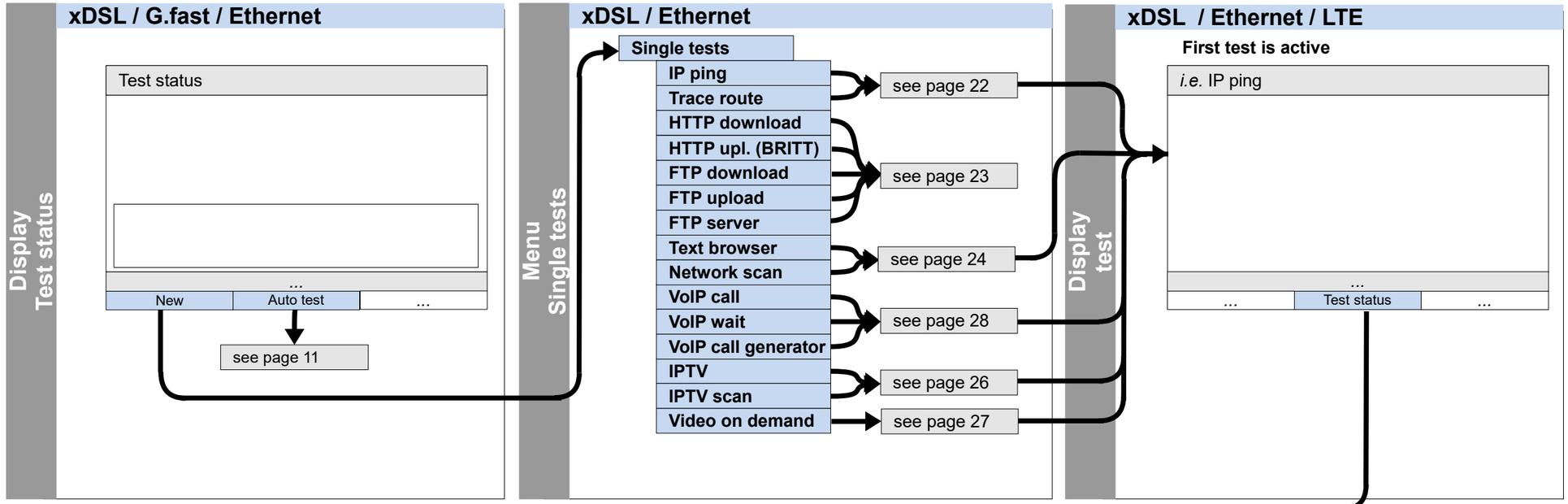
Physics xDSL/Ethernet active, Services inactive



Service tests: Parallel tests
Test status

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
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IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
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Textbrowser	24
Loop	29
ETH cable tests	30
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Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35



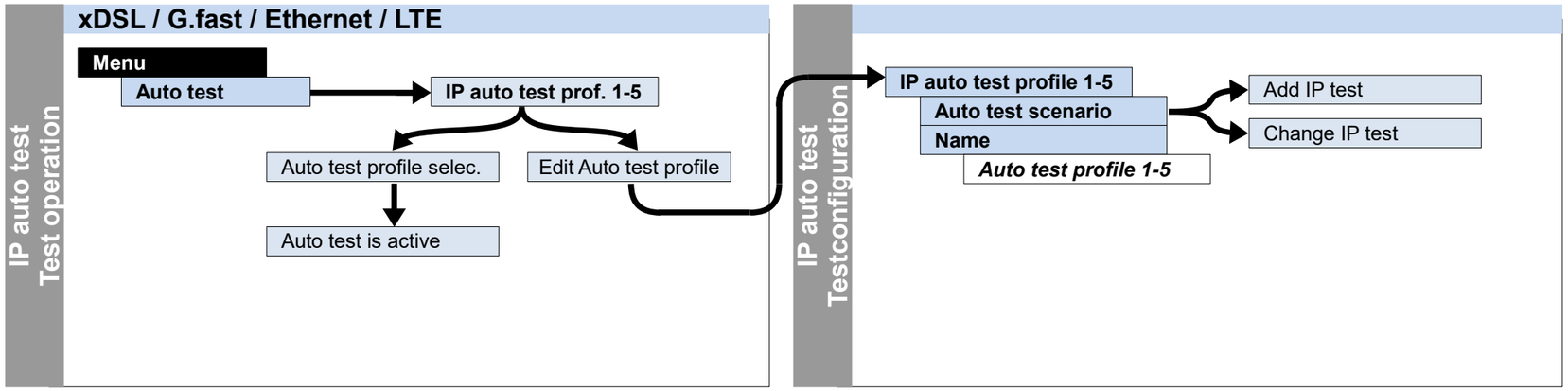
Note

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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Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
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Settings	12-21
Device, Rem. acce.	13
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Battery (status,...)	8
Help	8, 12
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VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
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Other tests	**page**
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Loop	29
ETH cable tests	30
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Hotkeys	4
Test leads	34-35



Settings and reset
Backup/Restore, Cloud services

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Menu	page
Access	6
Access wizard	7
Main menu	8, 12
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Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

Menu Settings

- **Menu**
  - **Settings**
    - **Profiles** → see page 17-21
    - **Copper/Cable tests** → see page 30, 33
    - **Cloud services**
    - **Remote access** → see page 13
    - **Device**
    - **Company address**
      - **Company name**
      - **Street**
      - **ZIP/City**
      - **Phone number**
    - **Backup/Restore**
      - **Back up configuration**
        - Save current configuration
      - **Restore configuration**
        - Restore saved configuration
      - **Factory settings**
        - Reset to factory settings
      - **Configuration import**
        - Configuration import started

Note

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

Note

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

Menu Cloud services

- **Cloud services**
  - **Firmware update**
    - **Server**
    - **Update check**
      - ***off***
      - on
      - Update
  - **Configuration import**
    - **Server**
    - **Check**
      - ***off***
      - on
      - Import
    - **Import destination**
      - Current configuration
      - Cur. & backed up config.
    - **Import**
  - **Test result upload**

Server selection

- ***Firmware***
- Configuration
- Test result

Select server

Edit server

- **Server**
  - **Use FTPS**
    - ***No***
    - Yes
  - **FTP server address**
    - *1 ***Firmware.argus.info***
  - **Username**
    - *1 ***argus***
  - **Password**
    - *1 ***update***
  - **Profilename**
    - *1 ***Firmware***
    - *2 ***Configuration***
    - *3 ***Test result***

Note

*1 = Default only for server „Firmware“

*2 = Default only for server „Configuration“

*3 = Default only for server „Test result“

Settings and reset
Remote access, Device

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

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**: ***ARGUS153_SN01234***
        - **Password**: ***argus153***
        - **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***

