



# ARGUS<sup>®</sup> 145<sup>PLUS</sup>

» Overview of menu  
and test leads

valid from firmware version R2.60.00



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Legend  
General

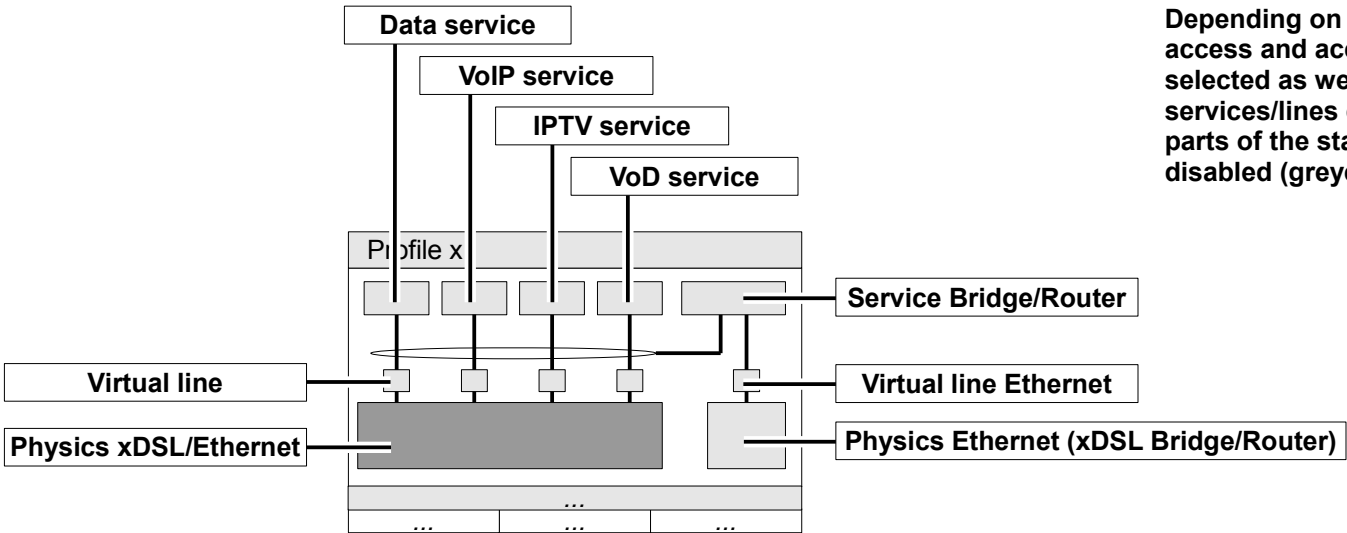
Menu
Configuration menu
<b>Defaul Config.menu</b>
Input menu
<b>Default input menu</b>

Depending on the specified interface, menu item will be shown

Menu item only matters for specified interface

Legend  
Status

ADSL / VDSL / SHDSL / Ethernet



Protocol overview

ADSL / VDSL / SHDSL / Ethernet

Access			ADSL			VDSL			SHDSL												ETH					
									ATM				EFM				TDM		ITC			HDLC				
Mode			ATU-R	ATU-R Bridge		ATU-R Router		VTU-R	VTU-R Bridge		VTU-R Router		STU-R	STU-C	STU-R Bridge		STU-R Router		STU-R	STU-C	STU-R	STU-C	STU-R	STU-C		
Socket			Line	Line	LAN	Line	LAN	Line	Line	LAN	Line	LAN	Line	Line	Line	LAN	Line	Line	Line	LAN	Line	Line	Line	Line	Line	LAN
Protocol	ATM/Ethernet																									
without	-	without		a	a				a	a				a	a	a			a	a	a	a	a	a		
	-	IP				a		•			•	a			•			•	a						•	
IP	Yes	EoA	•			•					•															
	No	IPoA	•			•																				
PPP	Yes	PPPoE	•			•		•			•		•				•								•	
	No	PPPoA	•			•																				
PPTP	-	PPTP																							•	

• – Protocol configurable (see page 16)  
a – Protocol set automatically

Note

The basic ARGUS 145plus package includes support for at least one DSL interface (ADSL, VDSL or SHDSL) with a variety of functions and tests for the interface(s). Support for other interfaces and functions is optional (see the options in the data sheet). Consequently, depending on the scope of the functions delivered, certain menu items may be hidden. The type of access and access mode can affect this, too.

Hotkeys

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Menu Hotkeys	ADSL / VDSL / SHDSL / Ethernet			BRI S / BRI U / PRI / POTS				Copper tests	
	Key	ADSL / SHDSL ATM	VDSL / SHDSL EFM / Ethernet	Key	BRI S / BRI U	PRI	POTS	Key	Copper tests
	0	ARGUS status		0	ARGUS status			0	ARGUS status
	1	Help hotkeys		1	Help hotkeys			1	Help hotkeys
	2	VPI/VCI scan	-	2	Service check		-	2	-
	3	IP ping		3	Supp. Serv. test		-	3	-
	4	Trace route		4	Auto. Test		-	4	-
	5	HTTP download		5	Test data to PC			5	Test data to PC
	6	-		6	Test manager		-	6	-
	7	FTP download		7	Numbers			7	-
Menu Hotkeys	9	IPTV		9	BERT start		-	9	-
	⌂	Status		⌂	Level measuring	L1 status	Voltage measuring	⌂	-
	ⓘ	VoIP call		ⓘ	Connection			ⓘ	-
	* then 0	Access		* then 0	Access			* then 0	Access
	* then 1	ARGUS info		* then 1	ARGUS info			* then 1	ARGUS info
	* then 2	Restore config.		* then 2	Restore config.			* then 2	Restore config.
	* then 3	Factory setting		* then 3	Factory setting			* then 3	Factory setting
	* then 6	-		* then 6	Test manager		-	* then 6	-
	* then 7	Store		* then 7	-			* then 7	-

Graphic hotkeys

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

Test hotkeys

Copper tests				
Key	Line scope (Frequency domain)	Line scope (Time domain)	DMT analysis	TDR
0	-	-	-	-
1	-	-	-	-
2	Zoom	-	Zoom	
3	Cursor			
4	Measurement range		Tones	Measurement range
5	-	-	Mode	Pulse width/height
6	-	-	-	Wire type/VoP
7	Probe			-
8	Symmetry		-	-
9	Time domain	Frequency domain	-	-
✓	-	-	New	-
⌂	Run/Hold		-	Run/Hold
* then 7	Store			

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**IP and ATM tests**

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**ISDN tests**

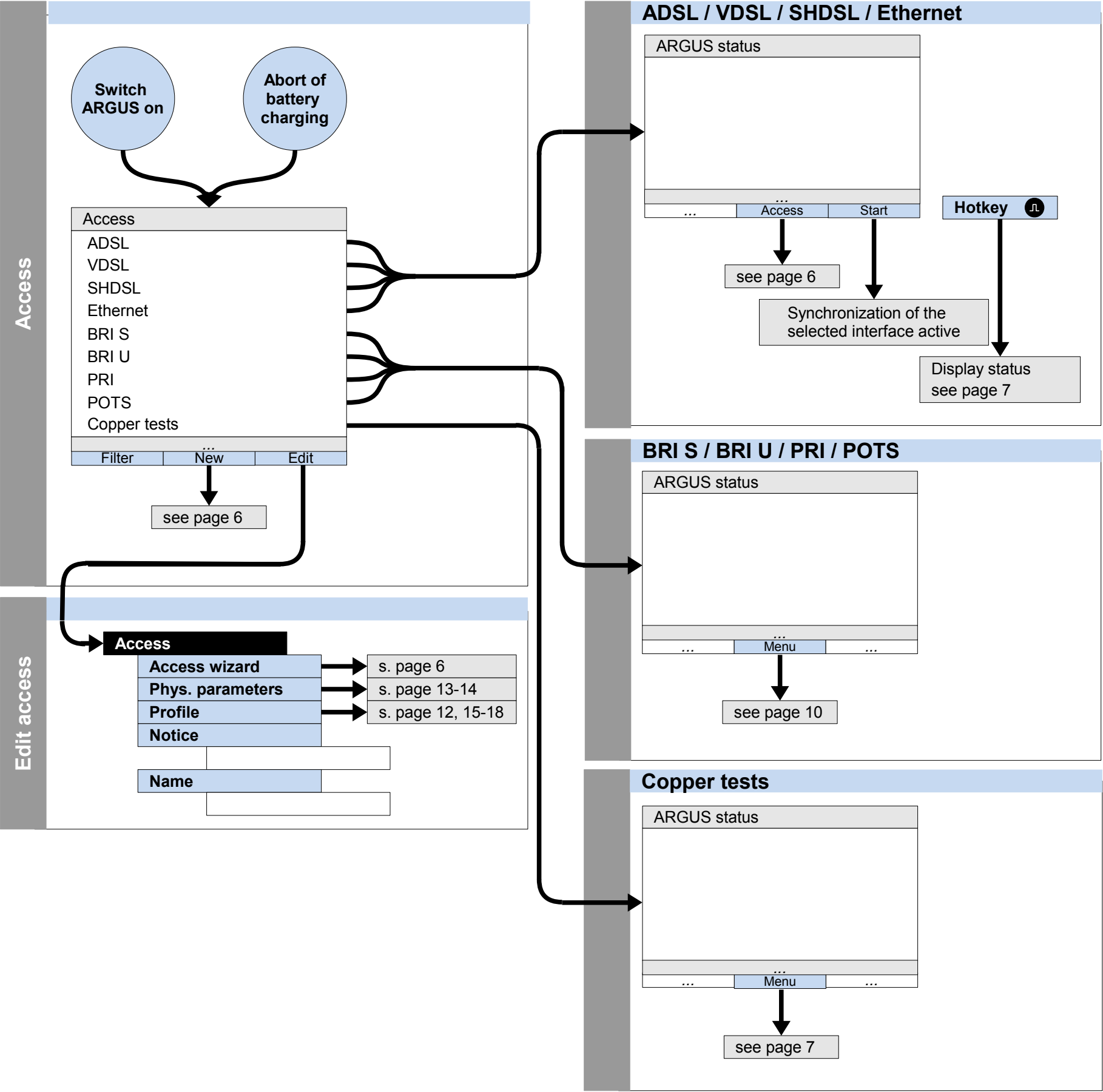
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**Other tests**

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**Others**

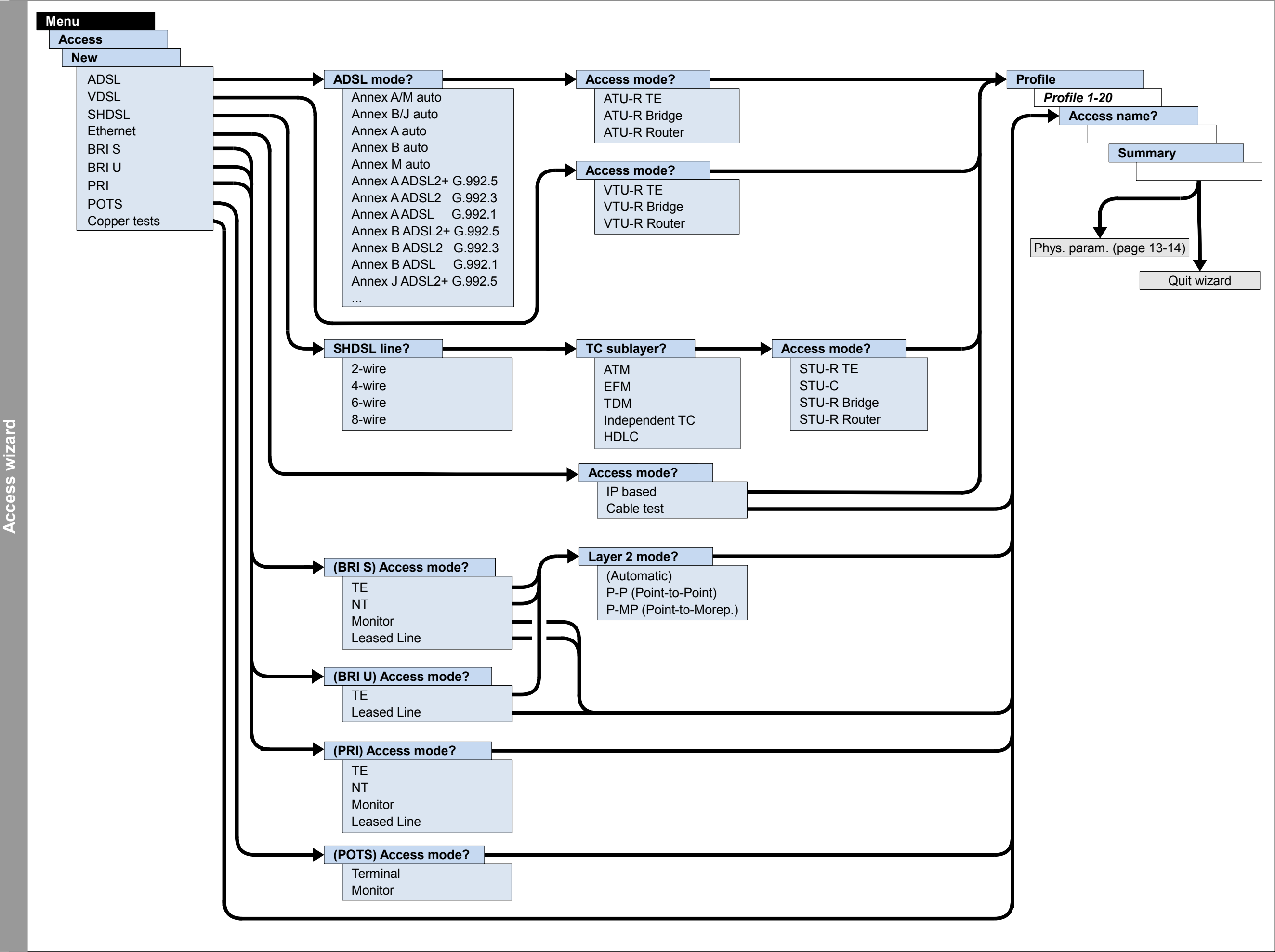
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Cross reference:

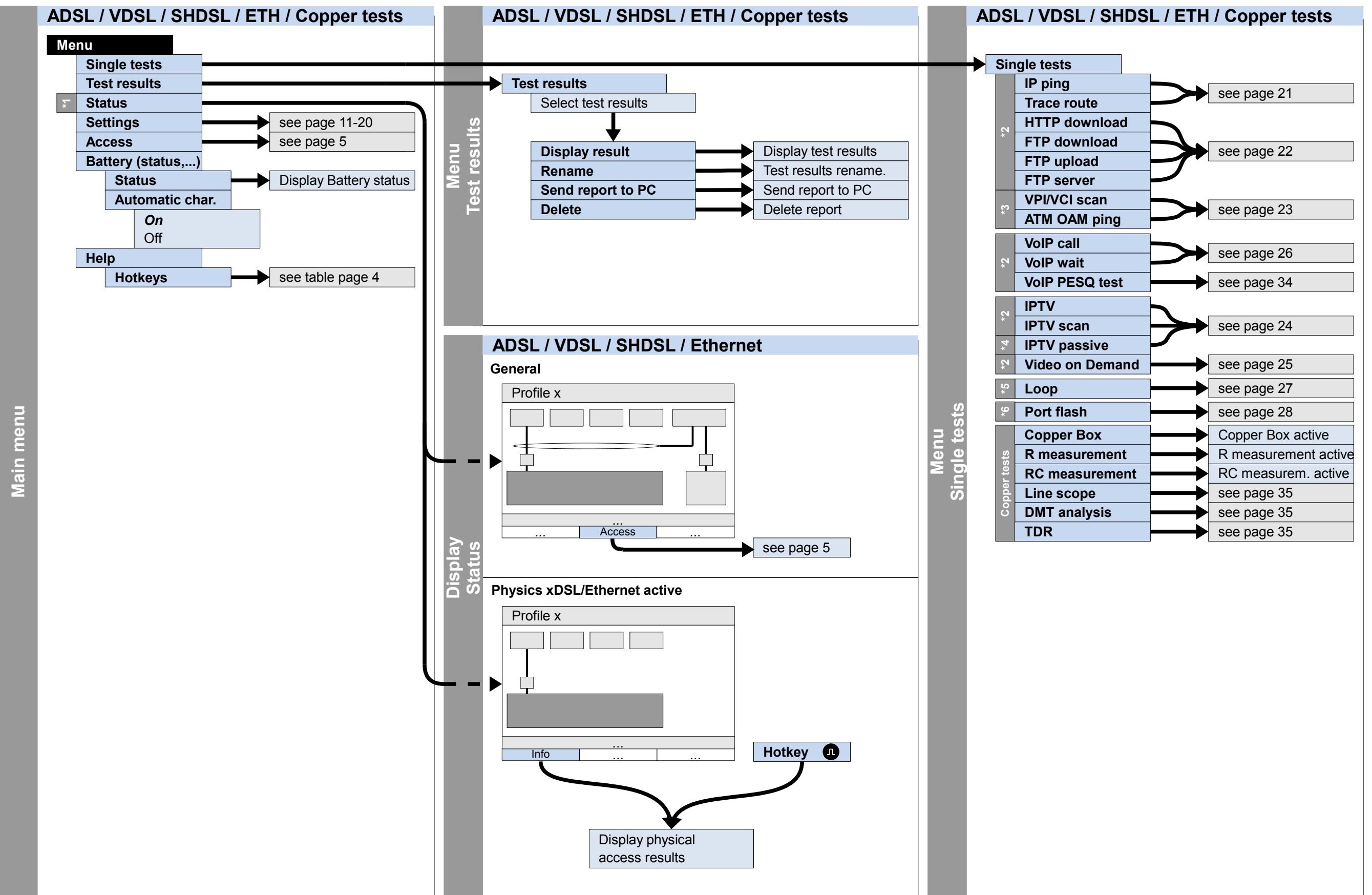
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# Main menu, Single tests, Test results, Status (Access: ADSL, VDSL, SHDSL, Ethernet, Copper tests)

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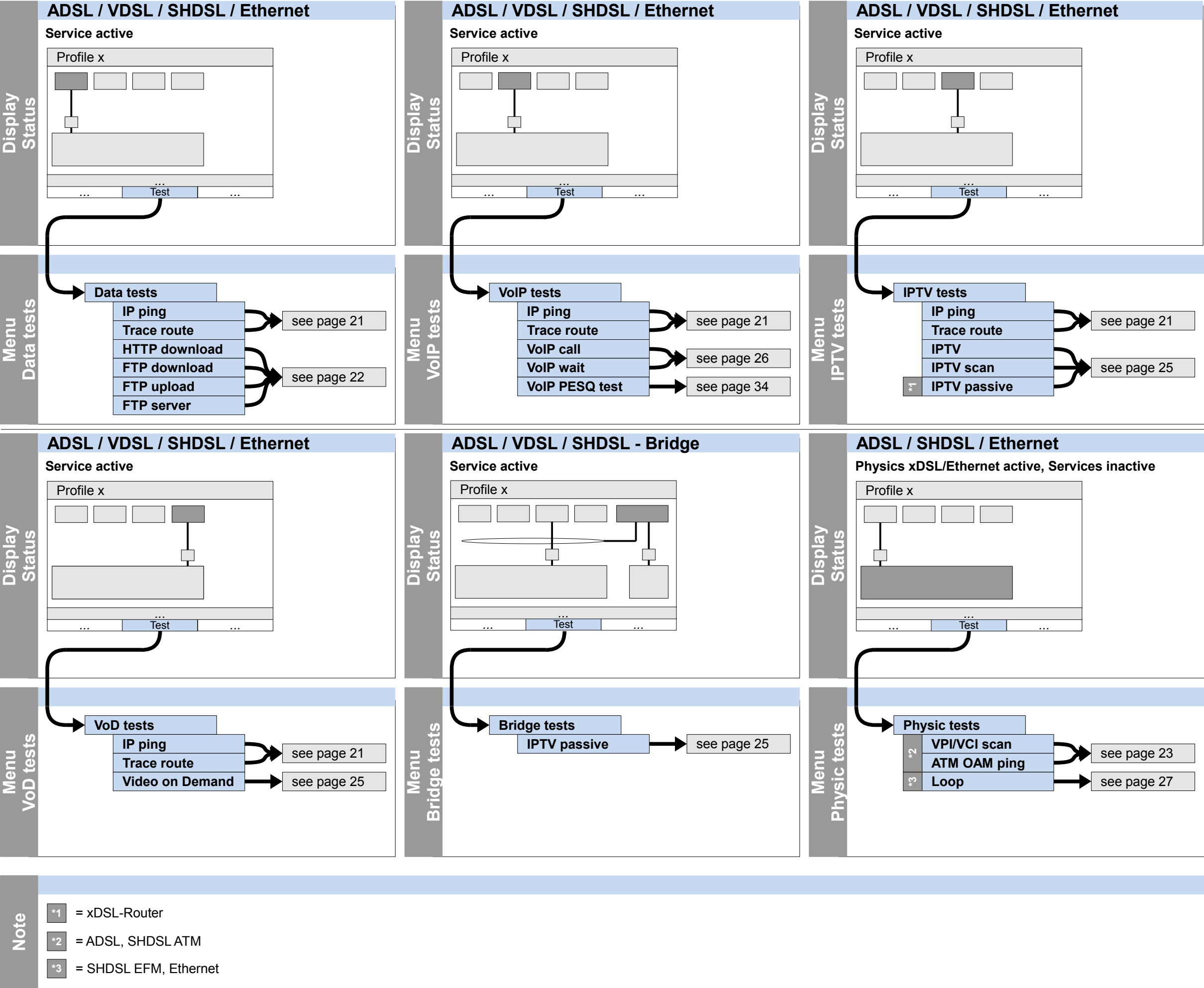


