



ARGUS® 162

» **Overview of menu
and test leads**

valid from firmware version R2.90.00

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Legend General

Menu

Configuration menu

Default 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 / GPON / LTE

Data service

VoIP service

IPTV service

Opt. service

Profile x

Service bridge/router

Virtual line

Virtual line Ethernet

Physics xDSL/Ethernet

Physics Ethernet (xDSL bridge/router)

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 / GPON / LTE																						
Access			ADSL			VDSL			G.fast			ETH		LTE	GPON							
Mode			ATU-R	ATU-R bridge		ATU-R router	VTU-R	VTU-R bridge		VTU-R router	FTU-TE	FTU-R bridge		FTU-R router								
Socket			Line	Line	LAN/SFP	Line	LAN/SFP	Line	Line	LAN*/SFP	Line	LAN*/SFP	Line	Line	LAN	Line	LAN	LAN 1	LAN 2	SFP 1	USB	USB
Protocol	ATM/Ethernet																					
without	-	without		a	a				a	a				a	a							
IP	-	IP					a	•			•	a	•			•	a	•	•	•		•
	Yes	EoA	•			•																
	No	IPoA	•			•																
PPP	Yes	PPPoE	•			•		•			•		•			•		•	•	•	•	•
	No	PPPoA	•			•																
PPTP	-	PPTP																•	•	•		

• – Protocol configurable (see page 19)

a – Protocol set automatically

* – dependent of delivery package

Note

The basic ARGUS 162 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.

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Menu Hotkeys

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

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

Menu Hotkeys

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	Cursor		
4	-	-	-
5	-	Down-/upl. stre.	-
6	-	-	-
7	-	-	-
8	-	-	-
9	x-axis setting	x-axis setting	-
0	min / max		-
#	-	-	-
✓	Continue		
⌂	-	-	-
* then 0	-	-	-
* then 7	Store		-

BRI S / BRI U / PRI / POTS

Key	BRI S / BRI U	PRI	POTS
0	ARGUS status		
1	Help hotkeys		
2	Service check		-
3	Supp. Serv. test		-
4	Auto. Test		-
5	Test data to PC		
6	Test manager		-
7	Numbers		
8	-		
9	BERT start		-
⌂	Level measuring	L1 status	Voltage measuring
📞	Connection		
* then 0	Access		
* then 1	ARGUS info		
* then 2	Restore config.		
* then 3	Factory setting		
* then 5	-		
* then 6	Test manager		-
* then 7	-		
* then 8	-		
* then 9	-		

Test hotkeys

Copper tests

Key	Line scope (Frequency domain)	Line scope (Time domain)	TDR
0	-	-	-
1	-	-	-
2	Zoom	-	Zoom
3	Cursor		
4	Measurement range		
5	Total power	-	Pulse width/height
6	-	-	Wire type/VoP
7	Probe		-
8	Symmetry		-
9	Time domain	Frequency domain	-
0	Peak hold (min/max)		-
#	100 Ohm Input resistance		-
✓	-	-	-
⌂	Run/Hold		
* then 0	Reference curve		
* then 7	Store		

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Menu Single tests

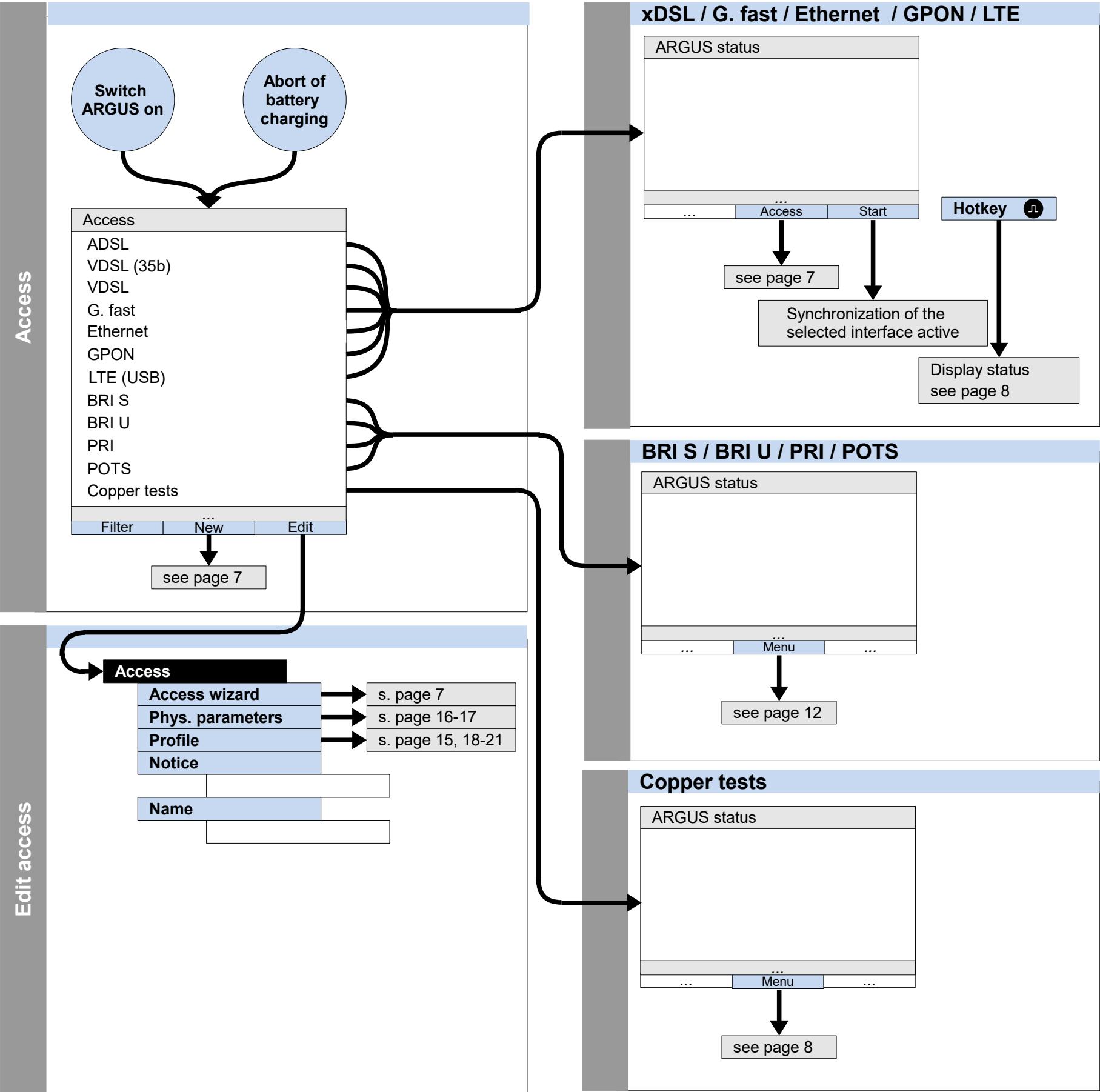
ADSL / VDSL / Ethernet / GPON / LTE

	ADSL / VDSL	ADSL - / VDSL- bridge	ADSL-/ VDSL- router	G. fast	Ethernet IP based / GPON	Ethernet cable test	LTE	Copper tests
IP ping	x	-	x	x	x	-	x	-
Trace route	x	-	x	x	x	-	x	-
HTTP downl./ upl.	x	-	x	x	x	-	x	-
FTP downl. / upl.	x	-	x	x	x	-	x	-
FTP sever	x	-	x	x	x	-	-	-
Text browser	x	-	x	x	x	-	x	-
Network scan	-	-	-	-	only ETH-IP based	-	-	-
VPI/VCI scan	only ADSL	only ADSL	only ADSL	-	-	-	-	-
ATM OAM ping	only ADSL	only ADSL	only ADSL	-	-	-	-	-
VoIP call/ wait/ PESQ test	x	-	x	x	x	-	-	-
IPTV / IPTV scan	x	-	x	x	x	-	-	-
IPTV passive	-	x	x	-	only ETH-IP based	-	-	-
Video on demand	x	-	x	x	x	-	-	-
LTE scan	-	-	-	-	-	-	x	-
Loop	-	-	not ADSL	-	only ETH-IP based	-	-	-
ETH cabling test	-	-	-	-	-	x	-	-
ETH PoE test	-	-	-	-	-	x	-	-
ETH TDR / cable test	-	-	-	-	-	x	-	-
Port flash	-	-	-	-	-	x	-	-
Copper Box	x	x	x	x	-	-	-	x
R measurem. / RC measurem.	-	-	-	-	-	-	-	x
Line scope, TDR	-	-	-	-	-	-	-	x

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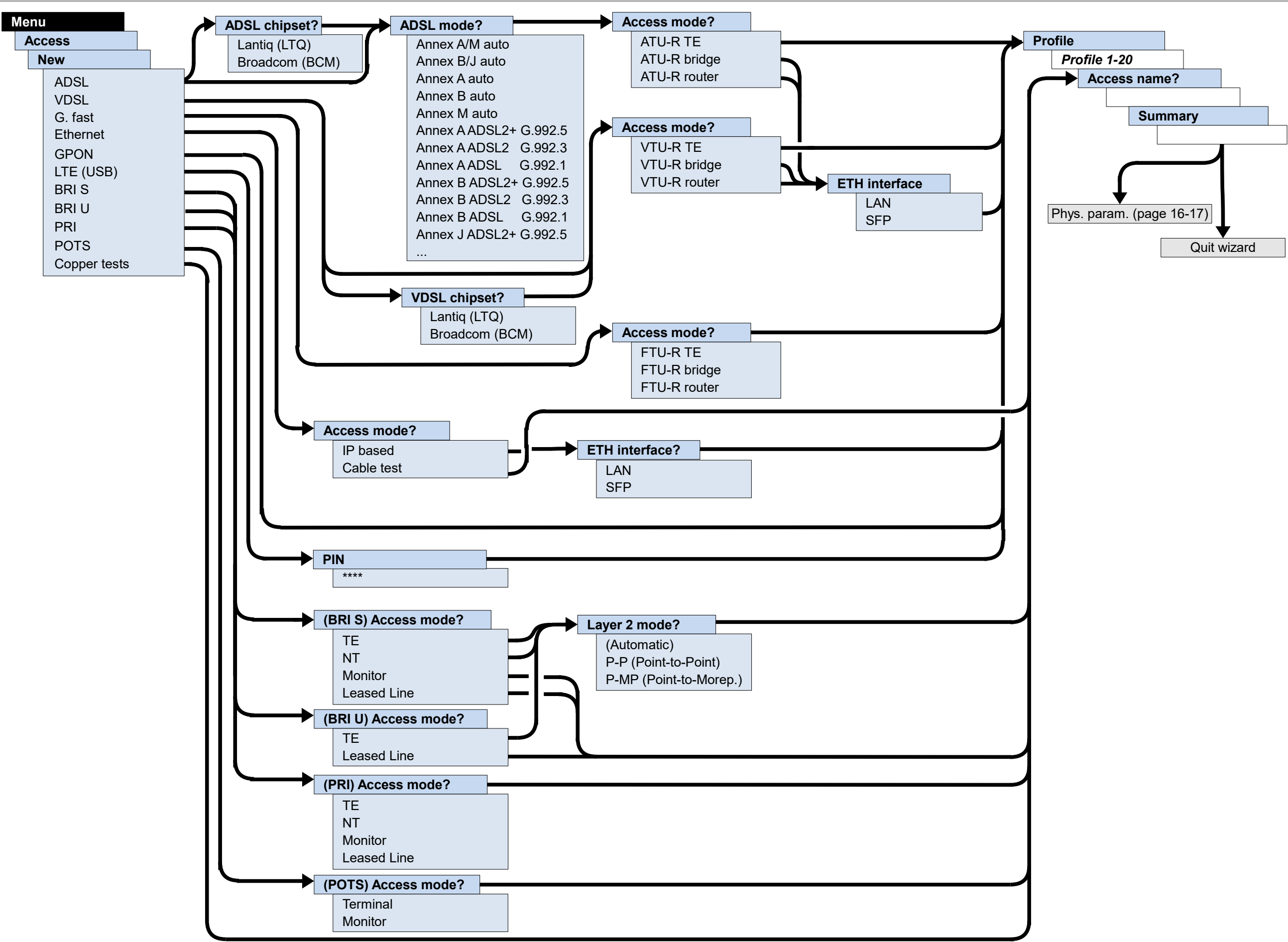
Switch on and access menu



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Access wizard



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

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Copper tests

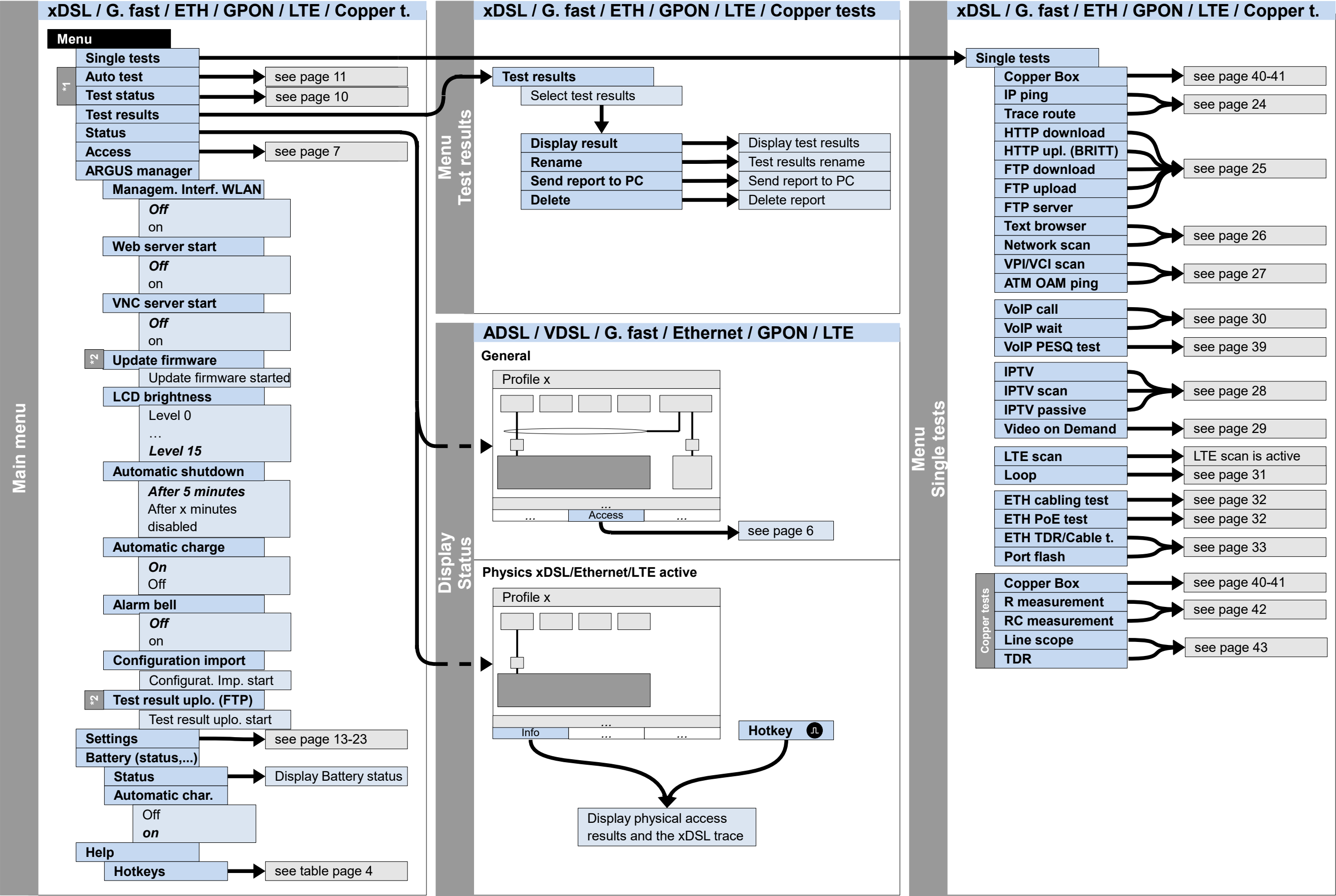
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Note

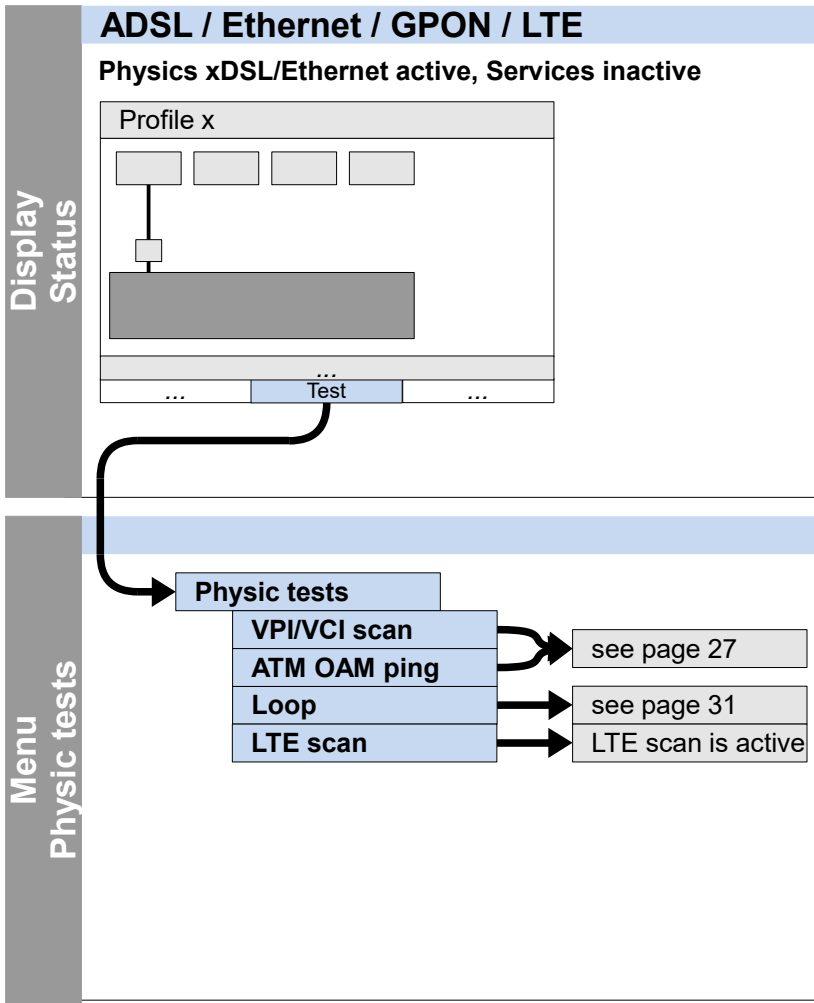
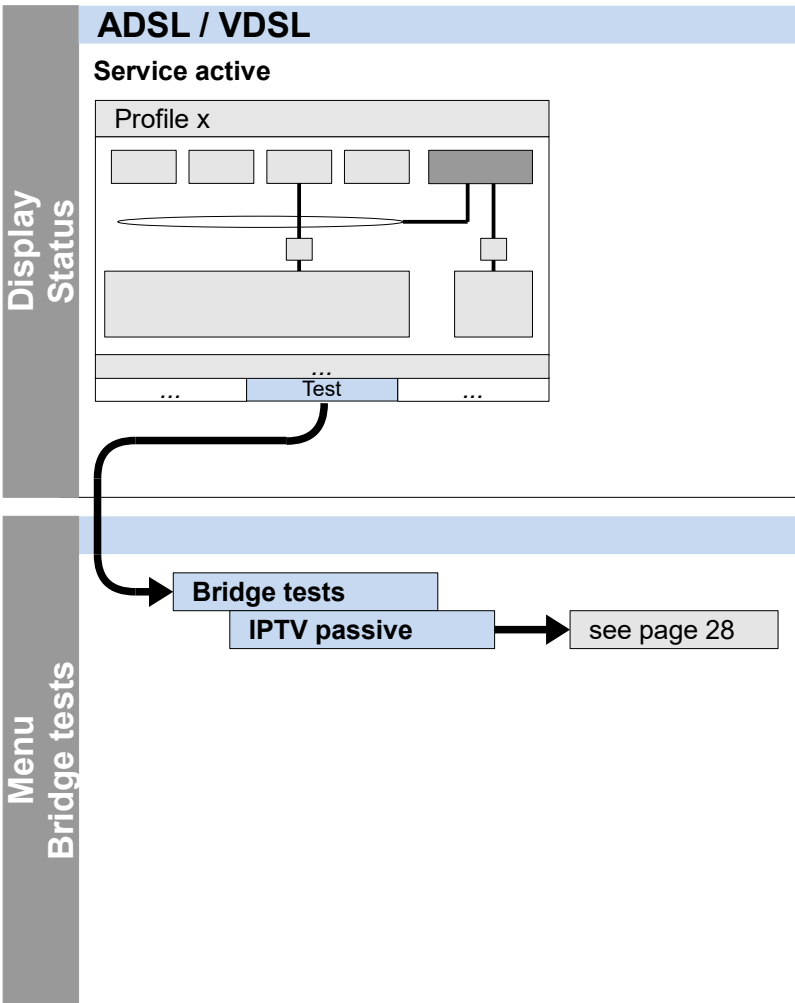
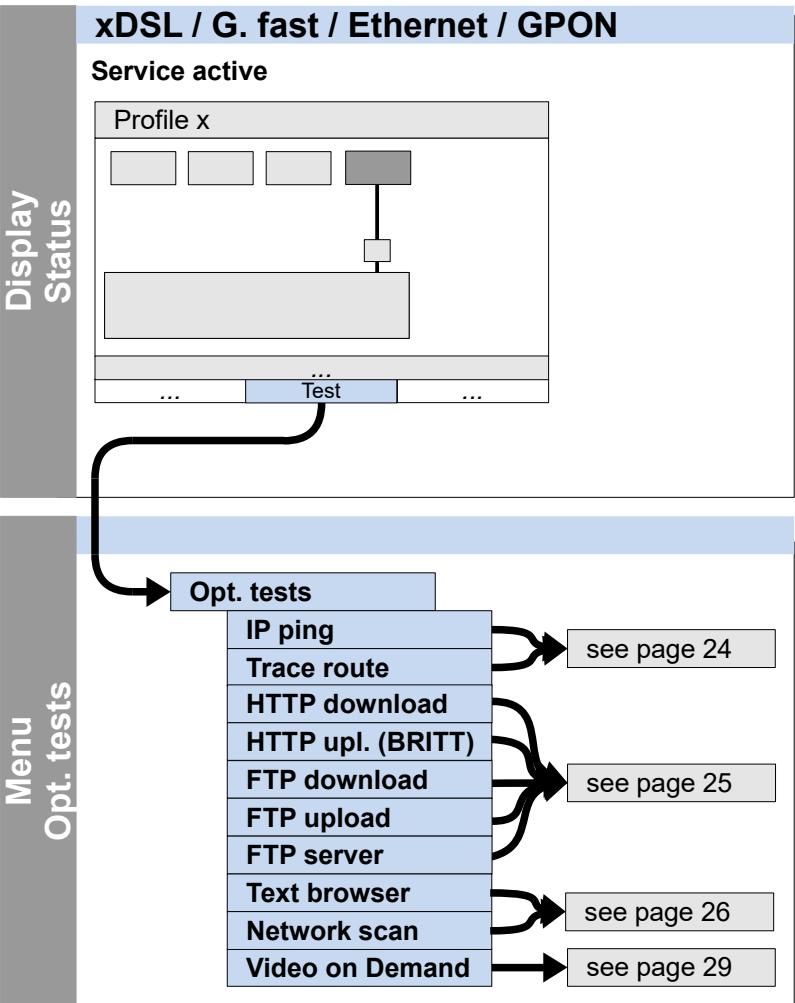
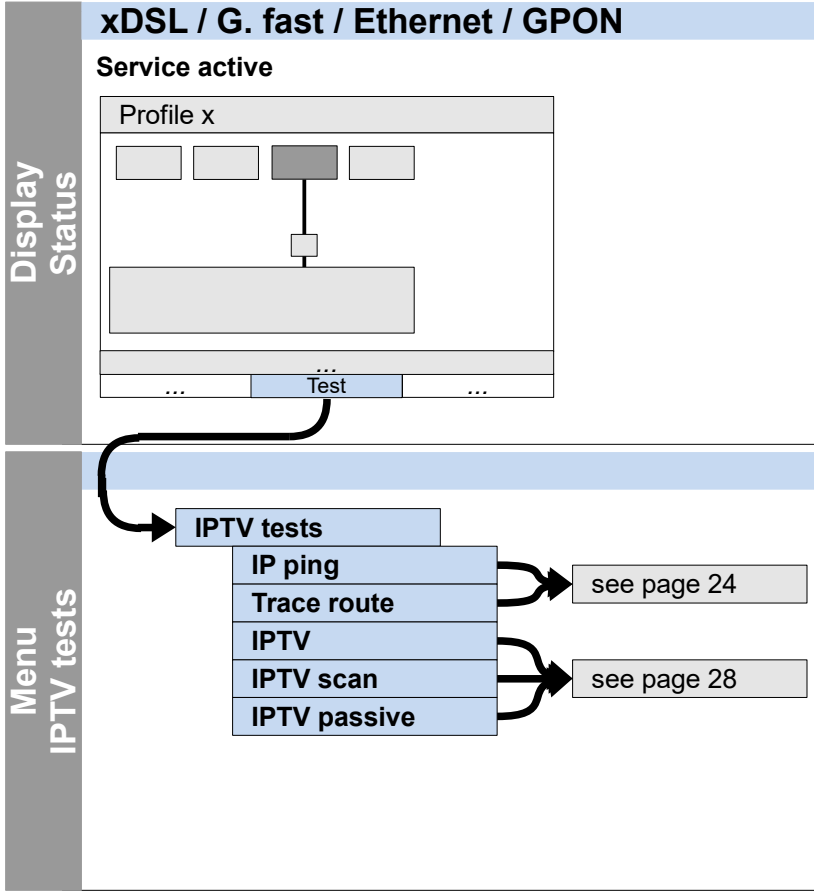
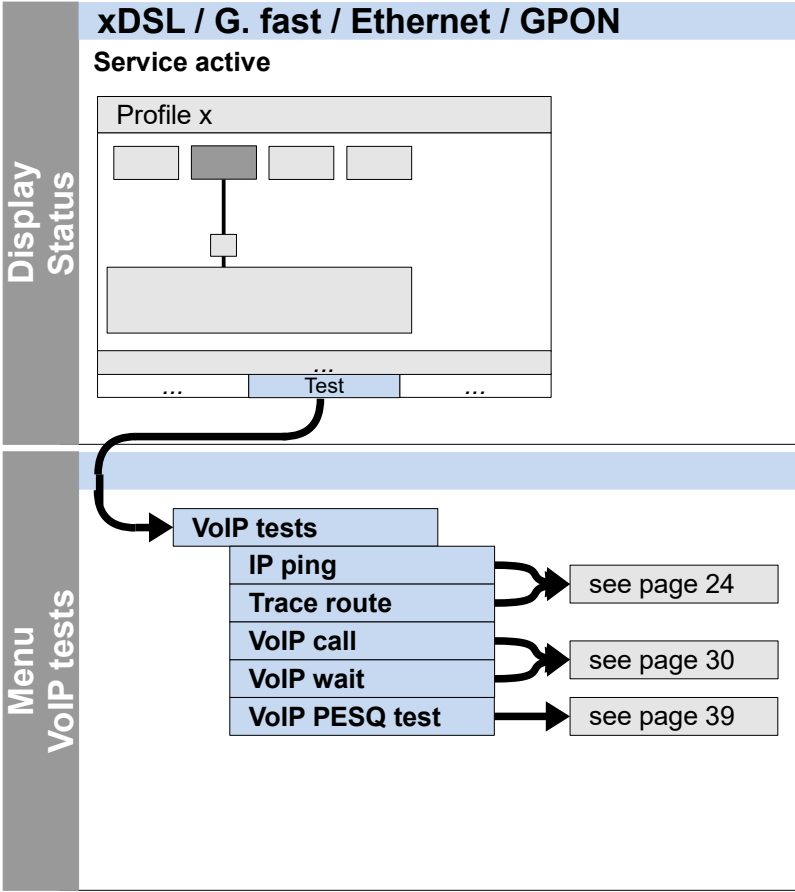
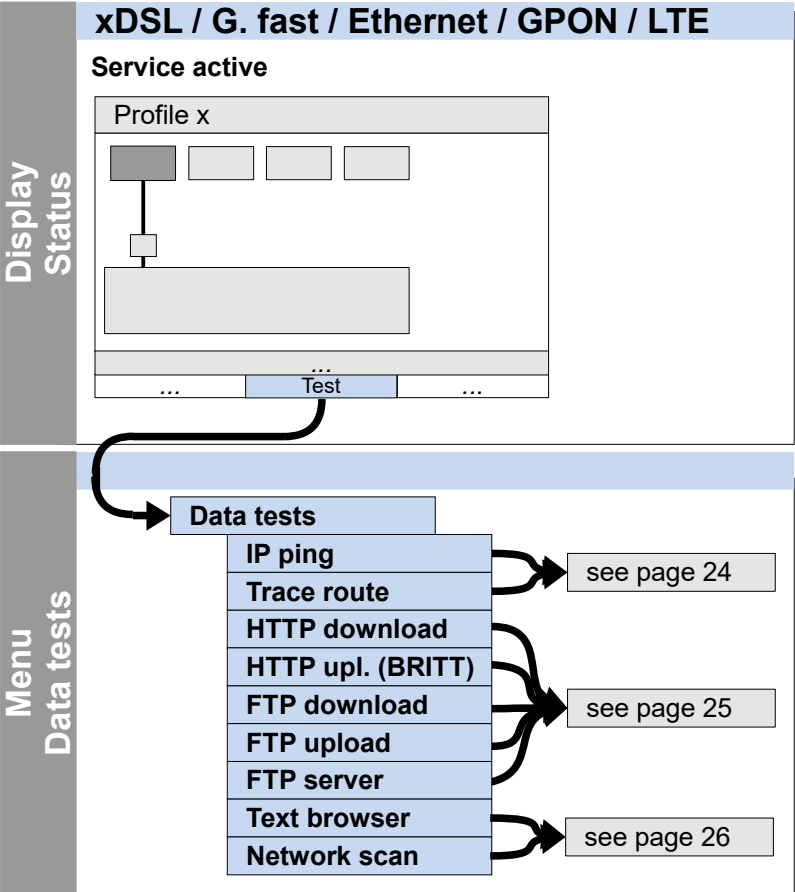
*1 = ADSL, VDSL, G. fast, Ethernet, GPON