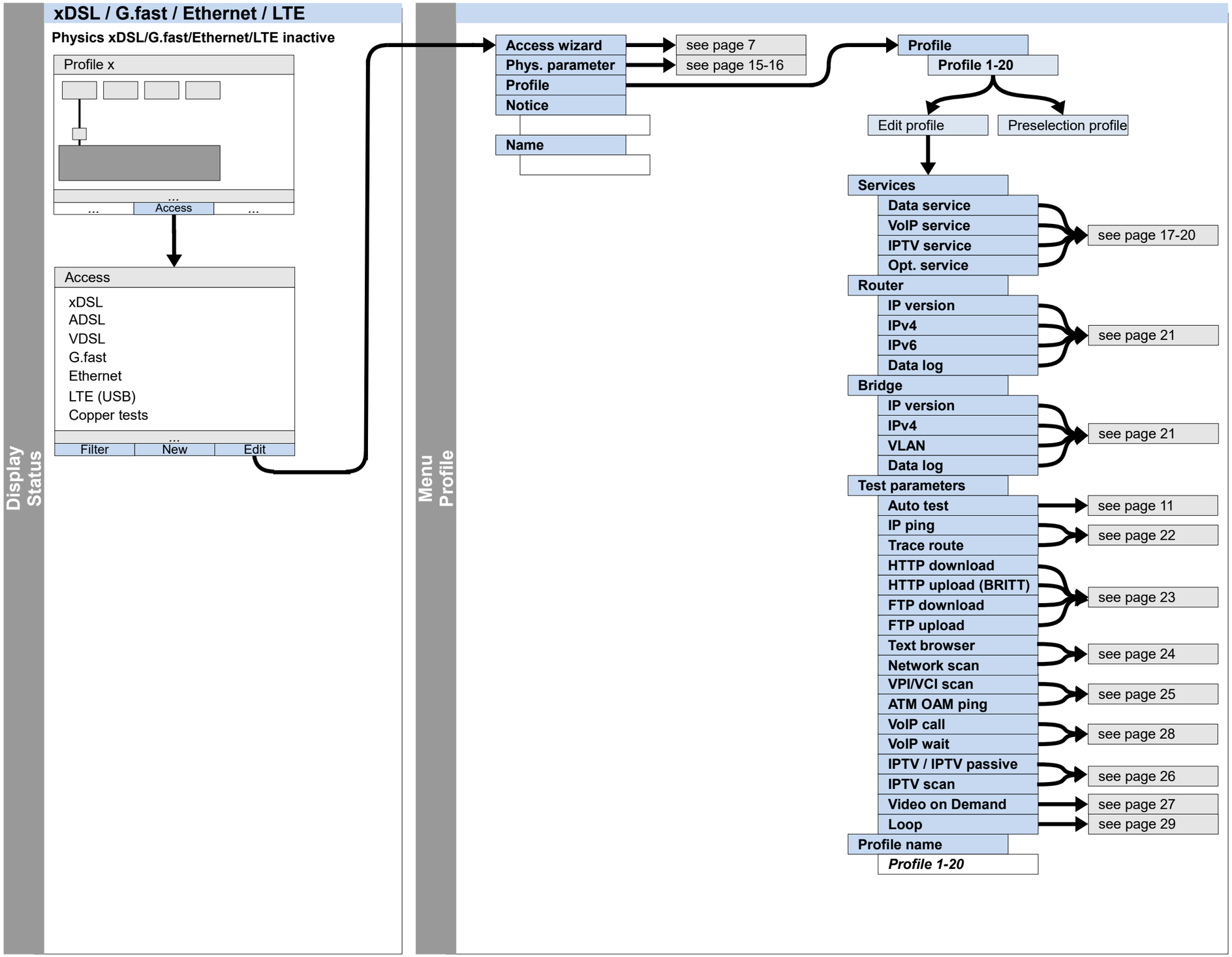
Menu Device

- **Menu**
  - **Settings**
    - **Device**
      - **Menu language** → German, ***English***, Francais
      - **LC brightness** → dark------light
      - **Date/time setting**
        - **Time offset**: ***UTC+01:00***
        - **Daylight saving time**: off, ***Central europ. (CEST)***
        - **Date/time**: Manual, ***Automatic*** → ***Date:*** / ***Time:***
      - **Ringer volume**
        - **Start volume** → ***Level 1***, ..., Level 7
        - **End volume** → Level 1, ..., ***Level 7***
      - **Alarm bell**: On, ***Off***
      - **Einschaltton**: On, ***Off***
      - **Power management**
        - **Automatic shutdown**: ***after 5 minutes***, after x minutes deactivated
        - **Lighting**: ***Off after 30 sec***, Off after x minutes
      - **Company address**
        - **Company name**
        - **Street**
        - **ZIP/City**
        - **Phone number**
      - **Software option**: Input SW option key
      - **Licenses** → Displays all the licenses available in the device
      - **As IPv4 number**: ***0.0.0.0***
      - **As name**: ***0.de.pool.ntp.org***

Settings
Profile

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35



Settings
Phys. parameters: ADSL, VDSL, G.fast, Ethernet

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
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Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

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
  - **Gratuitous ARP**: ***Off*** / On
  - **free definable**: 00 00 00 00 00 00

VDSL / G.fast

Display VDSL / G.fast Status

Physics VDSL / G.fast inactive

Profile x

... Edit ... ...

Menu VDSL / G.fast

- **VDSL / G.fast**
  - **Rated/threshold values**
    - **Bitrate**: downstream: ***0 kbit/s*** upstream: ***0 kbit/s***
    - **CRC**: far: * near: *
    - **FEC**: far: * near: *
  - *1 **Firmware**: ***A*** / B
  - *1 **Carrier Set**: ***B 43*** / ***A 43*** / ***V 43***
  - *1 **Vectoring mode**: Off / ***Full vectoring***
  - *1 **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
  - **Gratuitous ARP**: ***Off*** / On
  - **free definable**: 00 00 00 00 00 00

Ethernet

Display ETH Status

Physics Ethernet inactive

Profile x

... Edit ... ...