Note

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

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Service tests: Parallel tests  
Test status

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ISDN tests

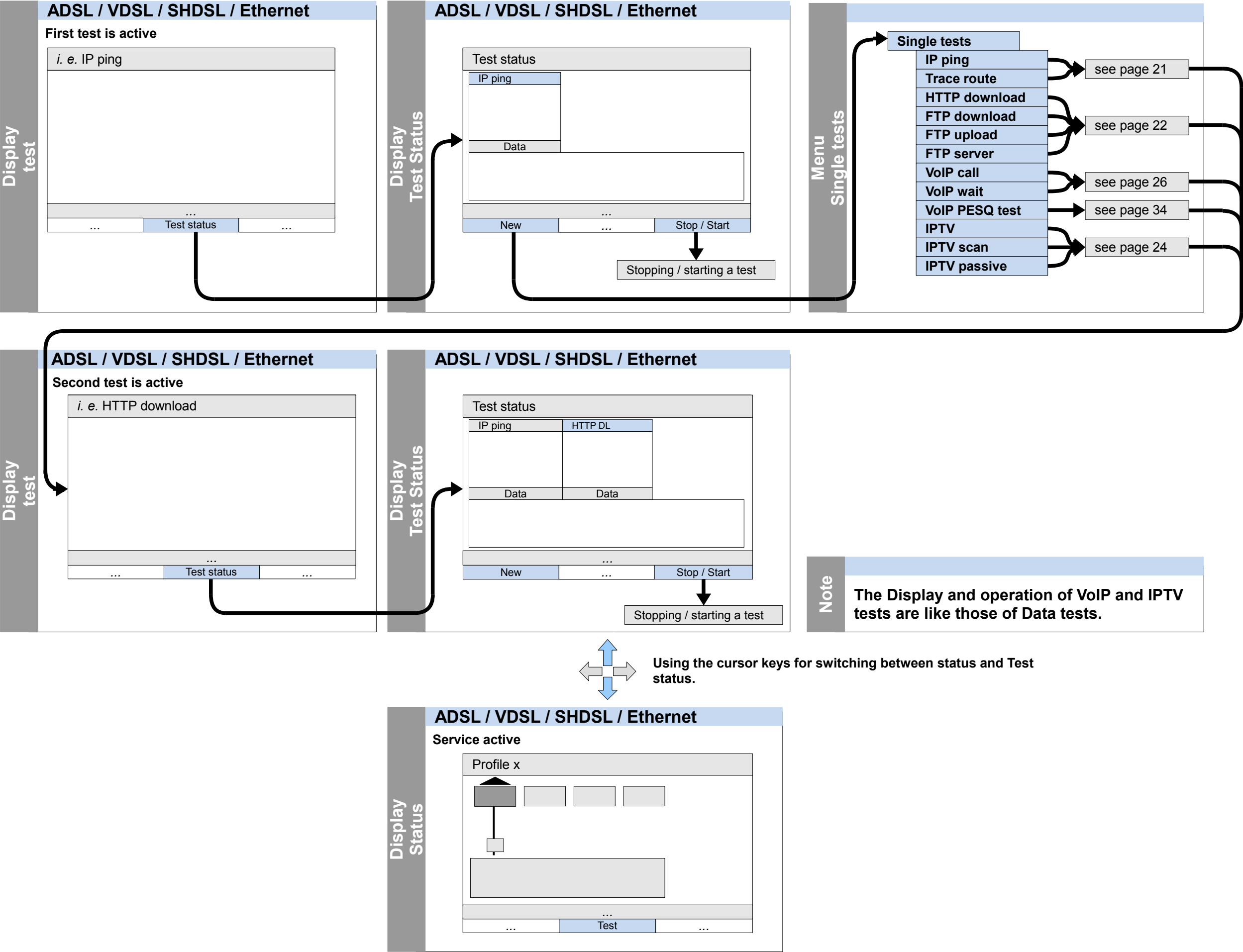
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Others

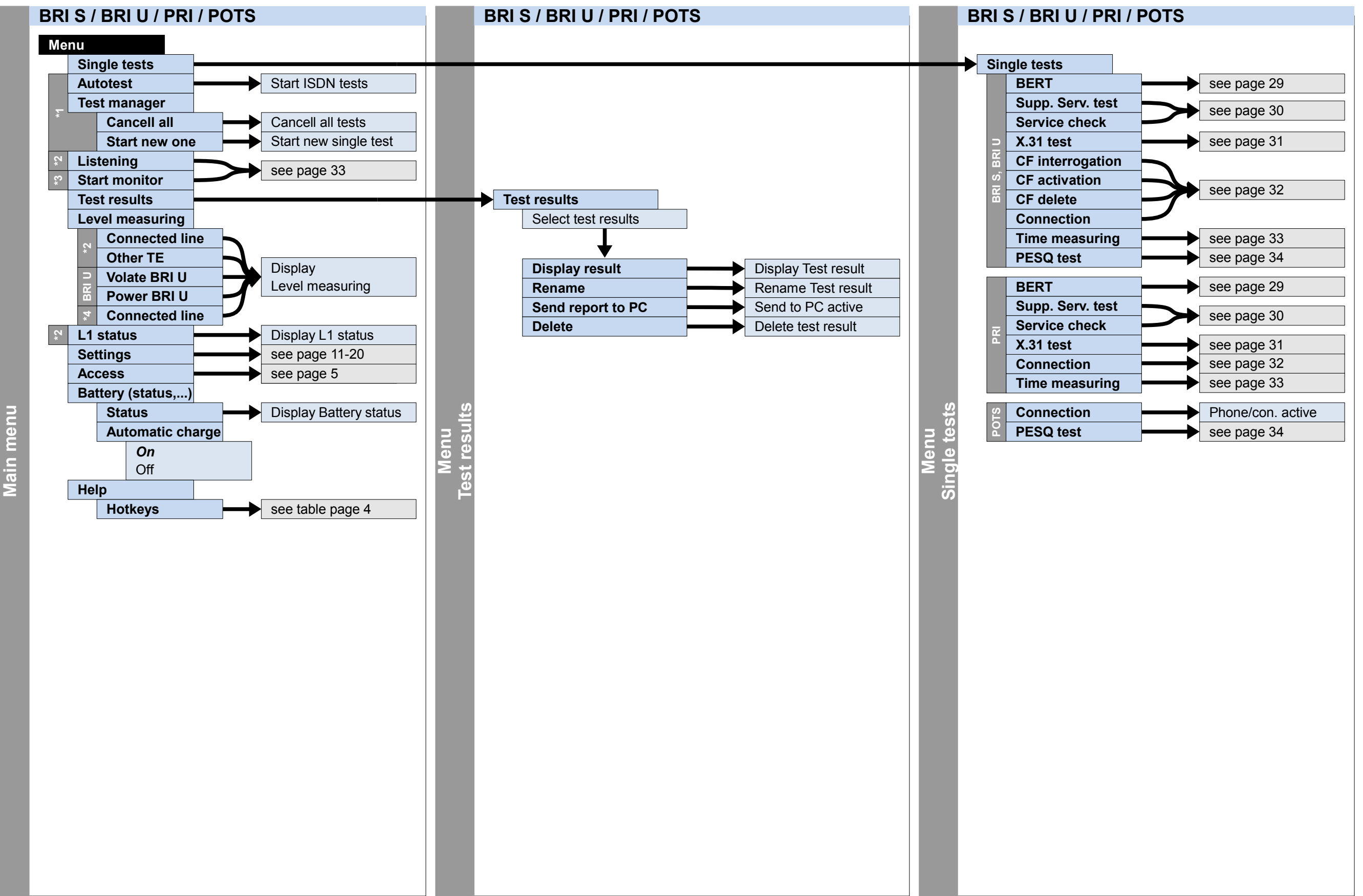
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# Main menu, Single tests, Test results (Access: BRI S, BRI U, PRI, POTS)

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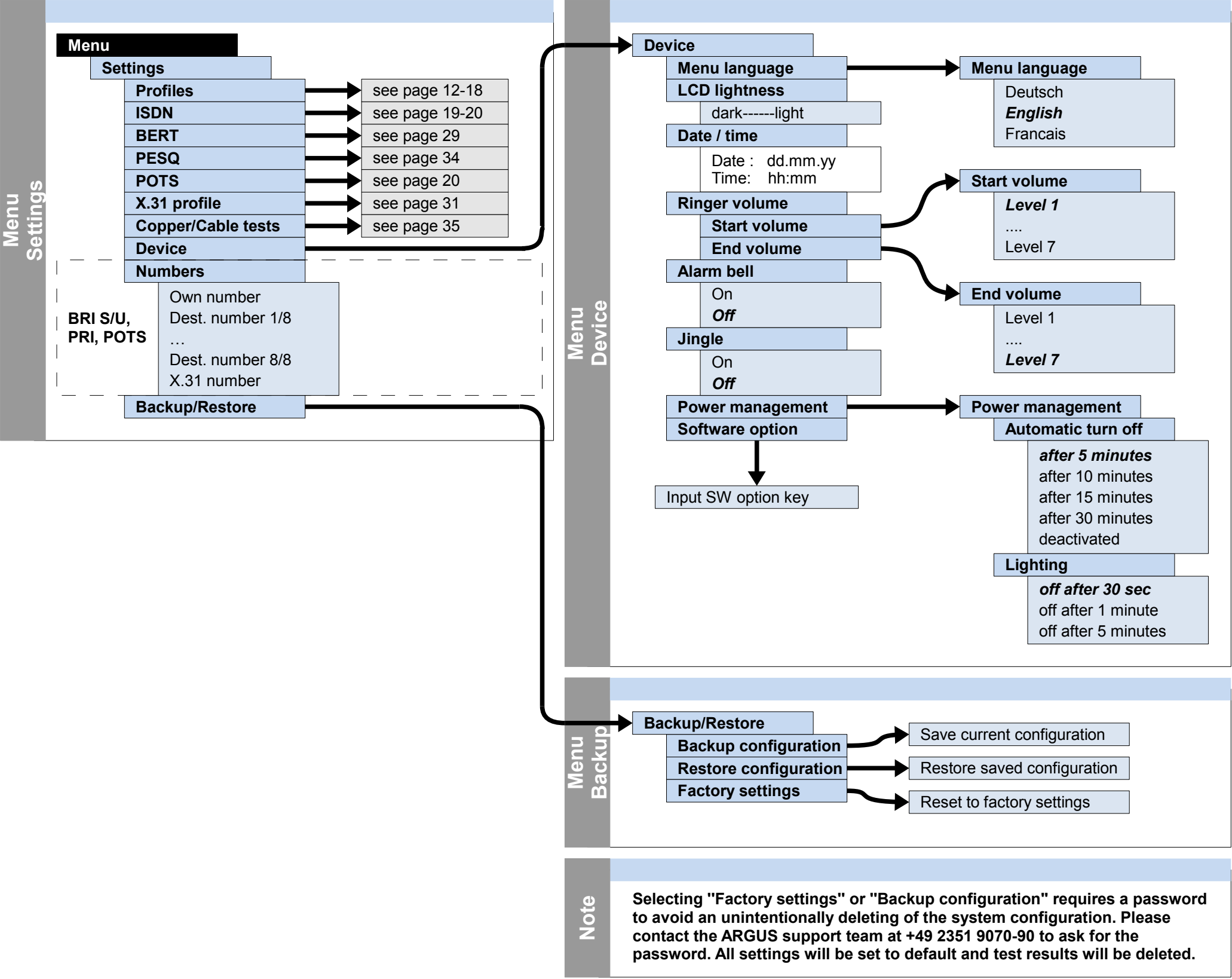


Note	
*1	= BRI S, BRI U, PRI
*2	= BRI S, PRI
*3	= BRI S, PRI, POTS
*4	= POTS

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

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Settings  
Profile

**Cross reference:**

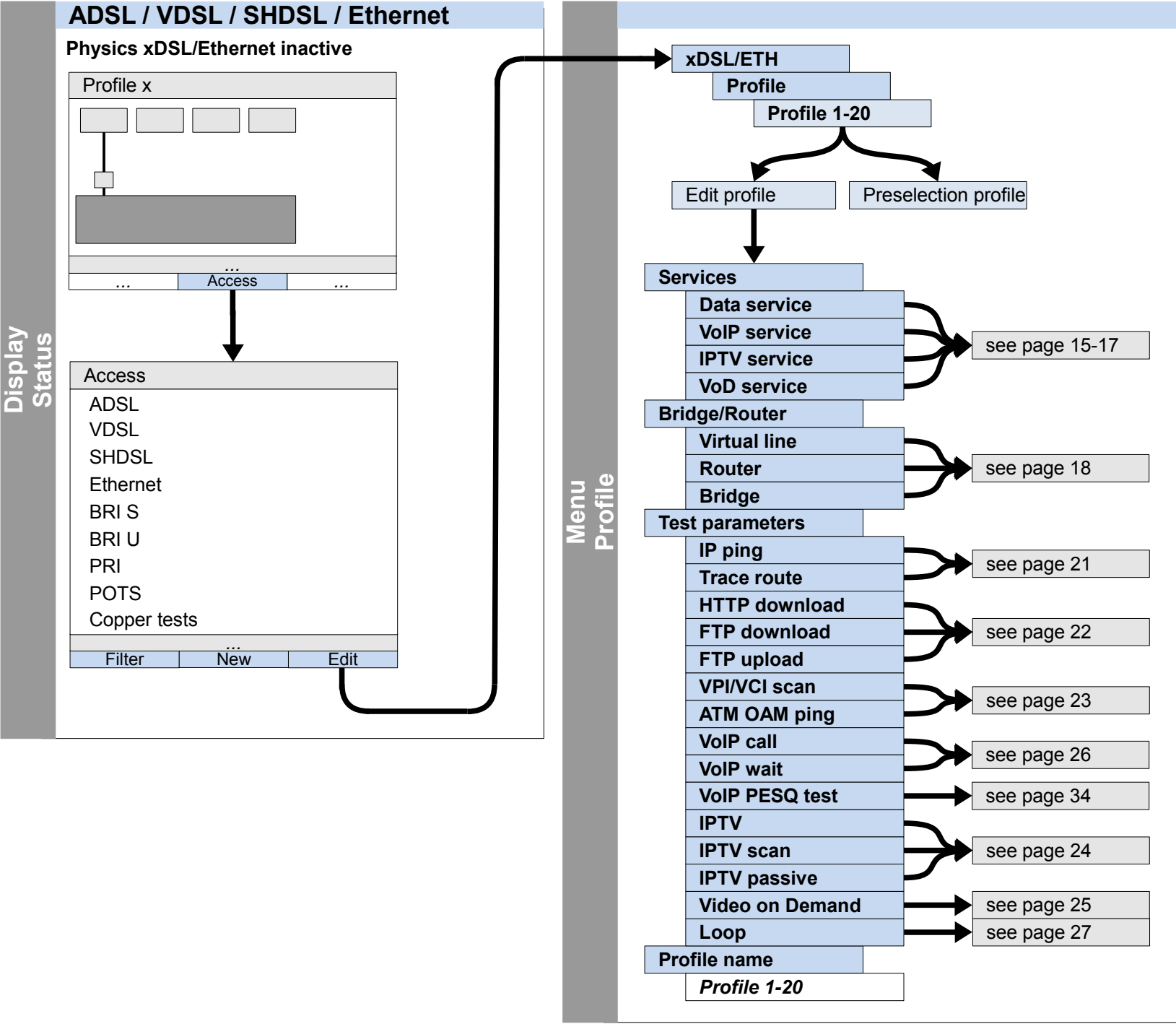
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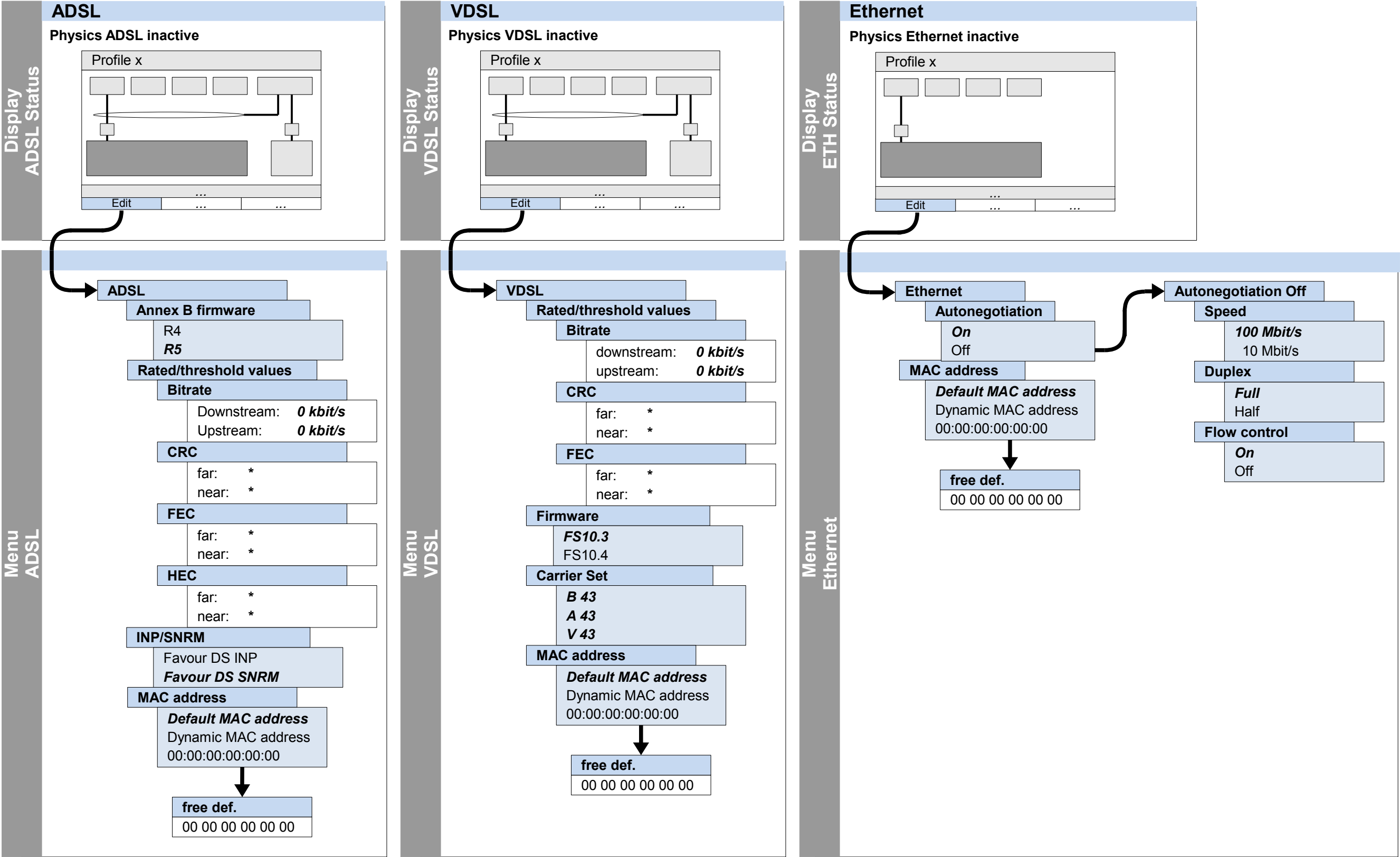
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Settings  
Phys. parameters: ADSL, VDSL, Ethernet