*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, G. fast, Ethernet, GPON, LTE)

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Service tests: Parallel tests
Test status

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Other tests

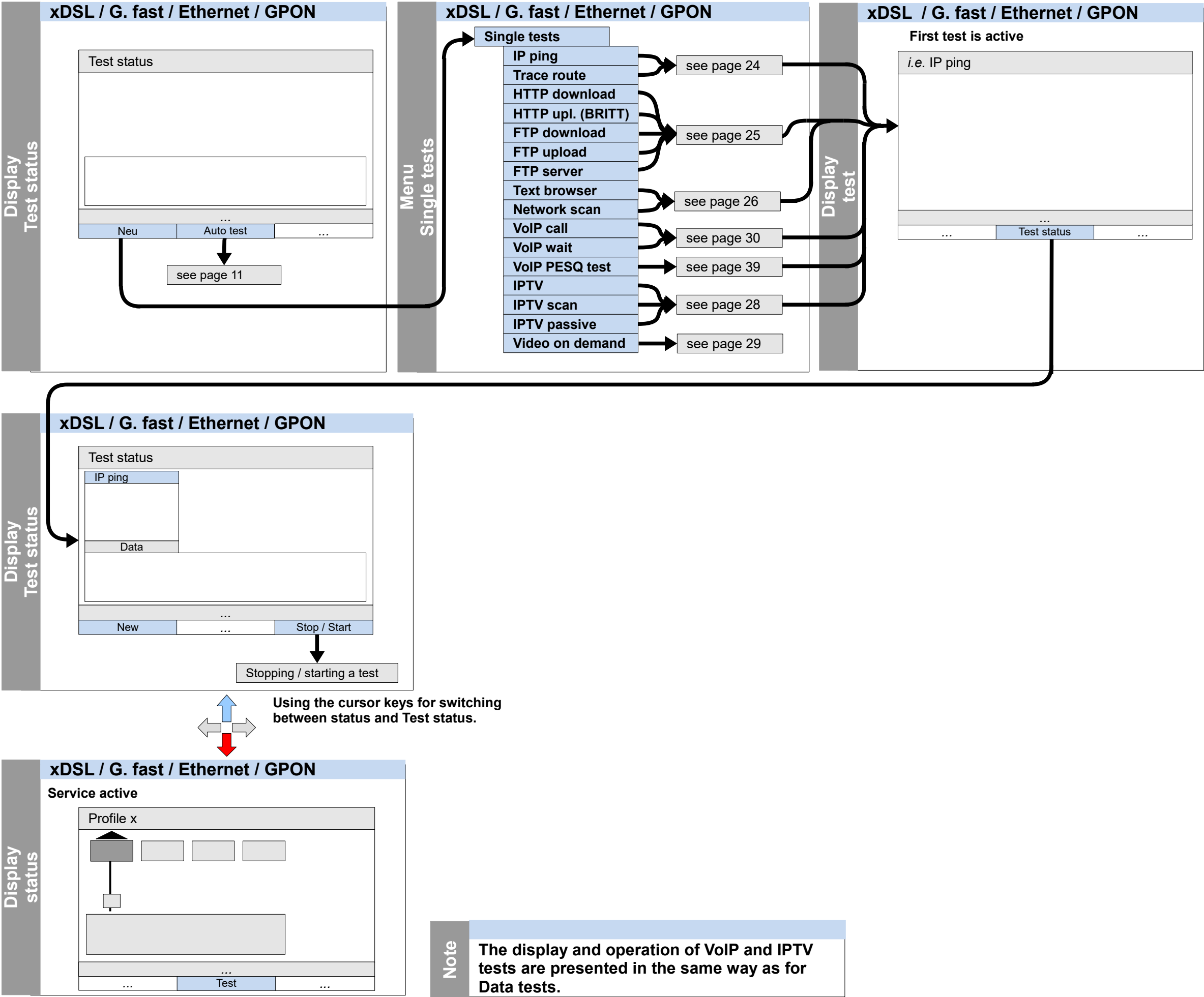
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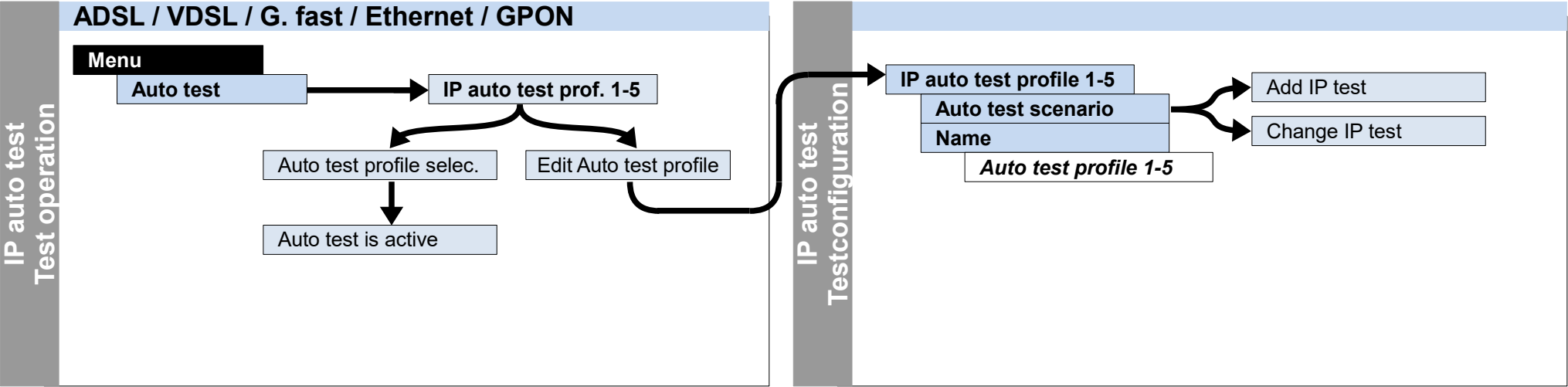
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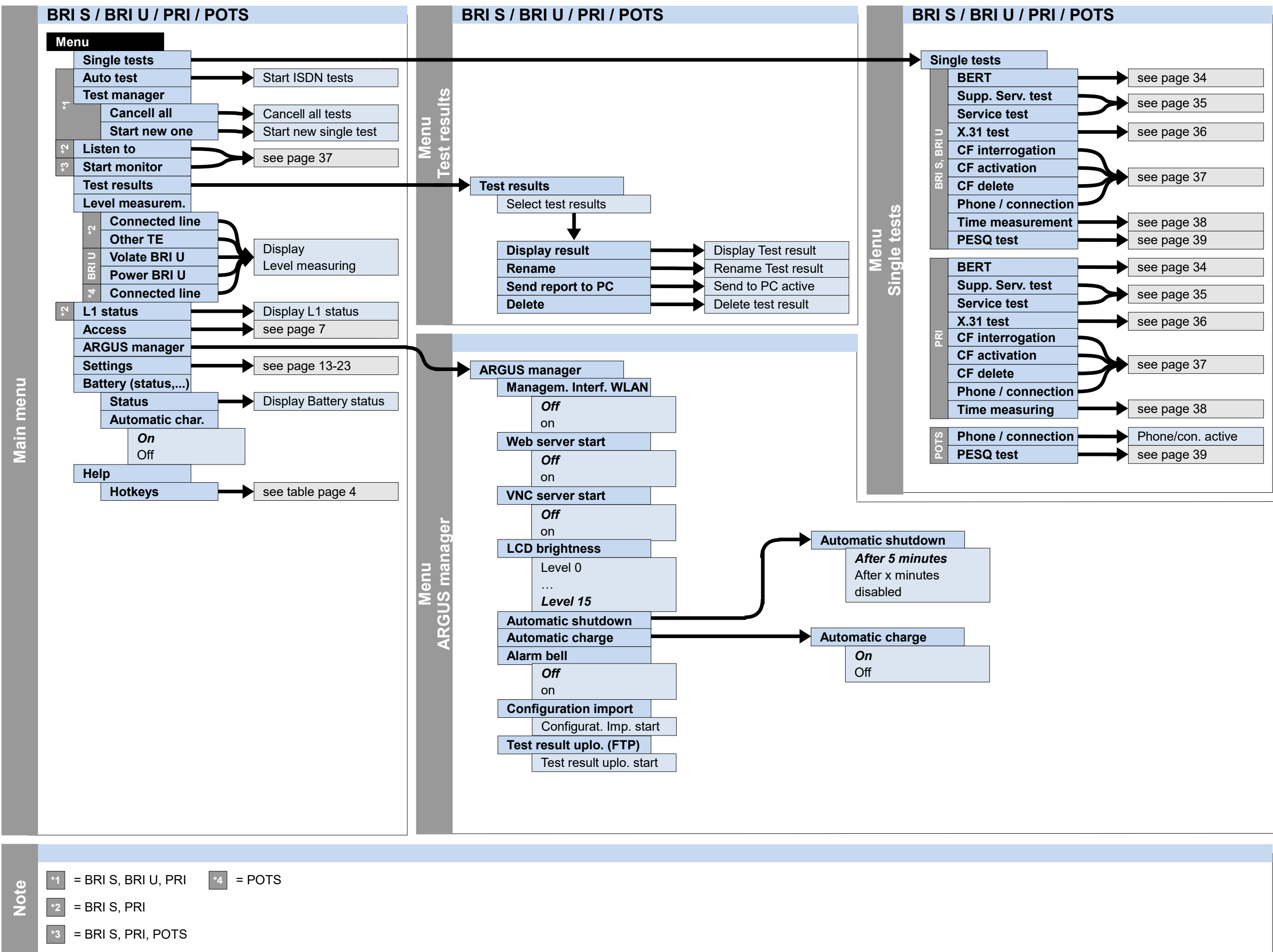
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Main menu, Single tests, Test results
(Access: BRI S, BRI U, PRI, POTS)

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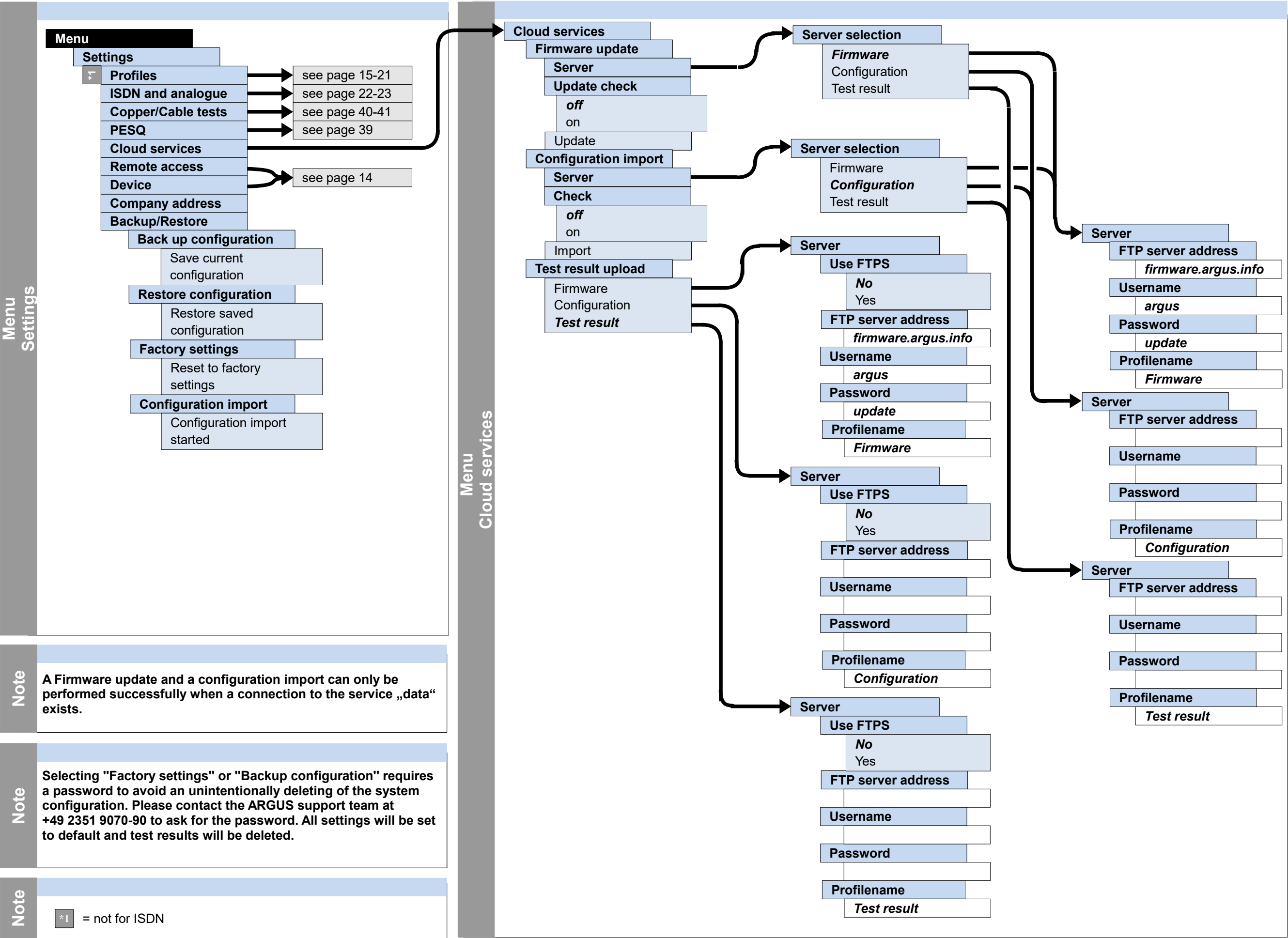
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Settings and reset
Numbers, Backup/Restore, Cloud services

Cross reference:

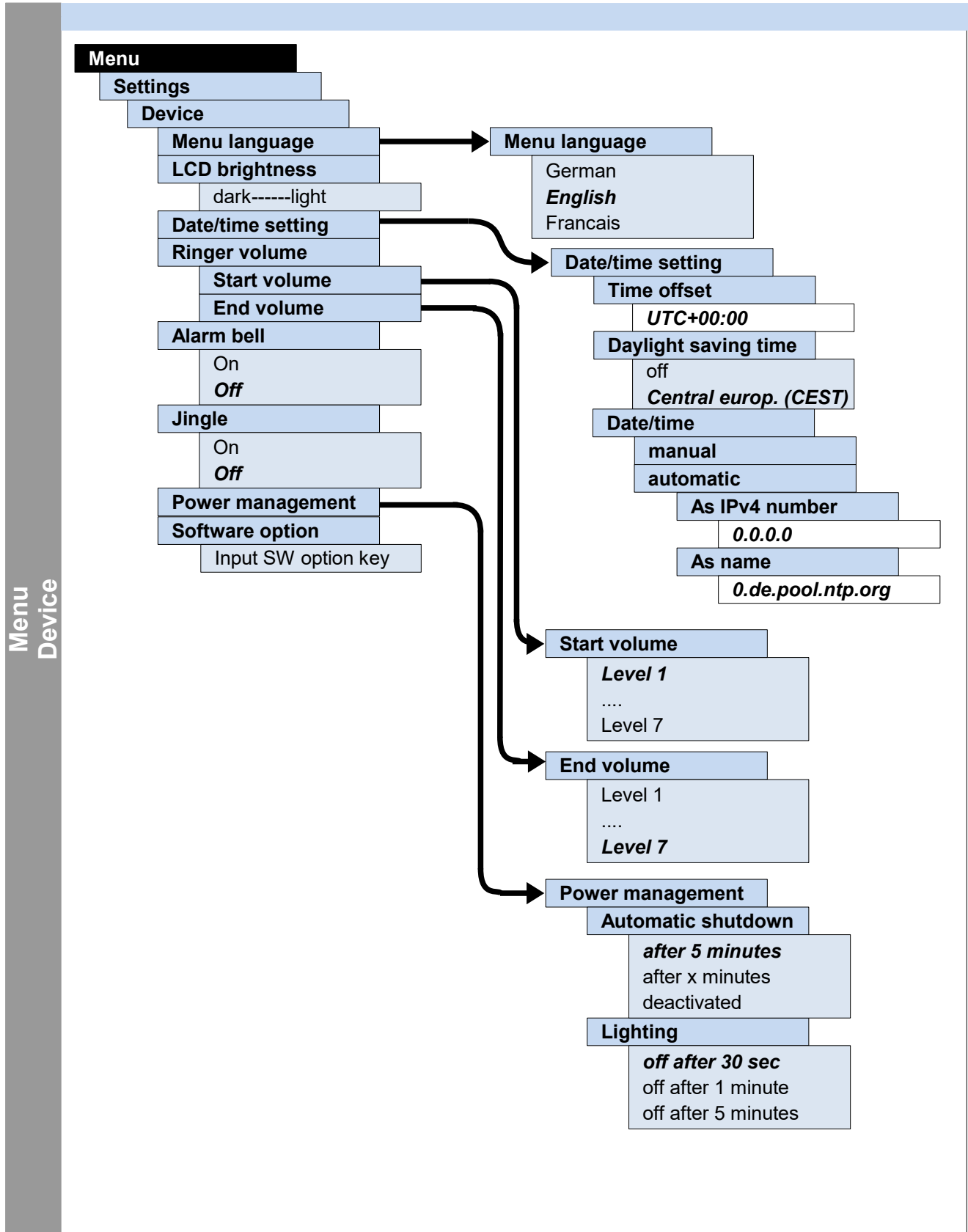
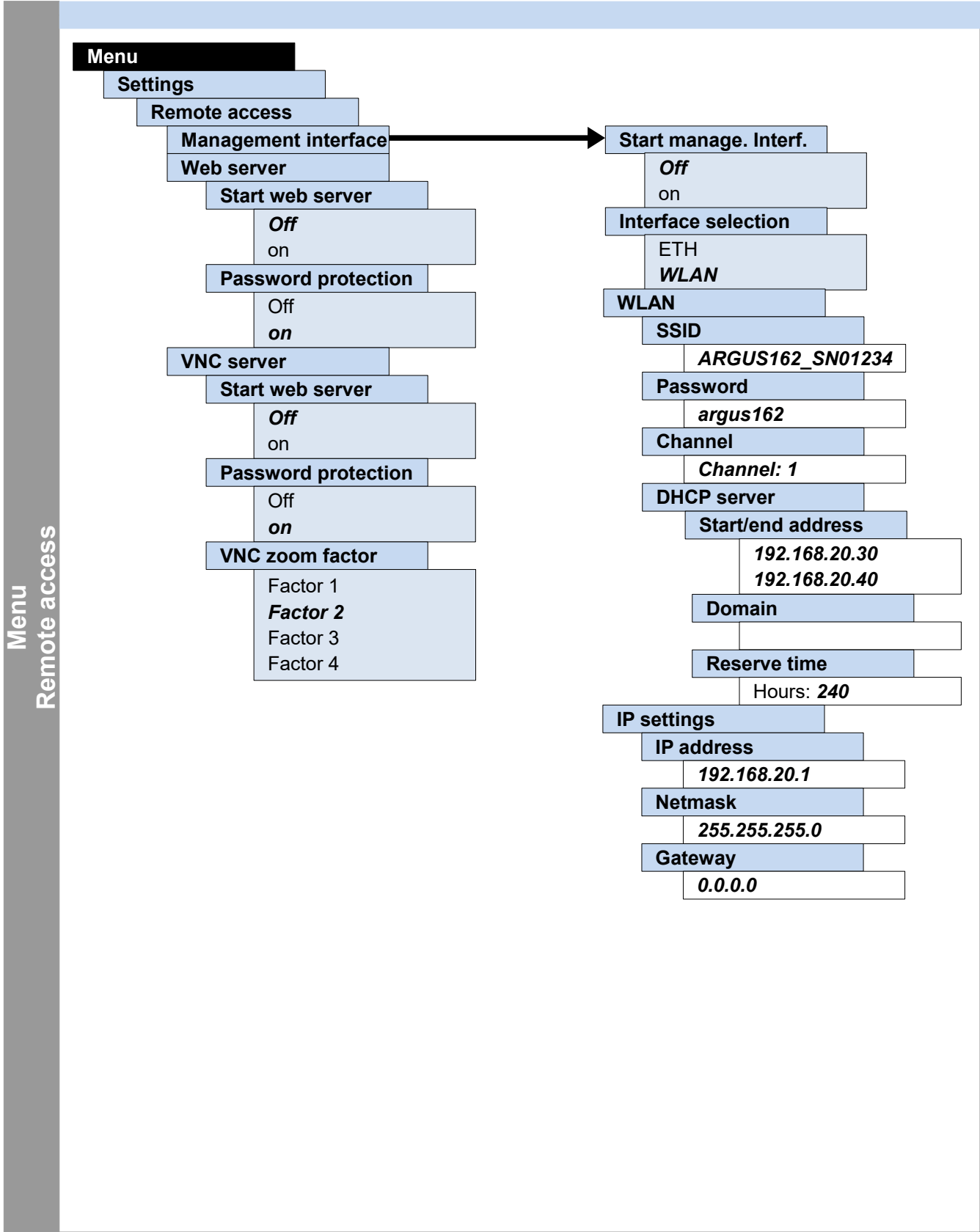
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Settings and reset
Device, Remote access