Menu Ethernet

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

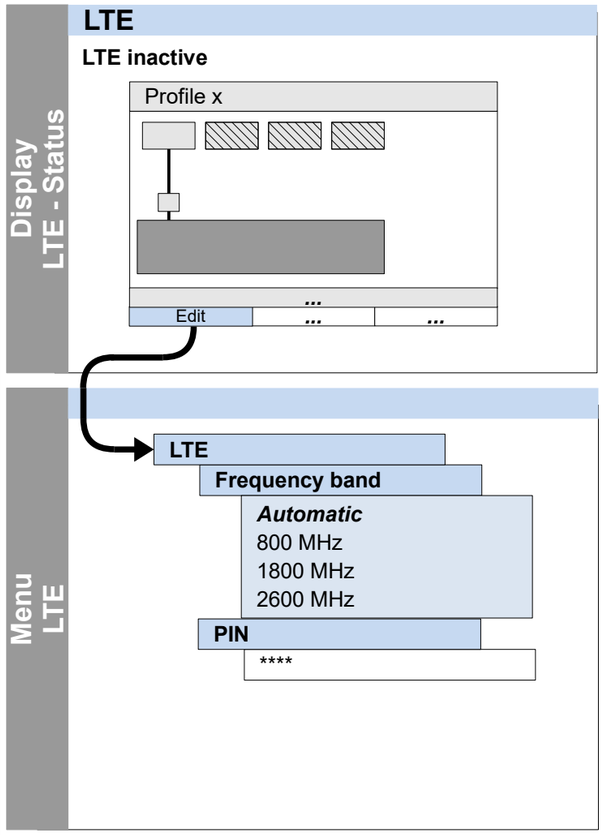
Note

*1 = only for VDSL

Settings
Phys. parameters: LTE

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

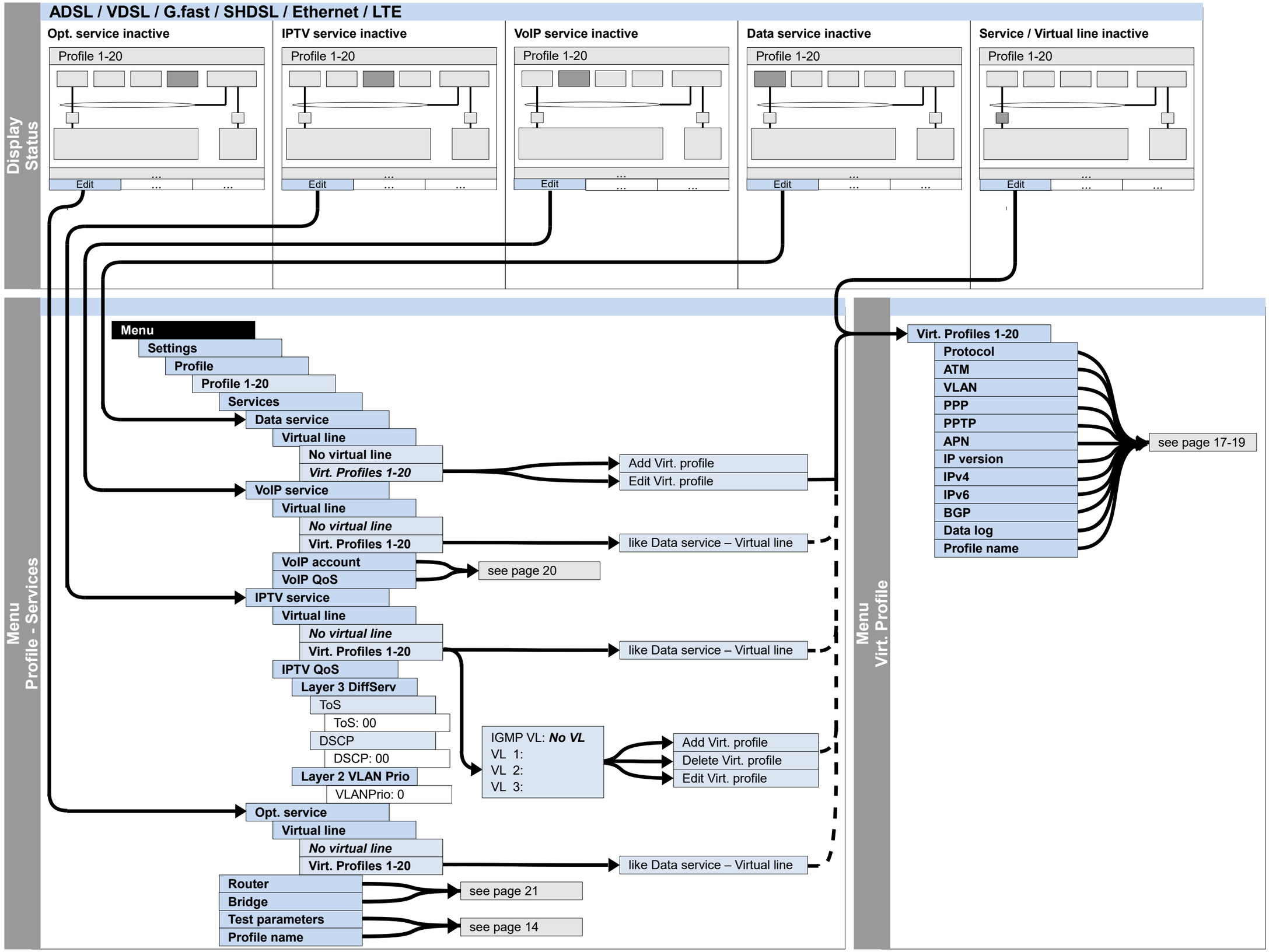


Settings

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

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35



Settings

Profiles – Virt. profile (Protocol, ATM, VLAN, PPP, PPTP, APN, Data log, Profile name)

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
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Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

Menu Profiles – Virt. profile

- Menu
  - Settings
    - Profiles
      - Profile 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, ...) / ***Yes (PPPoE, EoA)***
                - **VLAN** → Menu VLAN
                - **PPP** → Menu PPP
                - **PPTP**
                - **Server IP Adr.**: ***0.0.0.0***
                - **APN** → Menu APN
                - **IP Version**
                - **IPv4** → see page 19
                - **IPv6** → see page 19
                - **BGP** → see page 19
                - **Data log**: ***Off*** / On
                - **Profile name**: **Virt. Profil 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***
  - Presel. profile

Menu APN

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

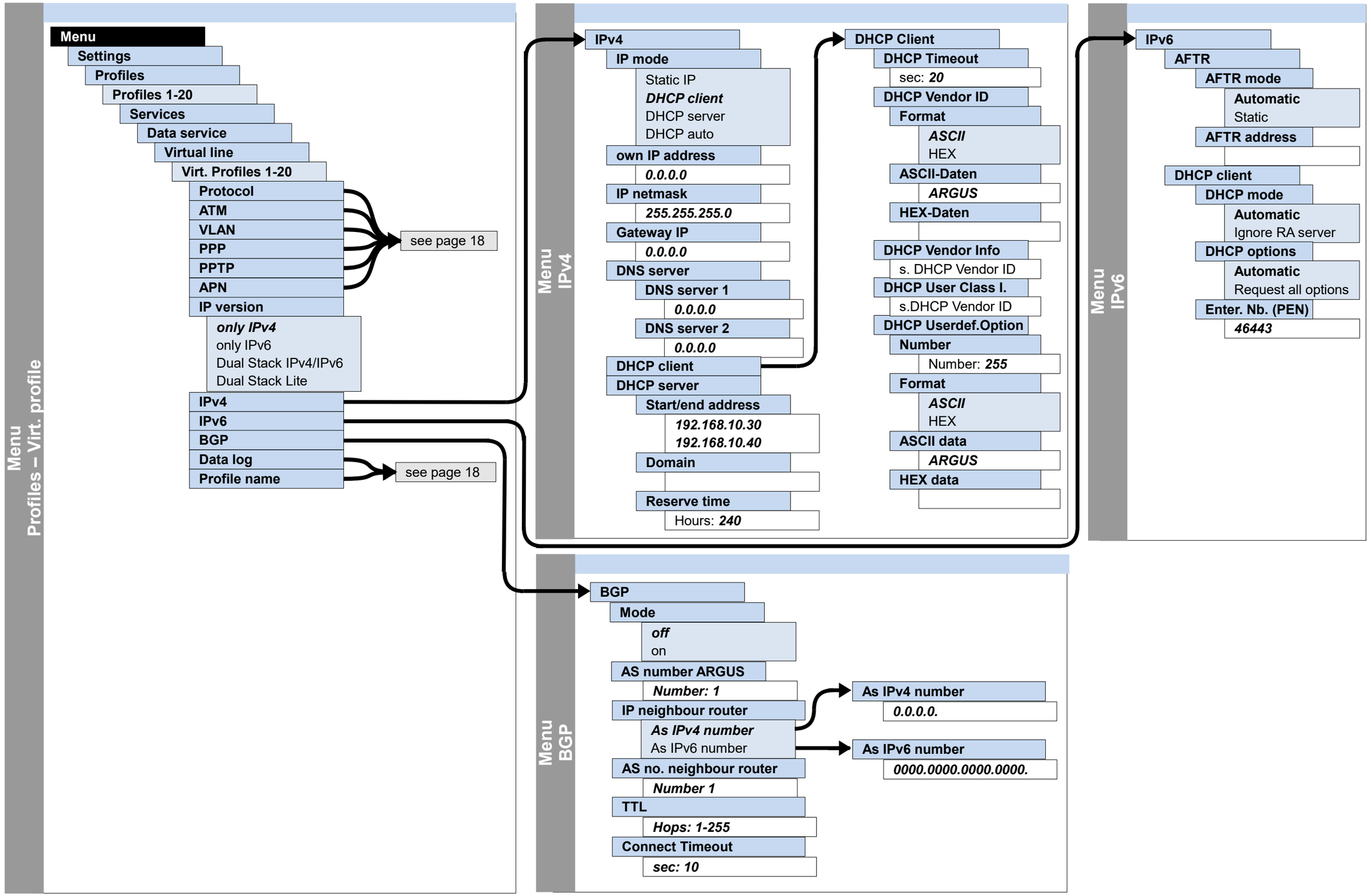
Note

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

Settings
Profiles – Virt. profile (IP version, IPv4, IPv6, BGP)

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35



Settings
Profiles – Services – VoIP service – VoIP account, VoIP QoS

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
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Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

Display Status

xDSL / G.fast / Ethernet

VoIP service inactive

Profile 1-20

Edit | ... | ...