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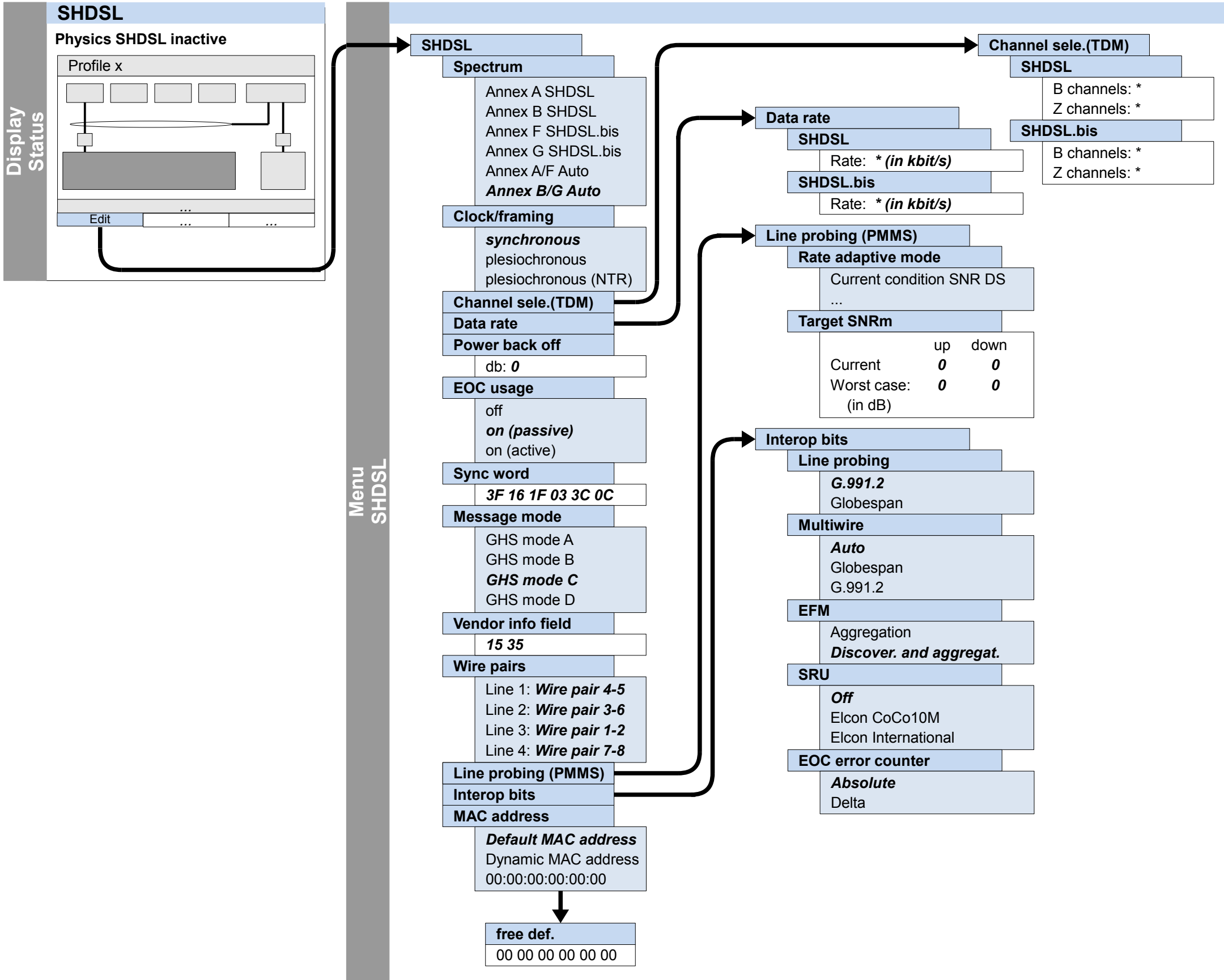


# Settings

## Phys. parameters: SHDSL

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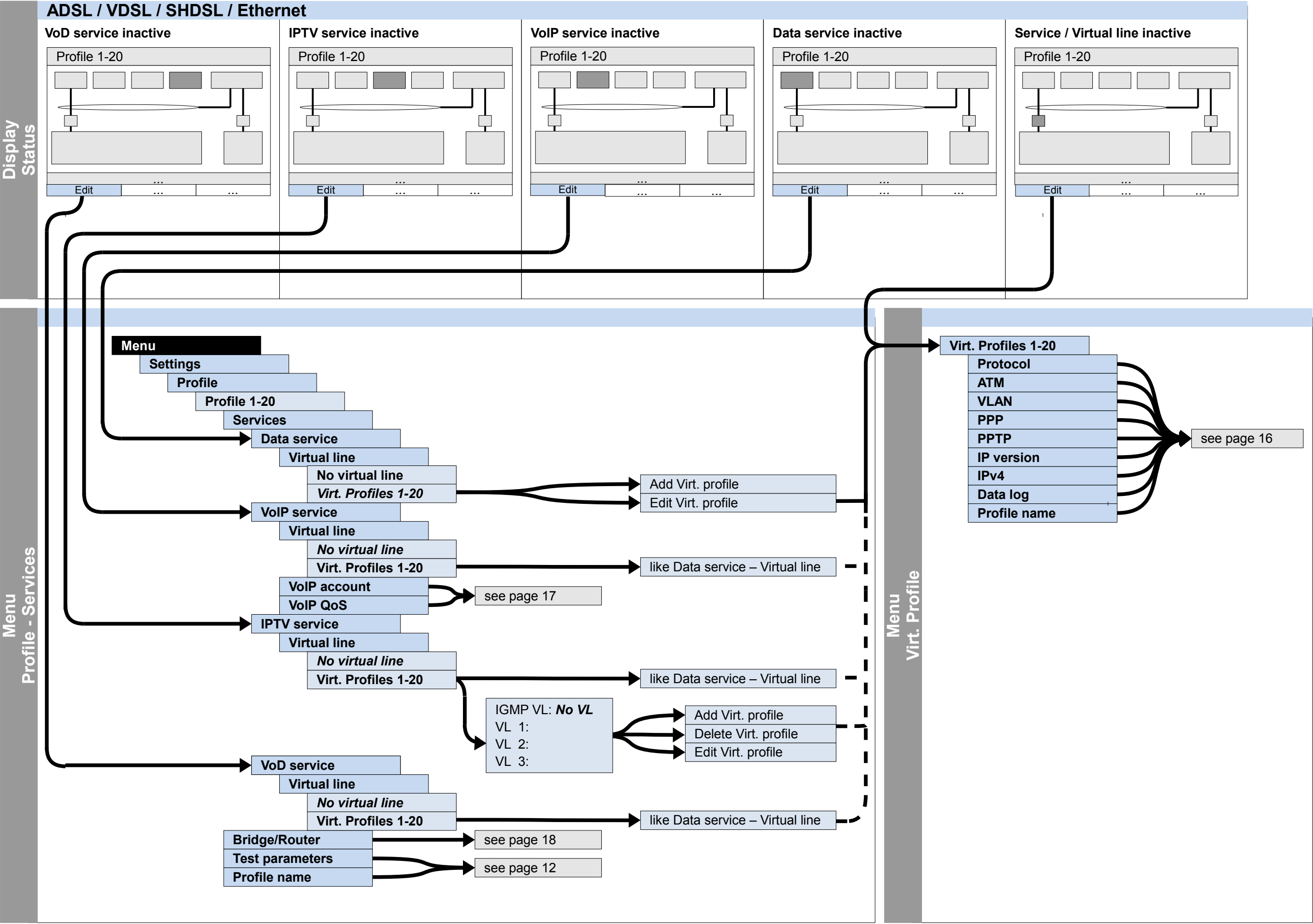


Settings

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

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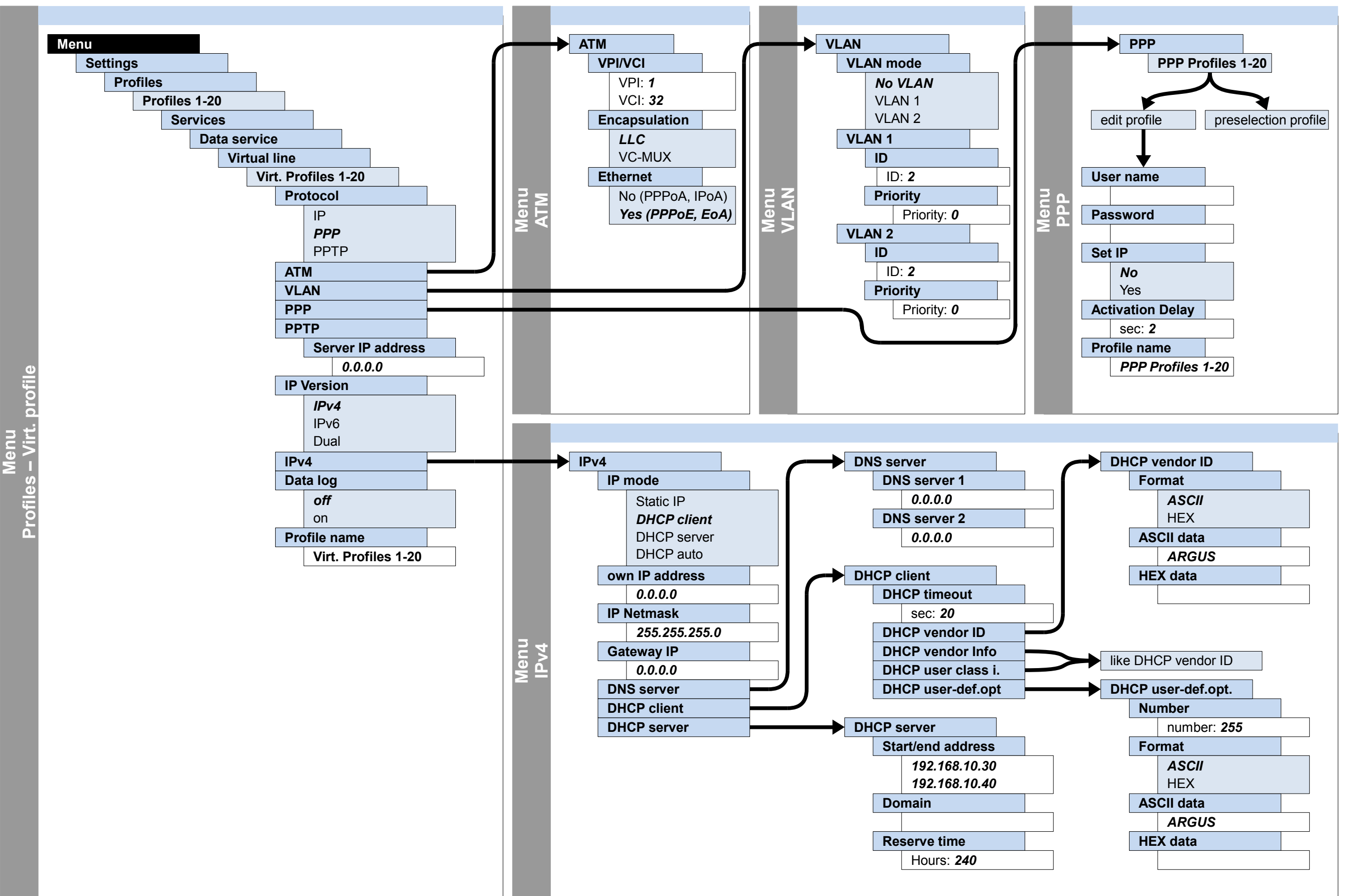


# Settings

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

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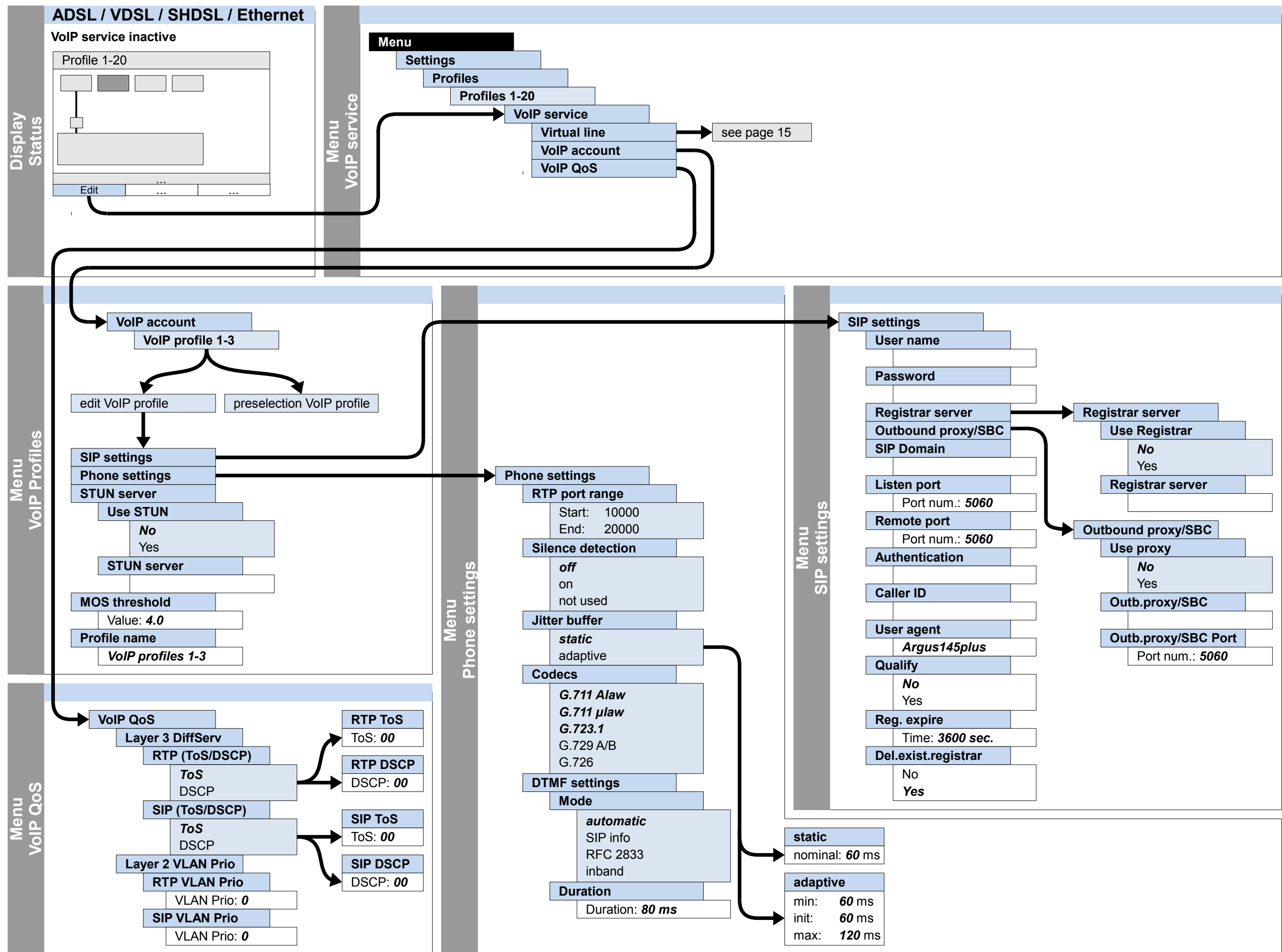
On page 3 you get a survey on the protocols, which are supported on the various interfaces.

# Settings

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

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

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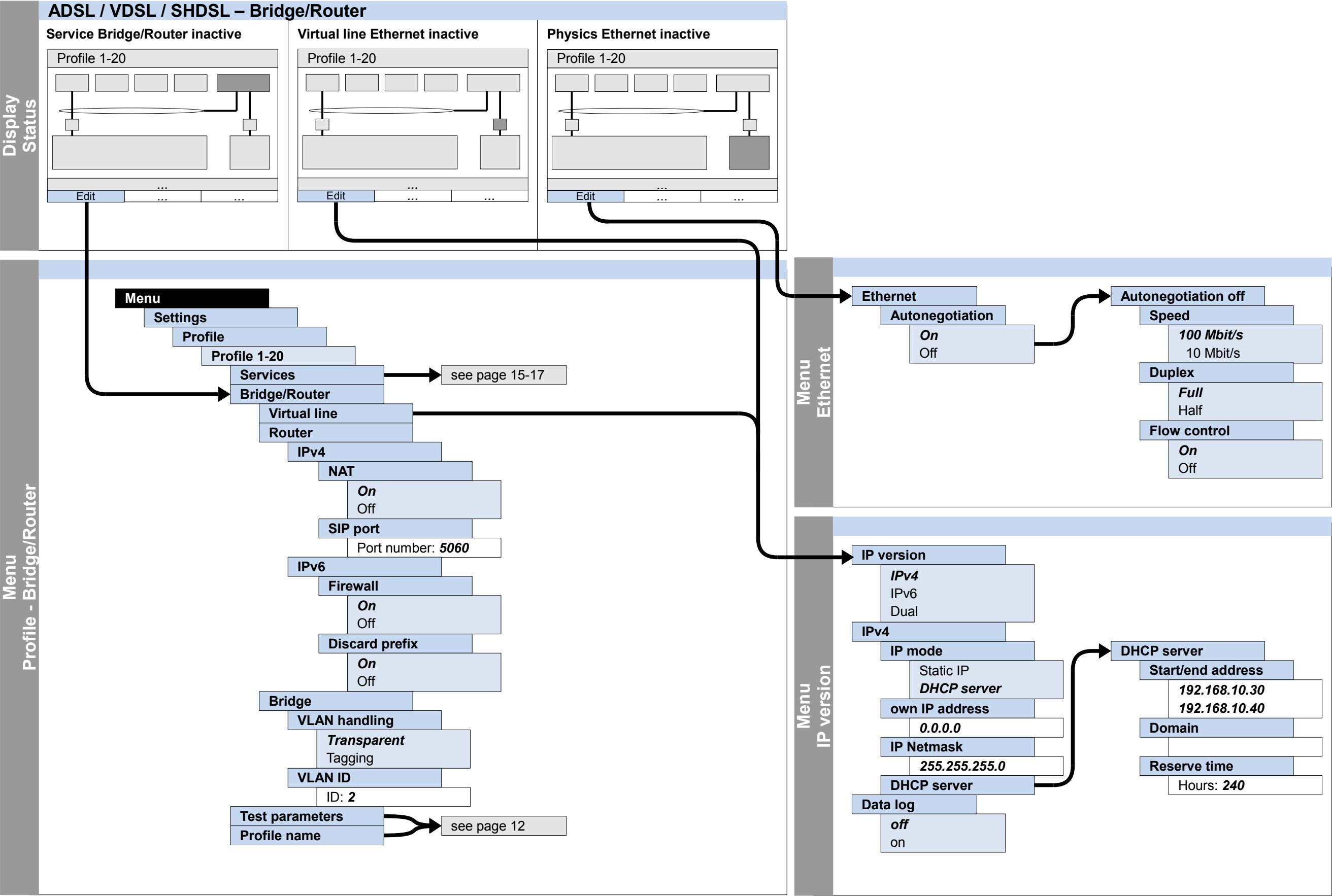
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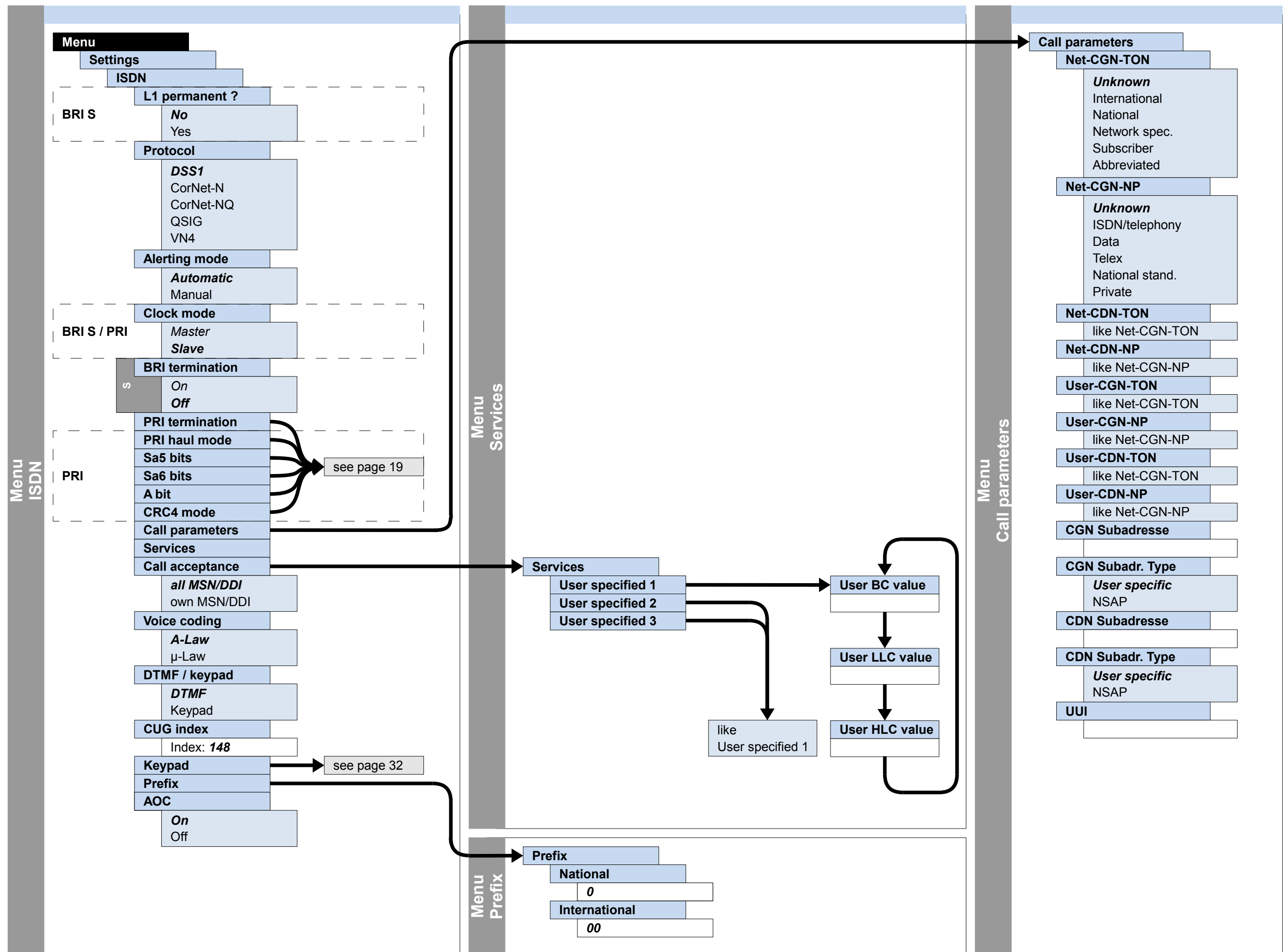