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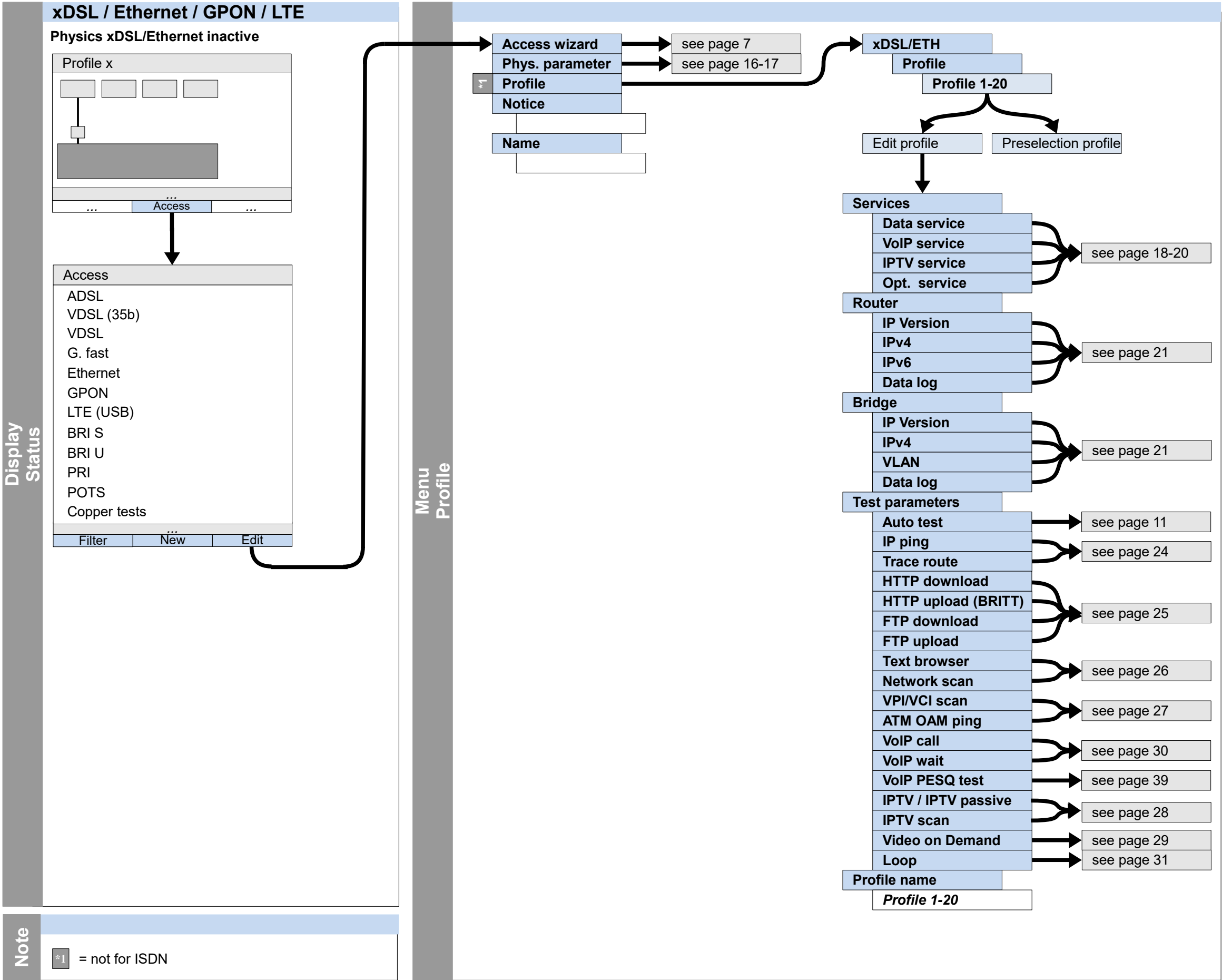
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Settings
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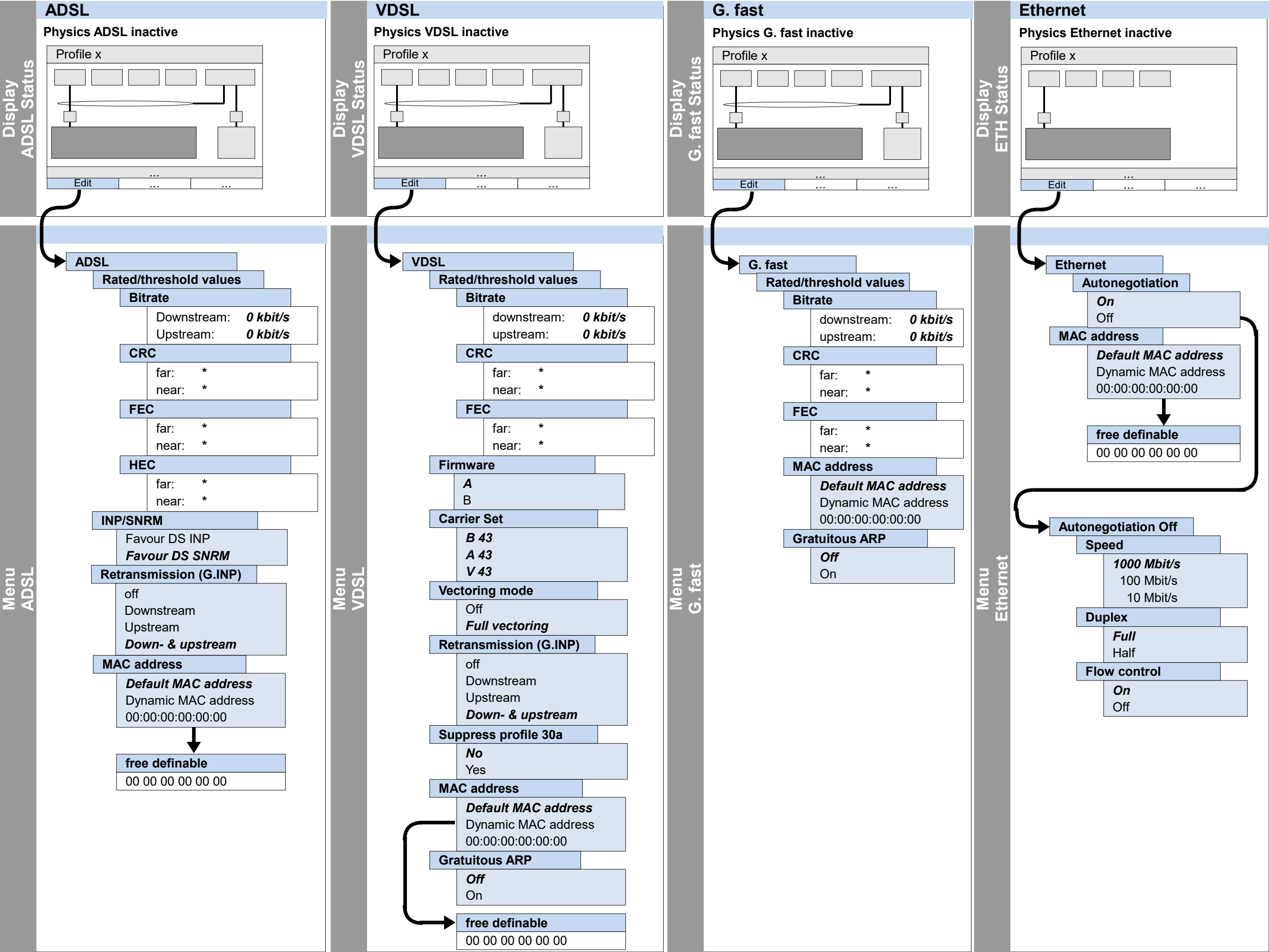
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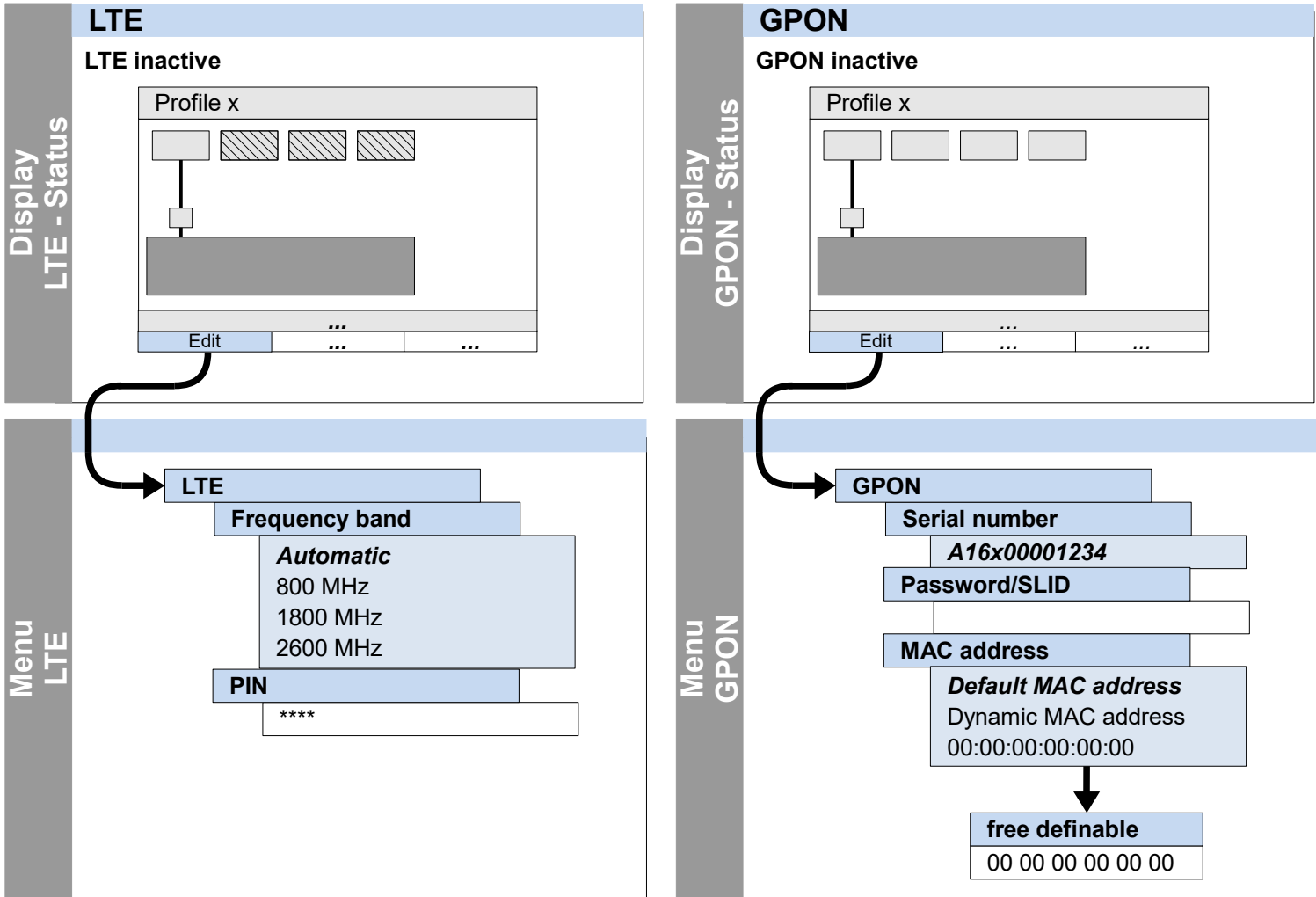


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Phys. parameters: LTE, GPON

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Display
GPON - Status

GPON

GPON inactive

Profile x

Edit

...

...

Menu
GPON

GPON

Serial number

A16x00001234

Password/SLID

MAC address

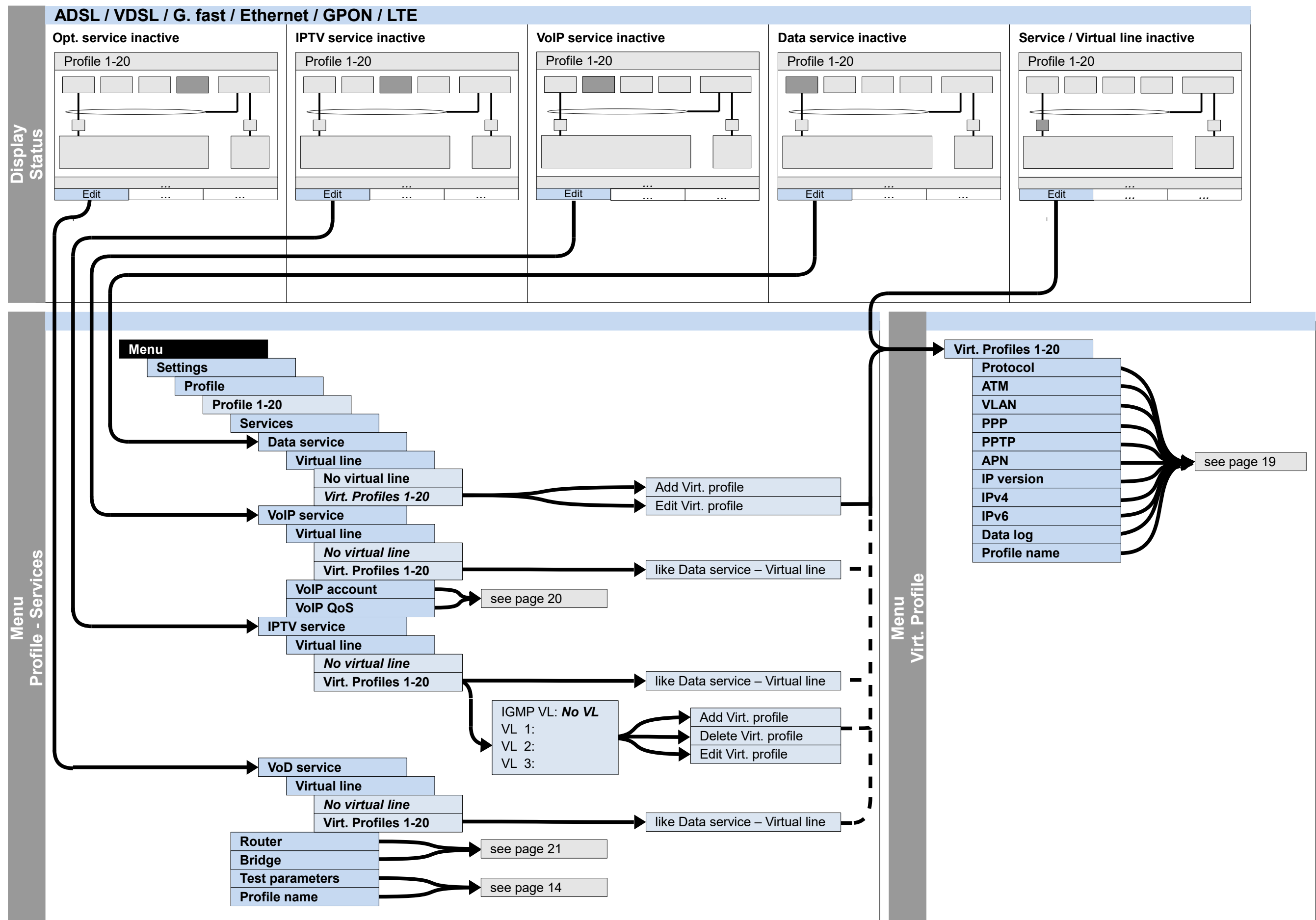
Default MAC address
Dynamic MAC address
00:00:00:00:00:00

free definable

00 00 00 00 00 00

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

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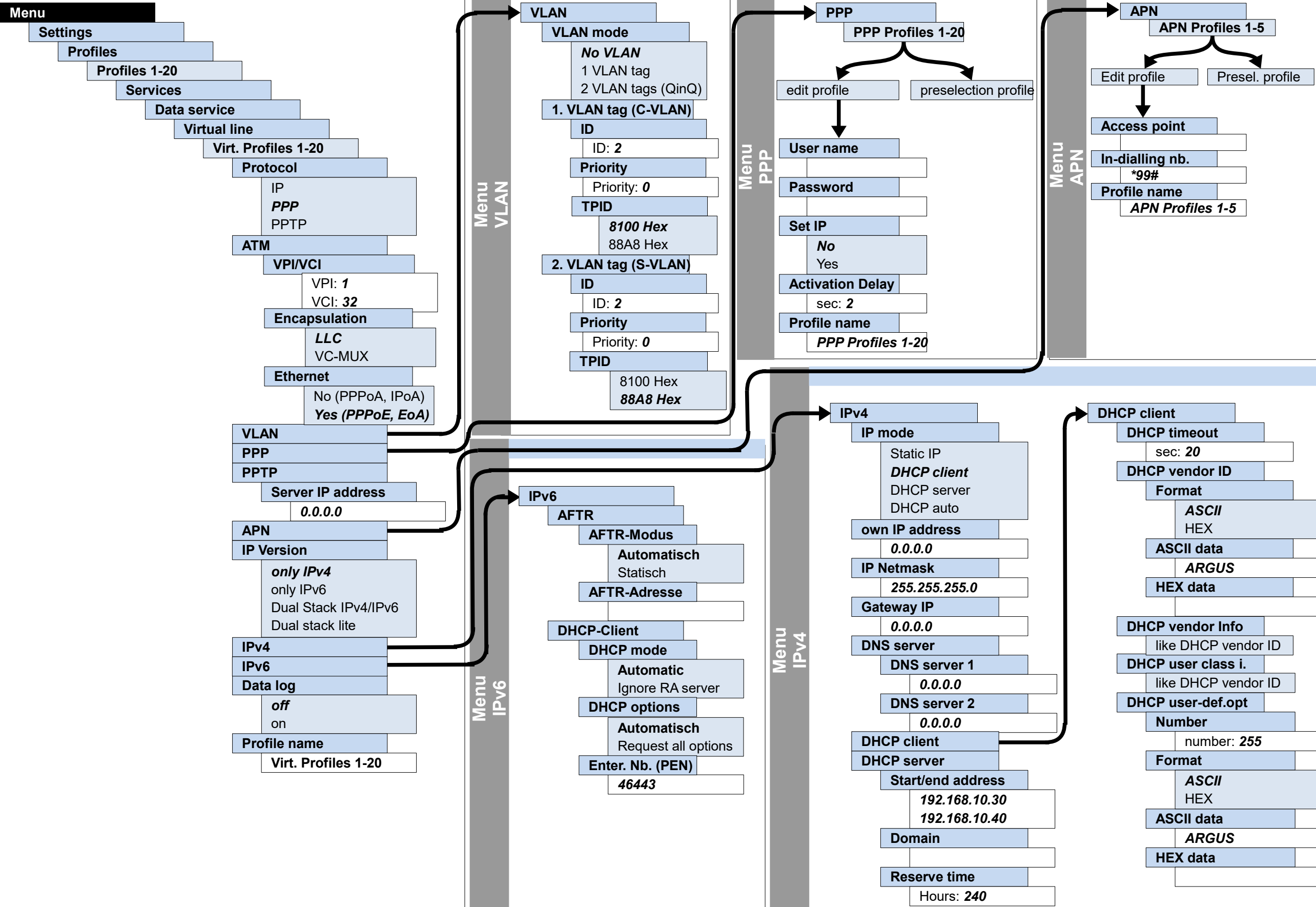


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Profiles – Virt. profile (Protocol, ATM, VLAN, PPP, PPTP, IP, Data log)

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Menu
Profiles – Virt. profile



Note

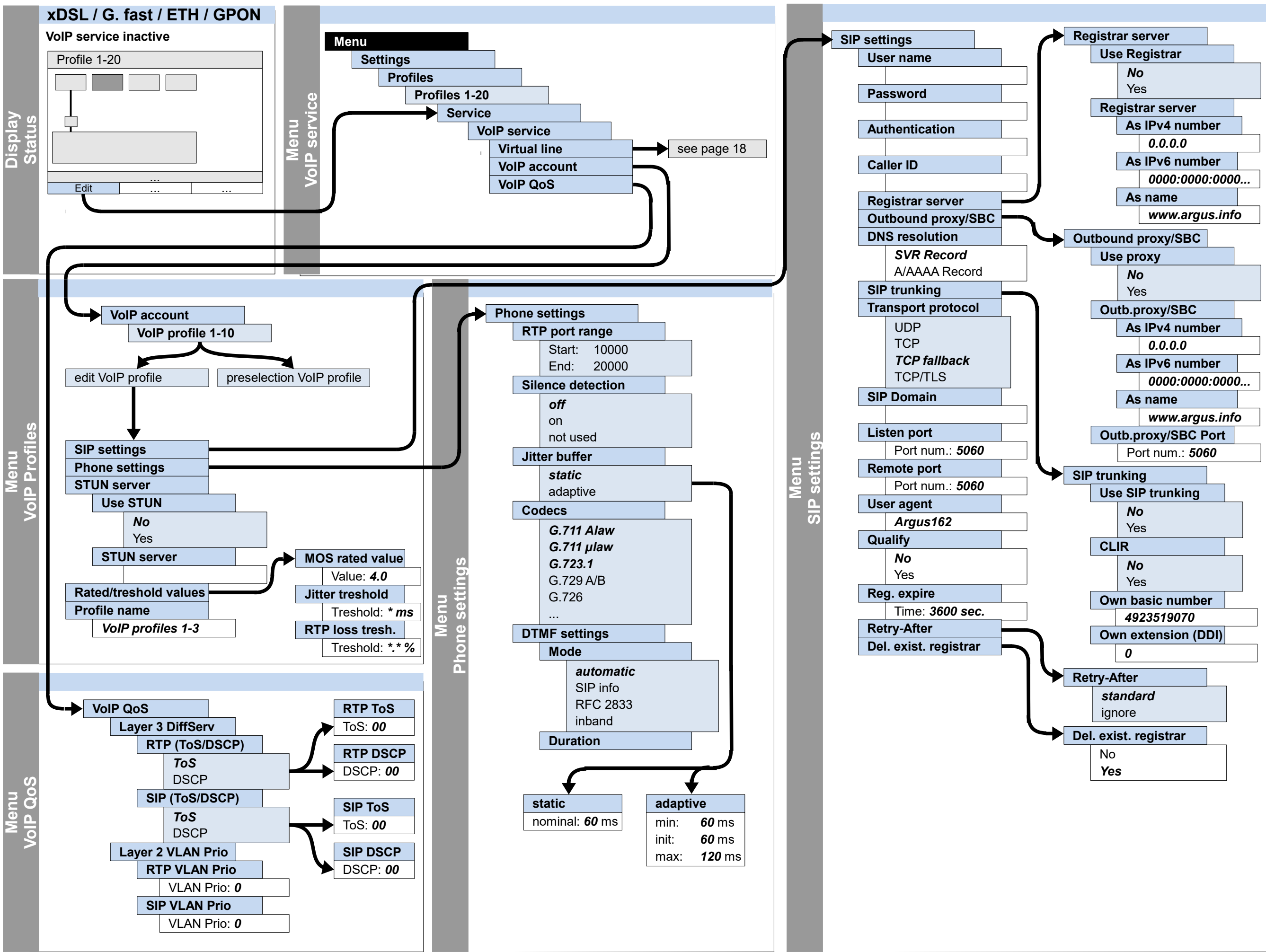
On page 3 you get a survey on the protocols, which are supported on the various interfaces.