Menu Service VoIP

Menu
Settings
Profiles
Profiles 1-20
VoIP service
Virtual line → See page 17
VoIP account
VoIP QoS

Menu VoIP profiles

VoIP account
VoIP profile 1-10
Edit VoIP profile
preselection VoIP profile
SIP settings
Phone settings
STUN server
Use STUN
no
yes
STUN server
Rated/threshold values
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 VoIP service

SIP
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.726-16
G.726-24
...
DTMF settings
Mode
Automatic
SIP info
RFC 2833
inband
Duration
Duration: *80 ms*
Rated/threshold values

adaptive
min: *60* ms
init: *60* ms
max: *120* ms
static
nominal: *60* ms
Rated/threshold values
MOS rated value
Value: *4.0*
Jitter threshold
Threshold: ** ms*
RTP loss threshold
Threshold: **.* %*

Menu SIP

SIP
User name
your VoIP number
Password
Authentication
Caller ID
Registrar server
Outbound proxy/SBC
DNS resolution
SRV Record
A/AAAA Record
SIP trunking
Transport protocol
UDP
TCP
TCP fallback
TCP/TLS
SIP Domain
Listen port
Port num.: *5060*
Remote port
Port num.: *5060*
User agent
Argus153
Qualify
no
yes
Reg. expire
Time: *3600 sec.*
Retry-After
Del. Exist. registrar

Registrar server
Use Registrar
no
yes
Registrar server
As IPv4 number
0.0.0.0
As IPv6 number
0000:0000:0000...
As name

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 num.: *5060*

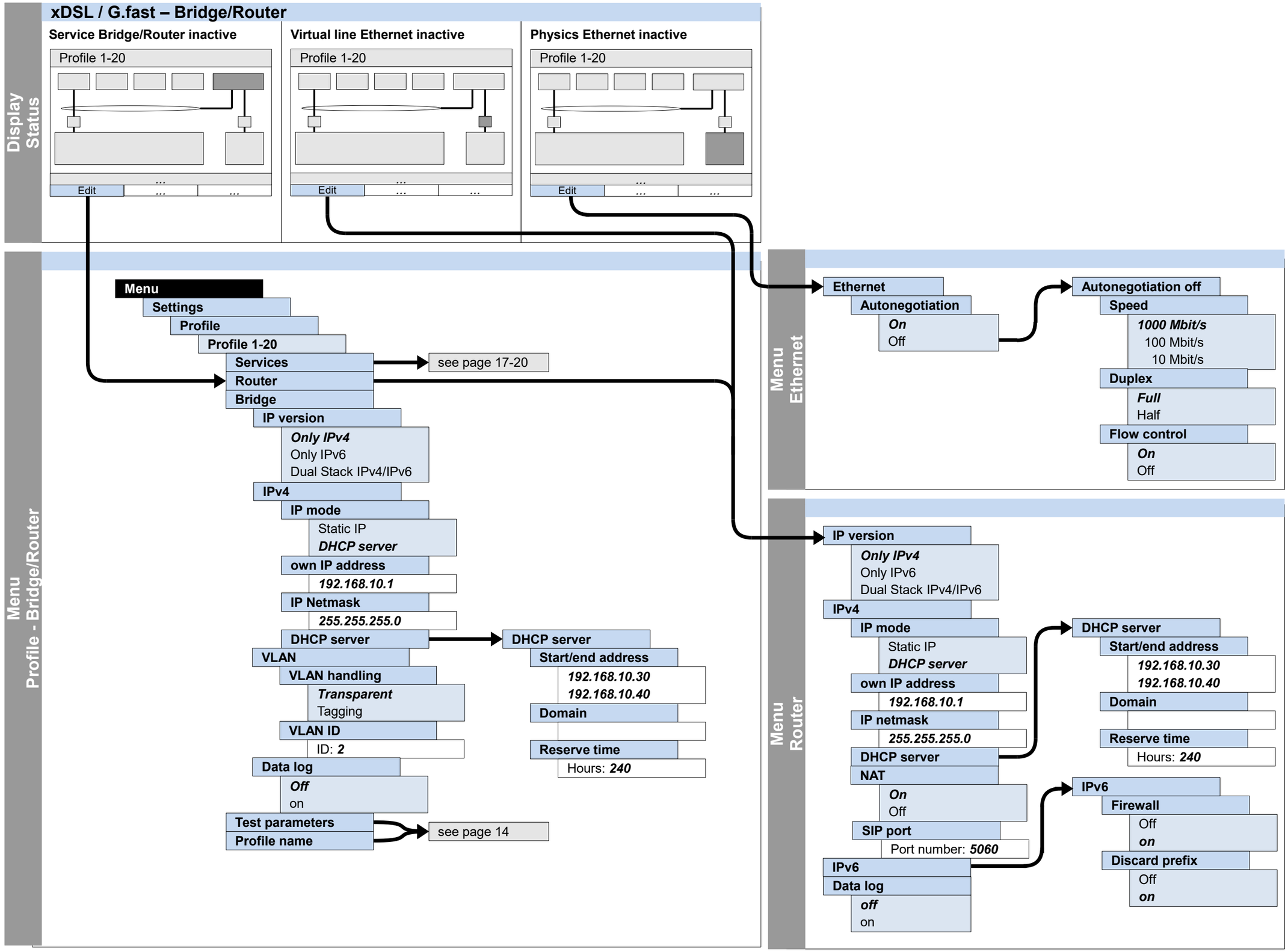
SIP trunking
Use SIP trunking
no
yes
CLIR
no
yes
Own basic number
Own extension (DDI)
0

Retry-After
standard
ignore
Del. Exist. registrar
no
yes

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

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35



Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
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Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

IP ping Test operation

ADSL / VDSL / G.fast / Ethernet / LTE

Menu
- **Single tests** → **IP ping**
- **Data tests** → **IP ping**
- **VoIP tests** → **IP ping**
- **IPTV tests** → **IP ping**
- **Opt. 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**
  - preselection 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
Opt.

IP modes
Auto
IPv4
IPv6

Trace route Test operation

ADSL / VDSL / G.fast / Ethernet / LTE

Menu
- **Single tests** → **Trace route**
- **Data tests** → **Trace route**
- **VoIP tests** → **Trace route**
- **IPTV tests** → **Trace route**
- **Opt. 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**
  - preselection 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, Opt. services. If a single service has been configured, the selection will be skipped.

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
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VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

HTTP download/-upload Test operation

ADSL / VDSL / G.fast / Ethernet / LTE

- **Menu**
- **Single tests** → **HTTP down-/upl.**
- **Data tests** → **HTTP down-/upl.**
- **Opt. tests** → **HTTP down-/upl.**
- → **Server profiles 1-10**
  - selection server profile → HTTP down-/upl. test active
  - edit server profile

HTTP download/-upload Test configuration

ADSL / VDSL / G.fast / Ethernet / LTE

- **Menu**
- **Settings**
- **Profiles**
- **Profiles 1-20**
- **Test parameters**
- **HTTP down-/upl.**
- **Server profiles 1-10**
  - preselection server profile
  - edit server profile

FTP download Test operation

ADSL / VDSL / G.fast / Ethernet / LTE

- **Menu**
- **Single tests** → **FTP download**
- **Data tests** → **FTP download**
- **Opt. tests** → **FTP download**
- → **Server profiles 1-10**
  - selection server profile → FTP download test active
  - edit server profile

FTP download Test configuration

ADSL / VDSL / G.fast / Ethernet / LTE

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

FTP upload Test operation

ADSL / VDSL / G.fast / Ethernet / LTE

- **Menu**
- **Single tests** → **FTP upload**
- **Datatests** → **FTP upload**
- **Opt. tests** → **FTP upload**
- → **Server profiles 1-10**
  - selection server profile → FTP upload test active
  - Edit server profile

FTP upload Test configuration

ADSL / VDSL / G.fast / Ethernet / LTE

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

Menu Server profile

- **Server profiles 1-10**
- **Server**
- **Download file name**
- **Upload file name**
  - *file*
- **Upload file size**
  - ***100*** (MByte)
- **User name**
- **Password**
- **Number of up-/downloads**
  - Number: ***3***
- **Num. of paral. downl.**
  - Number: ***3***
- **Profile name**
  - ***Server prof. 1-10***

FTP server Test operation

ADSL / VDSL / G.fast / Ethernet

- **Menu**
- **Single tests** → **FTP server**
- **Data tests** → **FTP server**
- **Opt. tests** → **FTP server**
- → FTP server test active