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Settings  
ISDN (PRI), POTS

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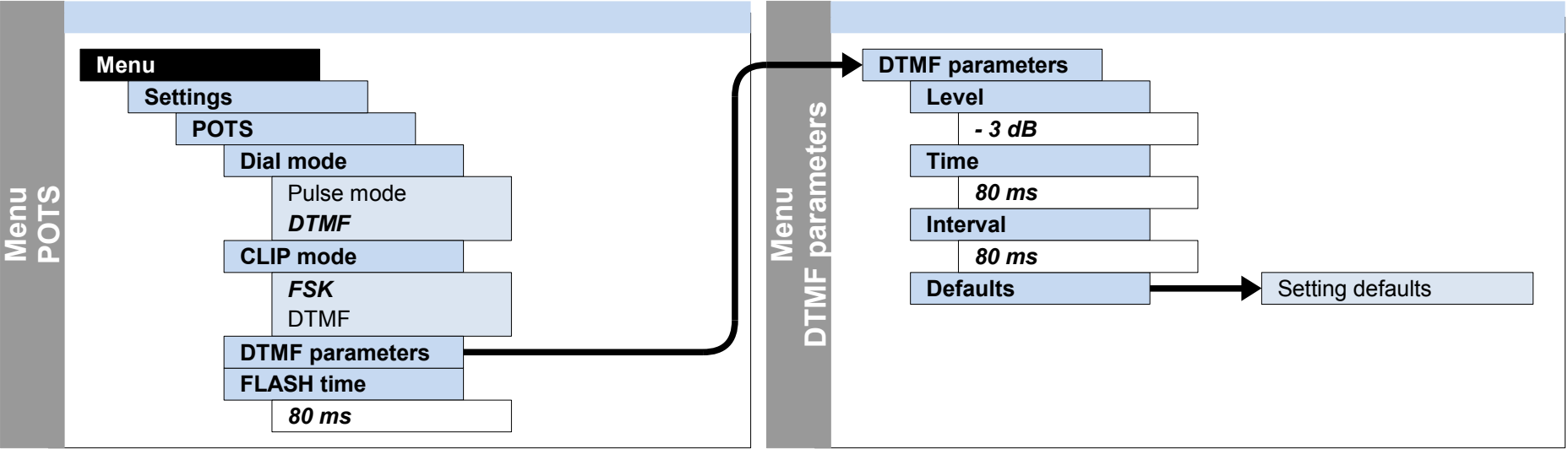
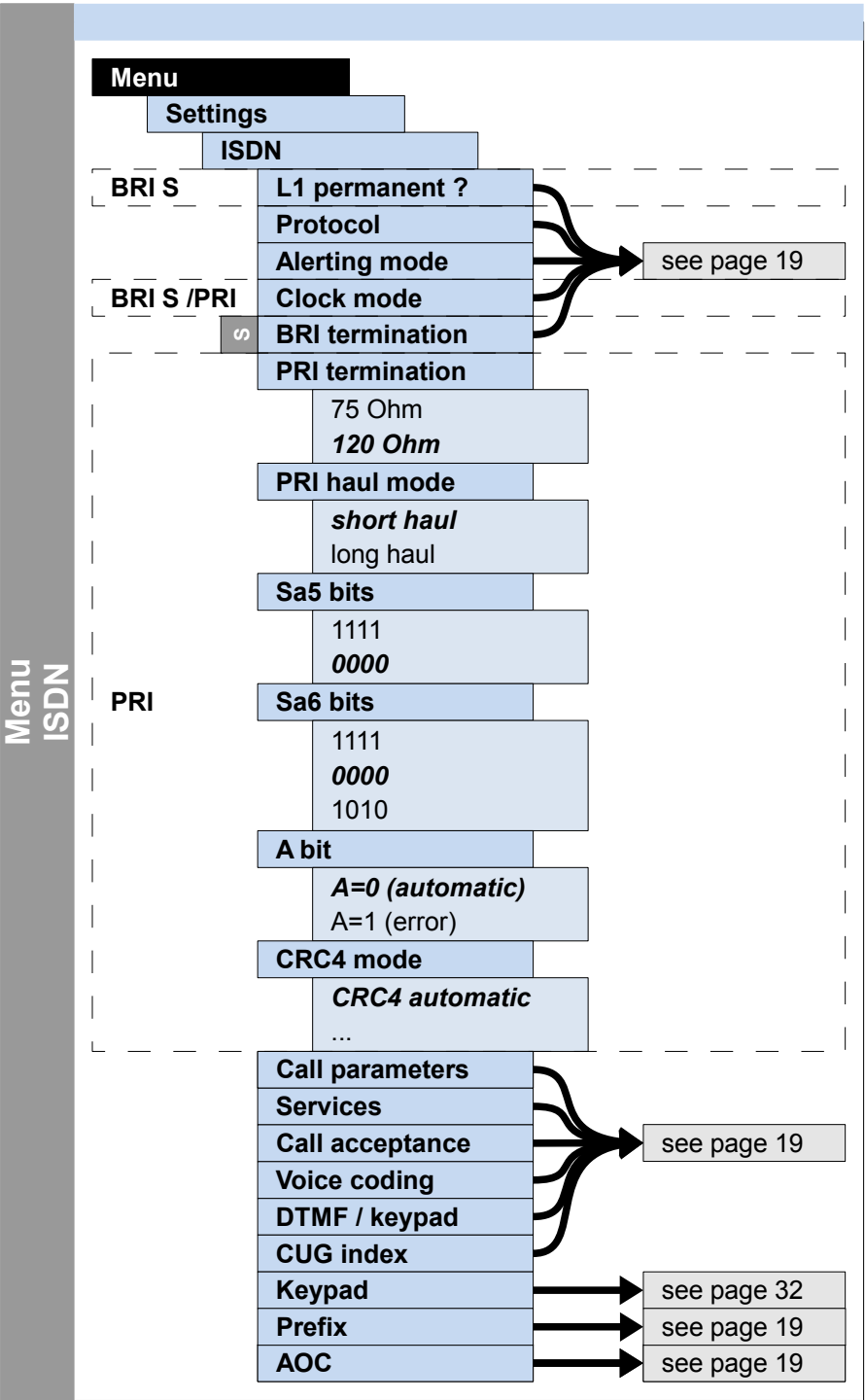
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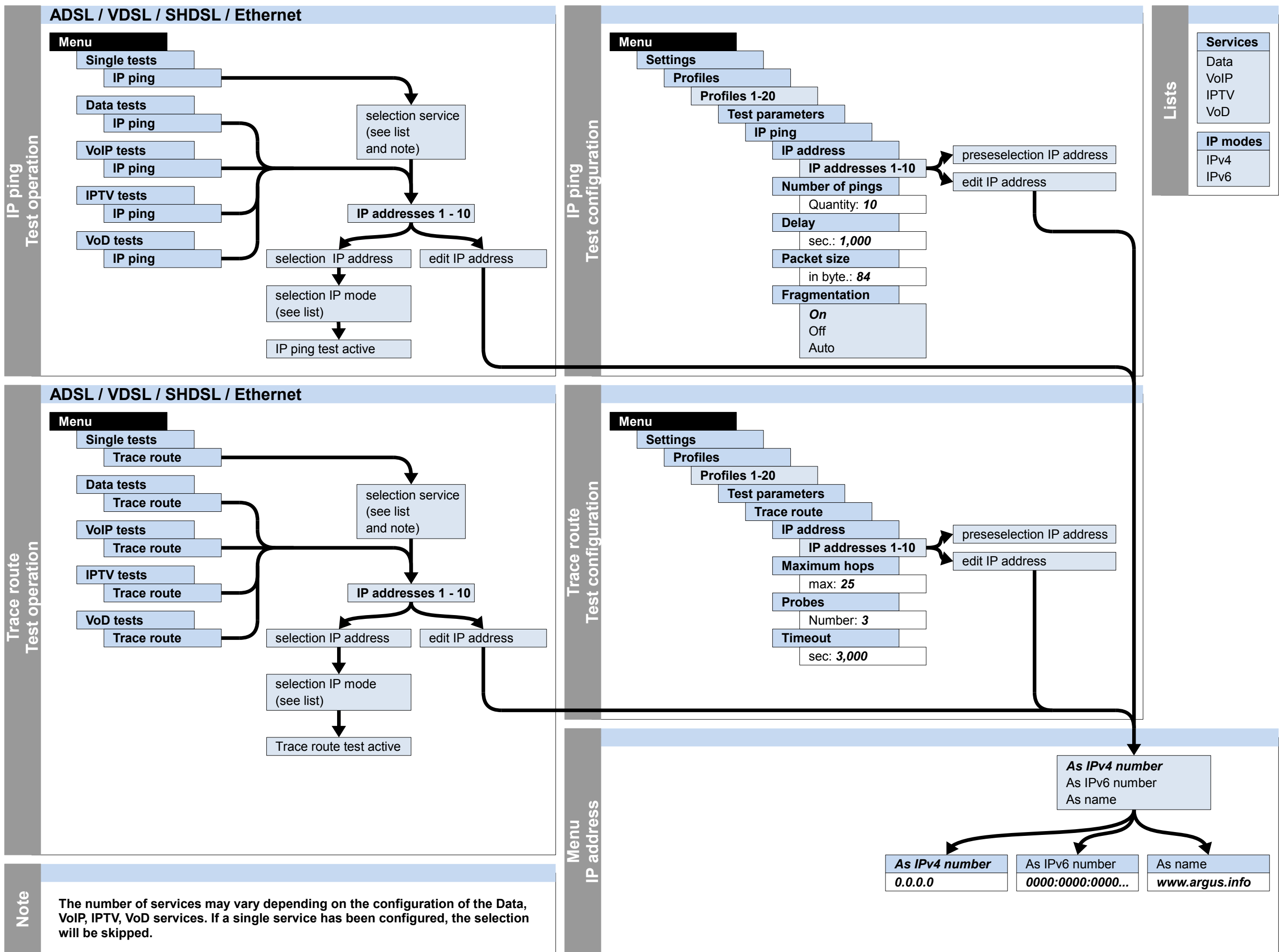
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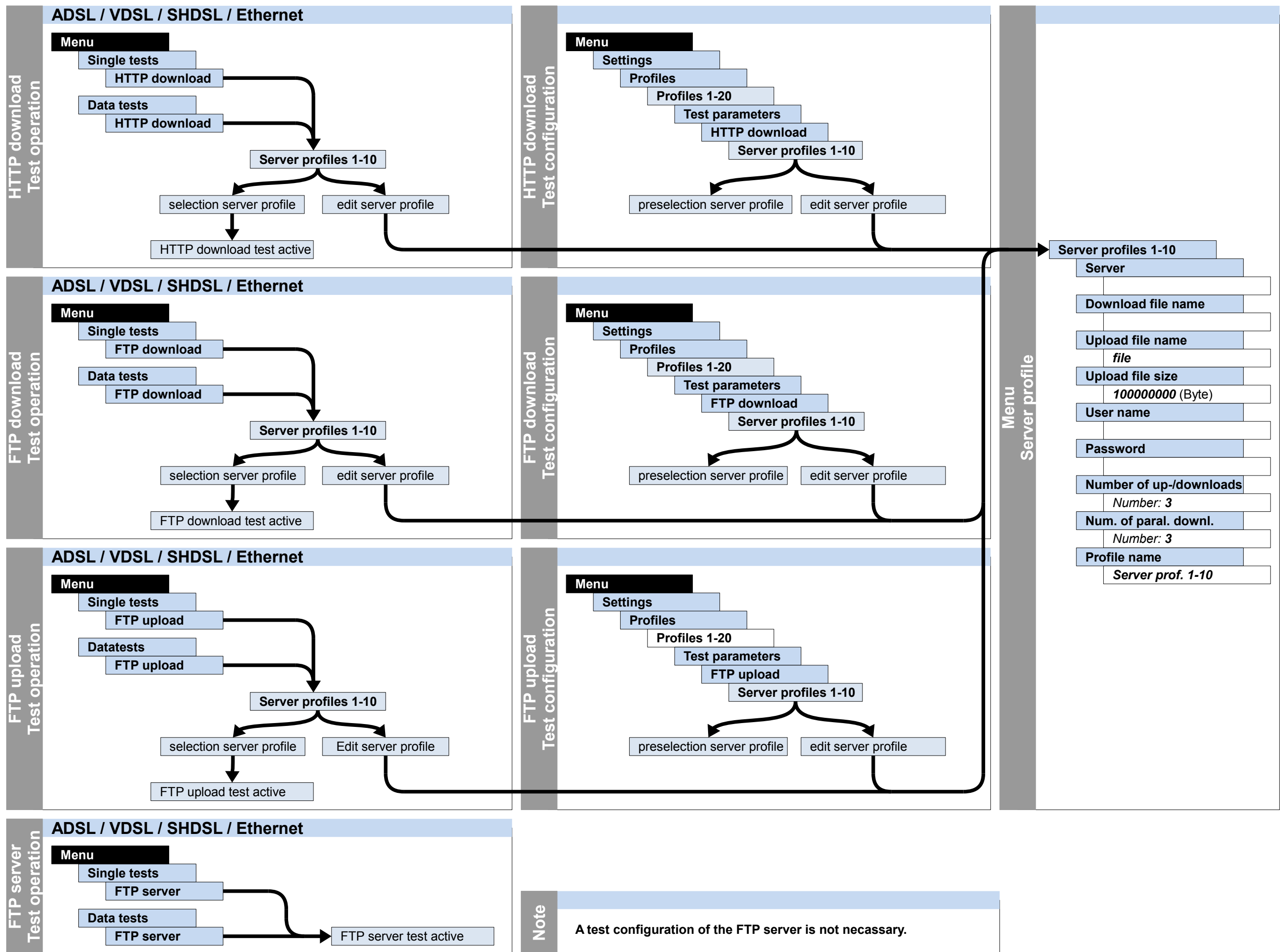
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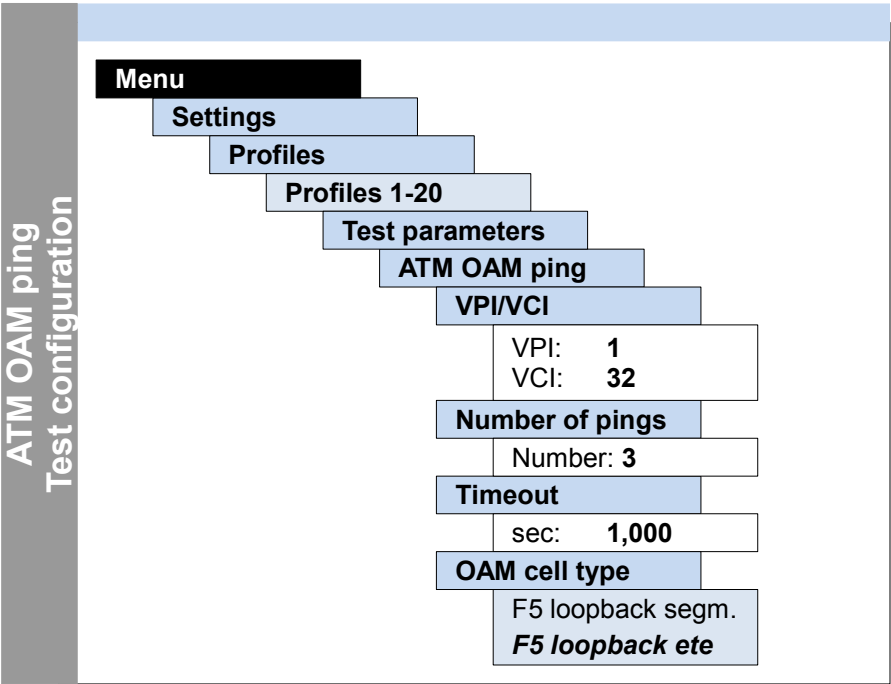
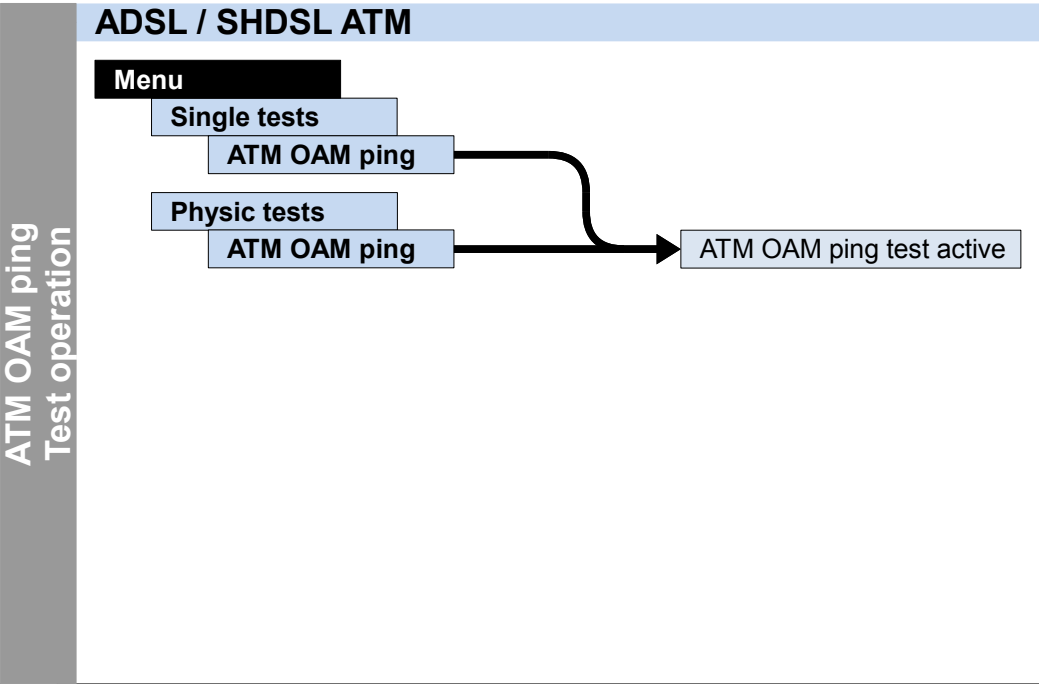
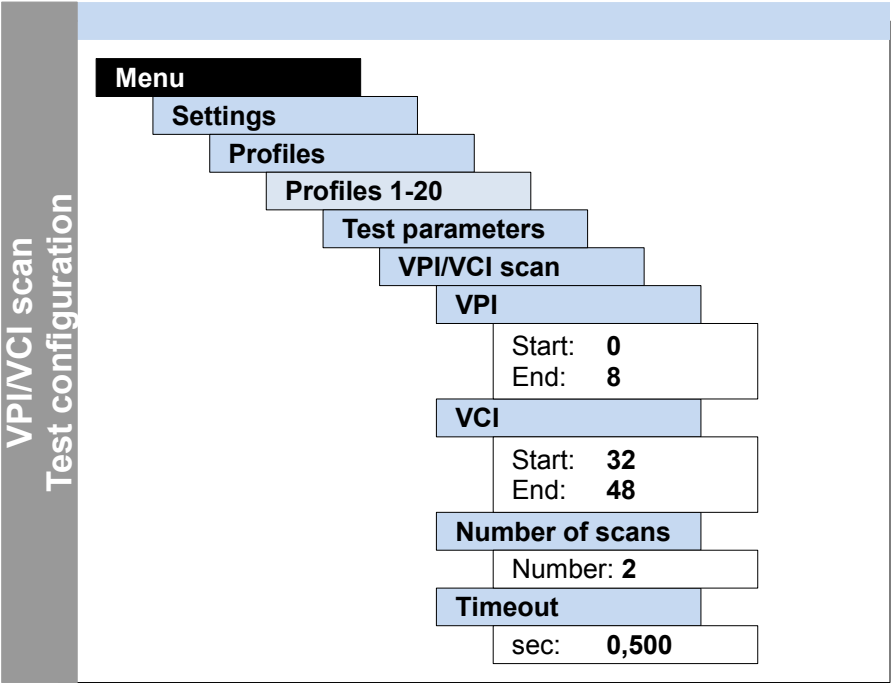
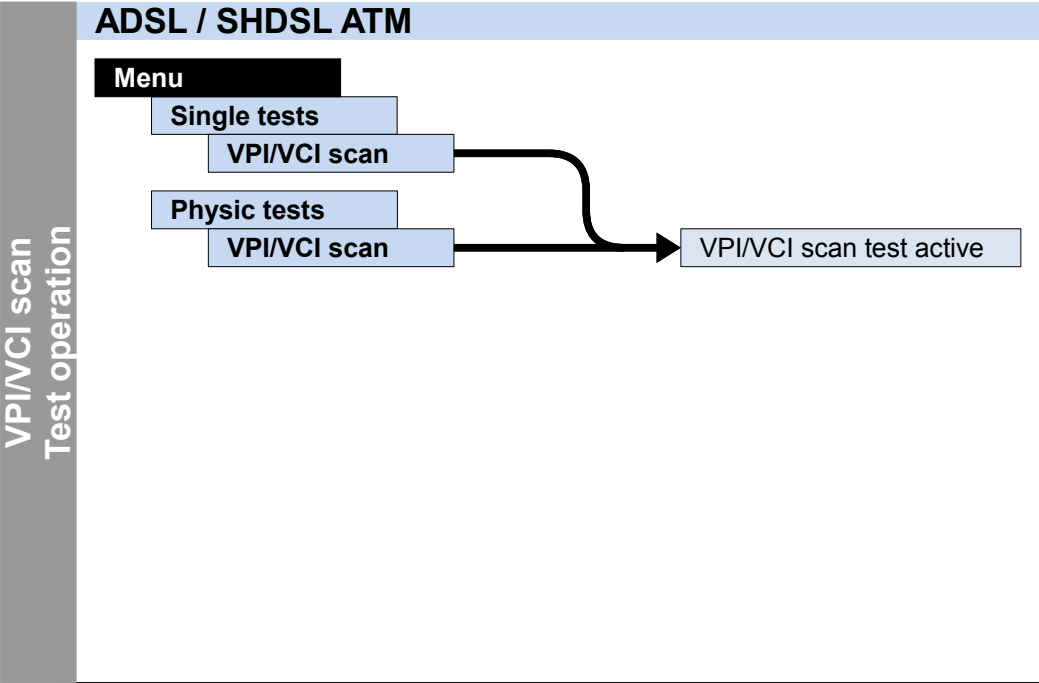
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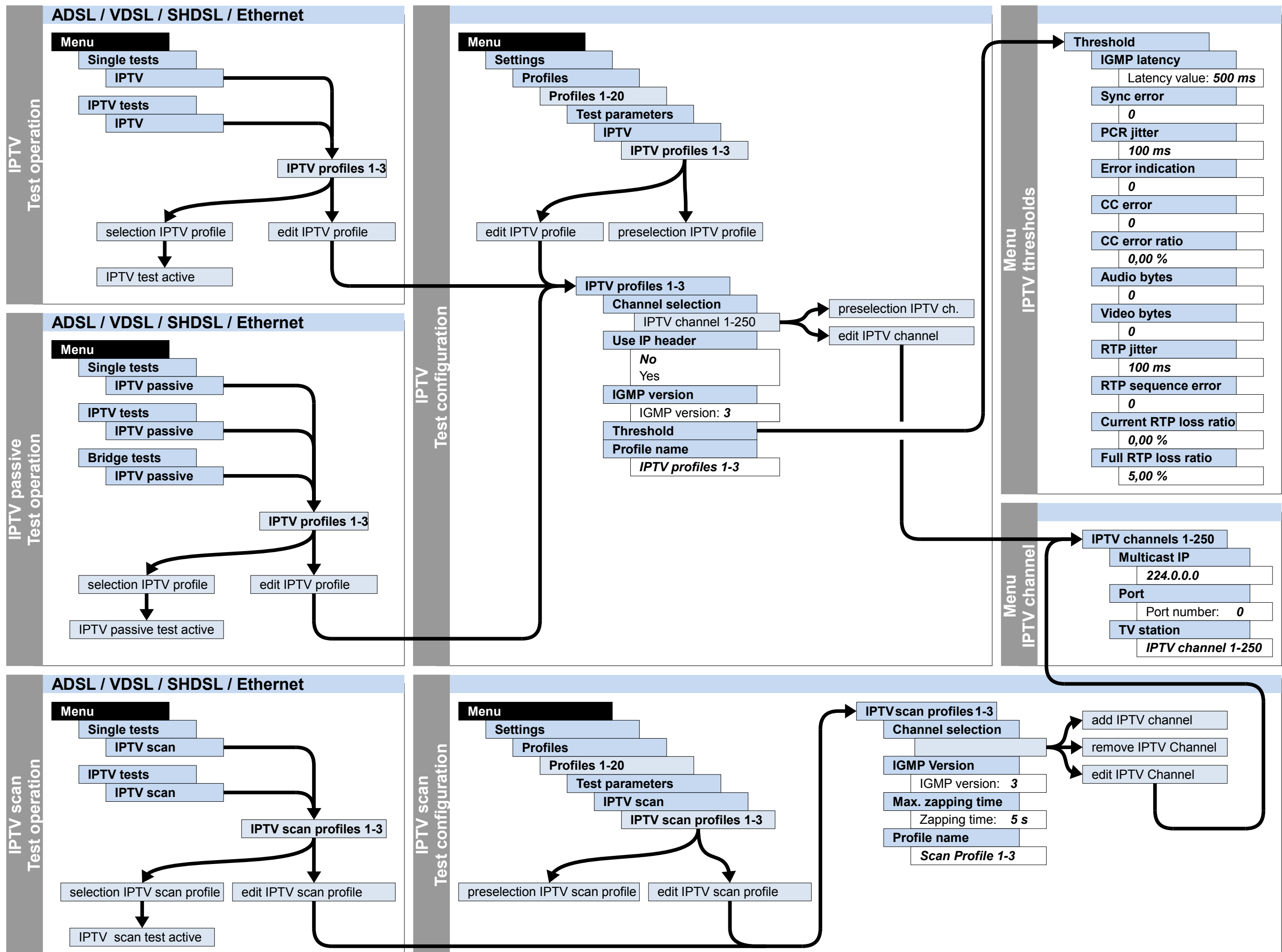