Settings

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

Cross reference:

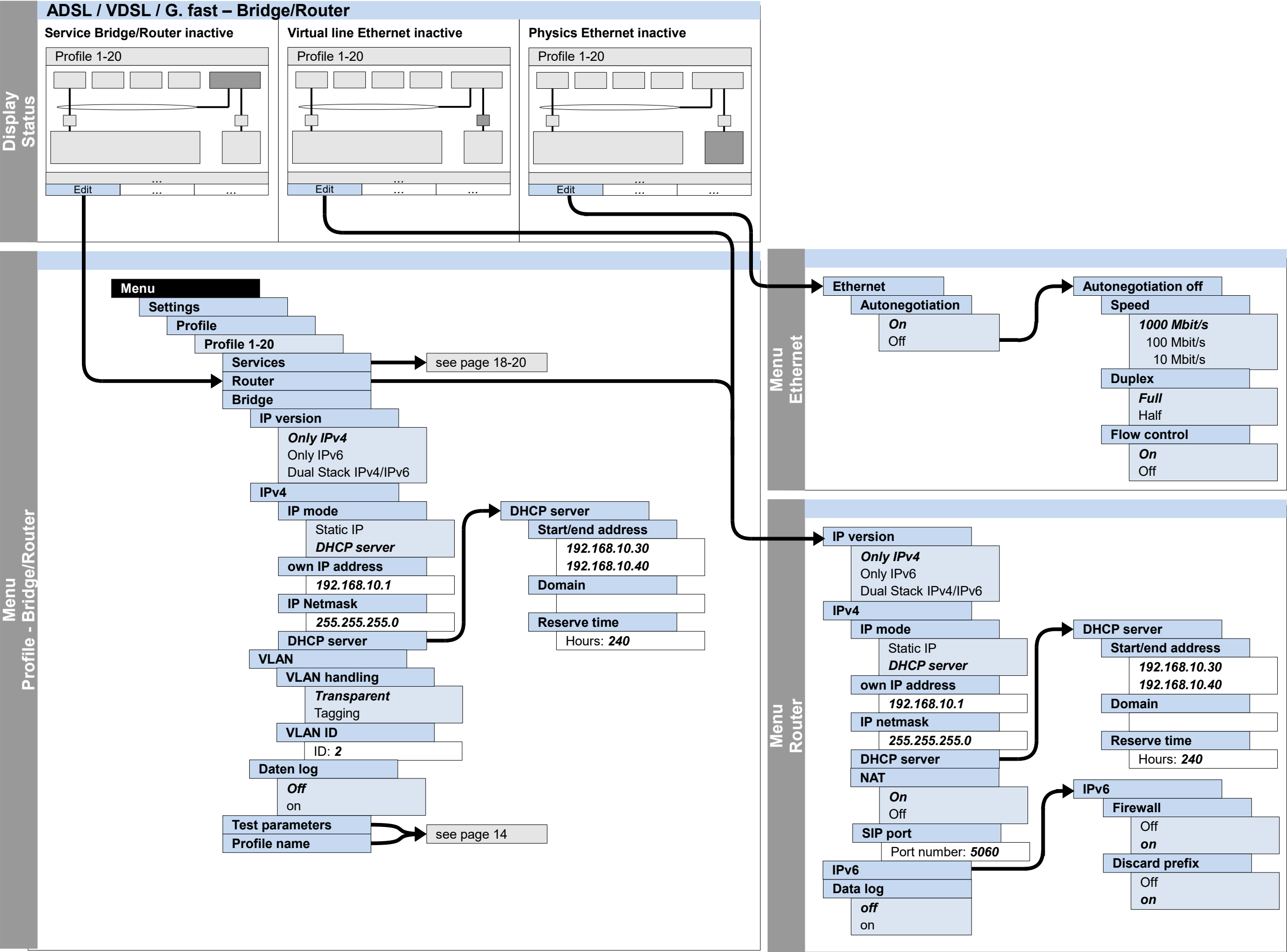
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Profile – Bridge/Router (Ethernet, Virtual line, Router)

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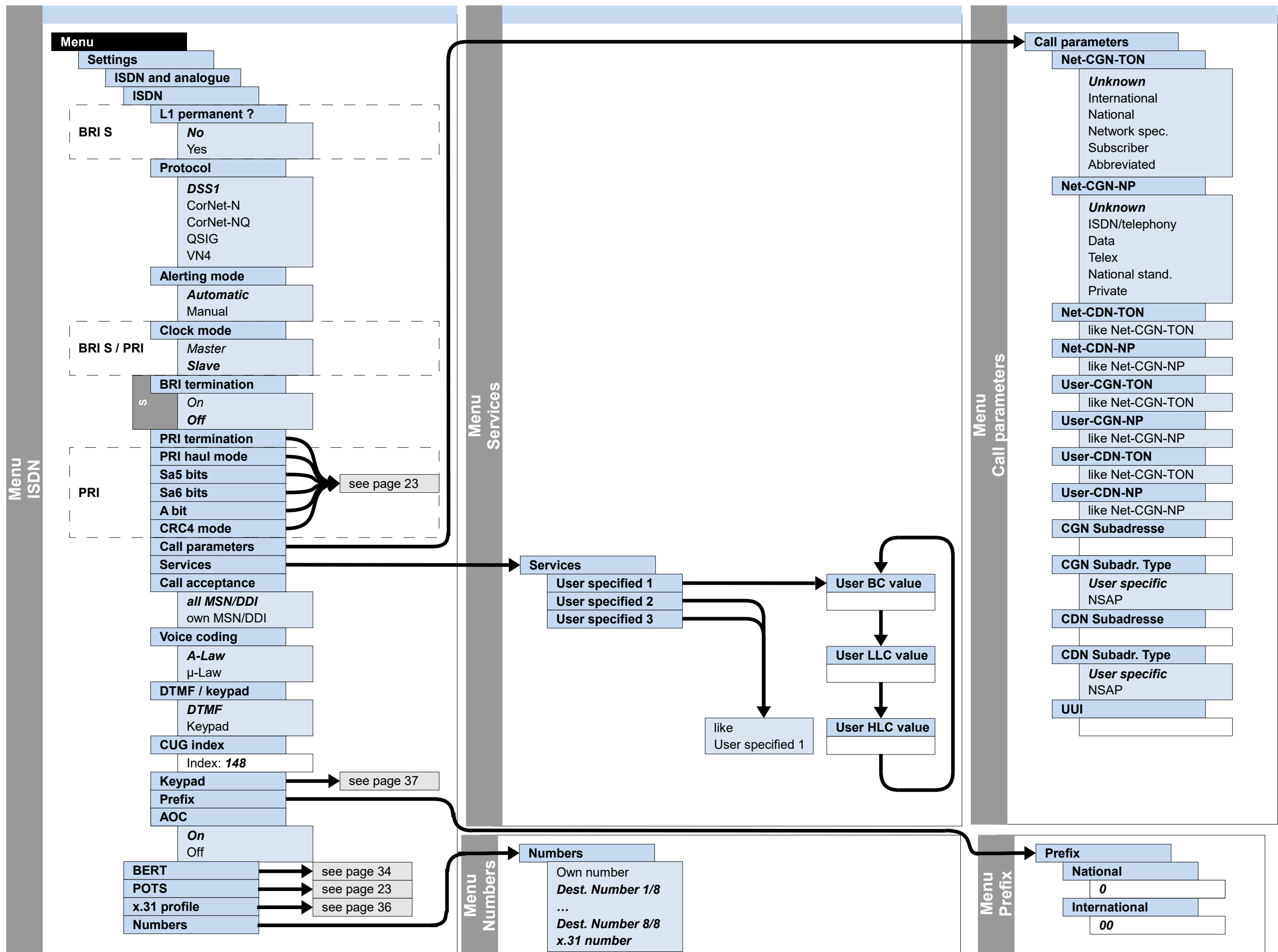


Settings

ISDN (General, BRI S, BRI U)

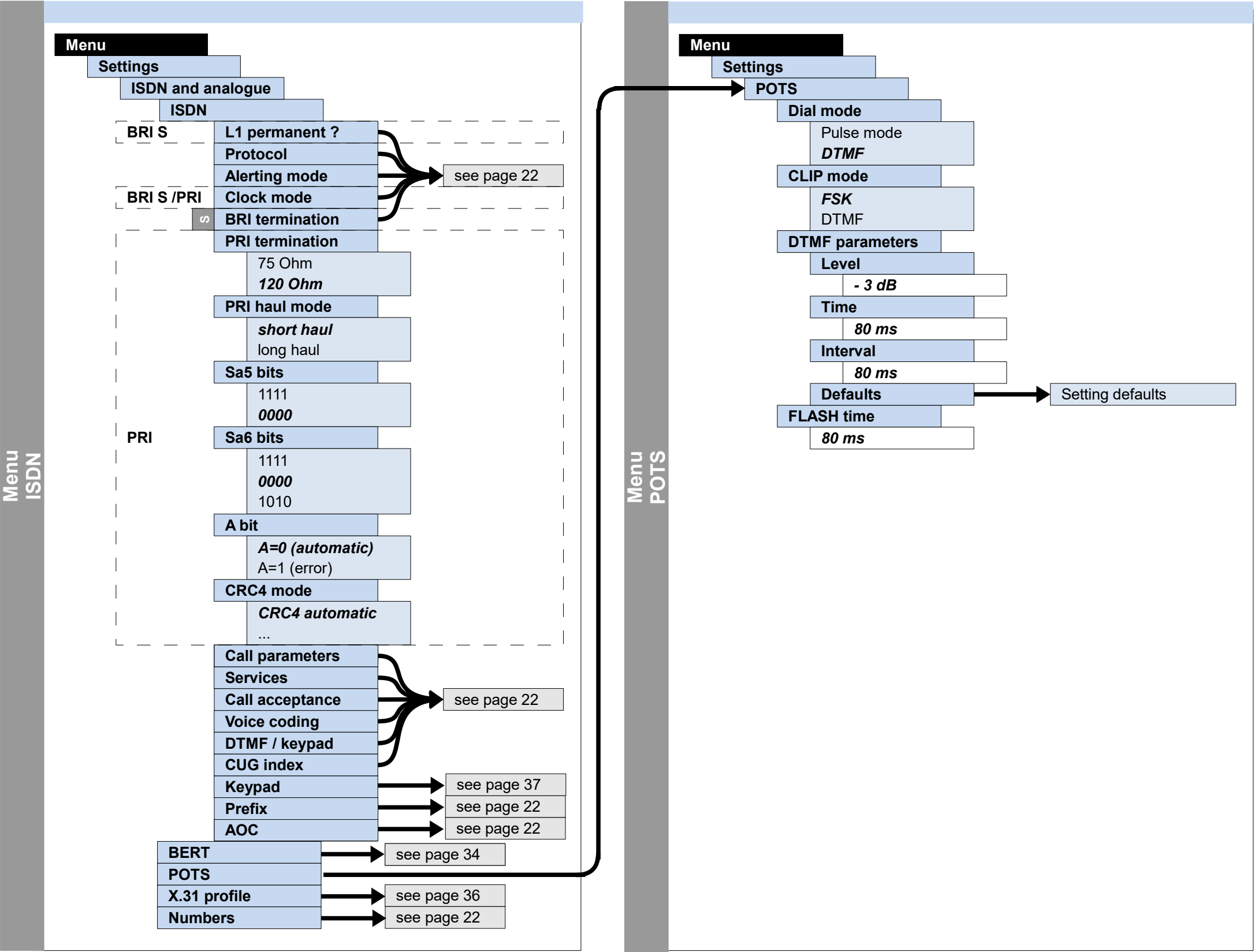
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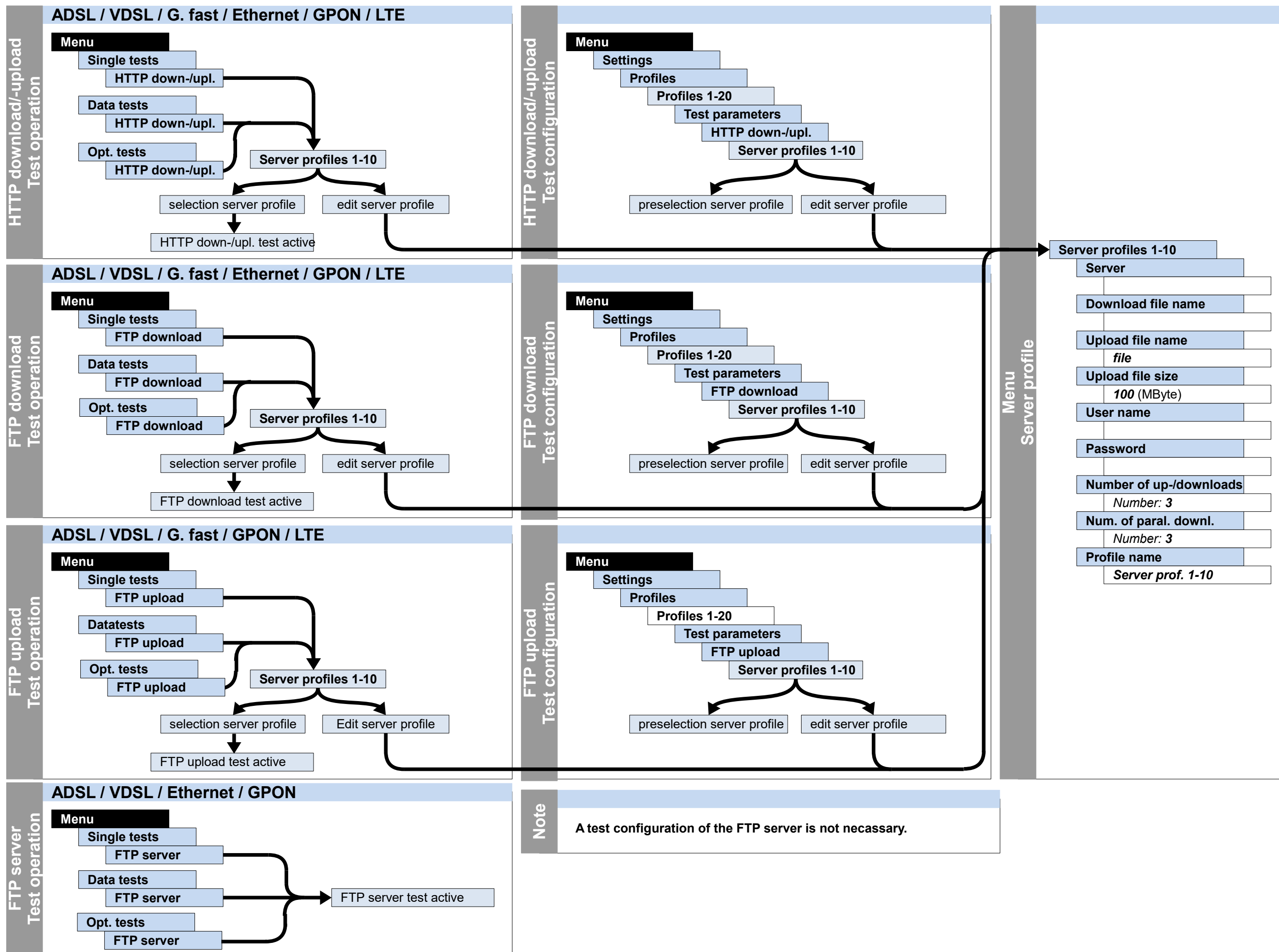
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ISDN (PRI), POTS