Note

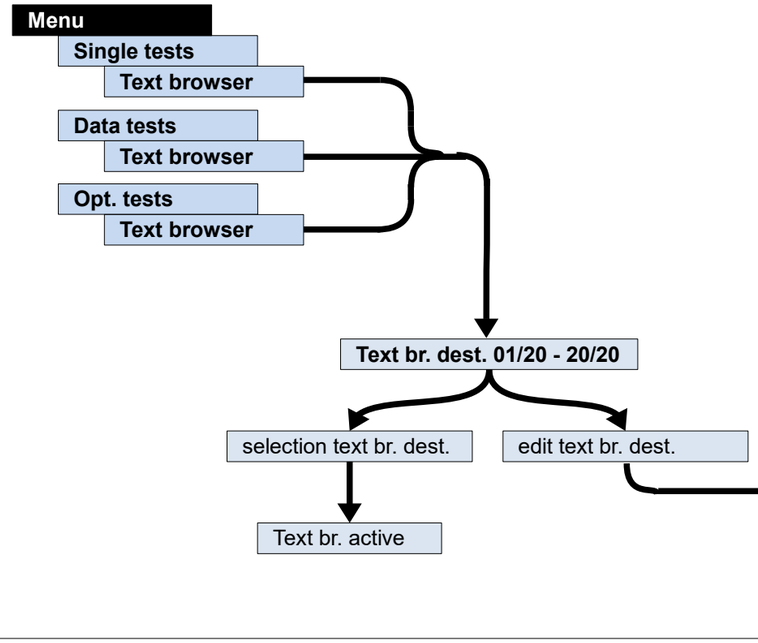
A test configuration of the FTP server is not necessary.

Cross reference:

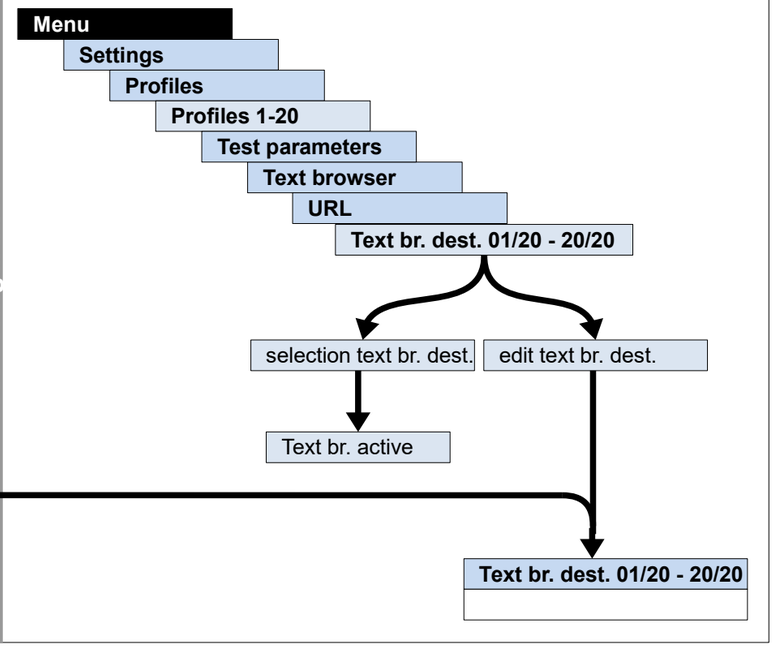
Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

ADSL / VDSL / G.fast / Ethernet / LTE

Text browser Test operation

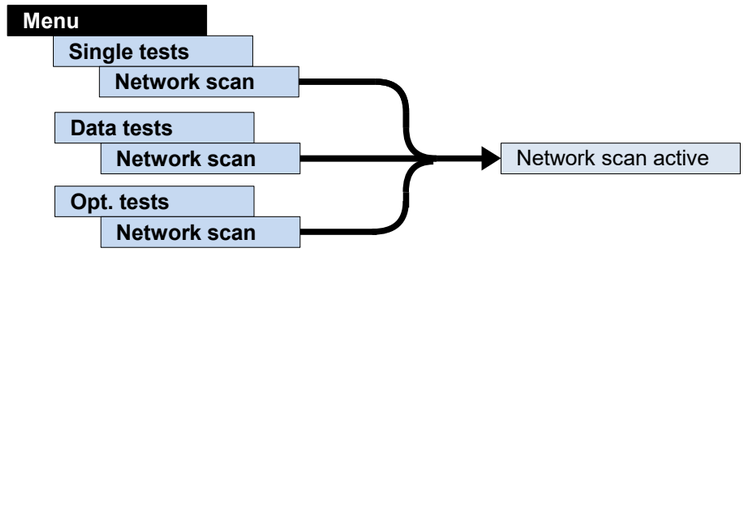


Text browser Test configuration

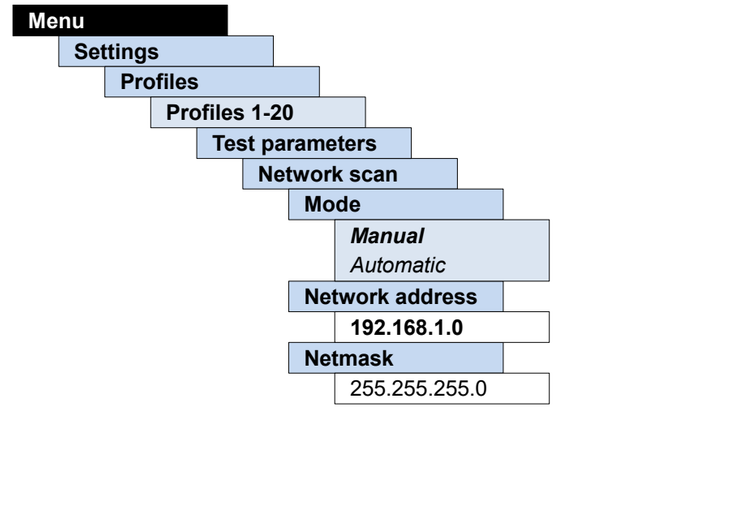


Ethernet

Network scan Test operation



Network scan Test configuration



Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
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IP and ATM tests	**page**
IP ping / Trace route	22
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Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

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***

IP

Configuration and operation
IPTV, IPTV passive, IPTV scan

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

IPTV Test operation — xDSL / G.fast / 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 — xDSL / G.fast / 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 passive
            - IPTV profiles 1-3
              - edit IPTV profile
              - preselection IPTV profile

edit IPTV profile →
- IPTV profiles 1-3
  - Channel selection
    - IPTV channel 1-250
      - preselection IPTV ch.
      - edit IPTV channel
  - IGMP version
    - IGMP version: *3*
  - Threshold
  - Profile name
    - *IPTV profiles 1-3*

Menu IPTV thresholds

- Threshold
  - IGMP latency
    - Latency value: ***500 ms***
  - Sync error
    - ***0***
  - PCR jitter
    - ***100 ms***
  - Error indication
    - ***0***
  - CC error
    - ***0***
  - CC error ratio
    - ***0,00 %***
  - Audio bytes
    - ***0***
  - Video bytes
    - ***0***
  - RTP jitter
    - ***100 ms***
  - RTP sequence error
    - ***0***
  - Current RTP loss ratio
    - ***0.00 %***
  - Full RTP loss ratio
    - ***5.00 %***

Menu IPTV channel

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

IPTV scan Test operation — xDSL / G.fast / 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

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***

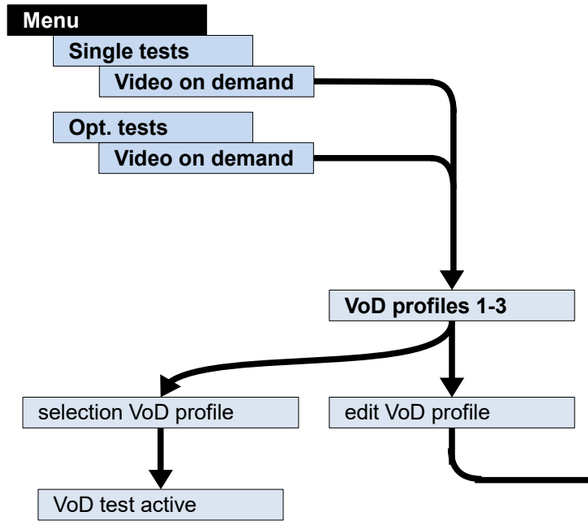
Configuration and operation
Video on demand