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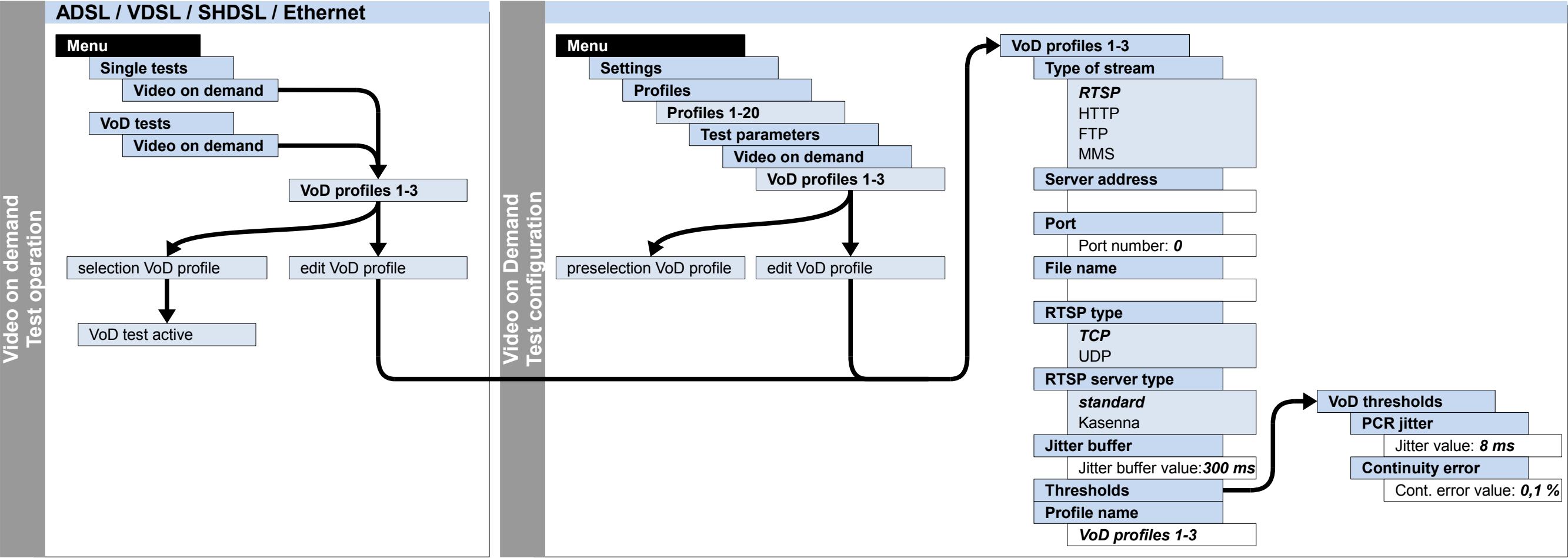
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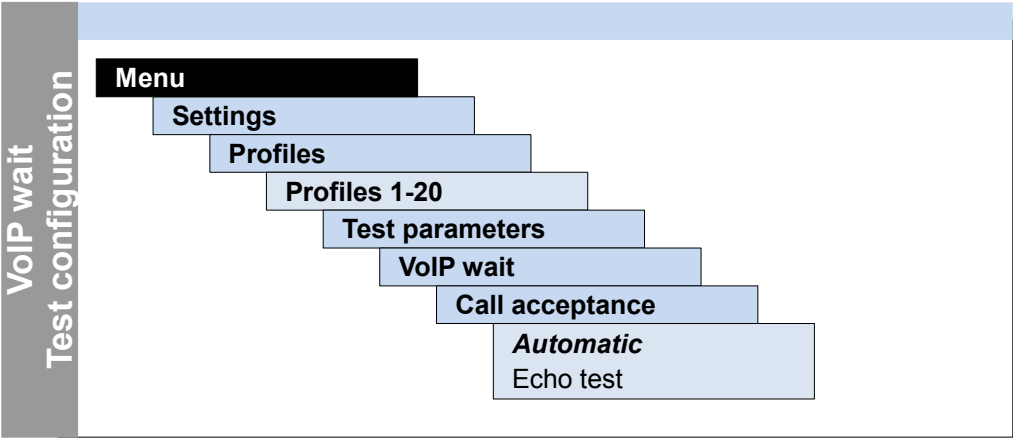
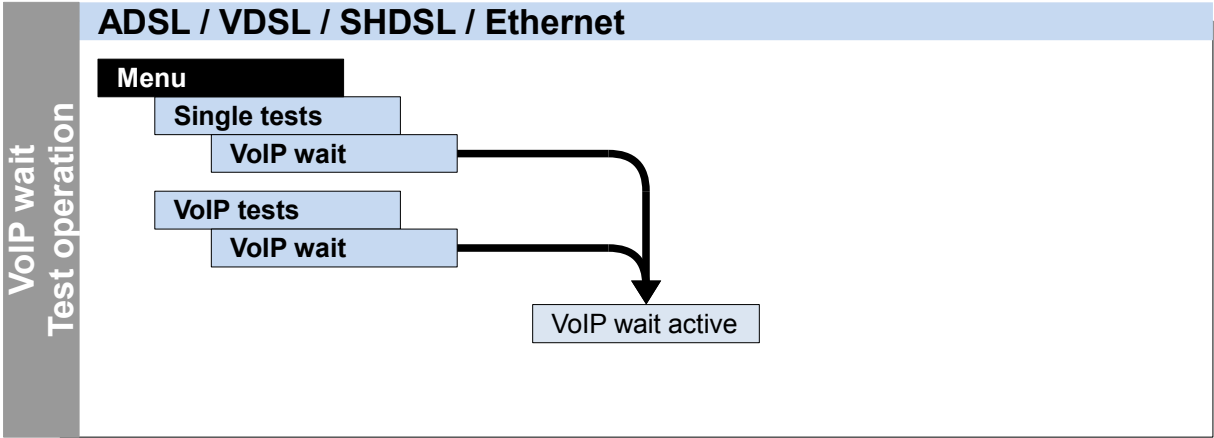
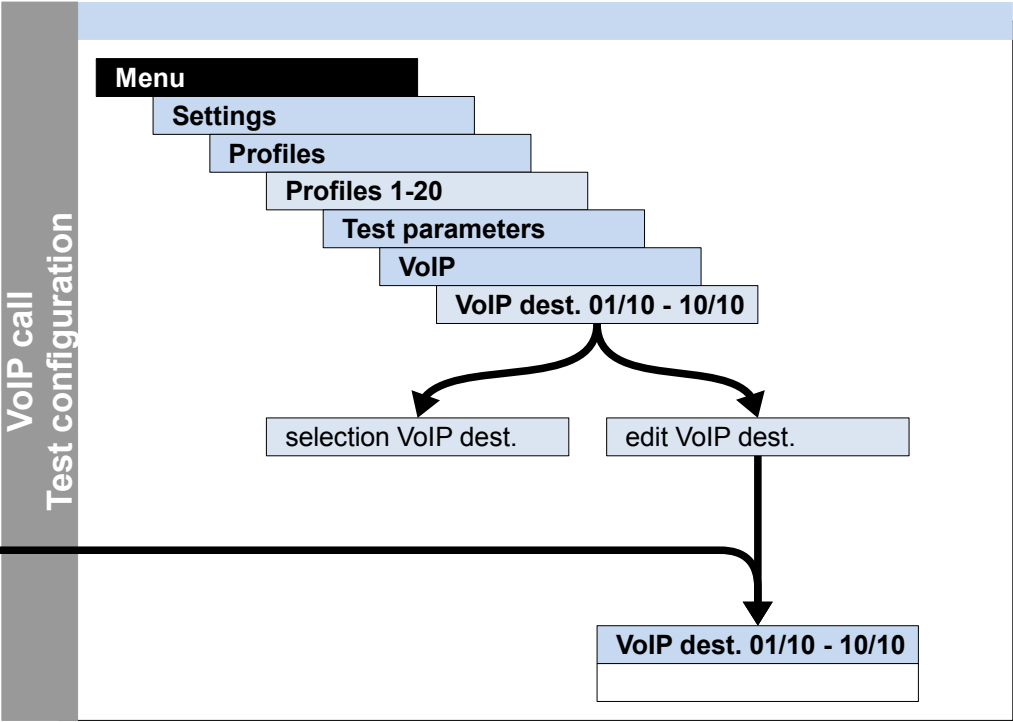
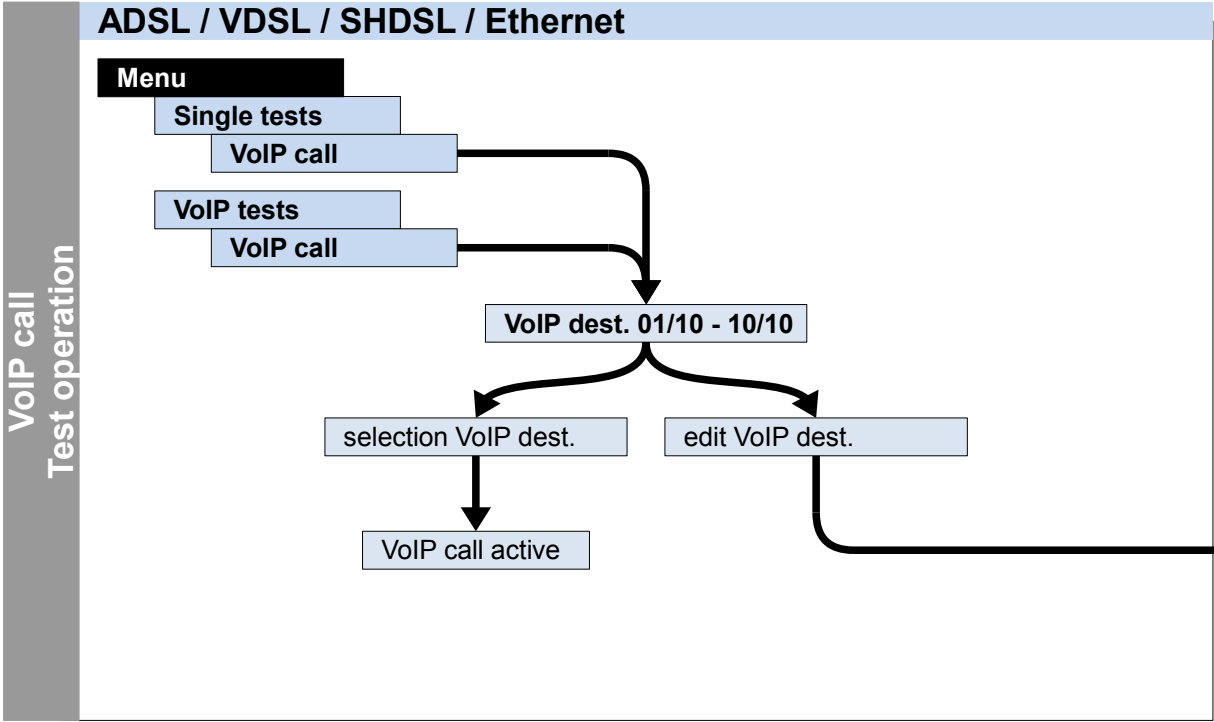
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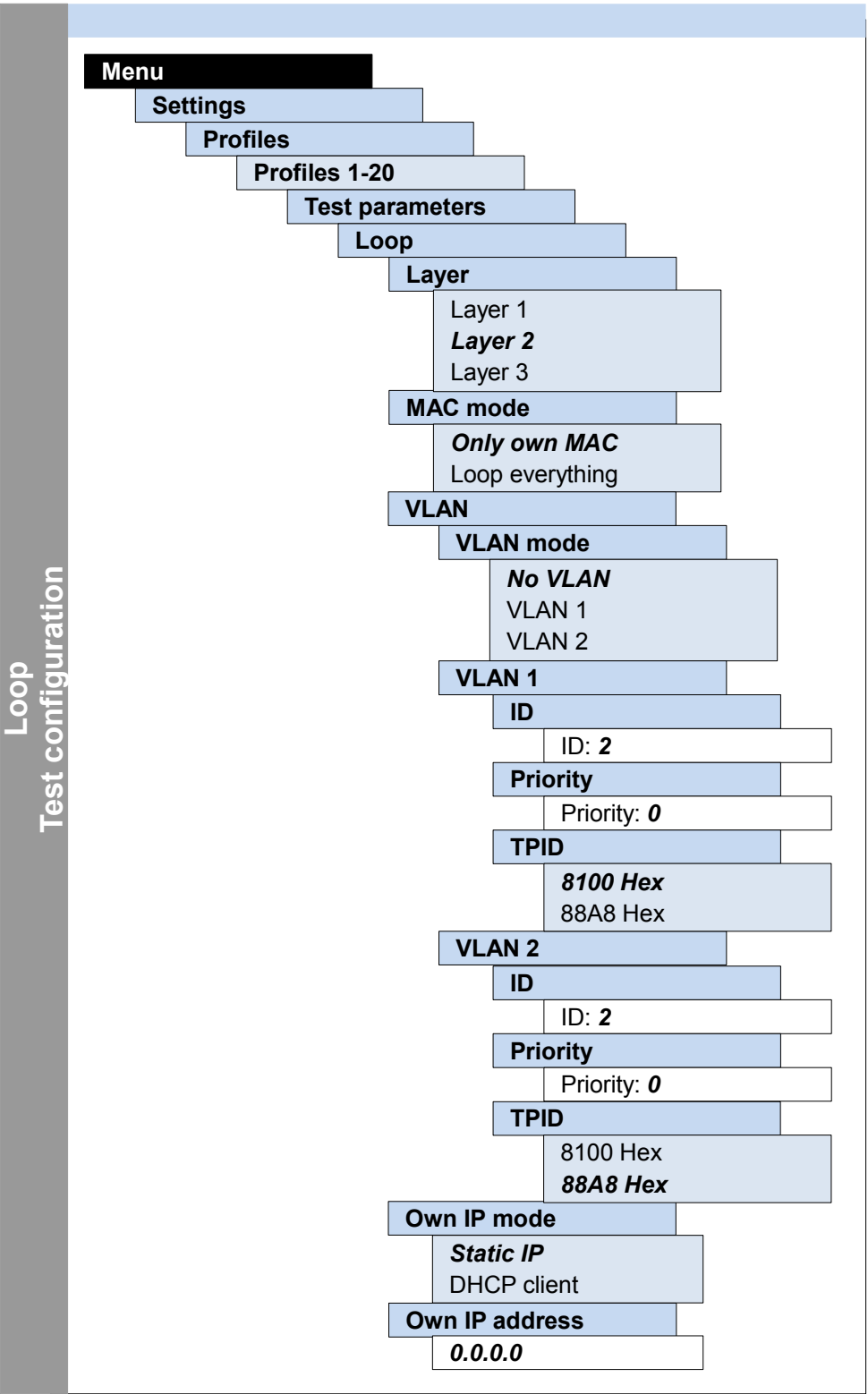
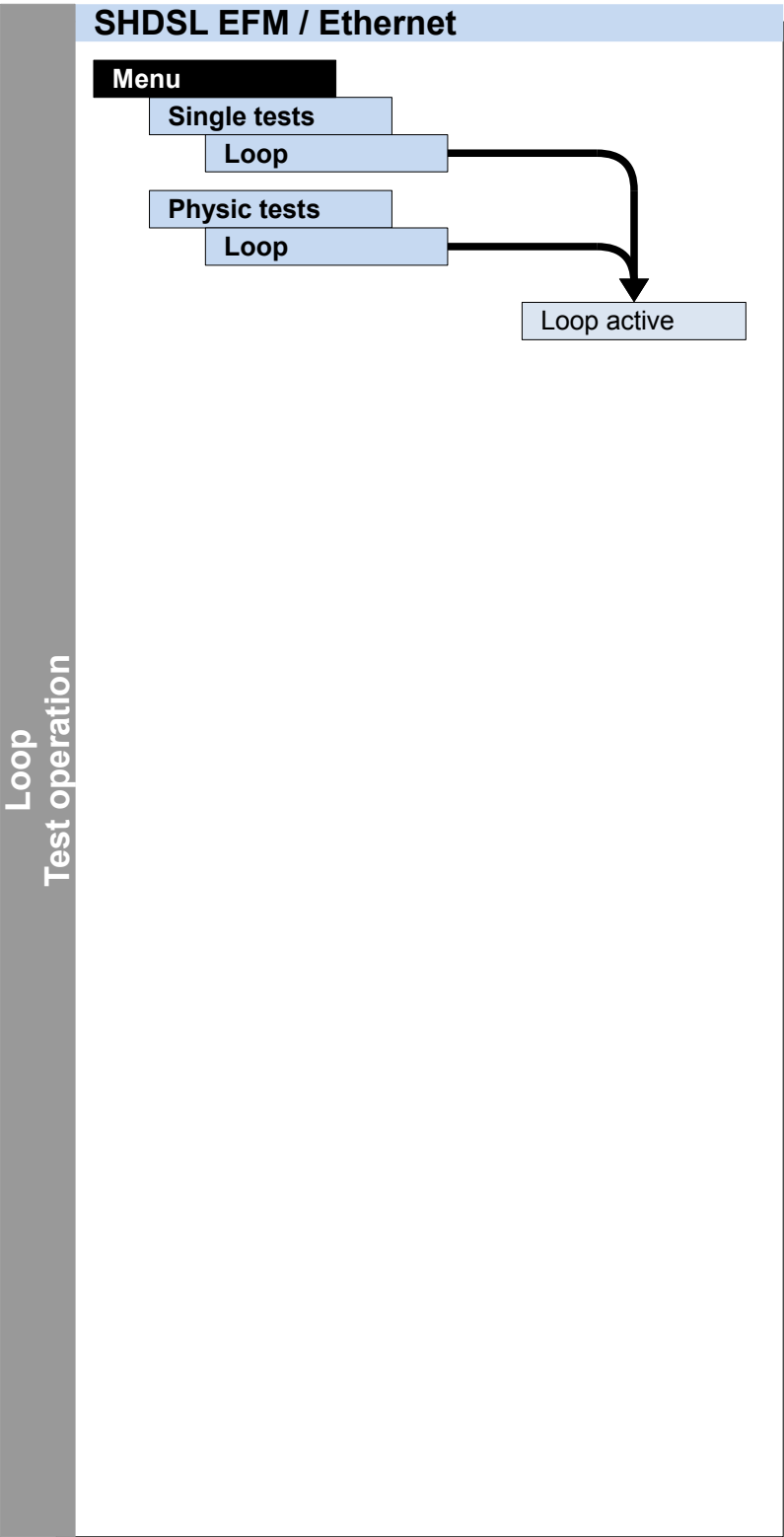
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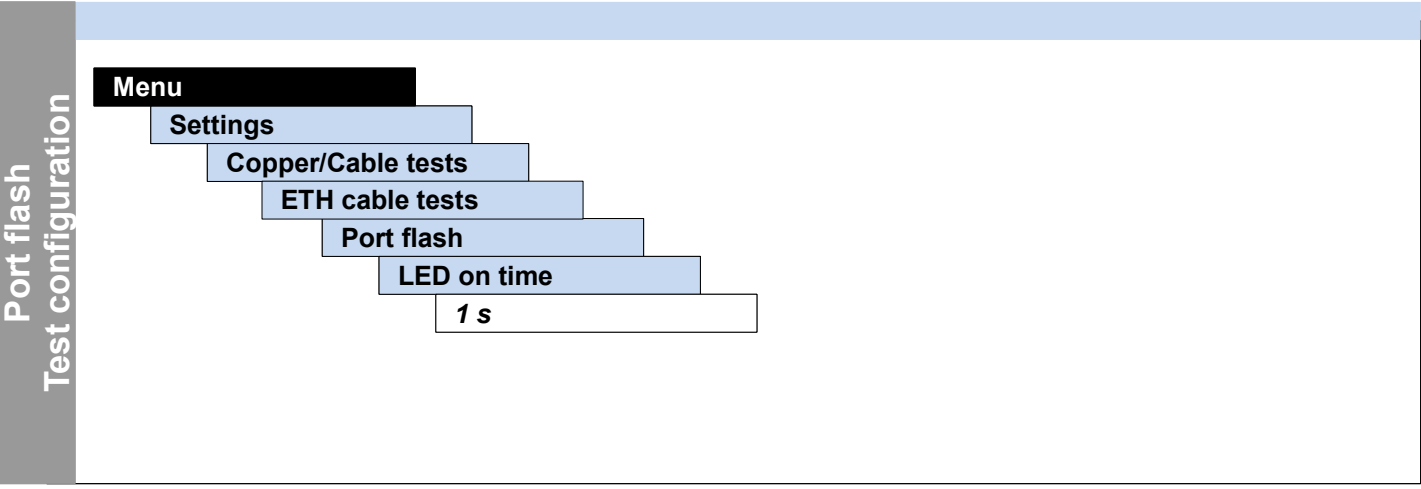
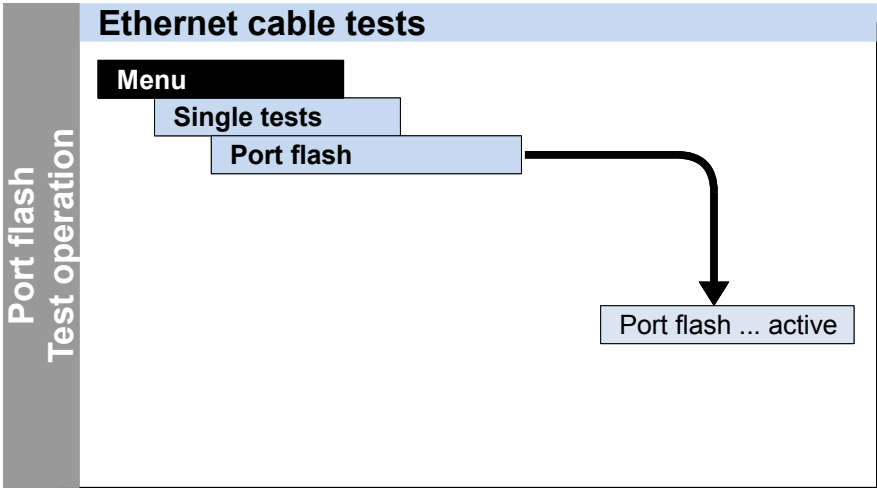
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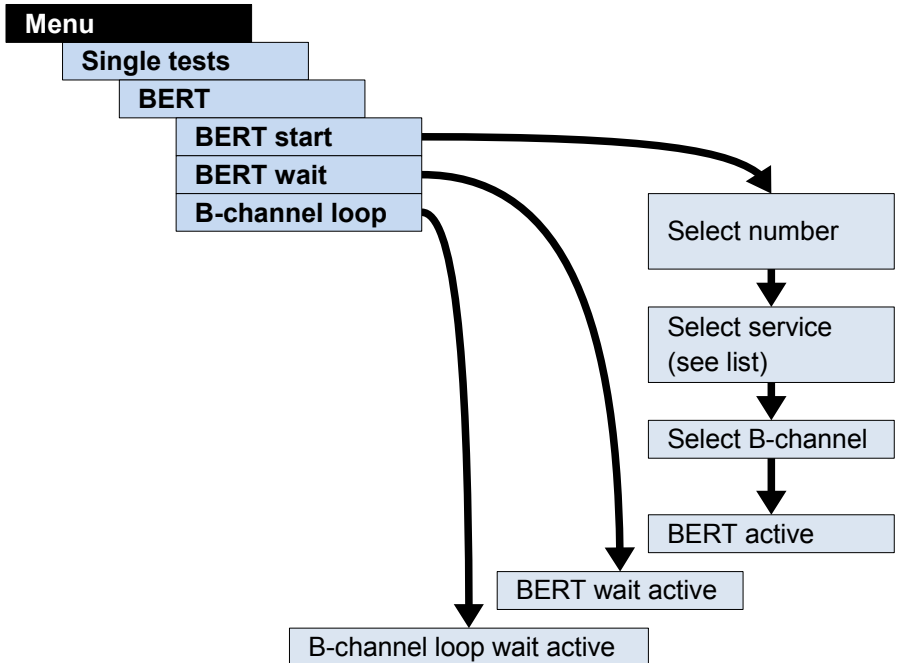
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BERT  
Test operation