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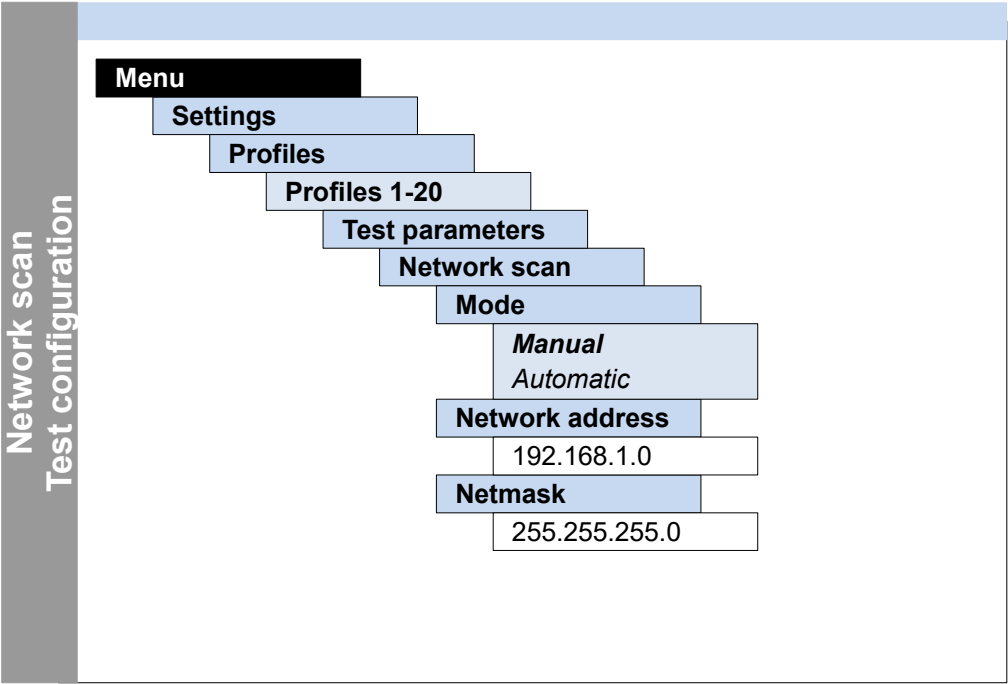
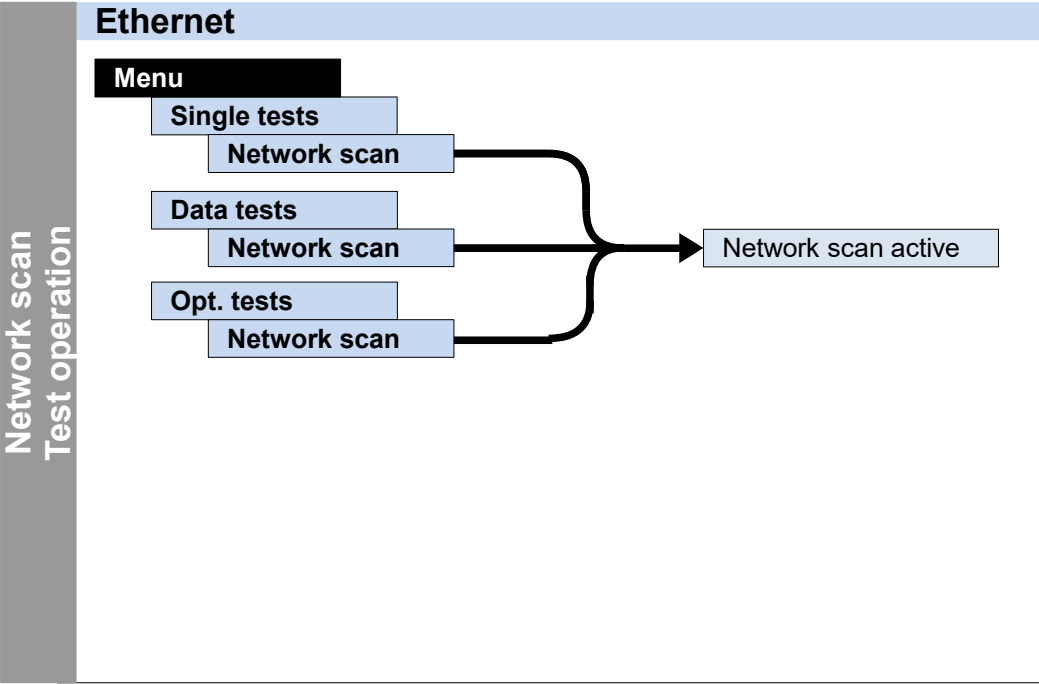
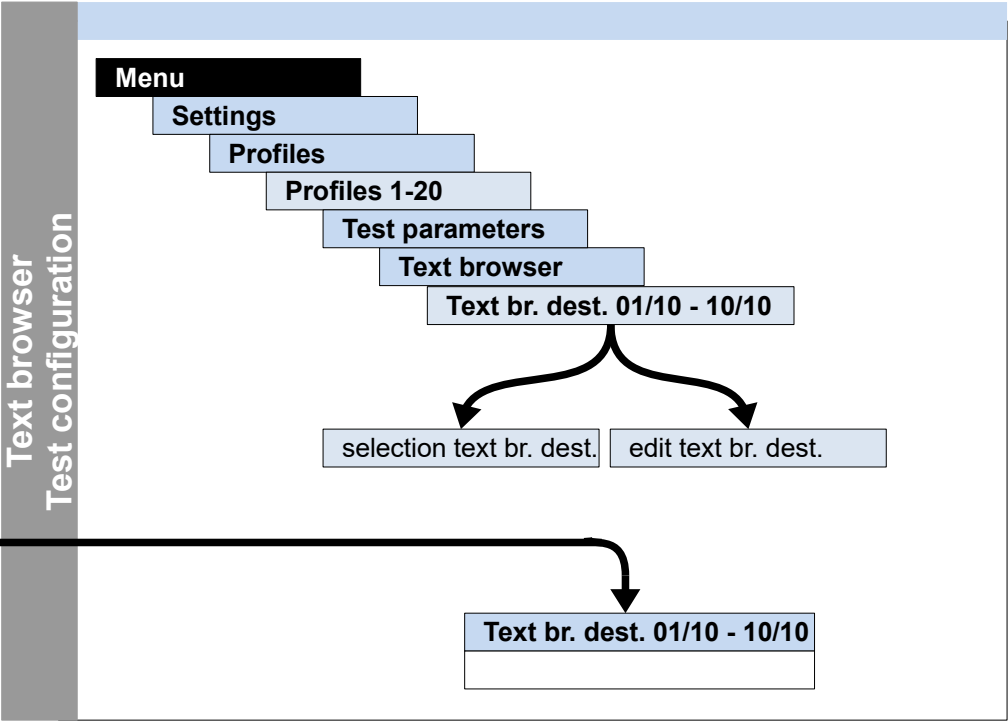
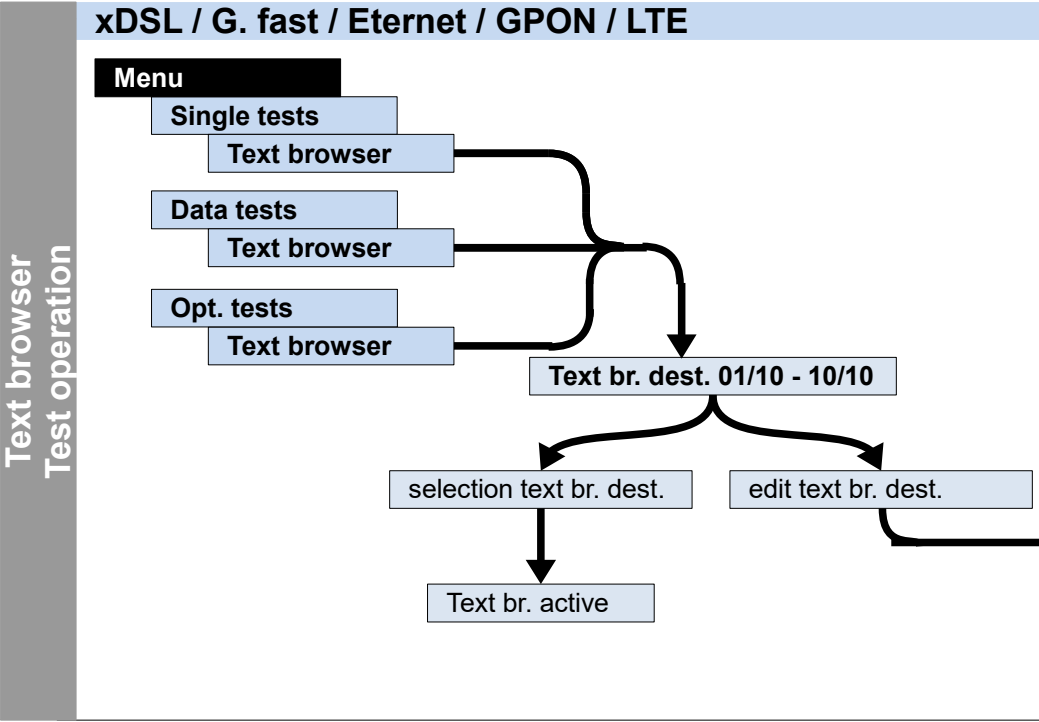
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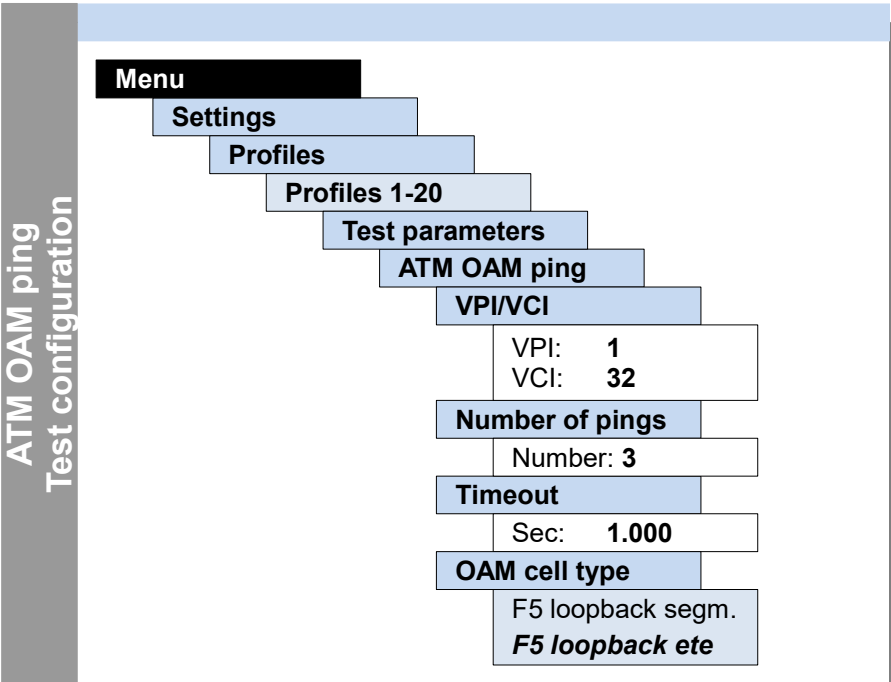
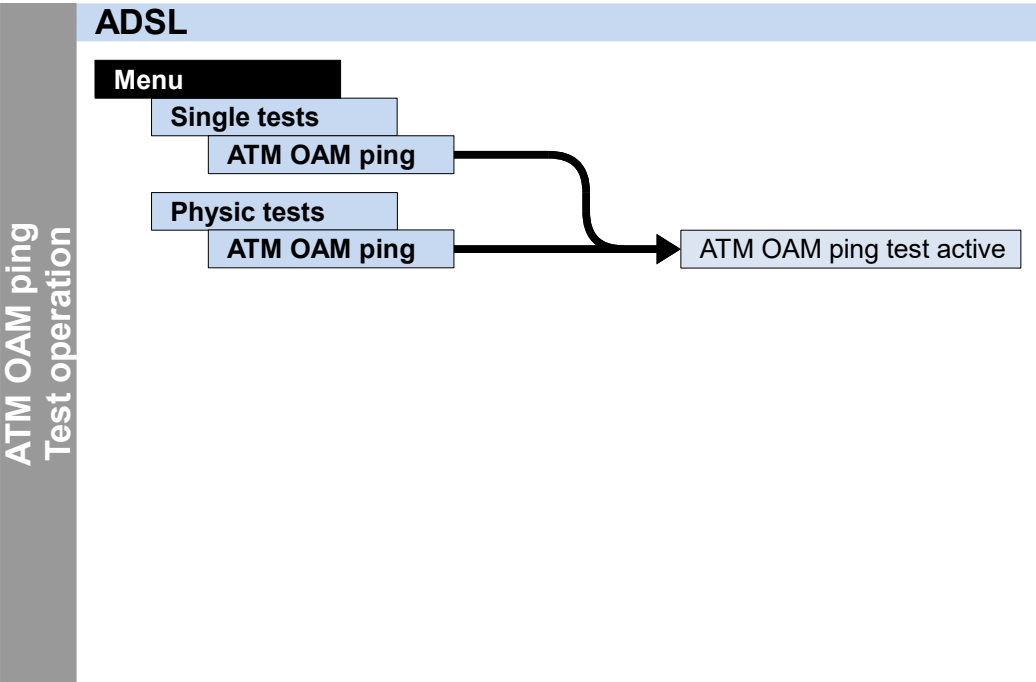
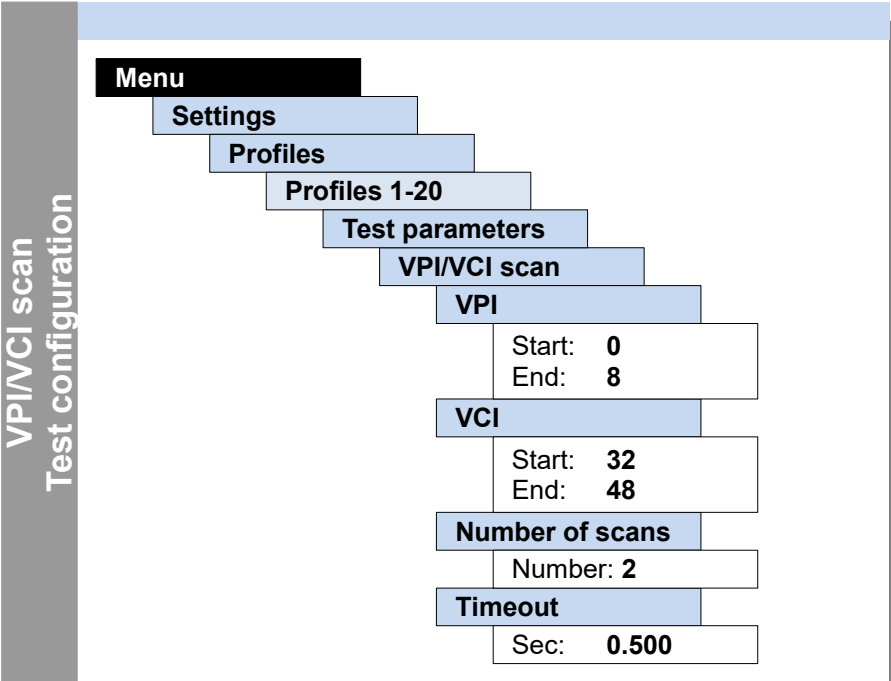
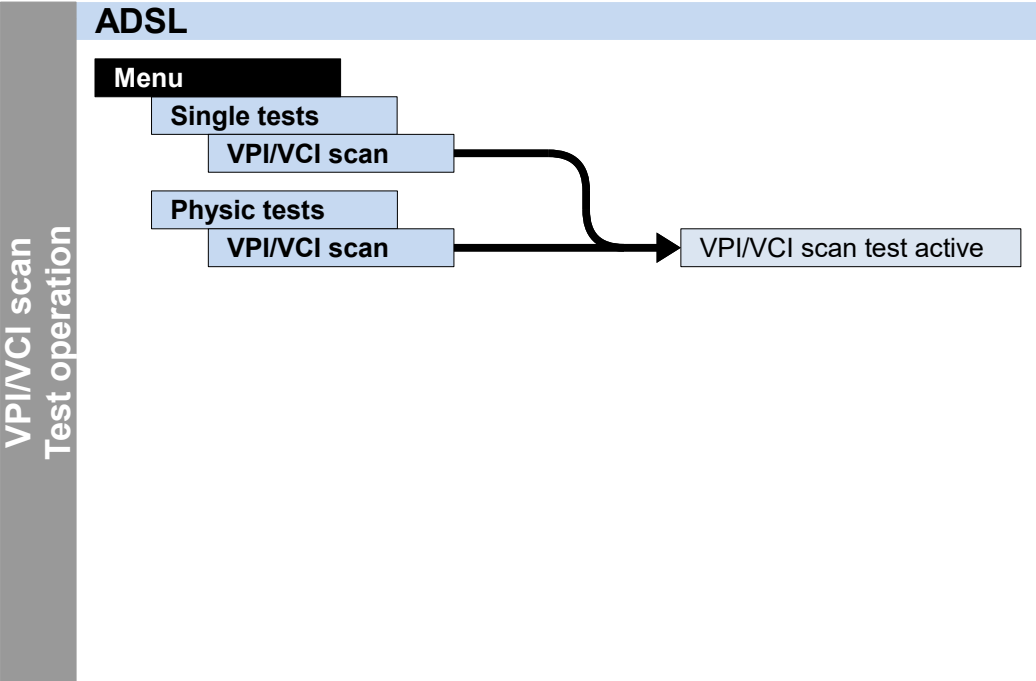
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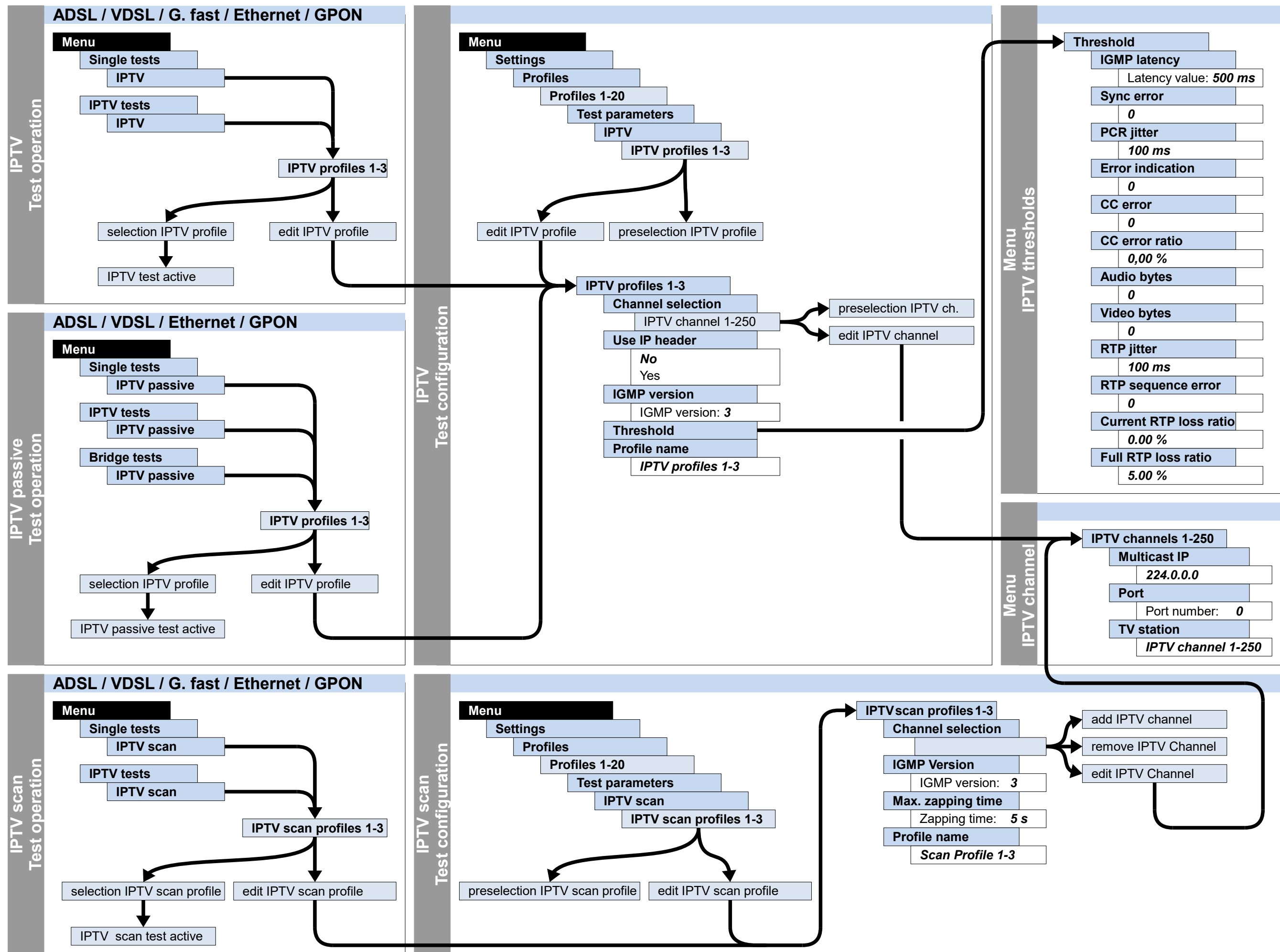
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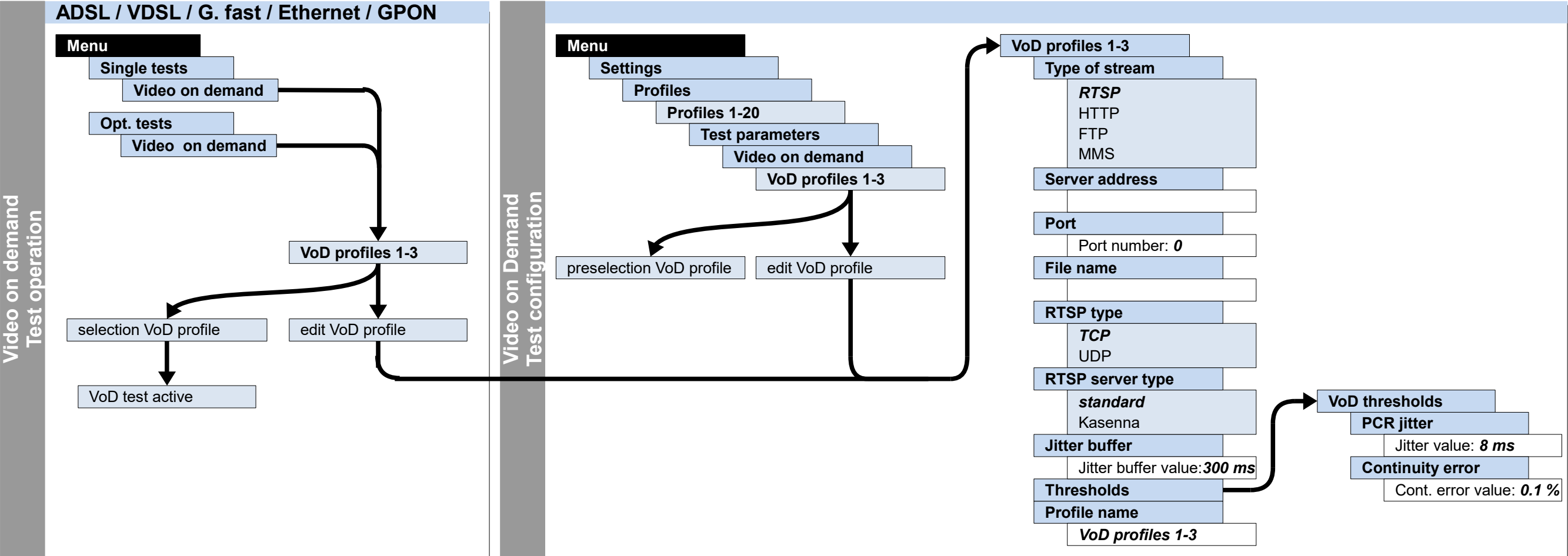
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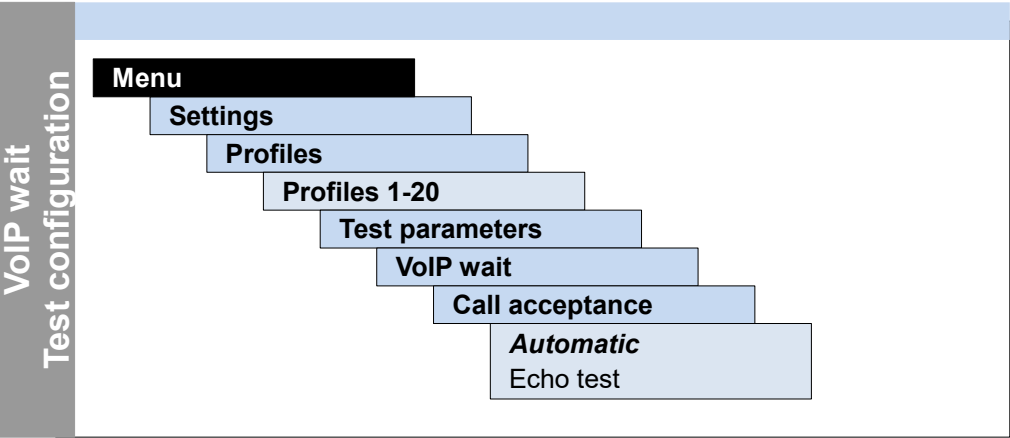
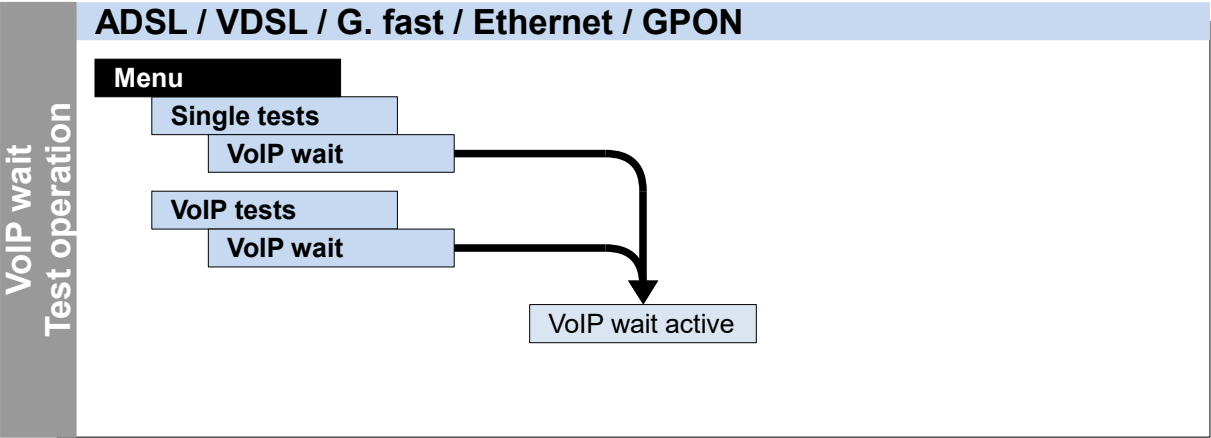
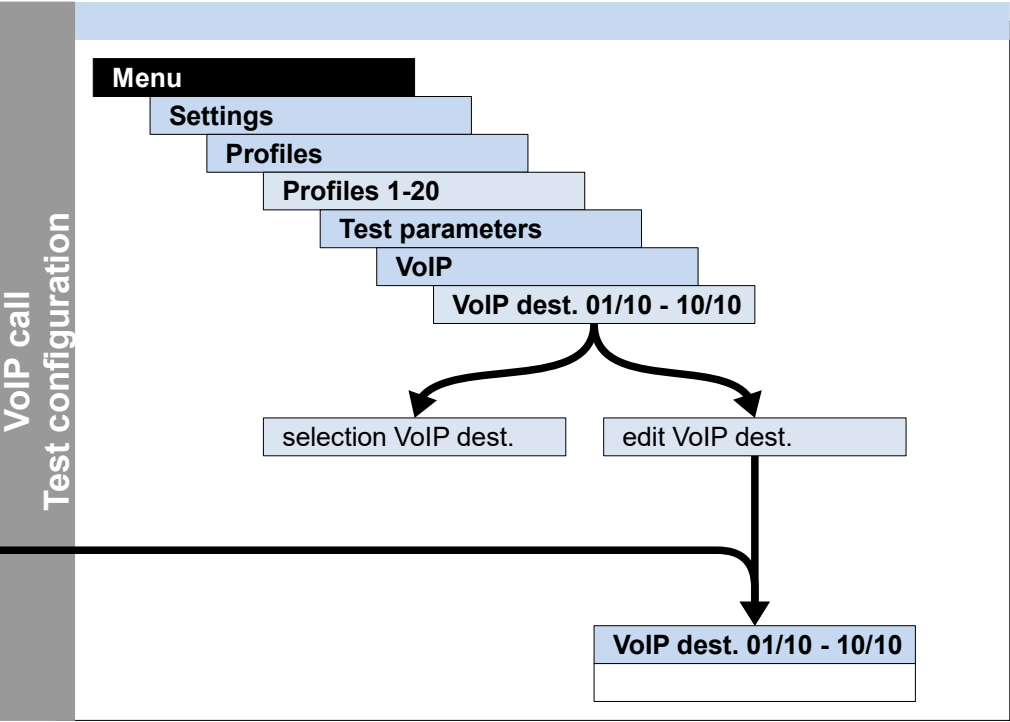
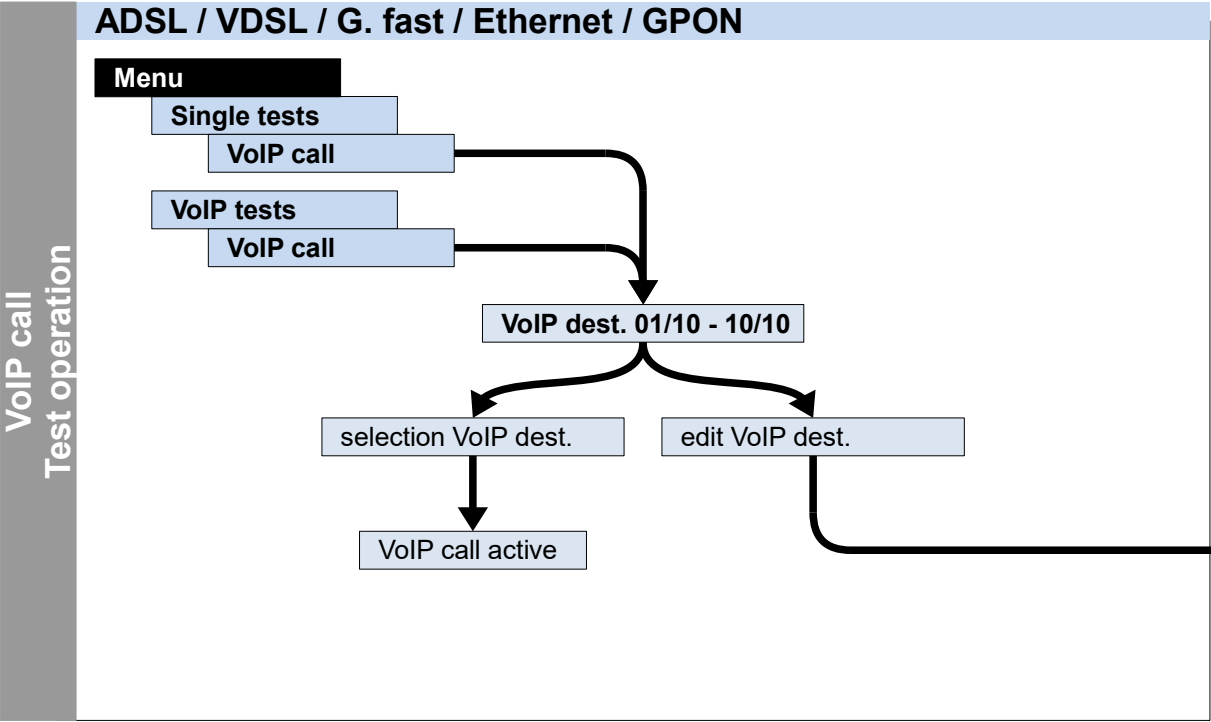
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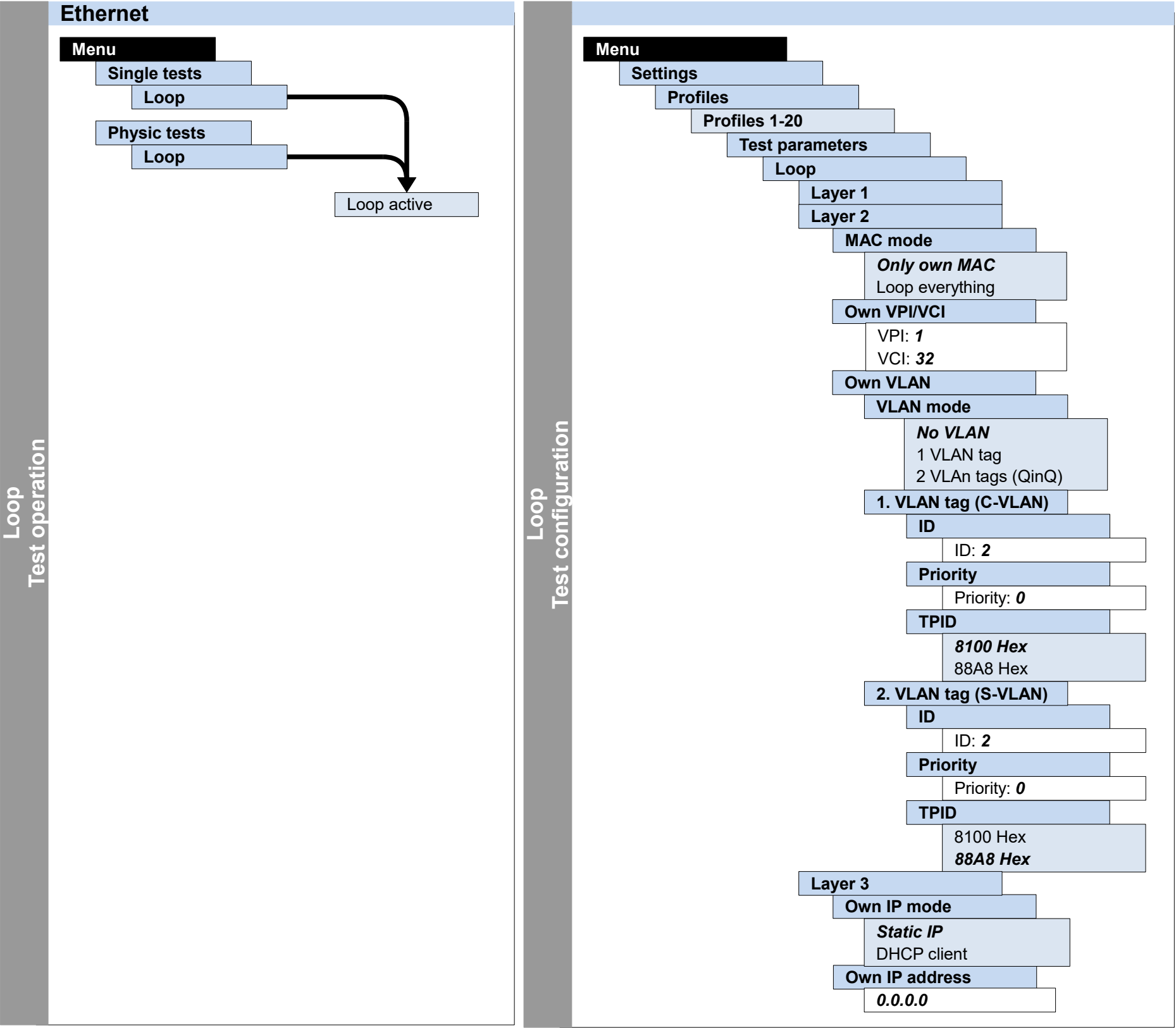
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Cross reference:

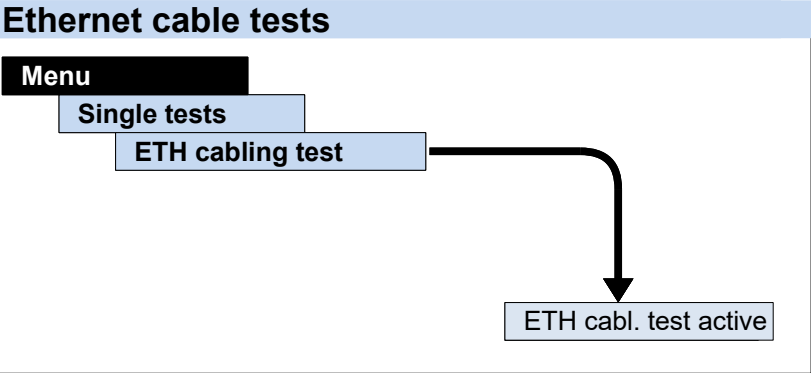
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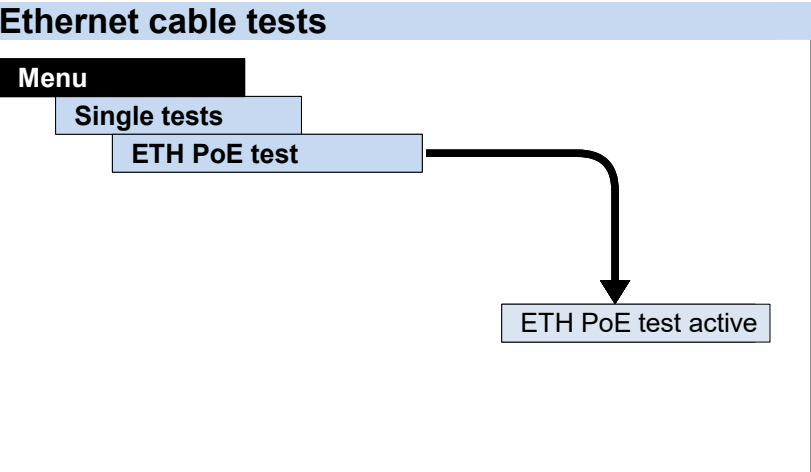
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ETH cabling test
Test operation