Cross reference:

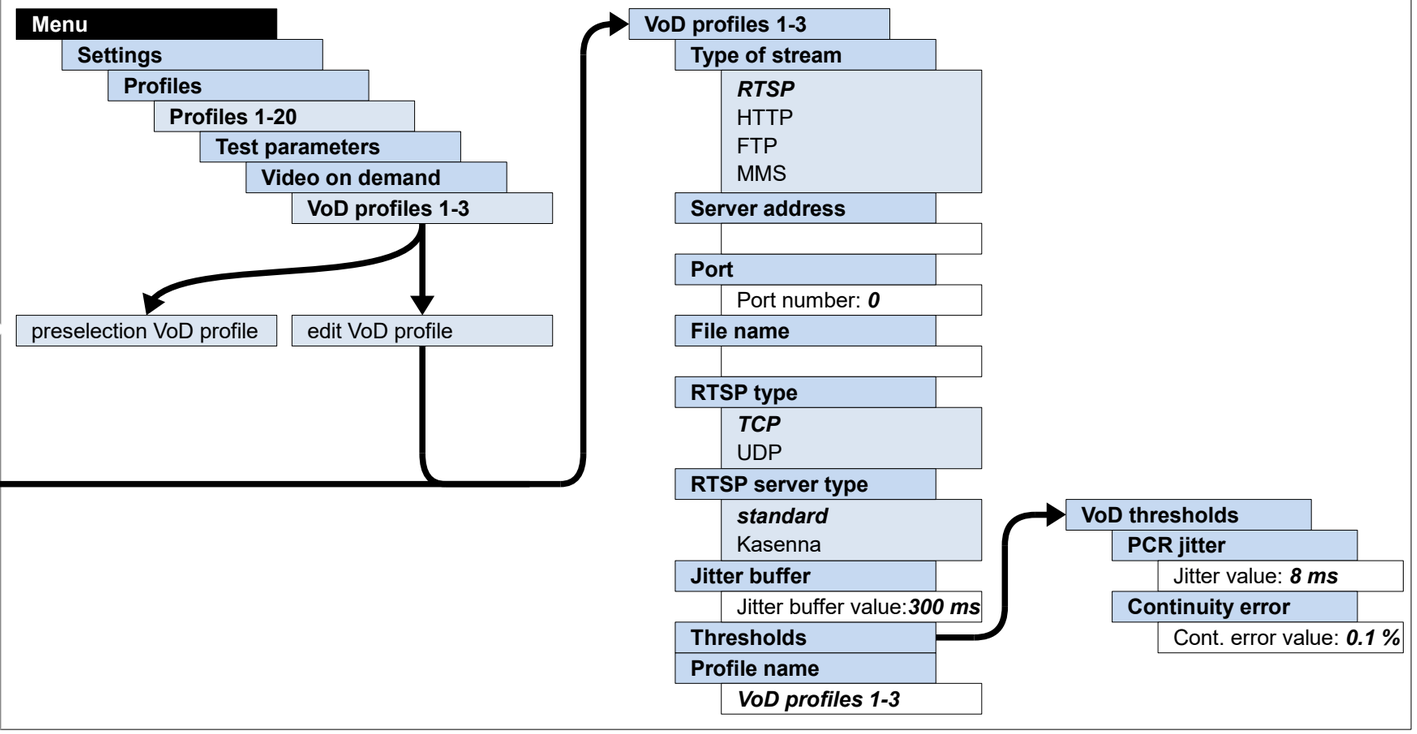
Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

xDSL / G.fast / Ethernet

Video on demand Test operation



Video on Demand Test configuration

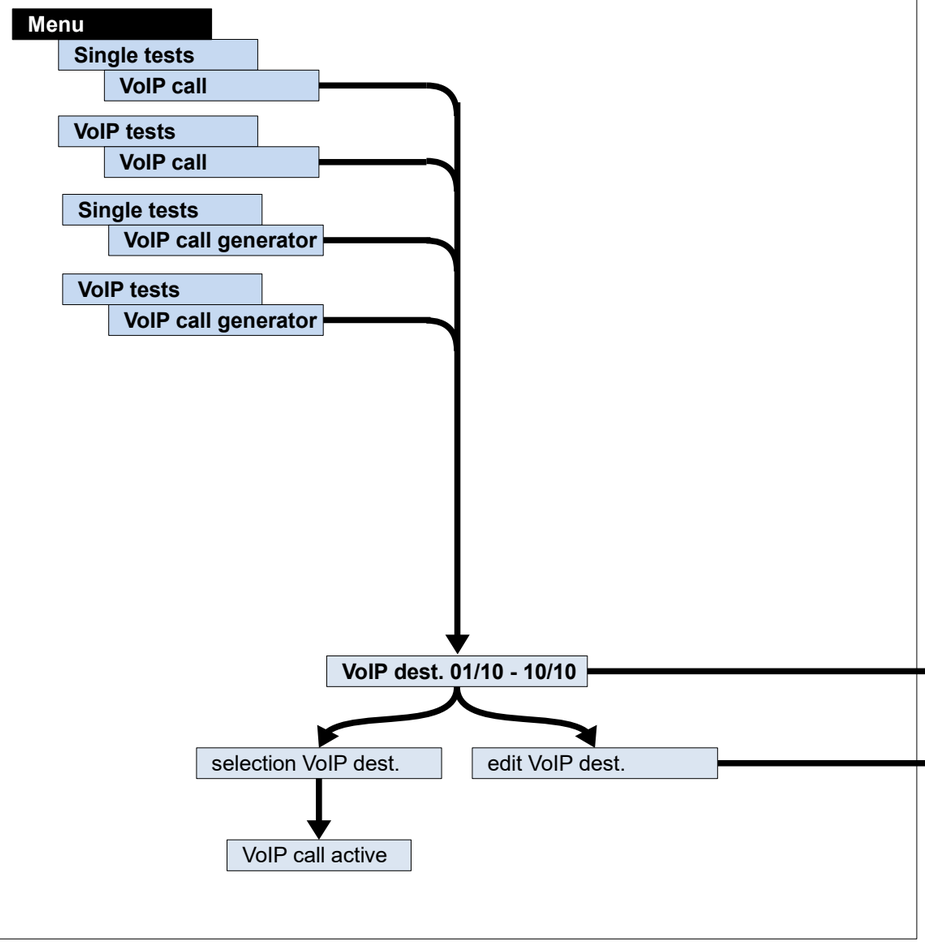


Cross reference:

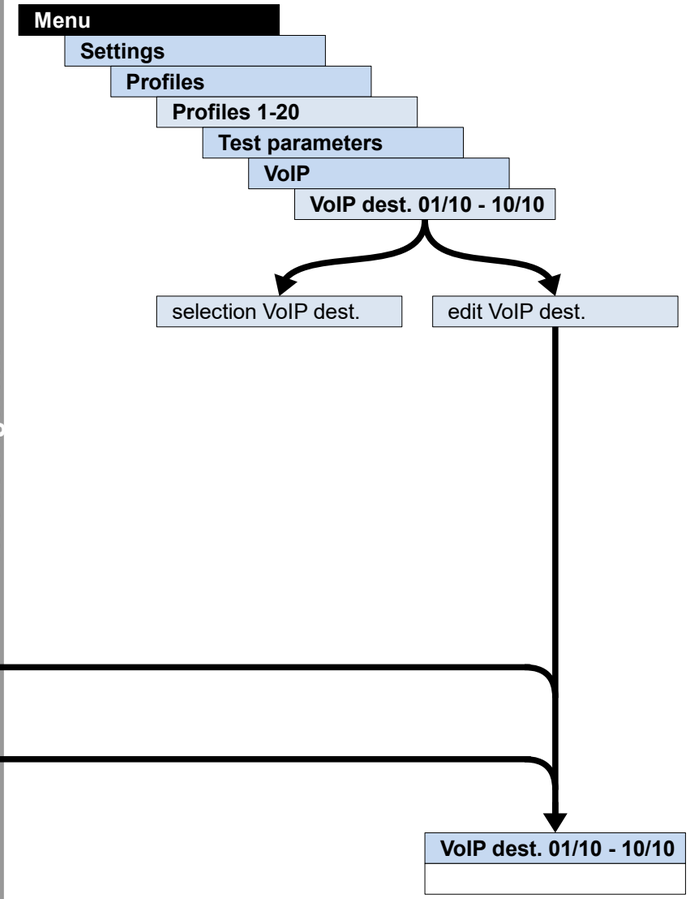
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Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
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Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
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Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