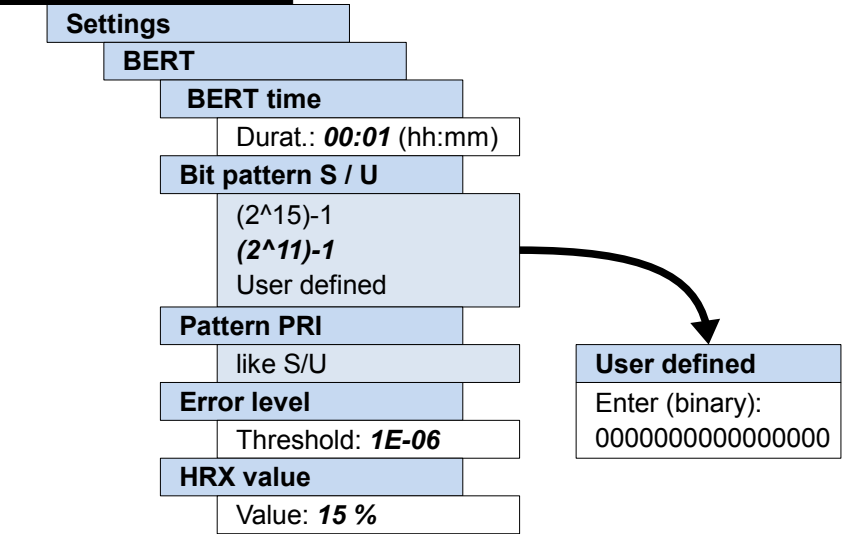
BRI S/U / PRI

TE ... / NT ...



BERT  
Test configuration

Menu



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Services

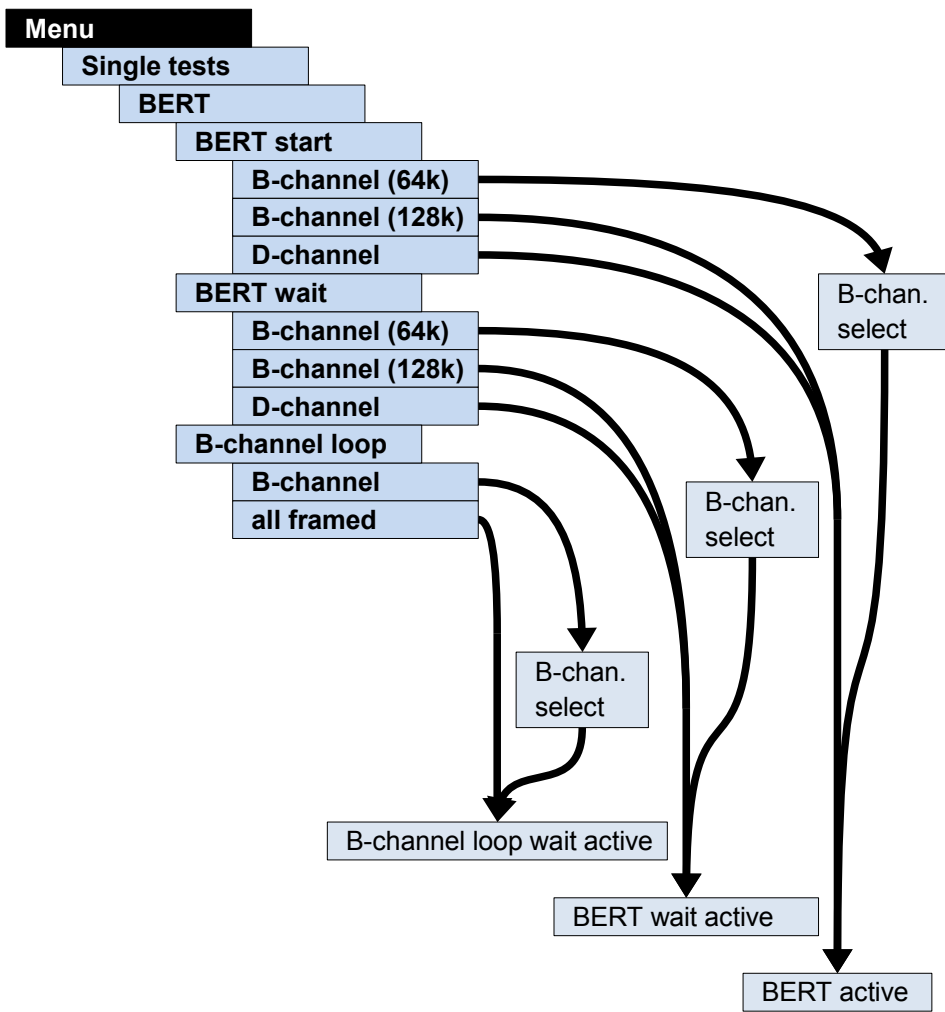
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- UDI 64 kBit
- 3.1 kHz audio
- 7 kHz audio
- DFU-TA
- Telephony ISDN
- Fax G3
- Fax G4
- Mixed Mode
- Teletex
- Videotex
- Telex
- OSI
- Telephony 7 kHz
- Video telephony 1
- Video telephony 2
- User specified 1
- User specified 2
- User specified 3

MegaBERT pattern

- 2^15-1
- 2^15-1 inverse
- 2^20/QRSS
- 2^20/QRSS/inverse
- Space (0000)
- Mark (1111)