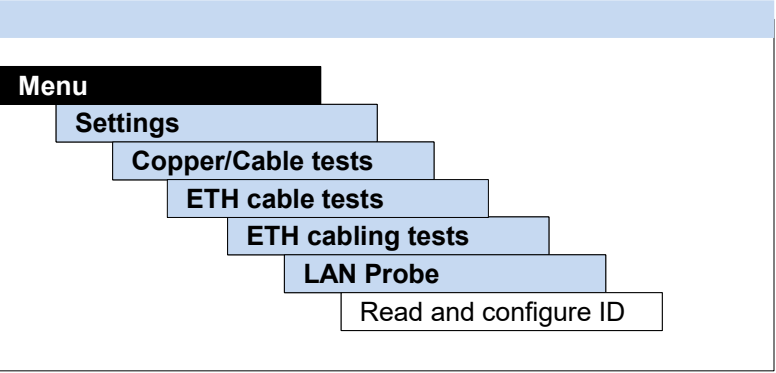
ETH PoE test
Test operation



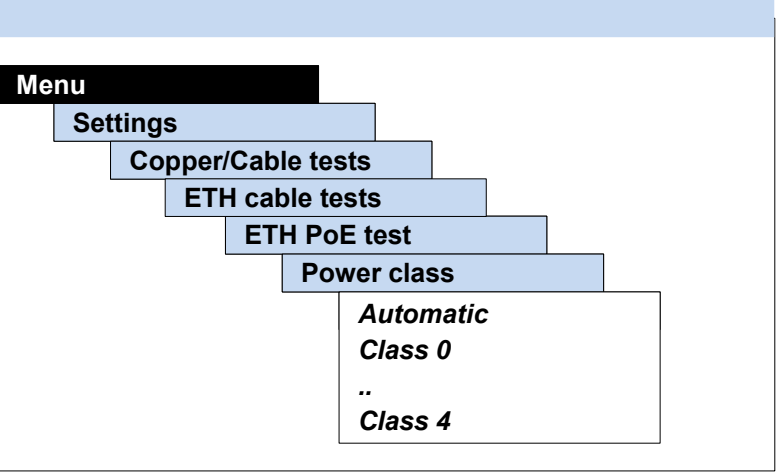
Note

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

ETH cabling test
configuration

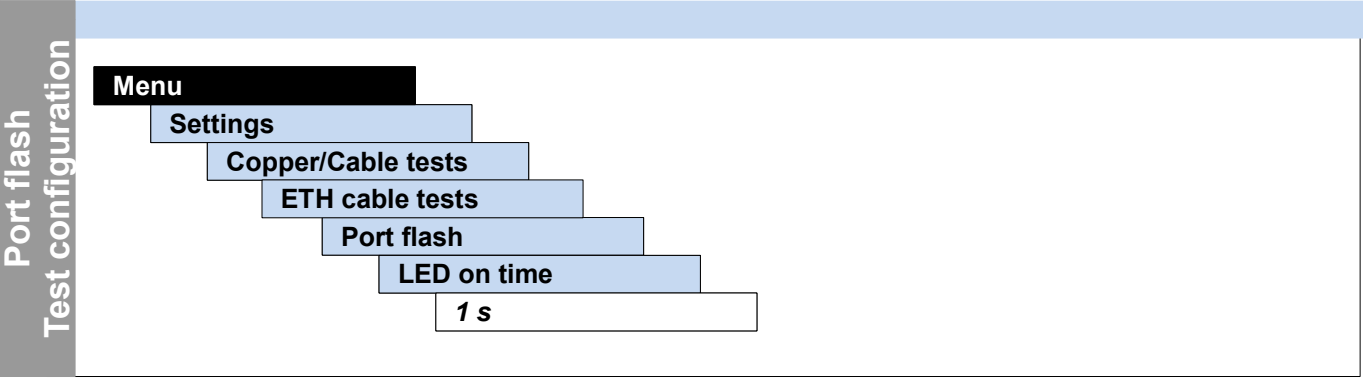
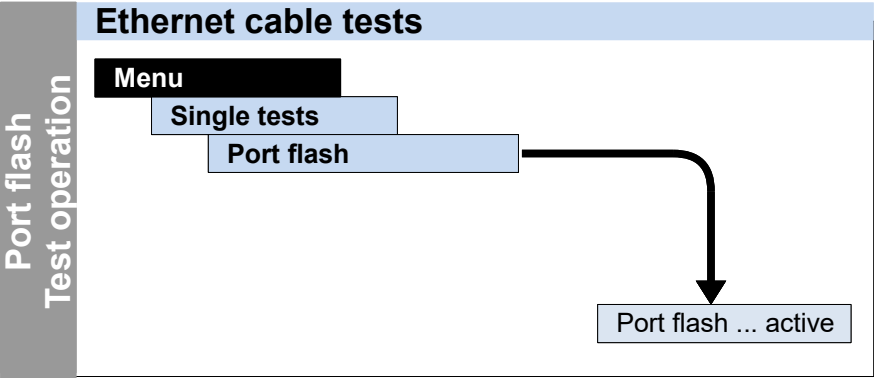
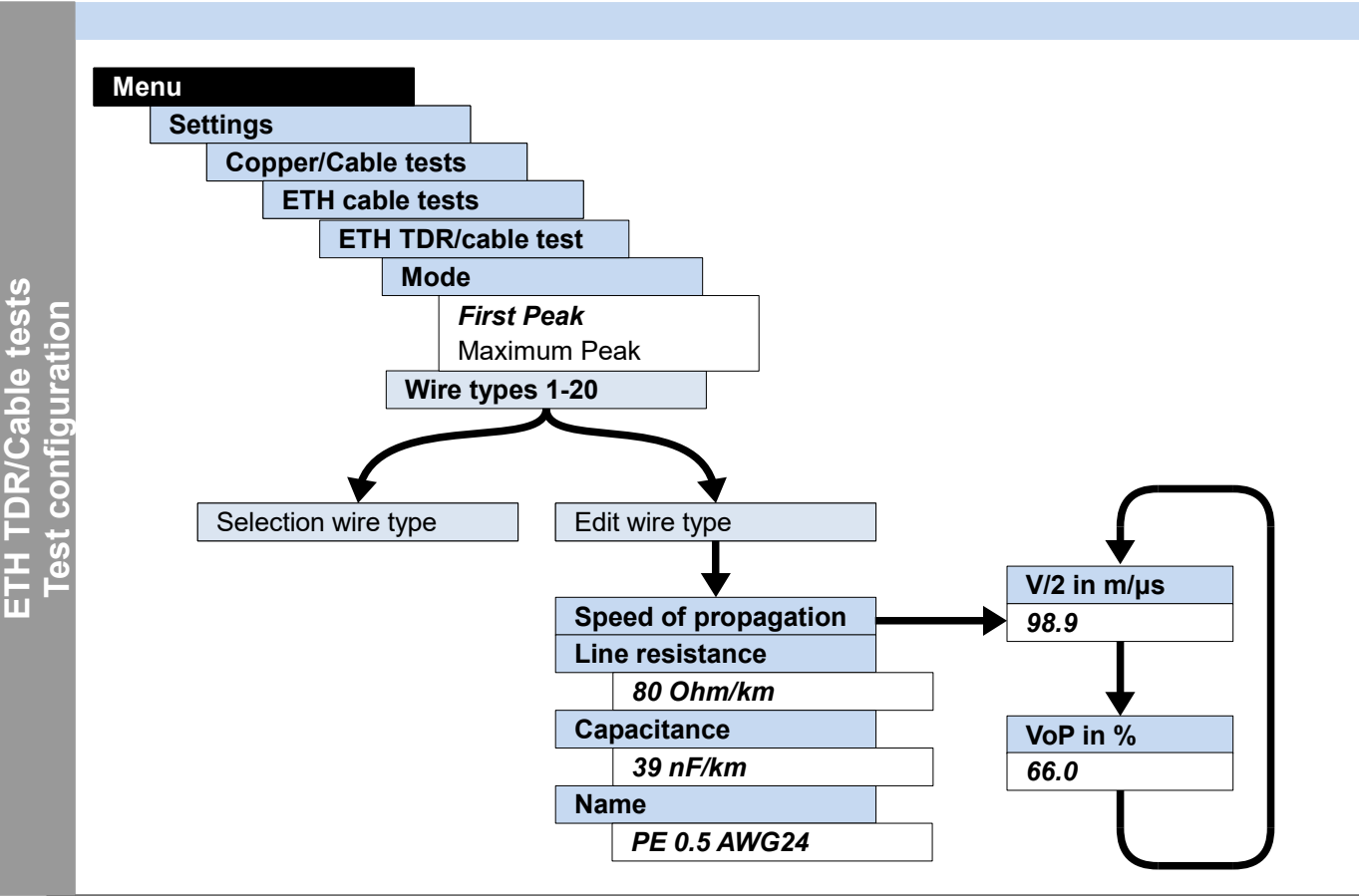
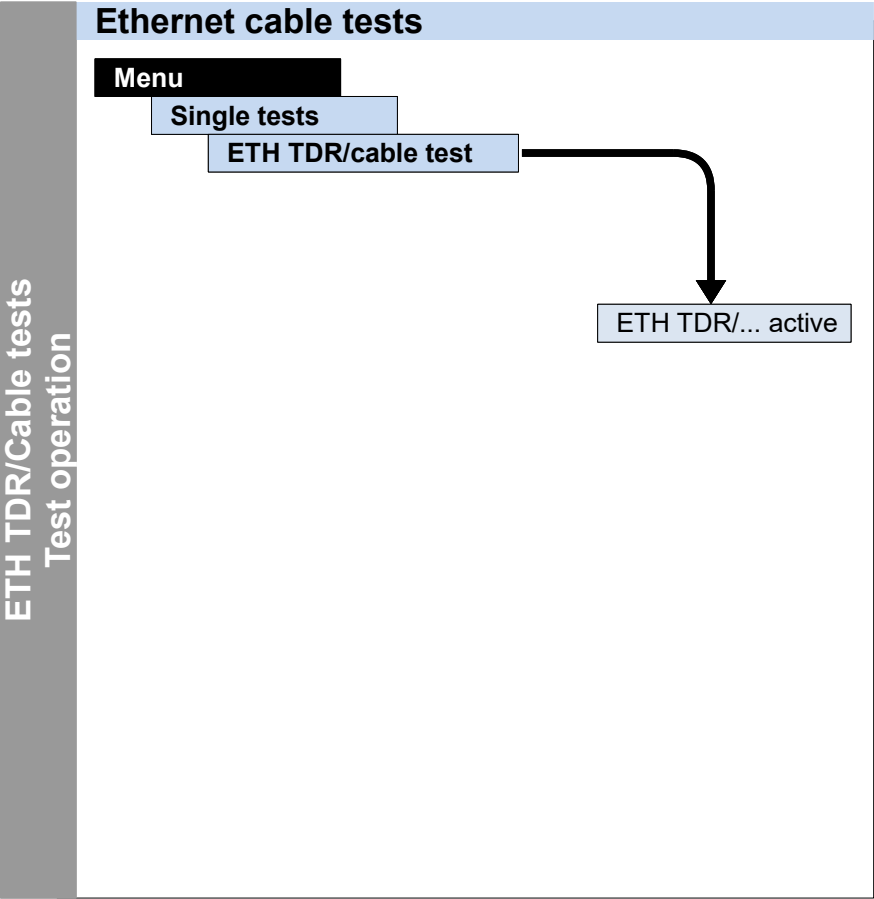


ETH PoE test
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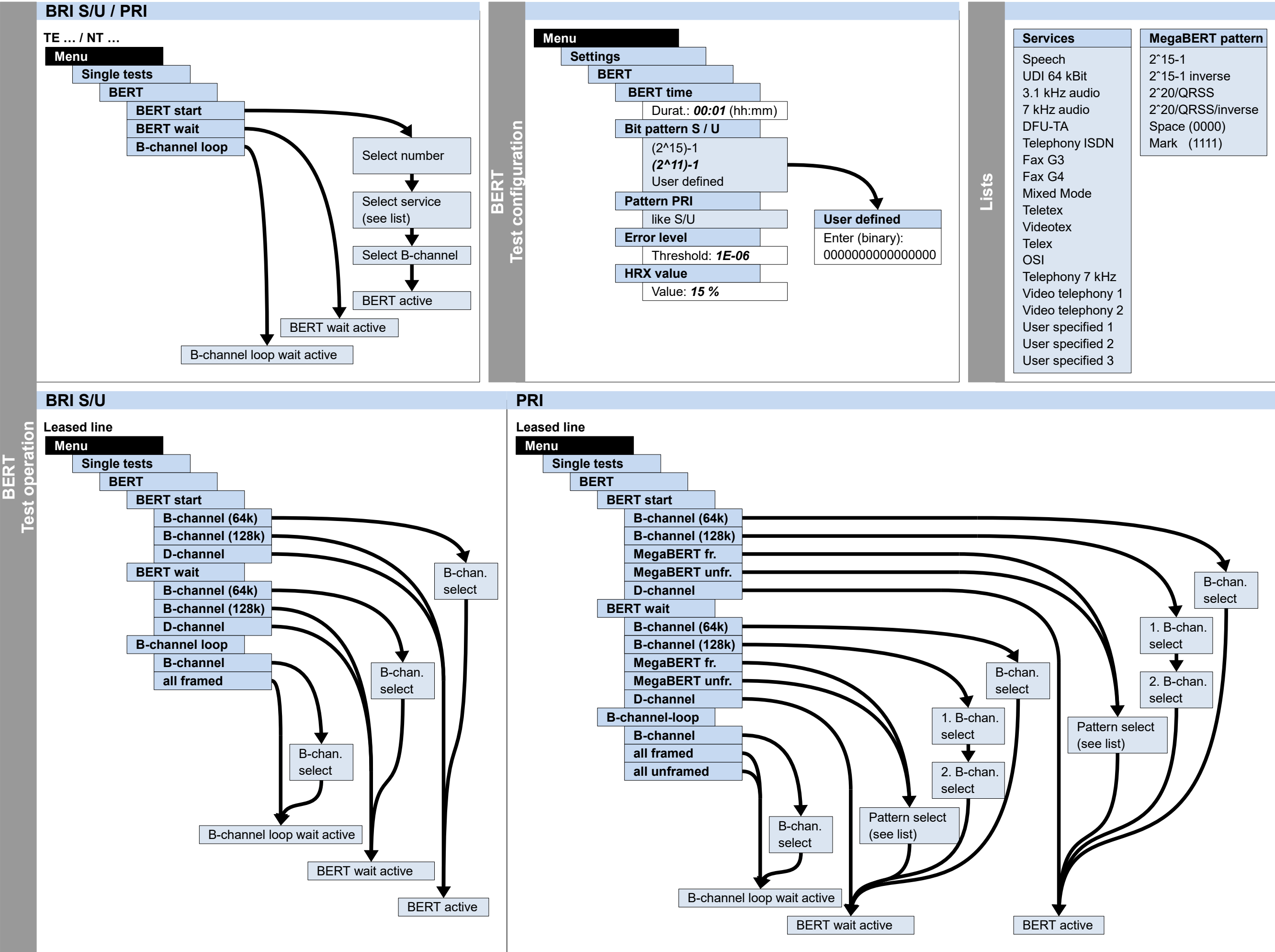


Note

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

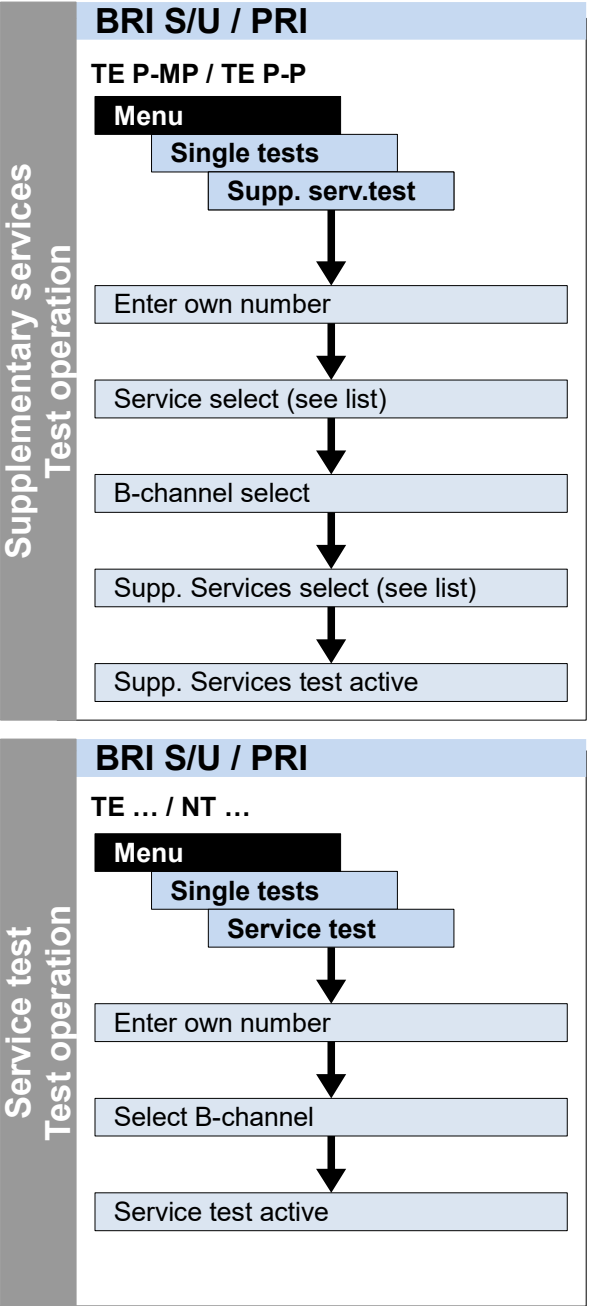
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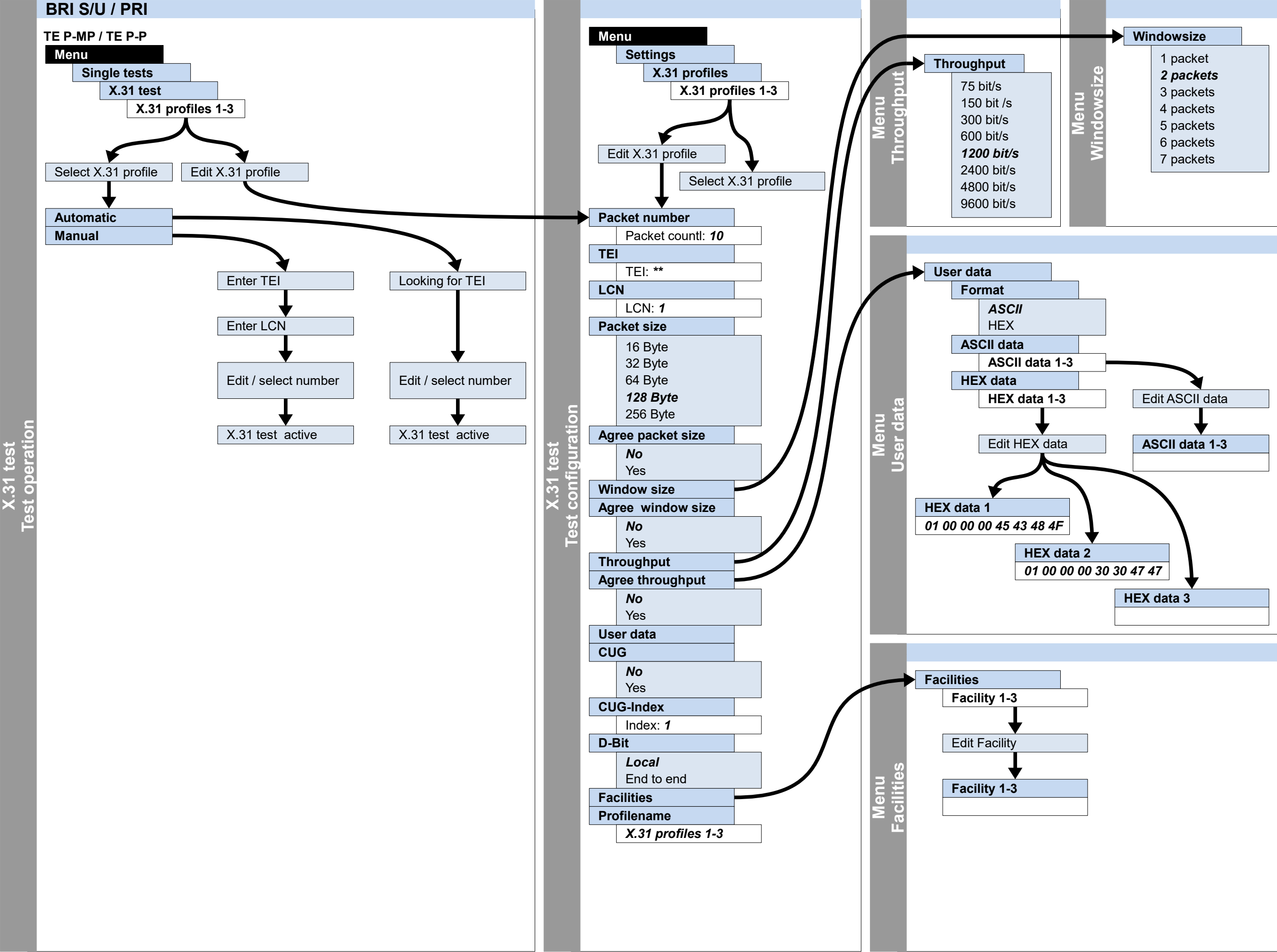
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7 kHz audio
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Fax G3
Fax G4
Mixed Mode
Teletex
Videotex
Telex
OSI
Telephony 7 kHz
Video telephony 1
Video telephony 2
User specified 1
User specified 2
User specified 3