VoIP call / VoIP call generator
Test operation

ADSL / VDSL / G.fast / Ethernet

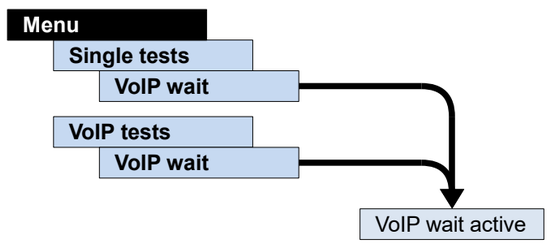


VoIP call / VoIP call generator
Test configuration

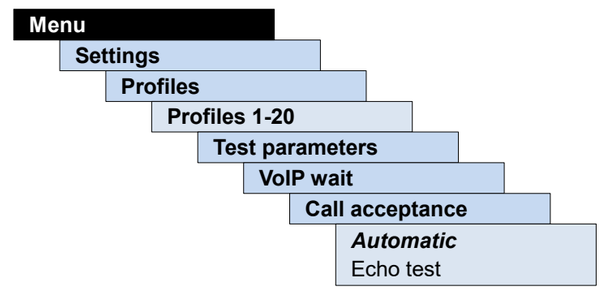


VoIP wait
Test operation

ADSL / VDSL / G.fast / Ethernet



VoIP wait
Test configuration

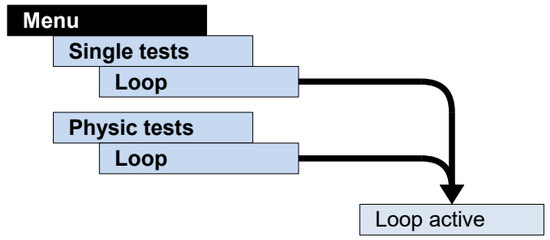


Cross reference:

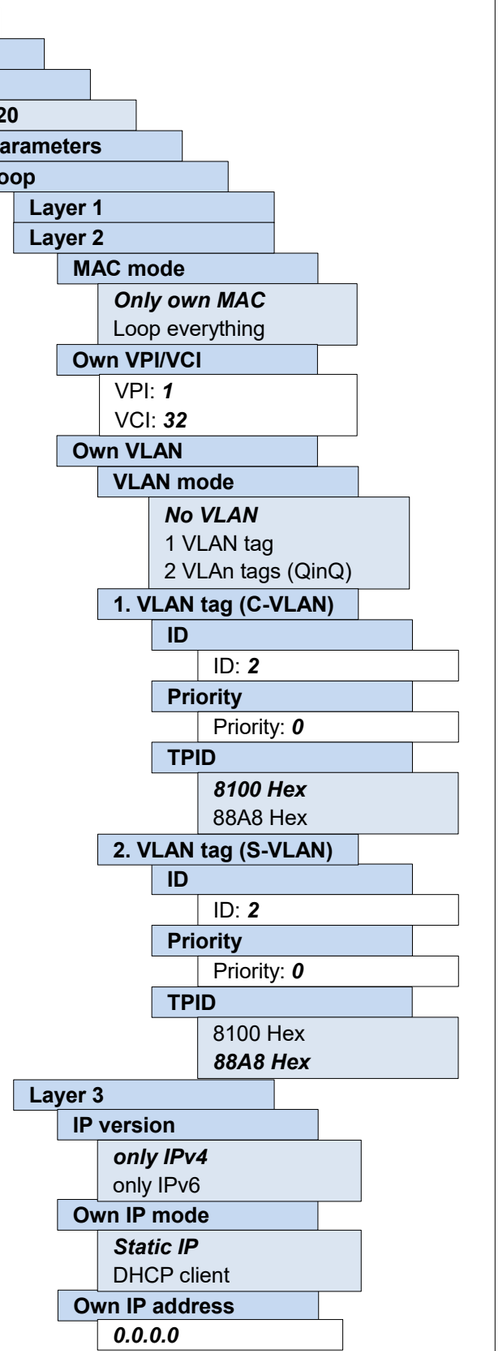
Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

Ethernet IP based

Loop
Test operation

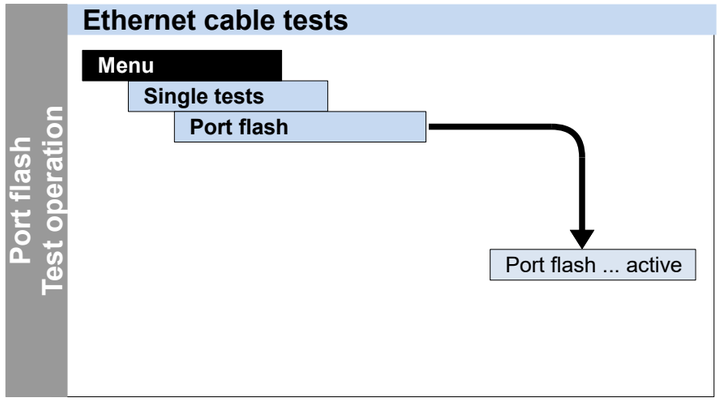


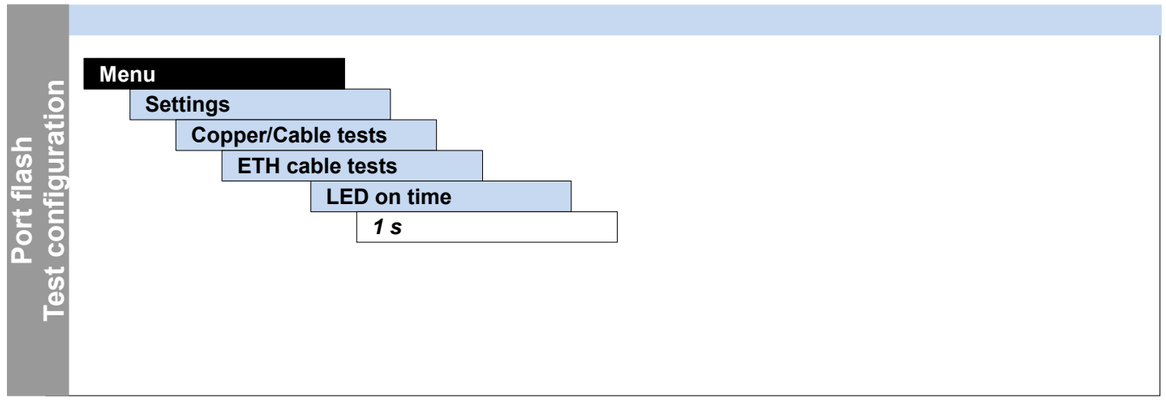
Loop
Test configuration



Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
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IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35



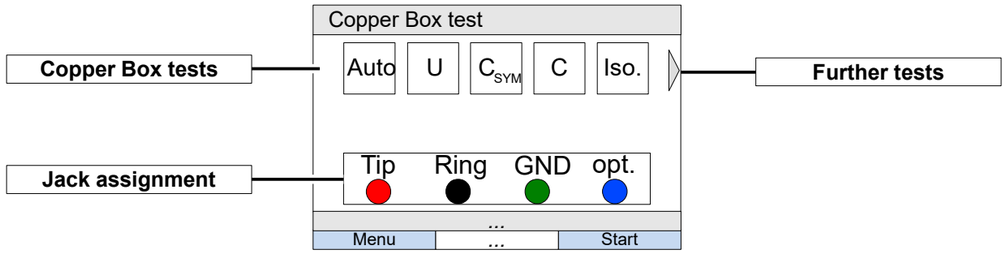


Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

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:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