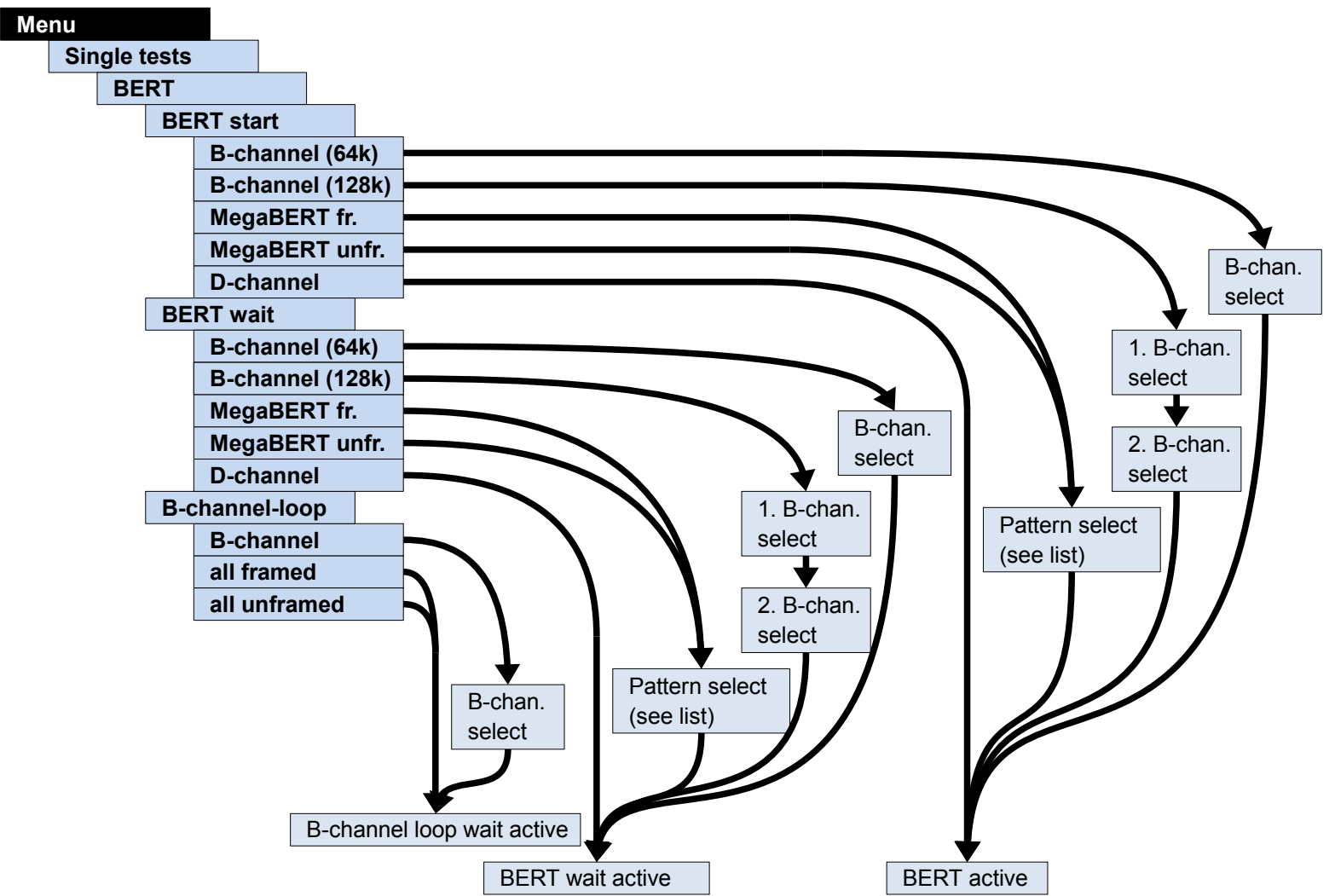
BRI S/U

Leased line



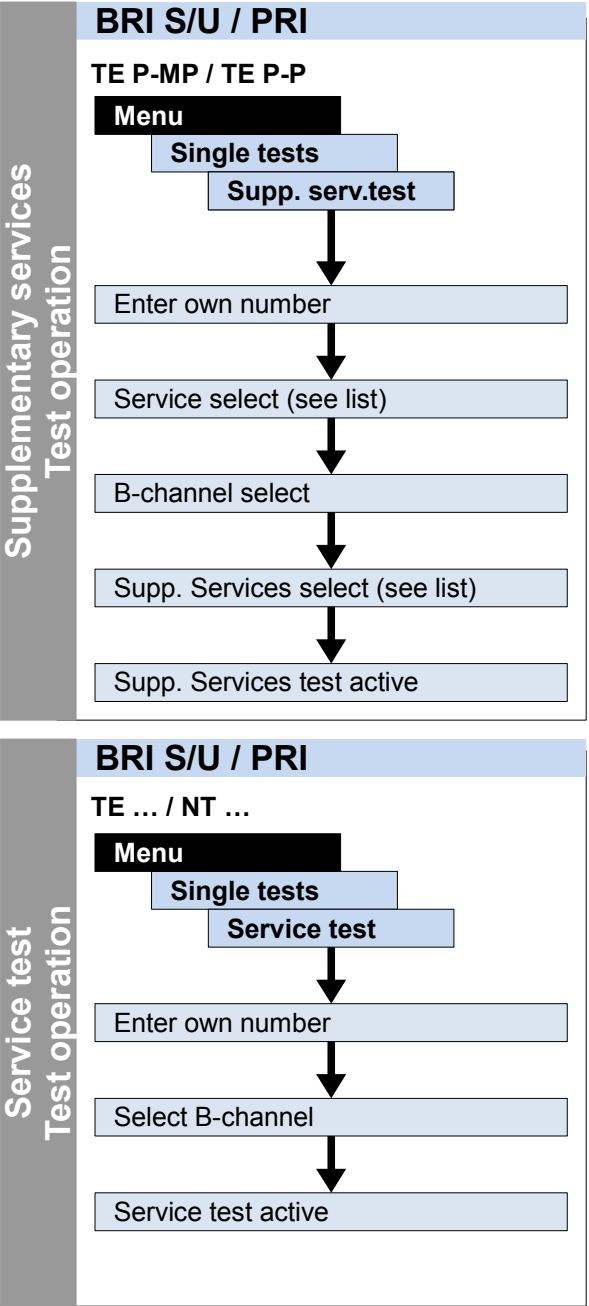
PRI

Leased line



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Fax G4
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Videotex
Telex
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Video telephony 2
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HOLD test
CLIP test
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CFB
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CCBS test
CCNR test
MCID test
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AOC test
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X.31 test  
Test operation

BRI S/U / PRI

TE P-MP / TE P-P

Menu

Single tests

X.31 test

X.31 profiles 1-3

Select X.31 profile

Edit X.31 profile

Automatic

Manual

Enter TEI

Enter LCN

Edit / select number

X.31 test active

Looking for TEI

Edit / select number

X.31 test active

X.31 test  
Test configuration

Menu

Settings

X.31 profiles

X.31 profiles 1-3

Edit X.31 profile

Select X.31 profile

Packet number

Packet count: 10

TEI

TEI: \*\*

LCN

LCN: 1

Packet size

16 Byte  
32 Byte  
64 Byte  
128 Byte  
256 Byte

Agree packet size

No  
Yes

Window size

Agree window size

No  
Yes

Throughput

Agree throughput

No  
Yes

User data

CUG

No  
Yes

CUG-Index

Index: 1

D-Bit

Local  
End to end

Facilities

Profilename

X.31 profiles 1-3

Menu  
Throughput

Throughput

75 bit/s  
150 bit /s  
300 bit/s  
600 bit/s  
1200 bit/s  
2400 bit/s  
4800 bit/s  
9600 bit/s

Menu  
Window size

Window size

1 packet  
2 packets  
3 packets  
4 packets  
5 packets  
6 packets  
7 packets

Menu  
User data

User data

Format

ASCII

HEX

ASCII data

ASCII data 1-3

HEX data

HEX data 1-3

Edit ASCII data

ASCII data 1-3

Edit HEX data

HEX data 1

01 00 00 00 45 43 48 4F

HEX data 2

01 00 00 00 30 30 47 47

HEX data 3

Menu  
Facilities

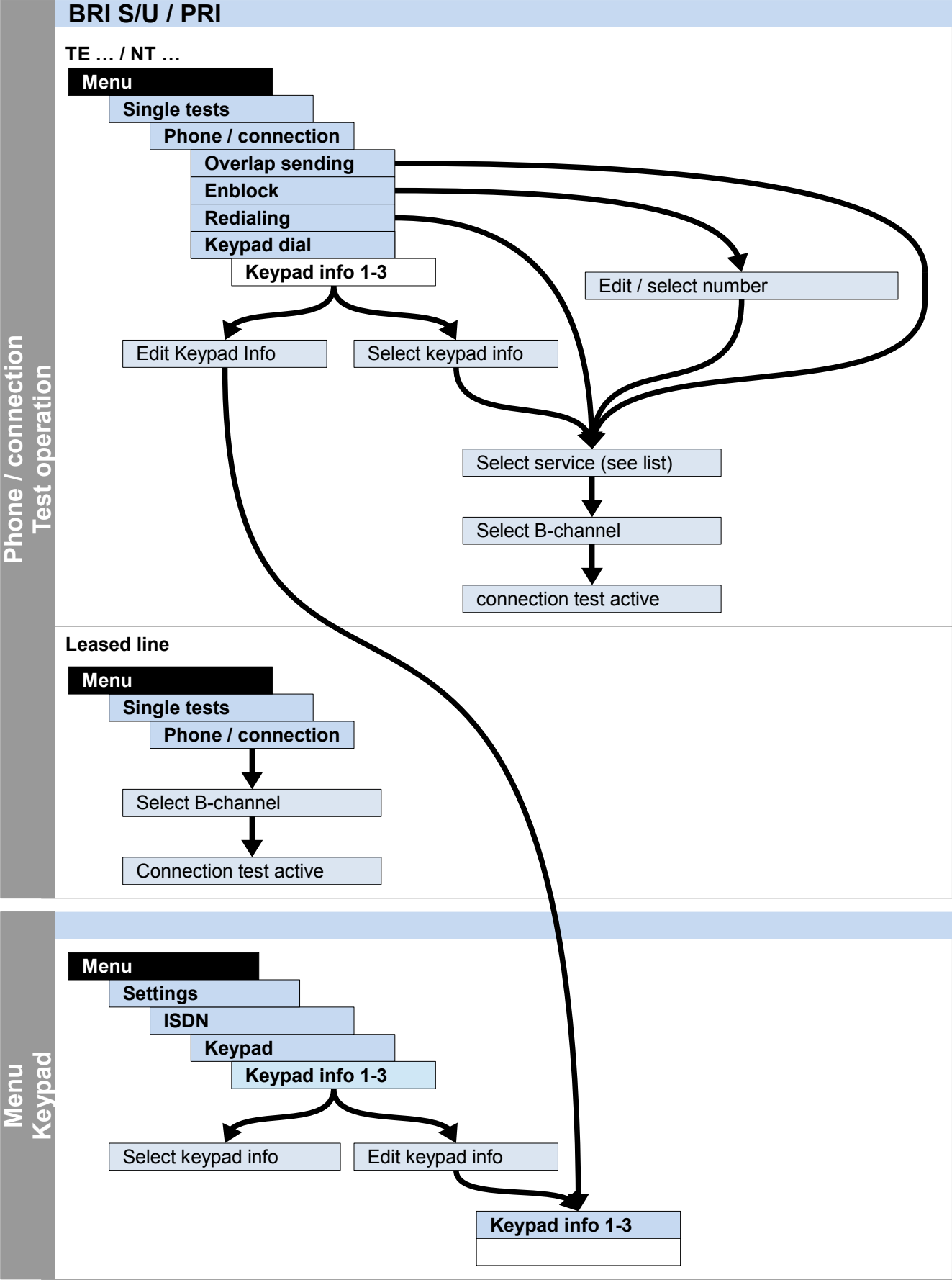
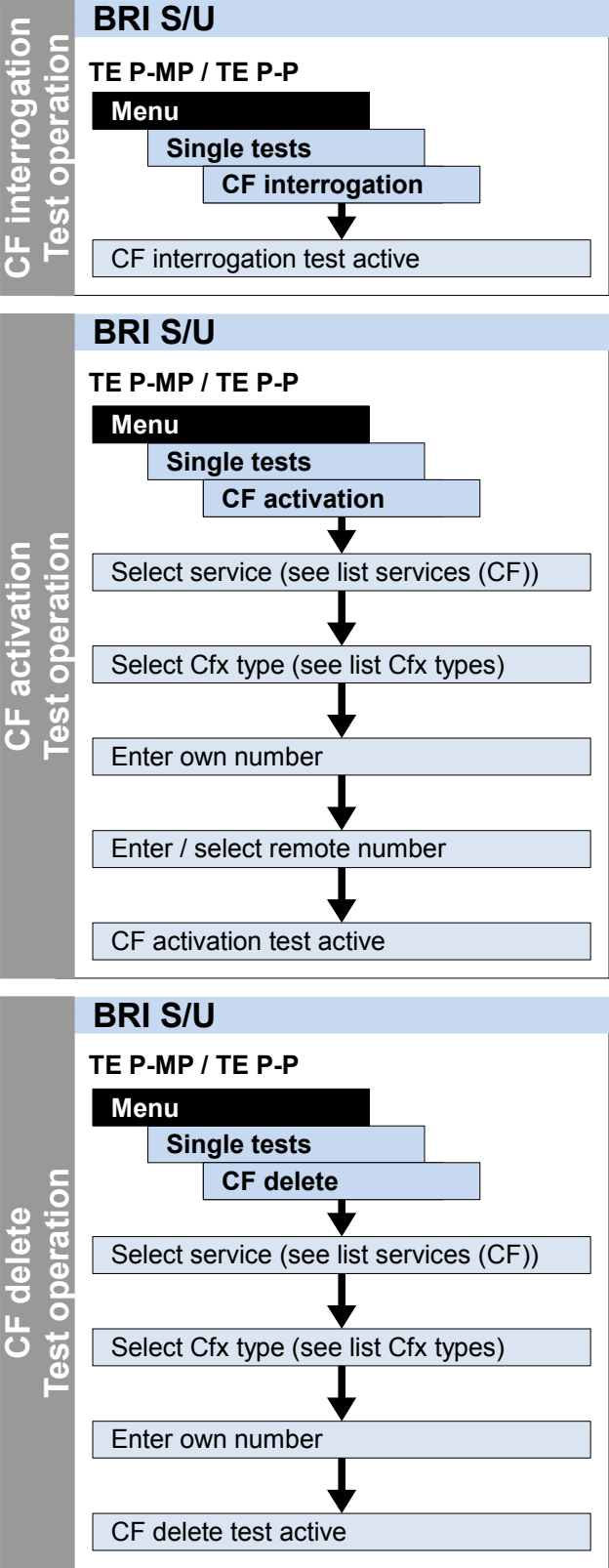
Facilities

Facility 1-3

Edit Facility

Facility 1-3

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Line scope DMT analysis TDR	35
ETH cable tests	
Others	28
Others	page
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Hotkeys	
Test leads	4
	36-39



Lists

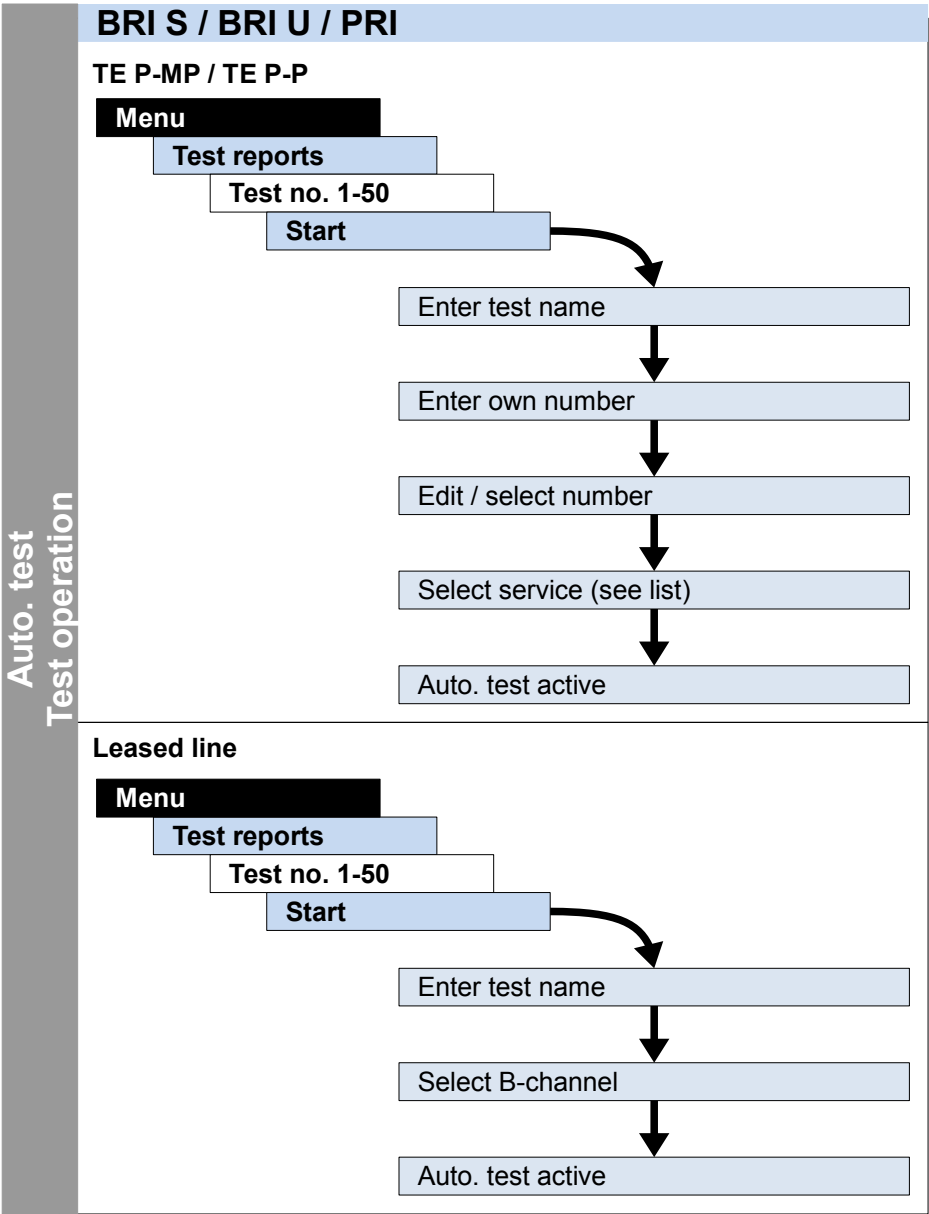
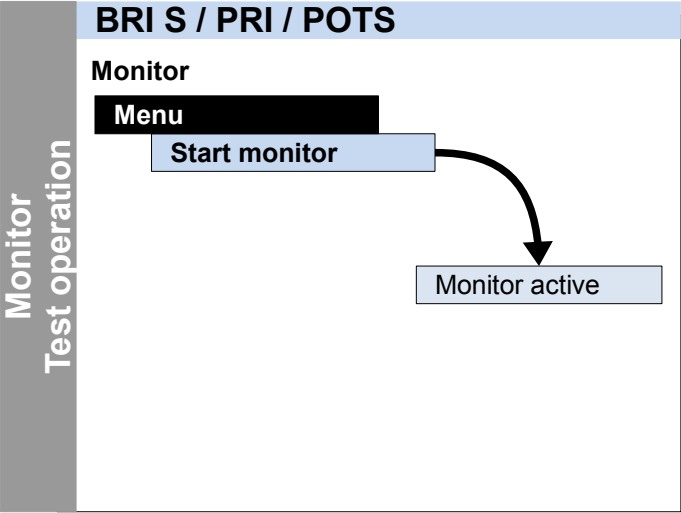
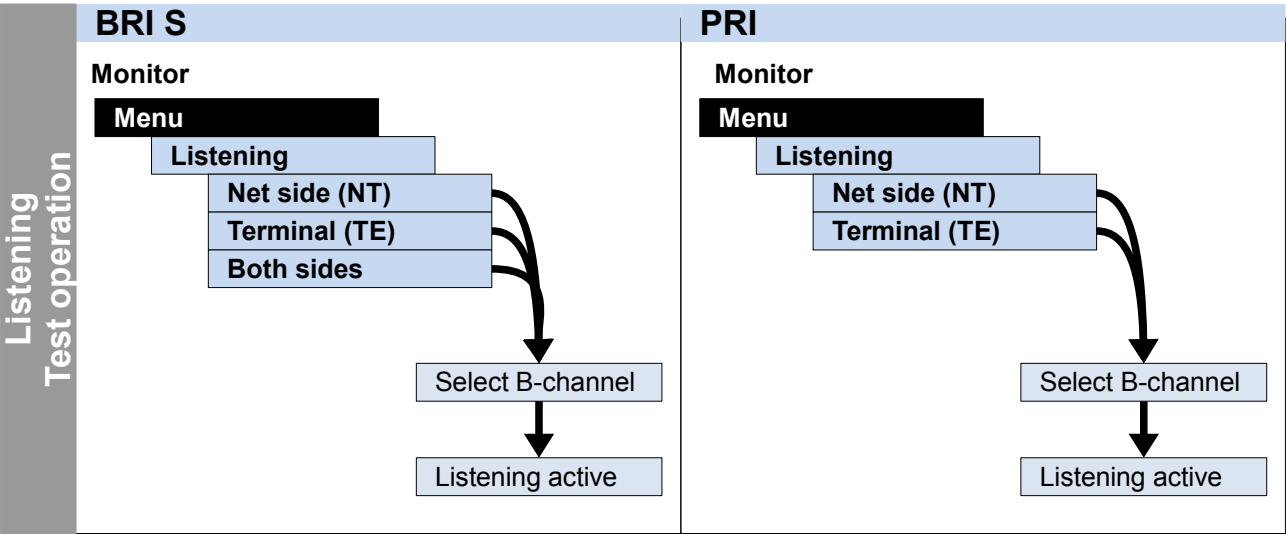
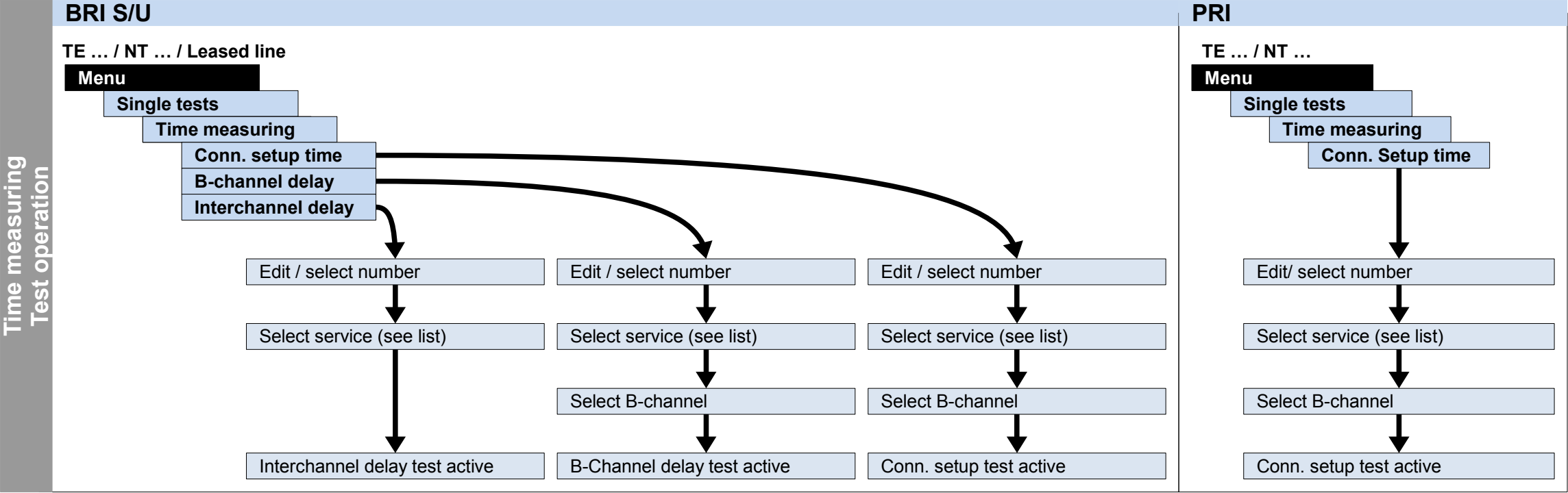
Services
speech
IDU 64 kBit
3.1 kHz audio
7 kHz audio
IDU TA
Telephony ISDN
Fax G3
Fax G4
Mixed Mode
Teletex
Videotex
Telex
OSI
Telephony7 kHz
Videotelephony 1
Videotelephony 2
User specified 1
User specified 2
User specified 3