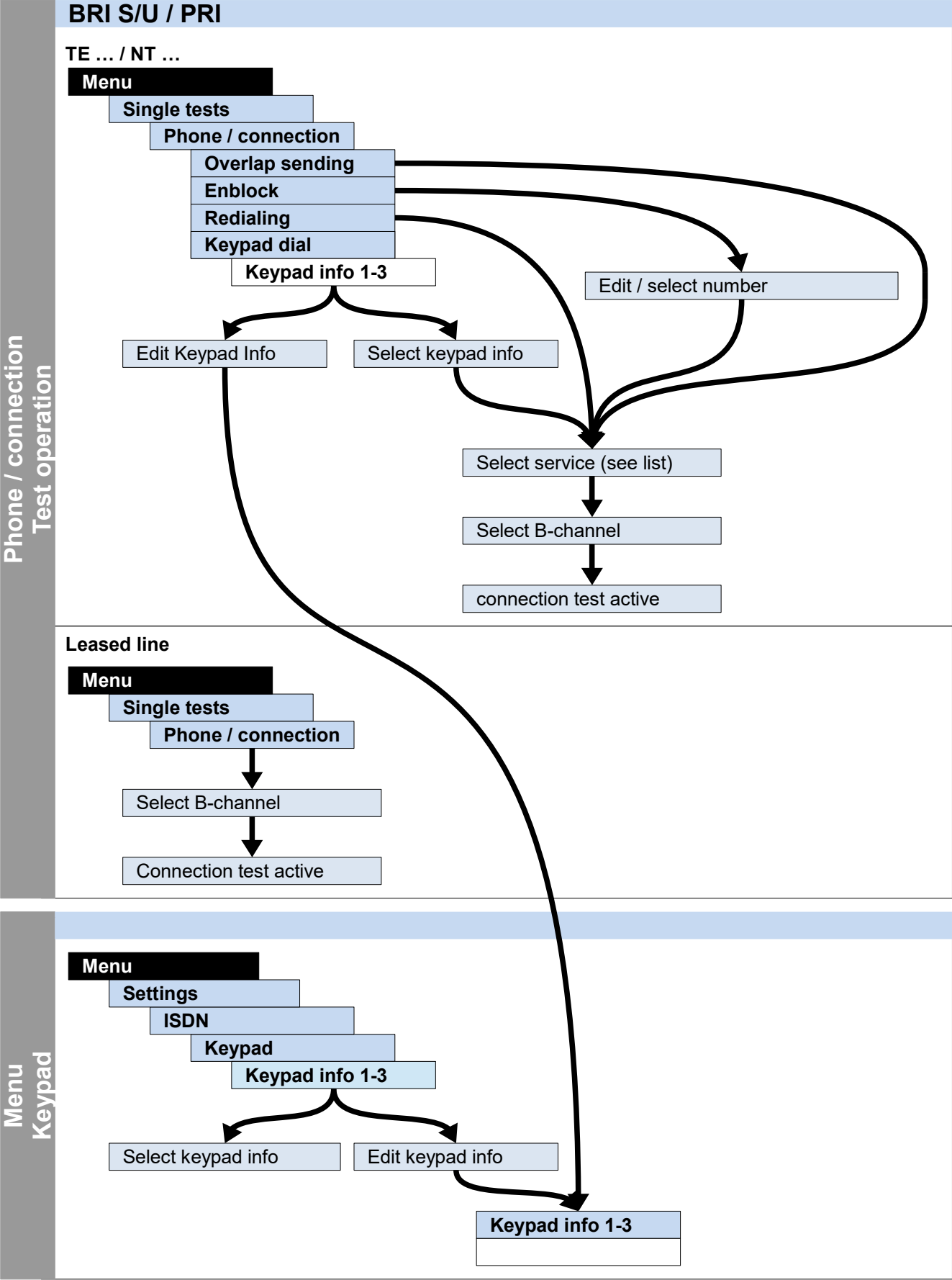
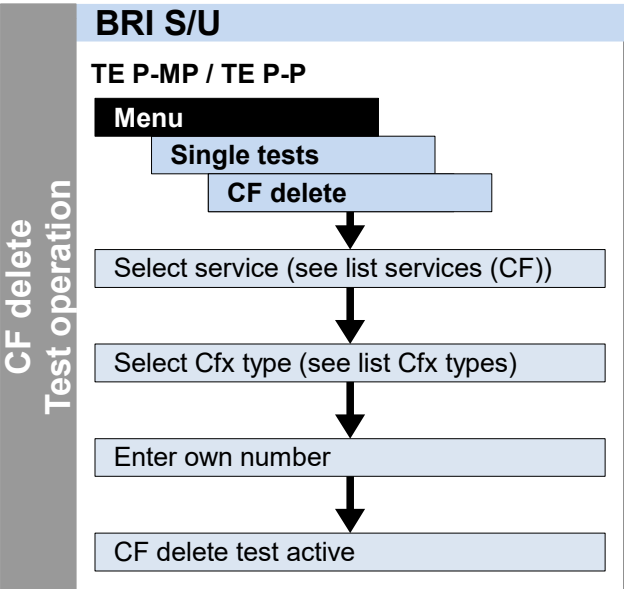
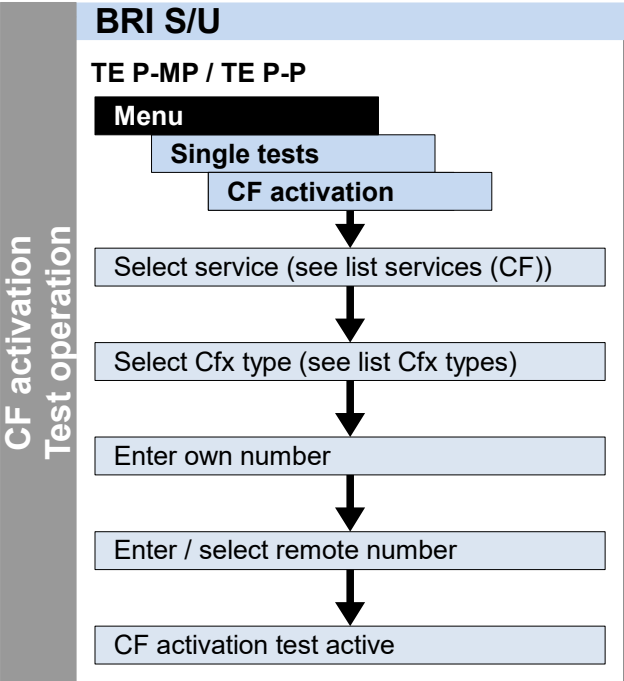
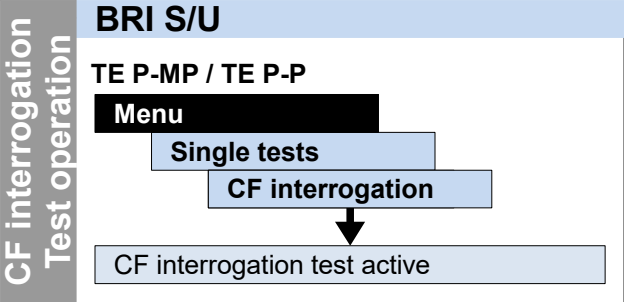
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COLP/COLR
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CFU
CFB
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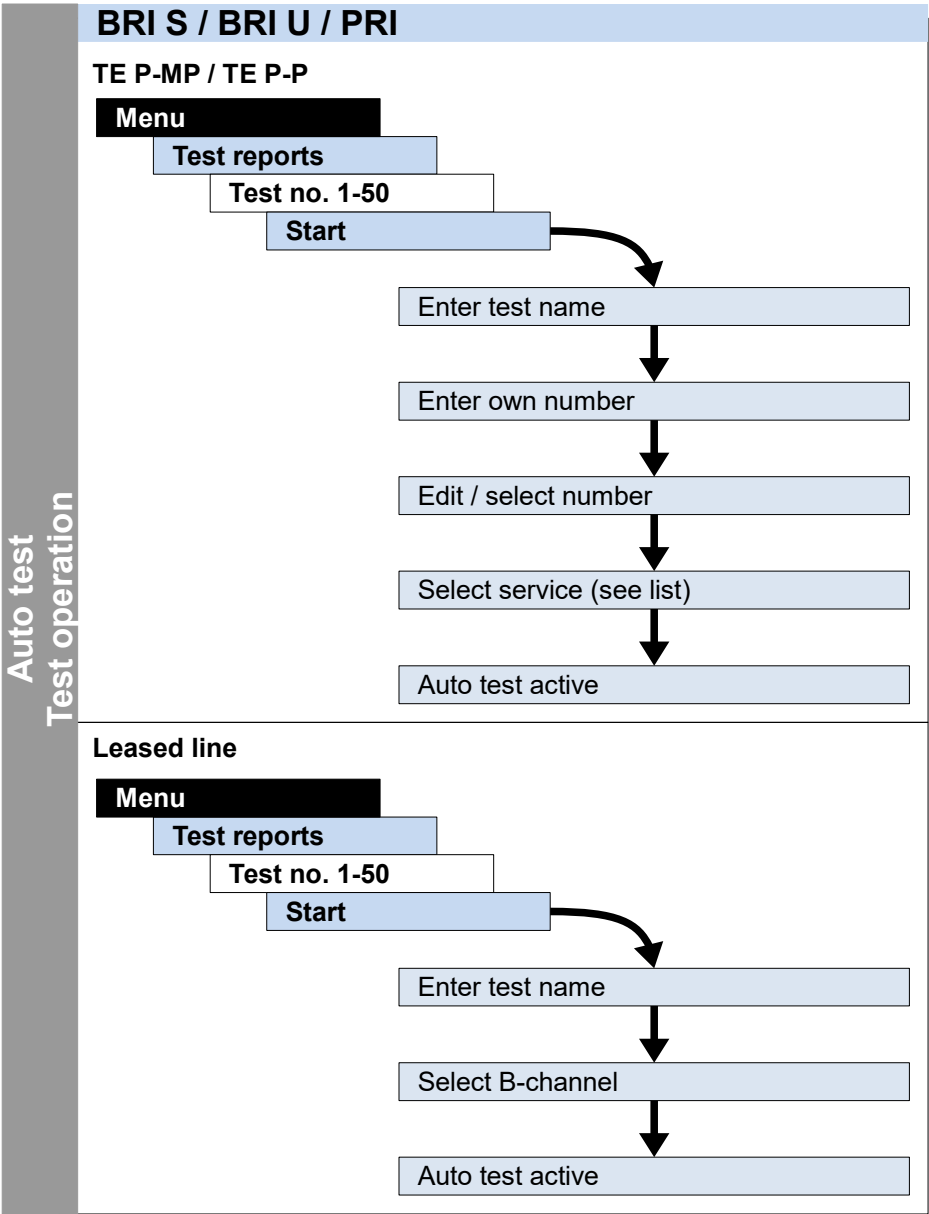
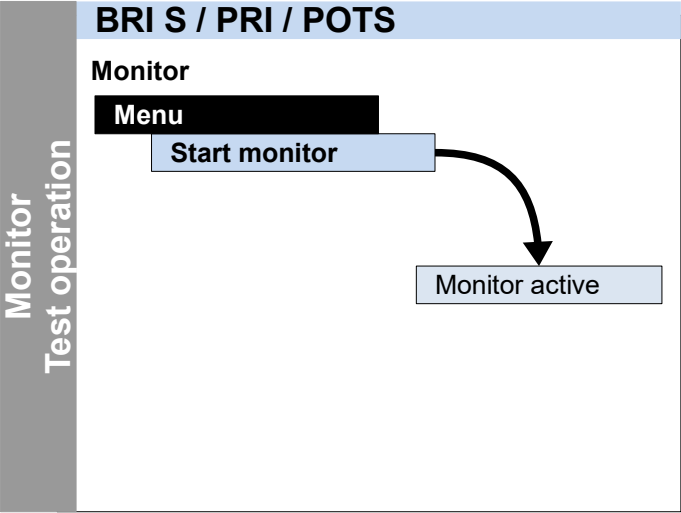
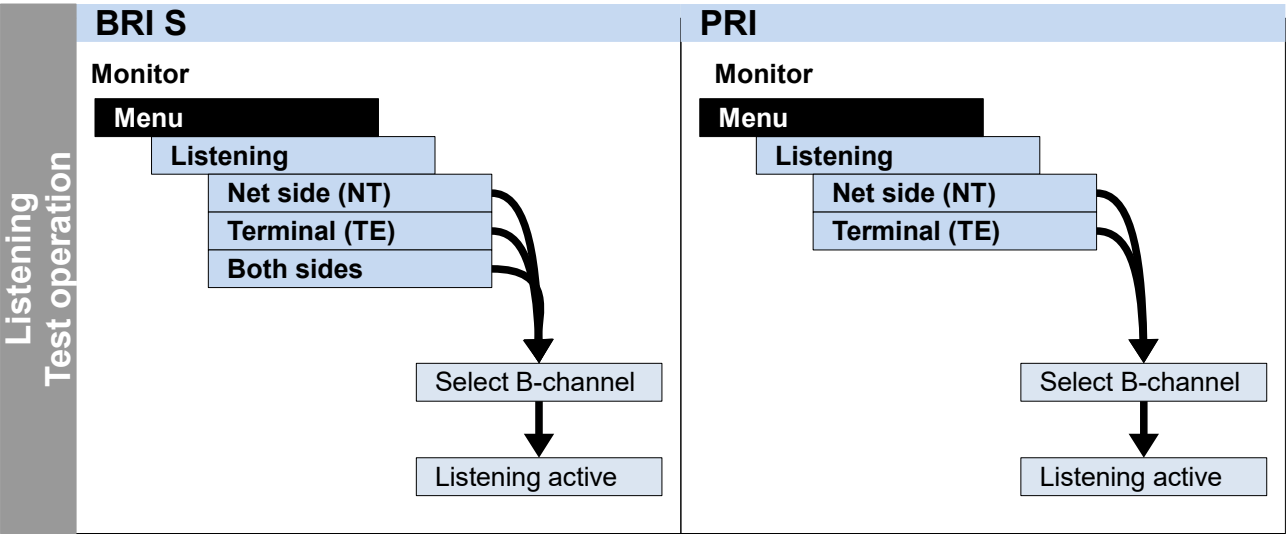
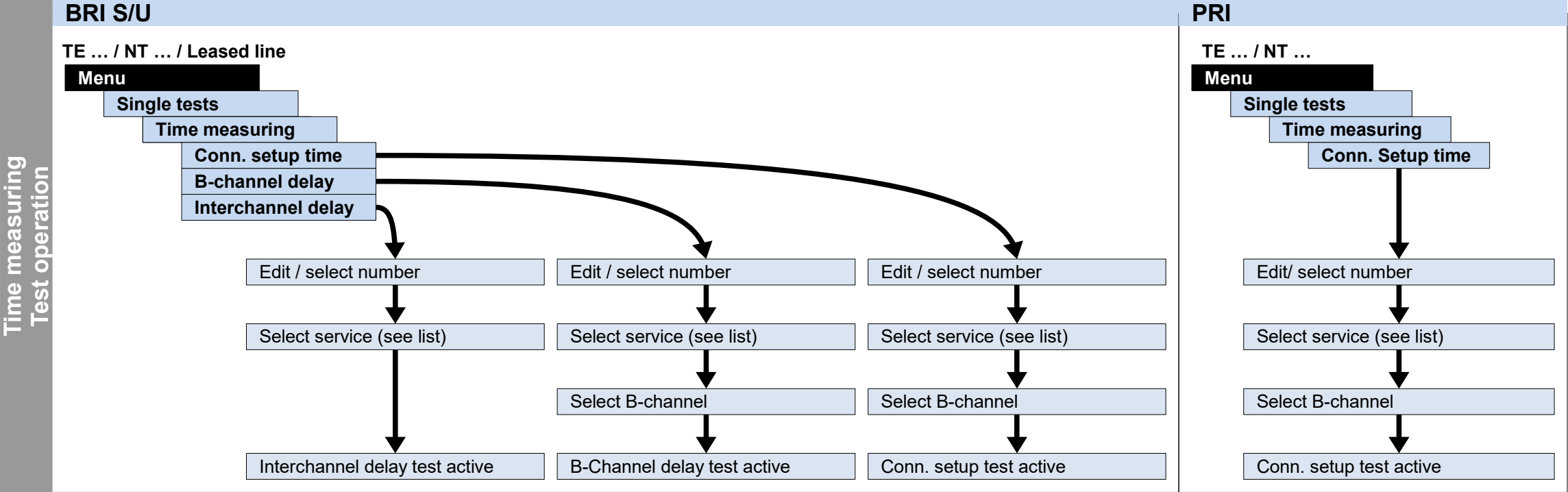


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7 kHz audio
IDU TA
Telephony ISDN
Fax G3
Fax G4
Mixed Mode
Teletex
Videotex
Telex
OSI
Telephony7 kHz
Videotelephony 1
Videotelephony 2
User specified 1
User specified 2
User specified 3
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DFU
A3K1H
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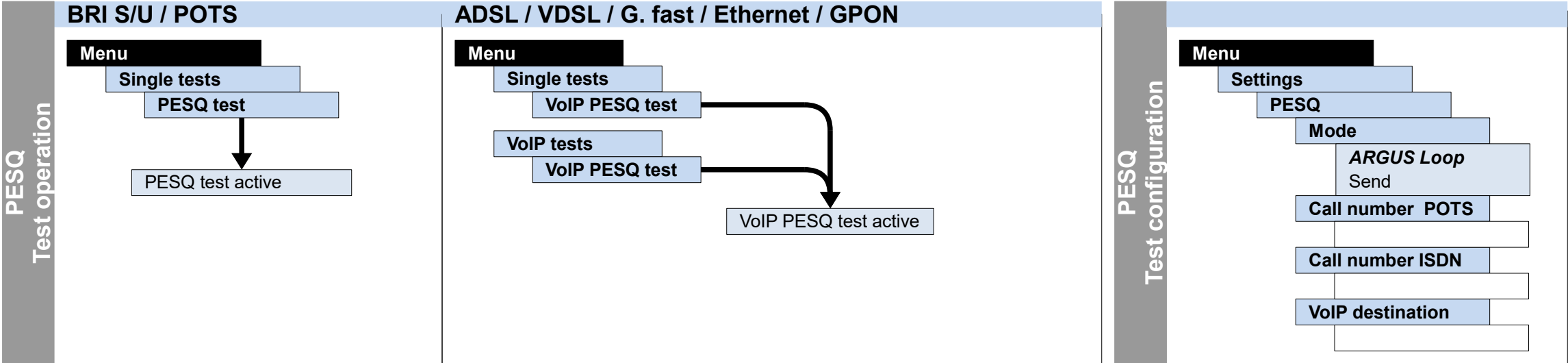


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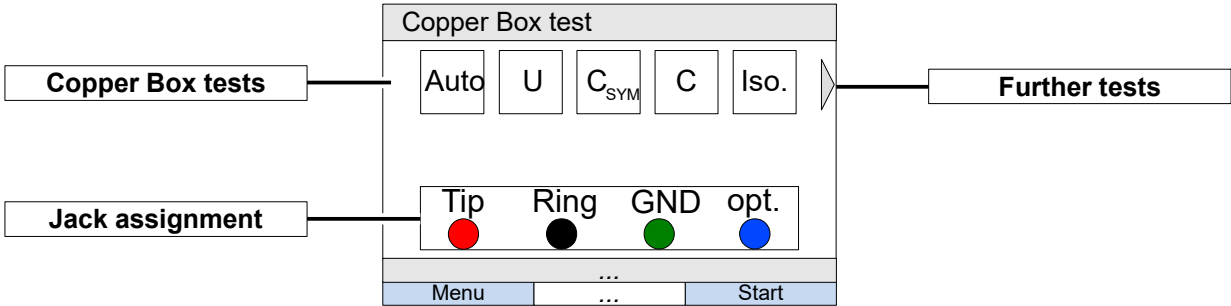


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Legend
status

ARGUS Copper Box



Menu hotkeys

ARGUS Copper Box

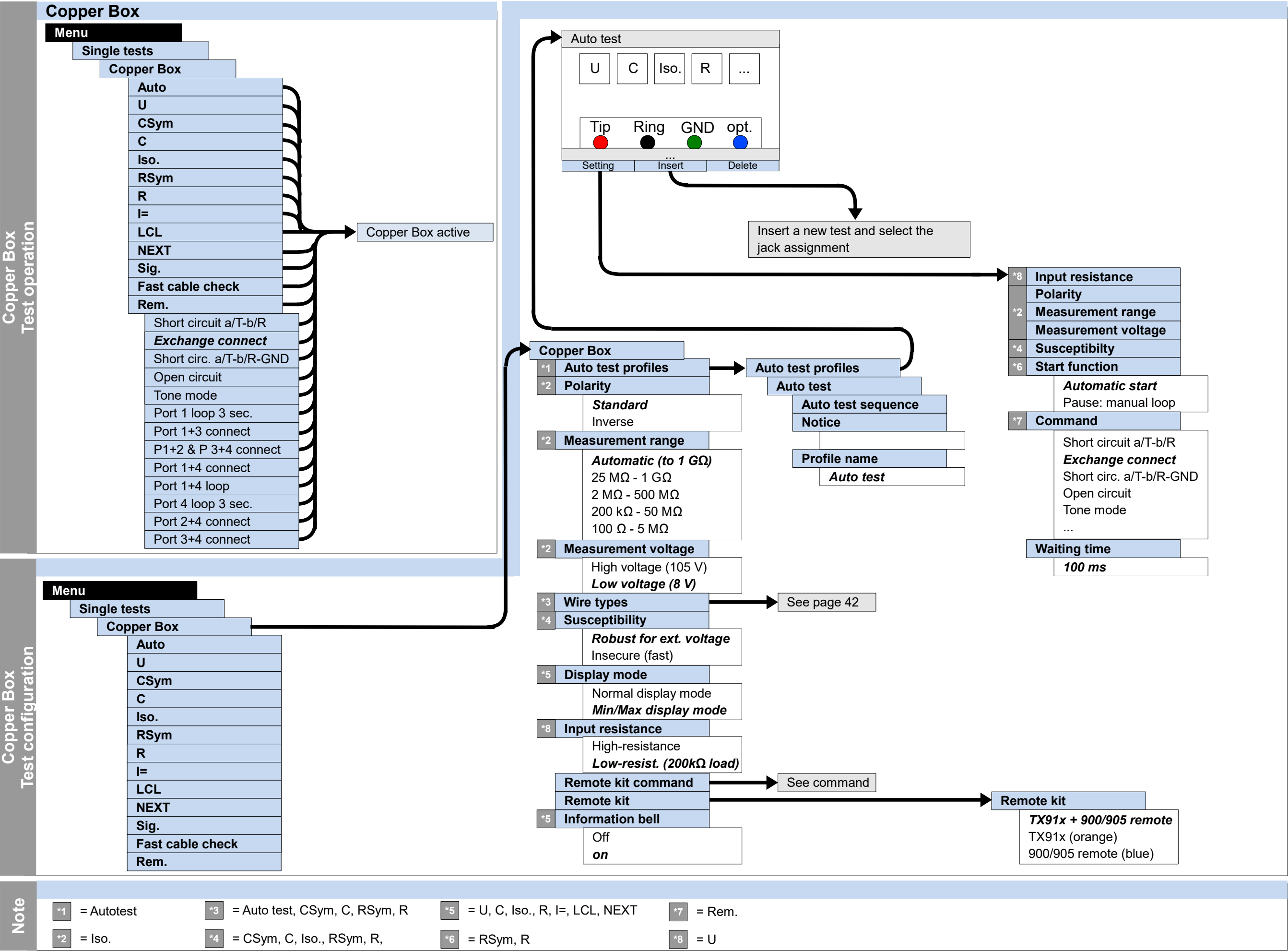
Key	Auto test	Voltage measurement	Capacitive symmetry measurement	Capacitance measurement	Isolation resistance measurement	Resistance symmetry measurement	Loop resistance measurement	DC current measurement	Unbalance	Near-end crosstalk	Termination detection	Fast cable check	Remote control of loop assistant
0	-	Reset	-	Reset	-	-	Reset	-	-	-	-	-	-
1	Auto test prof.	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	Polarity	-	-	-	-	-	-	-	-
4	-	-	-	-	Meas. range	-	-	-	-	-	-	-	-
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6	Wire types	-	Wire types	-	Wire types	-	-	-	-	-	-	-	-
7	QR code	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	Susceptibility	-	-	-	-	-	-	-	-	-	-
9	-	Display mode	-	Display mode	-	-	Display mode	-	-	-	-	-	-
↵	-	-	-	-	-	-	-	-	-	-	-	-	-
#	-	Input resistance	-	-	-	-	-	-	-	-	-	-	-
!	-	-	-	-	-	-	Information bell	-	-	-	-	-	-
* then 0	-	-	-	-	-	-	-	-	-	-	-	-	-
* then 1	-	-	-	-	-	-	Copper Box info	-	-	-	-	-	-
* then 2	-	-	-	-	-	-	-	-	-	-	-	-	-
* then 3	-	-	-	-	-	-	-	-	-	-	-	-	-
* then 6	-	-	-	-	-	-	-	-	-	-	-	-	-
* then 7	-	-	-	-	-	-	Store	-	-	-	-	-	-
* then #	-	-	-	-	-	-	Remote kit command	-	-	-	-	-	-
	-	-	-	-	-	-	Remote kit	-	-	-	-	-	-

Note

The hotkeys can vary depending on the selected sockets.