Copper Box

Copper Box Test operation

Menu → **Single tests** → **Copper Box** → **Auto** / **U** / **CSym** / **C** / **Iso.** / **RSym** / **R** / **I=** / **LCL** / **NEXT** / **Sig.** / **Fast cable check** / **Rem.** → Copper Box active → Select command → Send remote kit command and wait for response

Auto test: U | C | Iso. | R | ... ; Tip | Ring | GND | opt. ; ... ; Setting | Insert | Delete

Insert → Insert a new test and select the jack assignment

Setting → **Copper Box**

- *1 **Auto test profiles** → **Auto test profile**
  - **Autotest**
  - **Auto test sequence**
  - **Notice**
  - **Profile name** — ***Autotest***
- *2 **Polarity**
  - Standard
  - ***Invers***
- *2 **Measurement range**
  - ***Autom. (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 33
- *4 **Susceptibility**
  - ***Robust for ext. voltage***
  - Insecure (fast)
- *5 **Display mode**
  - Normal display mode
  - ***Min/Max display mode***
- *8 **Input resistance** → see above
- **Remote kit command** → see command
- **Remote kit**
  - ***TX91x + 900/905 Remote***
  - TX91x (orange)
  - 900/905 Remote (blue)
- *5 **Information bell**
  - off
  - ***on***

- *8 **Input resistance**
  - High-resistance
  - ***Low-resist. (200 kΩ Last)***
- *2 **Polarity**
- *2 **Measurement range**
- *2 **Measurement voltage**
- *4 **Susceptibility**
- *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***

Lists

Commands
- 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 & 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

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 = Auto test
- *2 = Iso.
- *3 = Autotest, 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

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

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

Selection wire type

Edit wire type

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

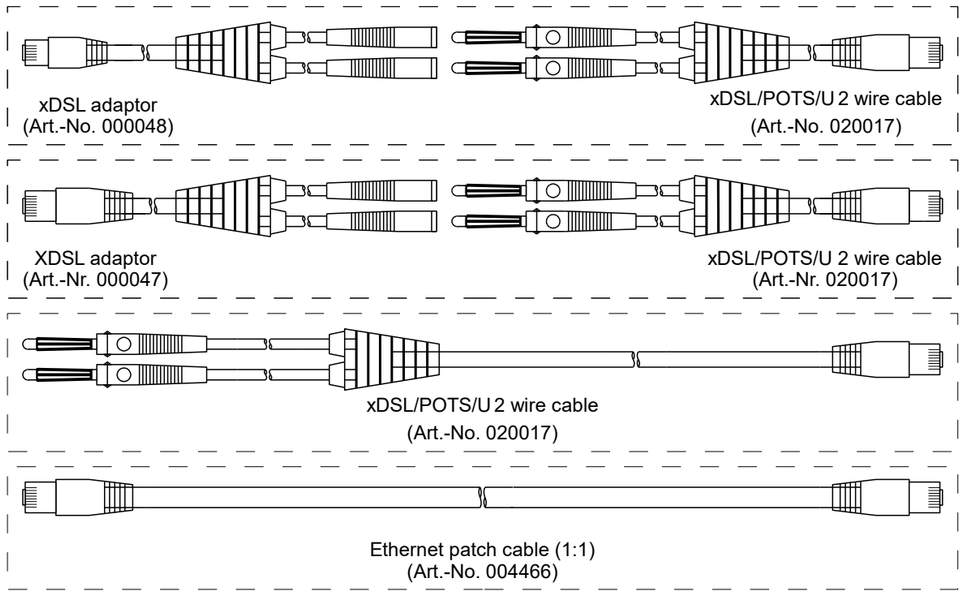
V/2 in m/µs
98.9
VoP in %
66.0

Test leads and pin assignments
ADSL, VDSL, G.fast, Ethernet

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

ADSL / VDSL / G.fast

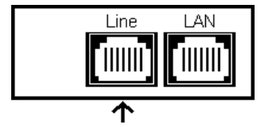


RJ11	Ban.	RJ45
3	rd	4
4	blk	5

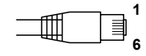
RJ45	Ban.	RJ45
4	rt	4
5	sw	5

Ban.	RJ45
rd	4
blk	5

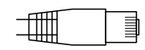
RJ45	RJ45
1-8	1-8



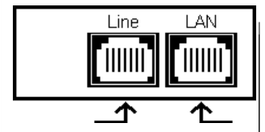
RJ11



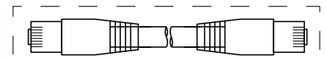
RJ45



ADSL / VDSL / G.fast – Bridge / Router

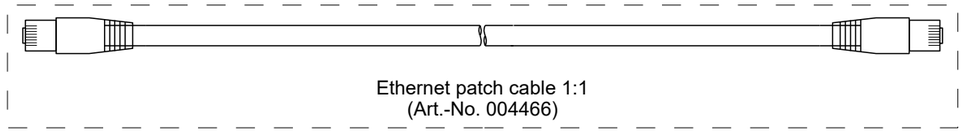


RJ45	RJ45
1-8	1-8



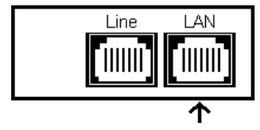
Ethernet patch cable (1:1)
(Art.-No. 004466)

Ethernet

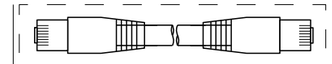


Ethernet patch cable 1:1
(Art.-No. 004466)

RJ45	RJ45
1-8	1-8



RJ45	RJ45
1-8	1-8



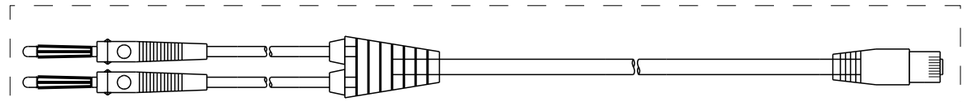
Ethernet patch cable 1:1
(Art.-No. 004466)

Test leads and pin assignments
Copper tests

Cross reference:

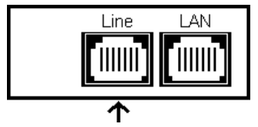
Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
Status	8
Parallel-, auto tests	10, 11
Settings	12-21
Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

Copper tests: Line scope / TDR



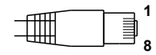
xDSL/POTS/BRI U 2 wire cable
(Art.-No. 020017)

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

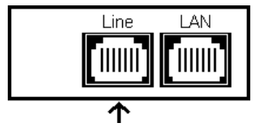


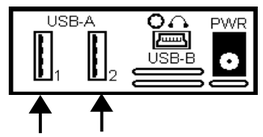
Copper tests: Line scope



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

Cross reference:

Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-10
Test results	8
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Settings	12-21
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Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
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Hotkeys	4
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Menu	page
Access	6
Access wizard	7
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Status	8
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Device, Rem. acce.	13
Profiles, Virt. profiles VoIP account	14-21
Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
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Hotkeys	4
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Battery (status,...)	8
Help	8, 12
IP and ATM tests	**page**
IP ping / Trace route	22
HTTP / FTP downl. FTP upload / server	23
VPI/VCI scan ATM OAM ping	25
IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

Notes

Cross reference:

Menu	page
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Access wizard	7
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IP and ATM tests	**page**
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IPTV / passive /scan	26
Video on Demand	27
VoIP call / call generator /wait	28
Copper tests	**page**
Copper Box	31-32
Line scope, TDR	33
Other tests	**page**
Textbrowser	24
Loop	29
ETH cable tests	30
Others	**page**
Legend Protocol-overview	3
Hotkeys	4
Test leads	34-35

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