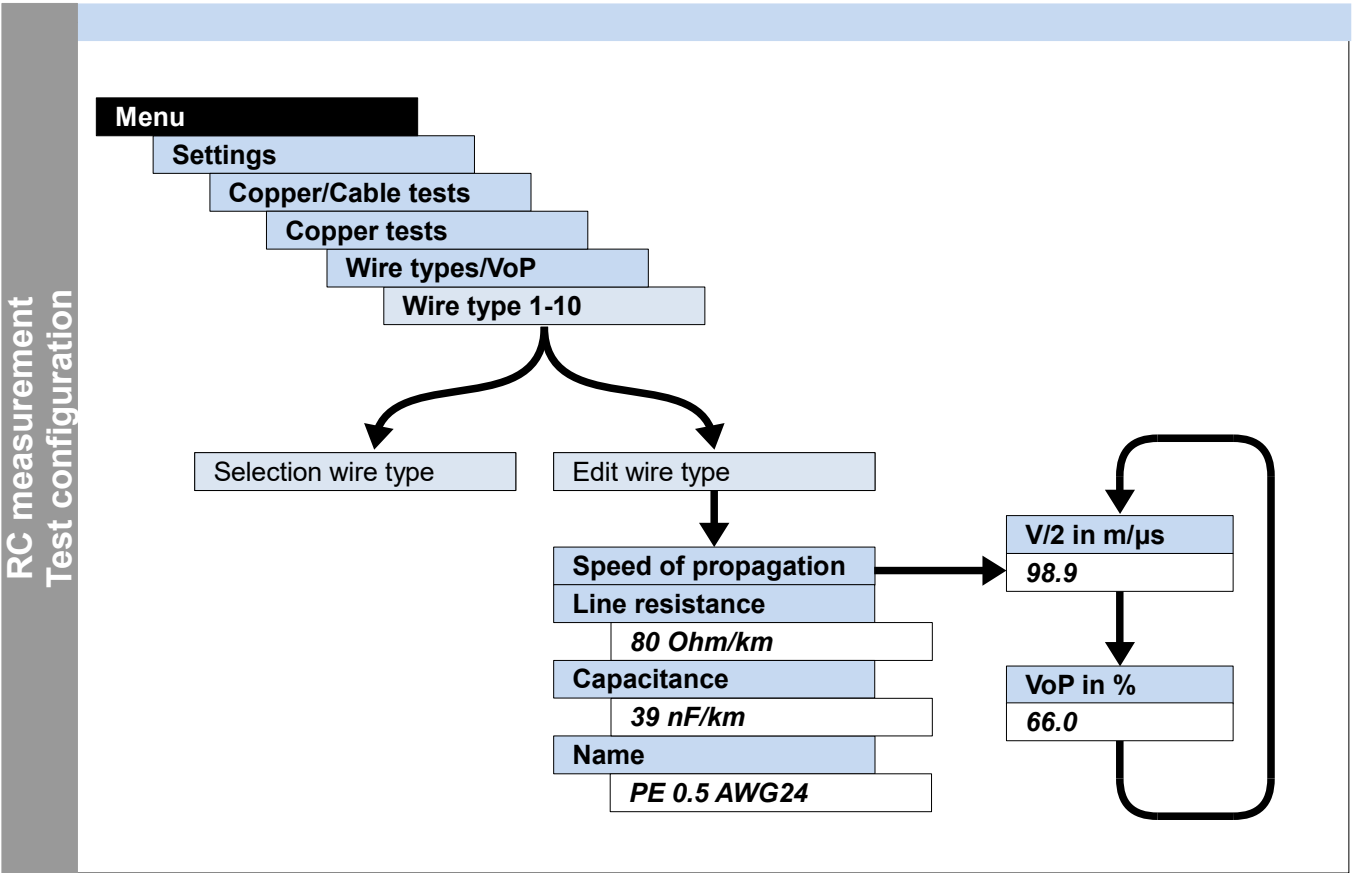
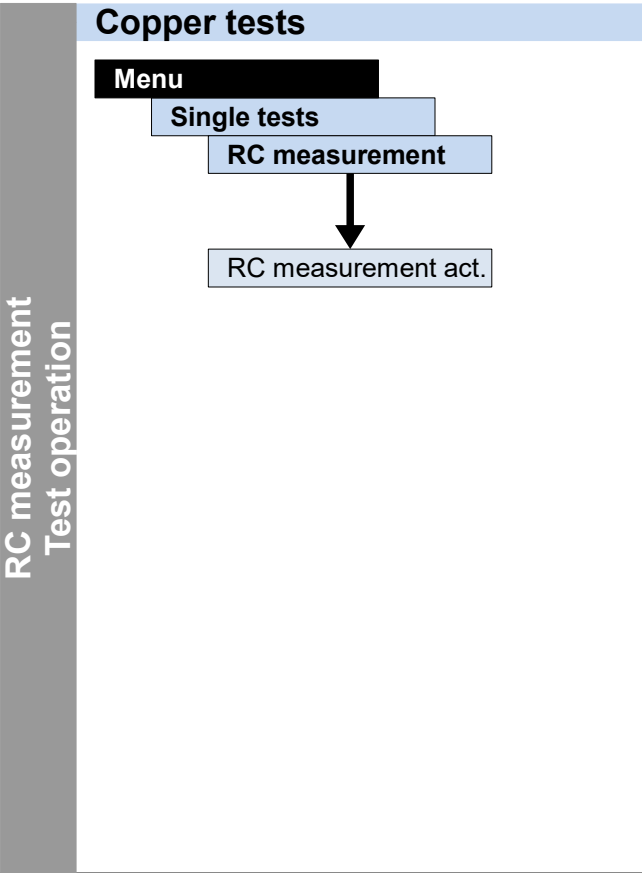
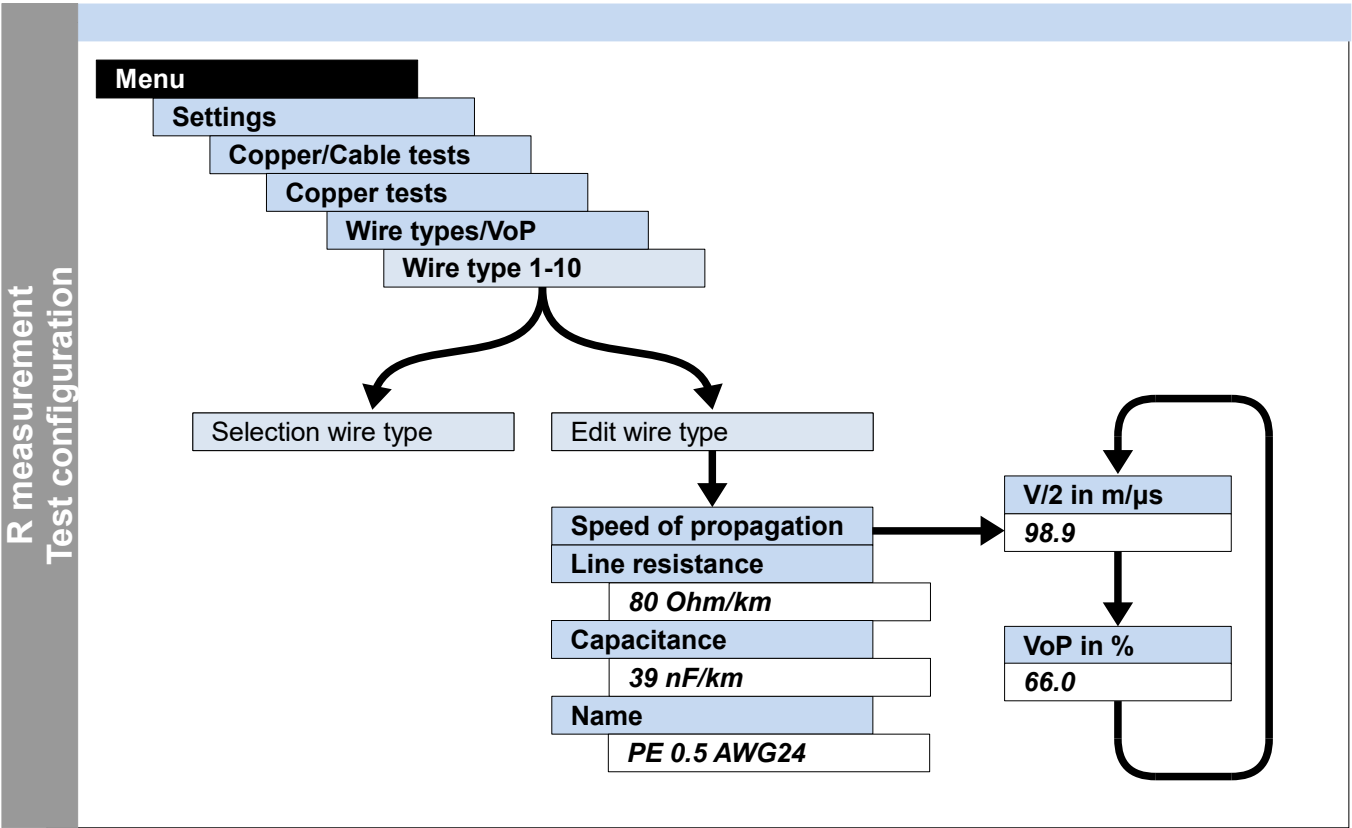
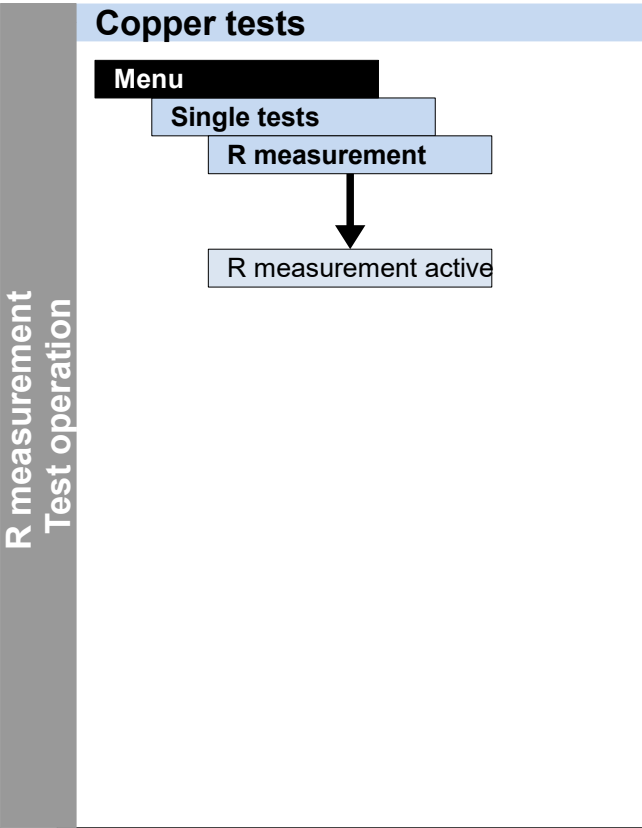
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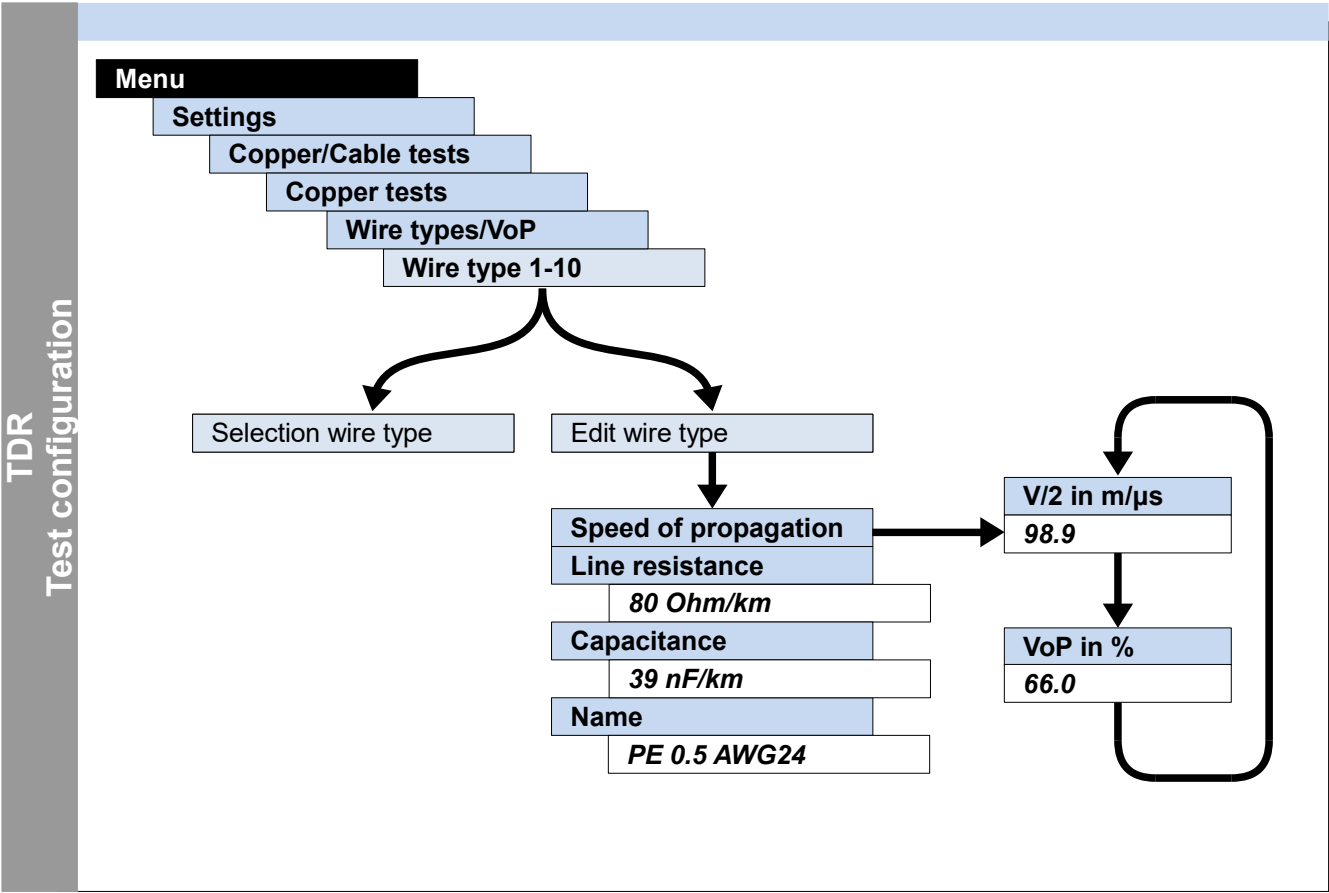
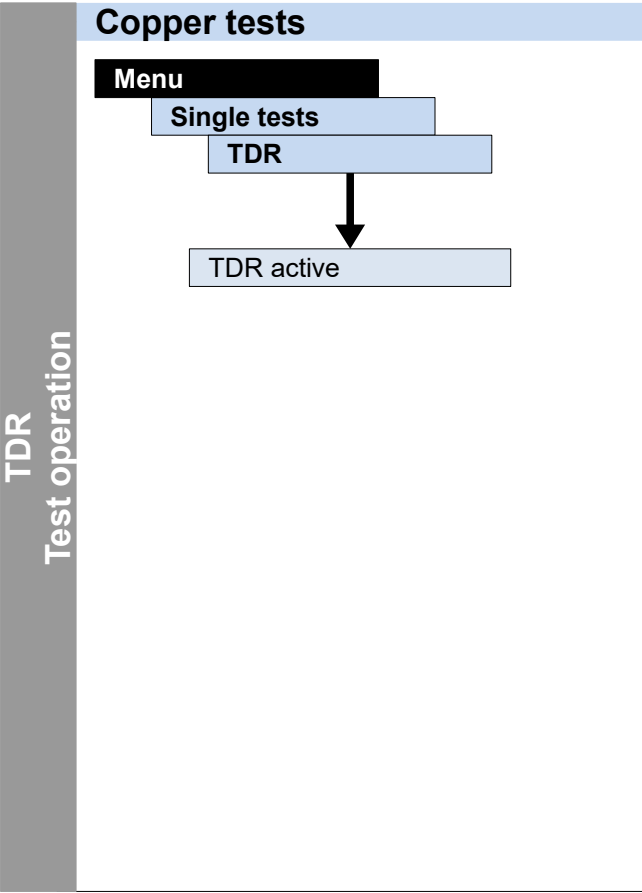
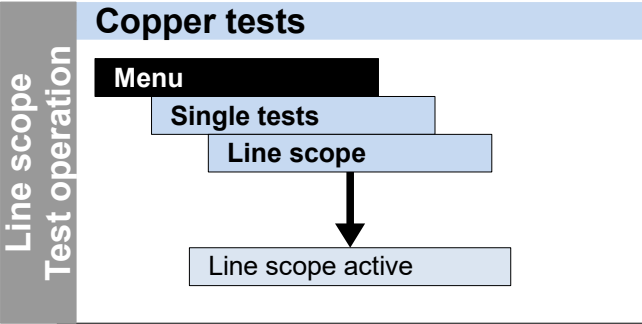
Cross reference:

Menu	page
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Single tests	8-12
Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	
Test results	
Status	
Parallel-, auto tests	10, 11
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Device, Rem. acce.	14
Profile, Virt.-Profile VoIP-Account	15-21
ISDN / POTS	22-23
Battery (status,...)	8, 12
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VPI/VCI scan ATM OAM ping	27
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BERT	34
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X.31	36
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Time measuring Auto. Test	38
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Copper Box	40-41
RC measurement	42
Line scope, TDR	43
Other tests	page
Text br., Netw. scan	26
Loop	31
Connection (POTS)	12
Monitor (POTS)	38
PESQ	39
ETH cable tests	32-33
Others	page
Legend	3
Protocol-overview	4
Hotkeys	4
Test leads	44-46



Cross reference:

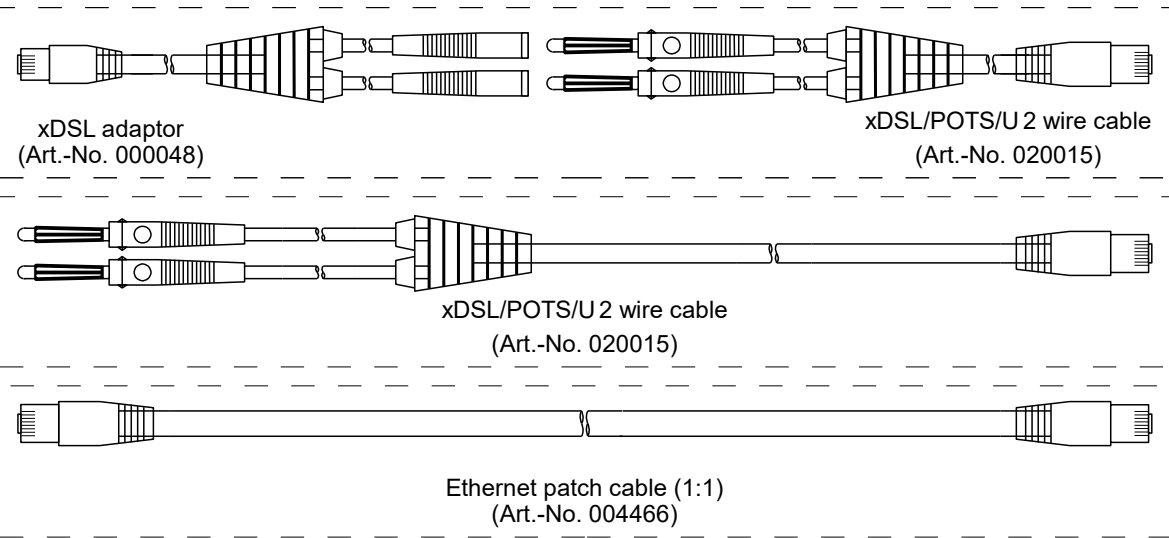
Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-12
Test results	8, 12
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Test leads	44-46



Test leads and pin assignments
ADSL, VDSL, Ethernet, Ethernet cabling test

Cross reference:	
Menu	page
Access	6
Access wizard	7
Main menu	8, 12
Single tests Data-, VoIP-, IPTV-, VoD-, Bridge-, Physic tests	8-12
Test results	
Status	
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Others	page
Legend Protocol-overview	3
Hotkeys	4
Test leads	44-46

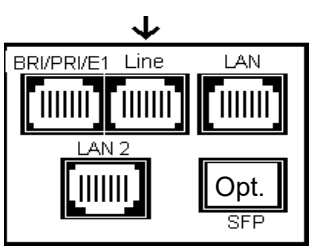
ADSL / VDSL



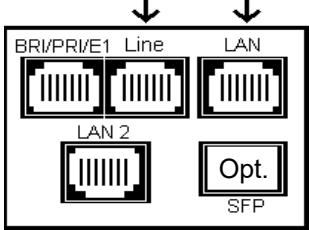
RJ11	Ban.	RJ45
3	rd	4
4	blk	5

Ban.	RJ45
rd	4
blk	5

RJ45	RJ45
1-8	1-8



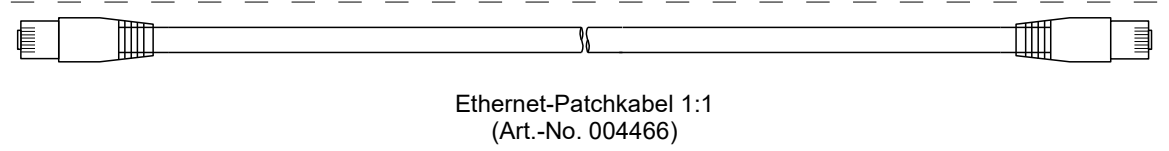
ADSL / VDSL – Bridge / Router



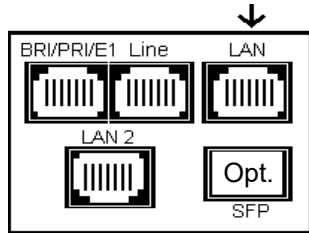
RJ45	RJ45
1-8	1-8

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

Ethernet



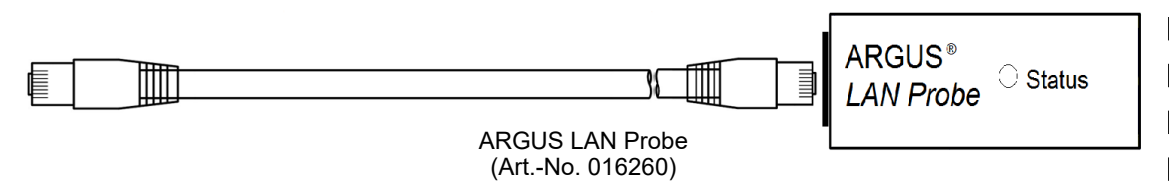
RJ45	RJ45
1-8	1-8



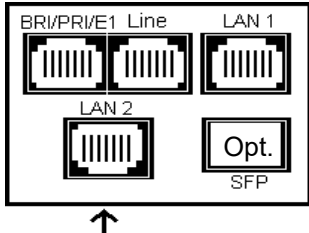
RJ45	RJ45
1-8	1-8

Ethernet-Patchkabel 1:1
(Art.-No. 004466)

Ethernet cabling test



RJ45	RJ45
1-8	1-8



RJ45	RJ45
1-8	1-8

Ethernet-Patchkabel 1:1
(Art.-No. 004466)

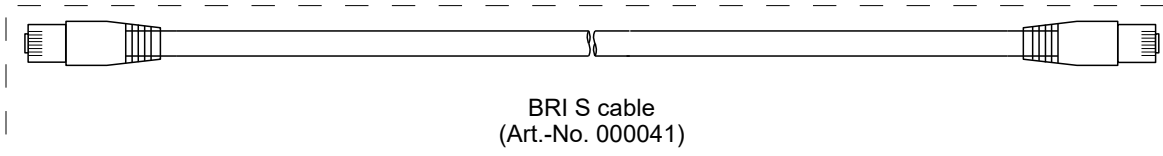
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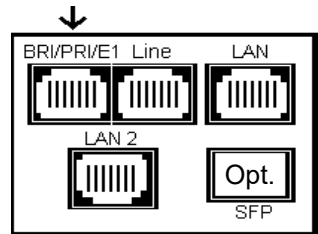
Test leads and pin assignments

BRI S, BRI U, PRI, POTS

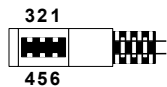
BRI S



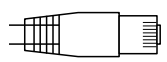
RJ45	RJ45
3/6	3/6
4/5	4/5



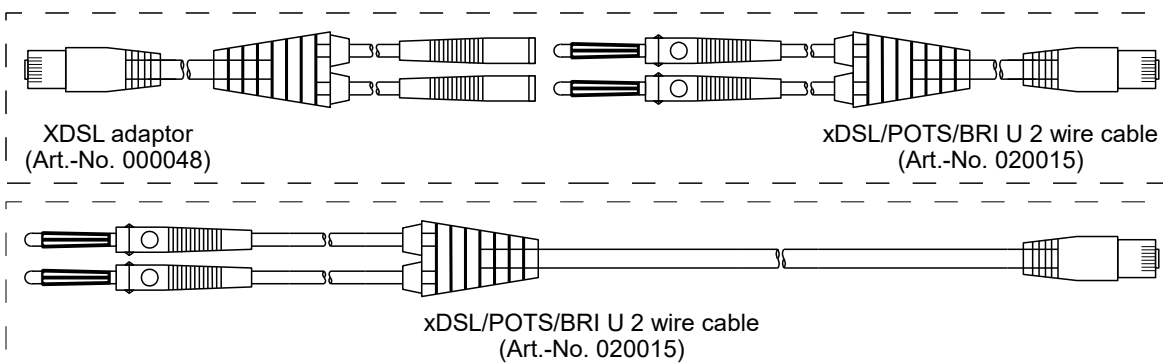
TAE



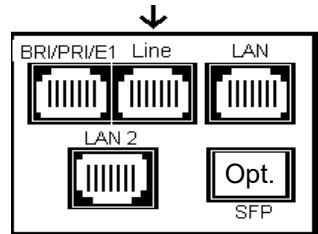
RJ45



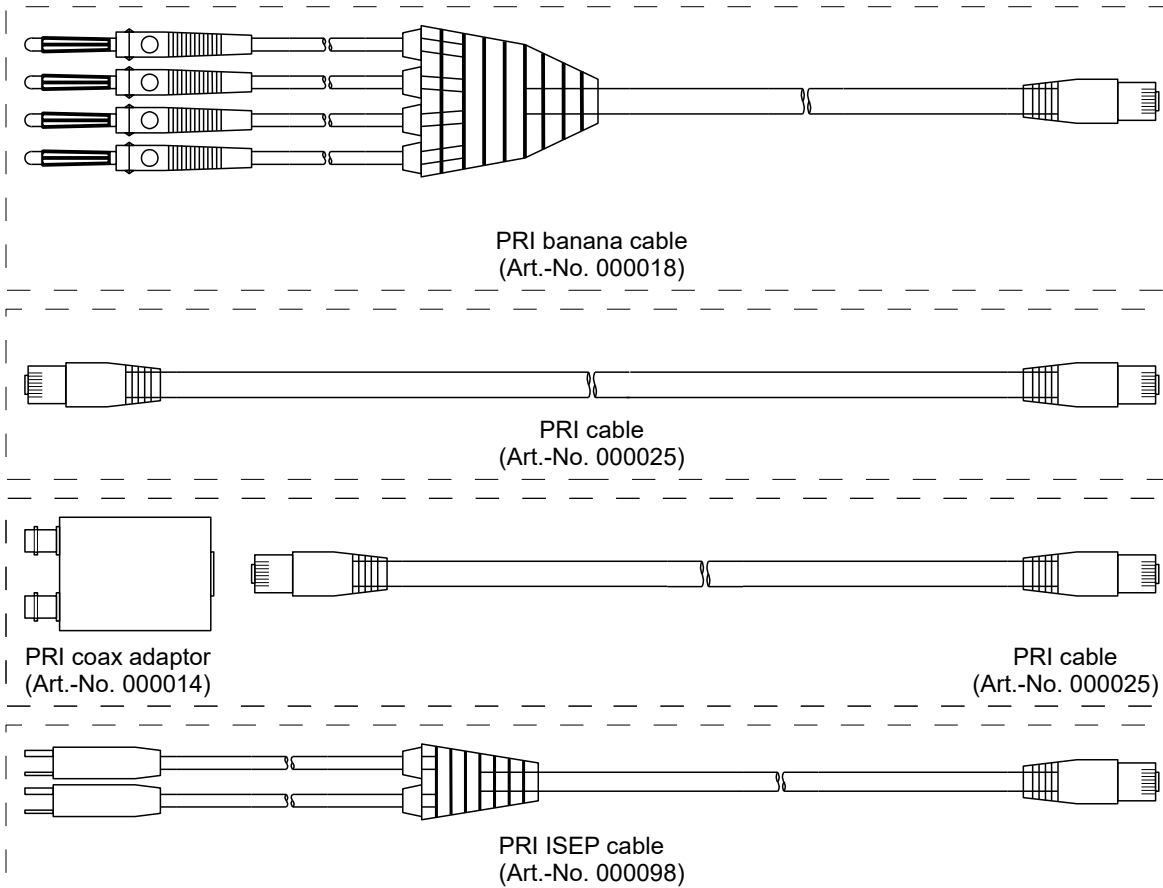
BRI U / POTS



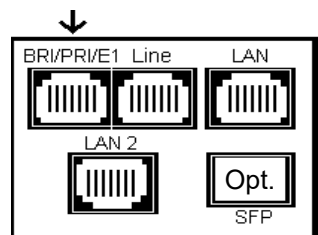
RJ11	Ban.	RJ45
3	rd	4
4	blk	5
Ban.		RJ45
rd		4
blk		5



PRI



Ban.	RJ45
rd 1	8
rd 2	1
blk 1	7
blk 2	2
RJ45	RJ45
1/2	1/8
4/5	2/7



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

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

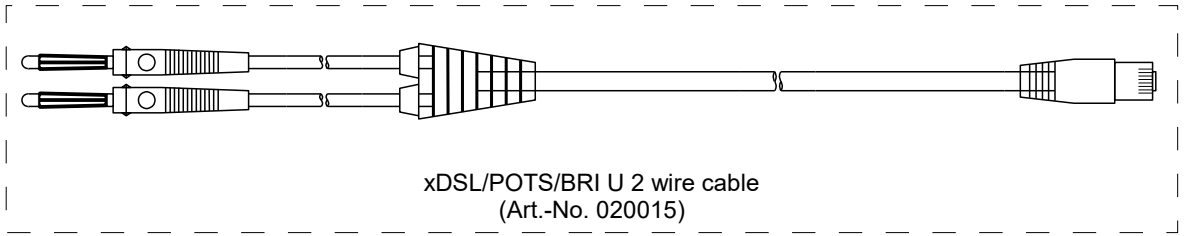
Test leads and pin assignments

Copper tests

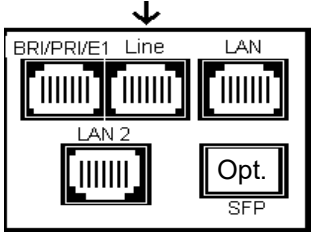
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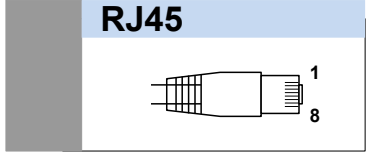
Copper tests: R measurement / RC measurement / Line scope / TDR



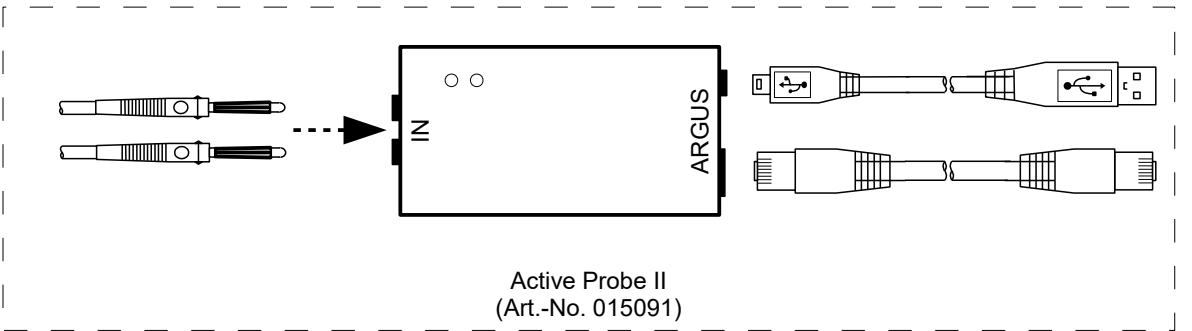
Ban.	RJ45
rd	4
blk	5



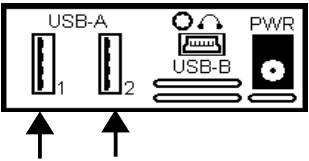
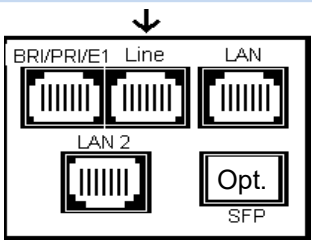
The copper tests are performed using pin 4/5 of the line interface. Alternatively, the test can be carried out with every other test leads that is using pin 4/5.



Copper tests: Line scope



Ban.	RJ45
blk	4
blk	5



The Active Probe II needs to be powered by the USB-A interface. The power supply can be enabled in the settings or according tests.



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