Services (CF)
All
Spch
DFU
A3K1H
A7kHz
Tel31
TTX
FaxG4
ViSyB
ViTel
FaxG3
Tel7k

Cfx types
CFU
CFB
CFNR

Cross reference:

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Line scope DMT analysis TDR	35
ETH cable tests	28
Others	page
Legend Protocol-overview	3
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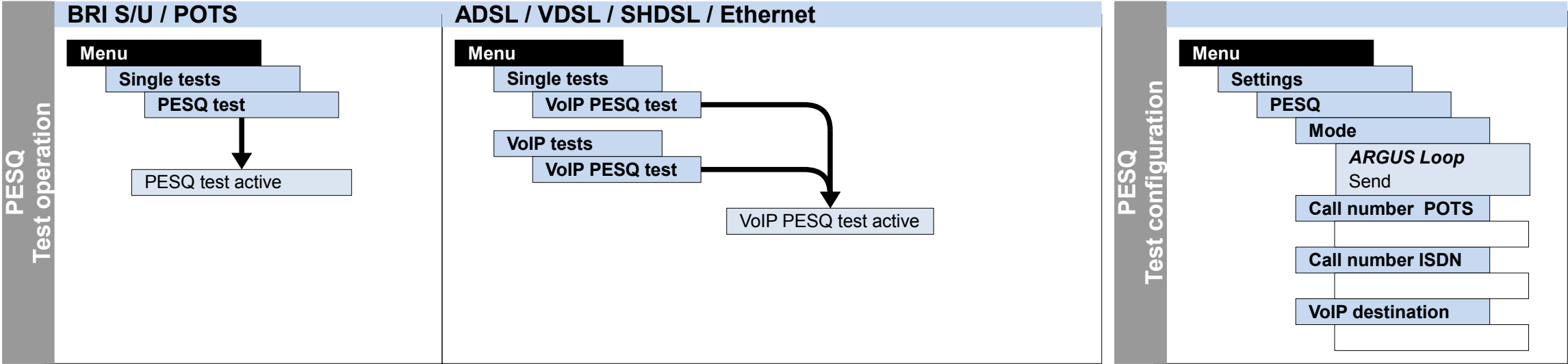
List

Services
Speech
IDU 64 kBit
3.1 kHz audio
7 kHz audio
IDU TA
Telephony ISDN
Fax G3
Fax G4
Mixed Mode
Teletex
Videotex
Telex
OSI
Telephony 7 kHz
Videotelephony 1
Videotelephony 2
User specified 1
User specified 2
User specified 3



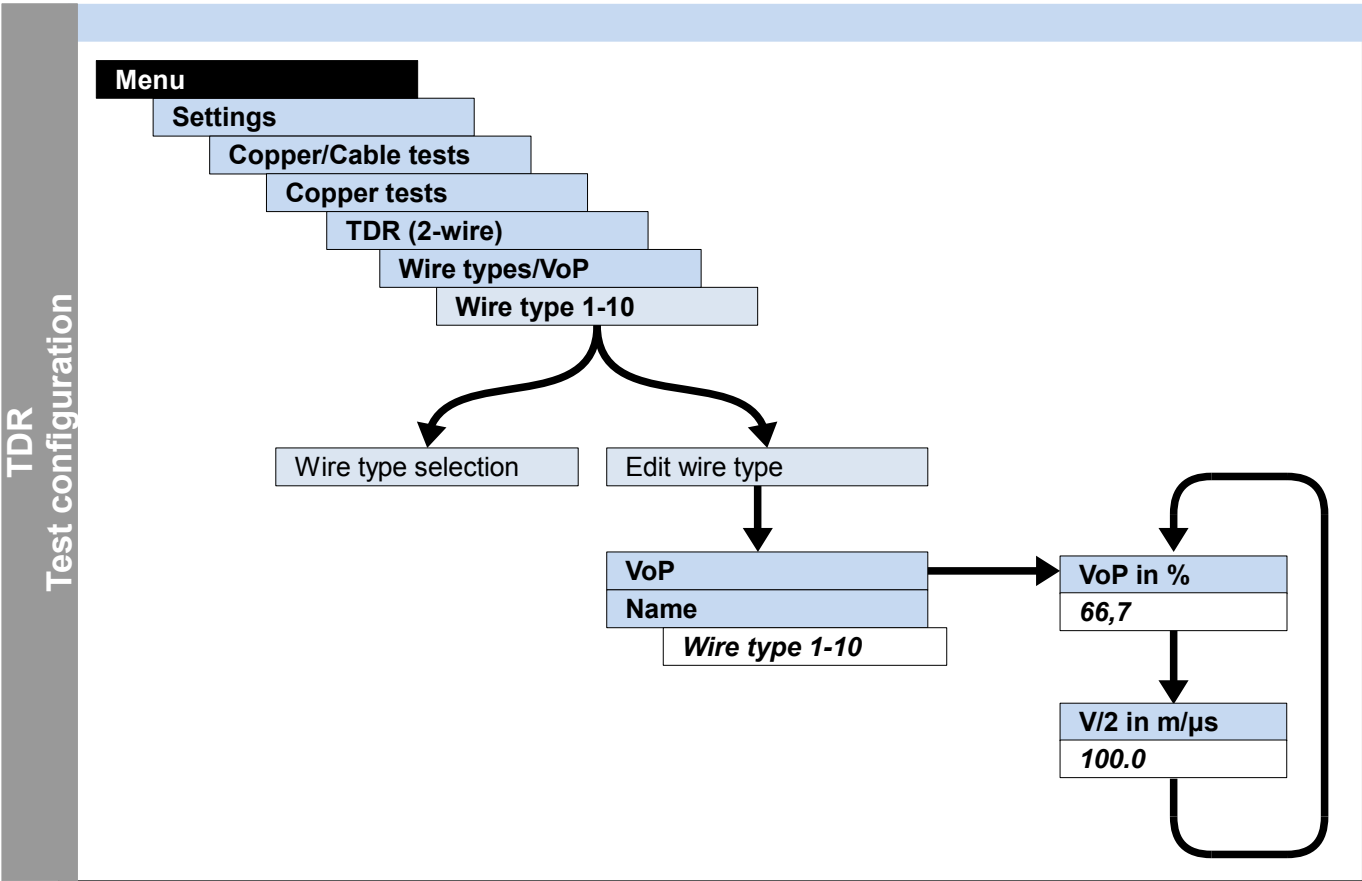
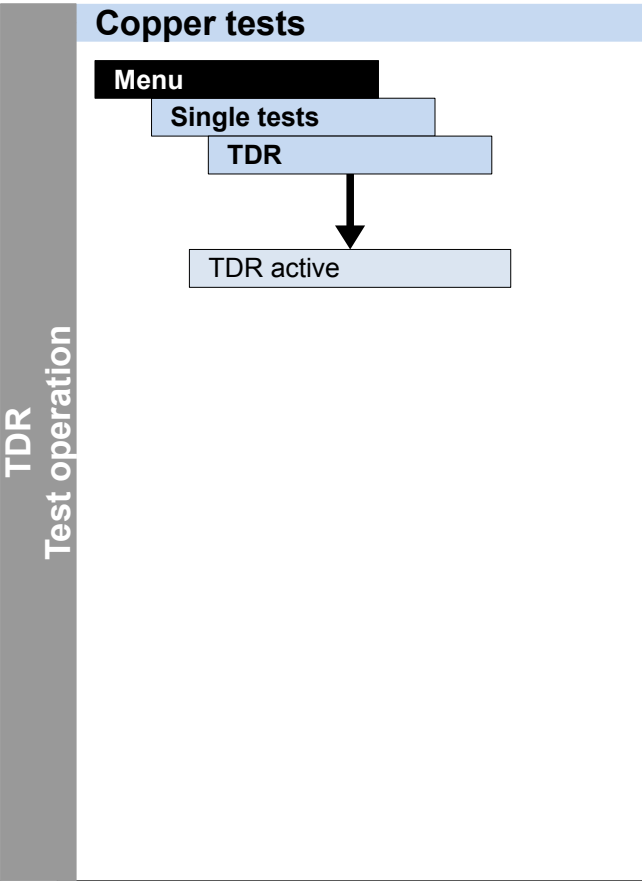
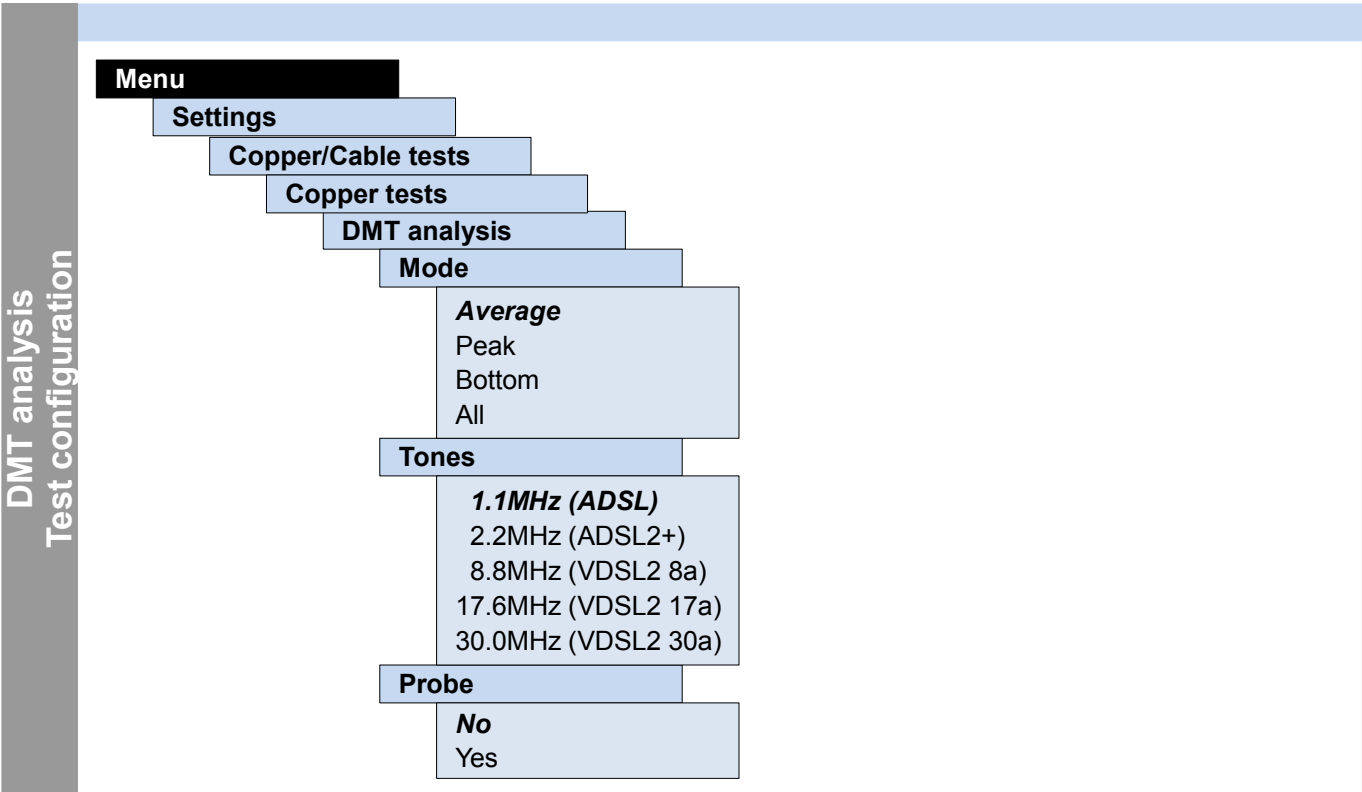
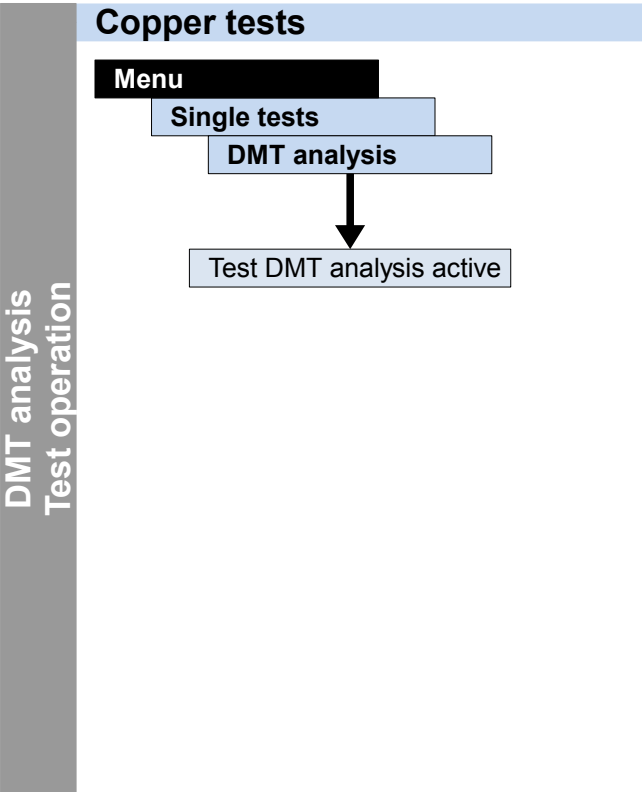
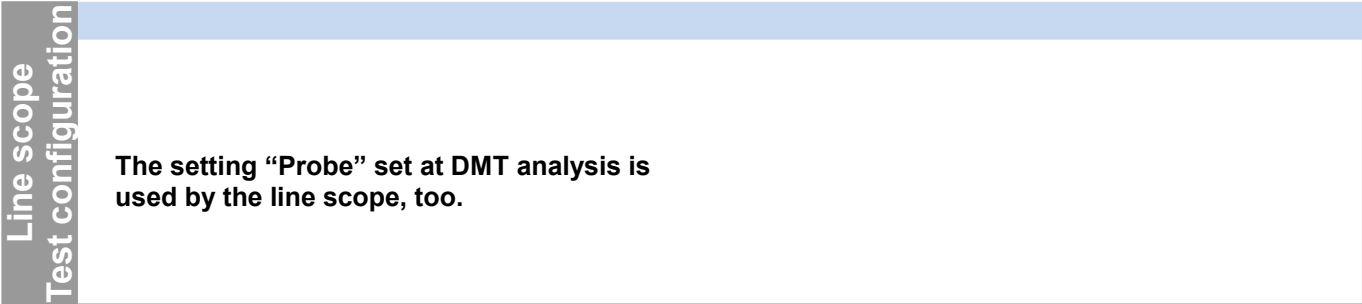
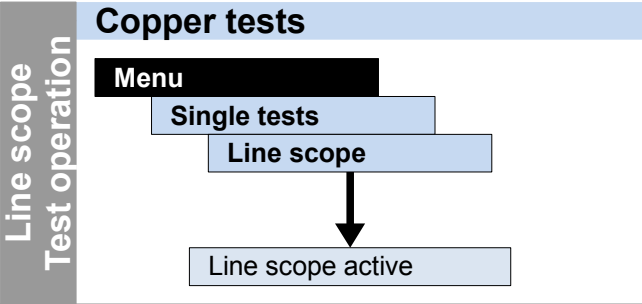
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Hotkeys	4
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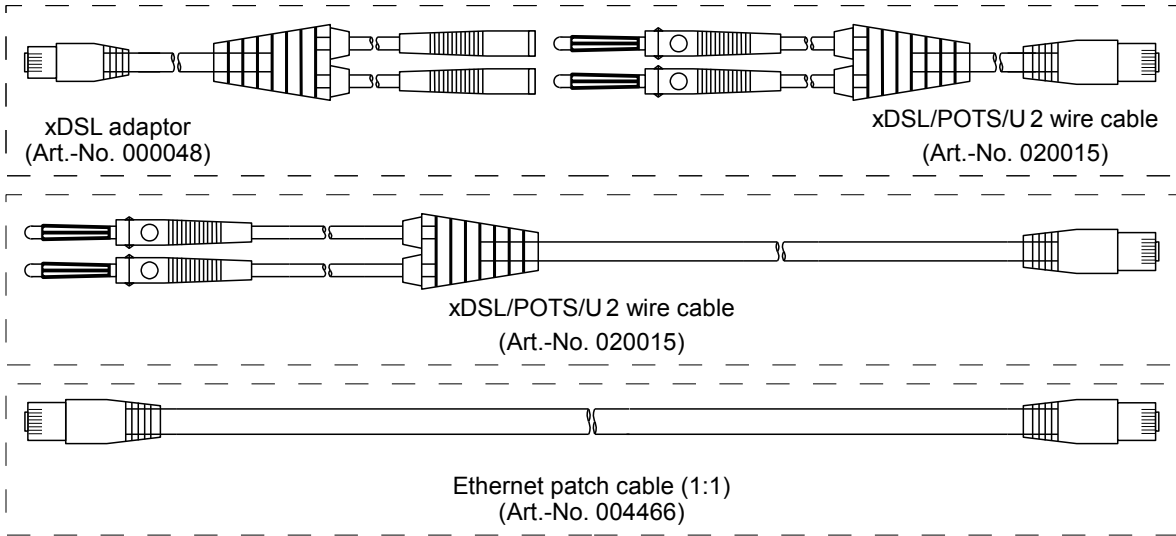


Test leads and pin assignments

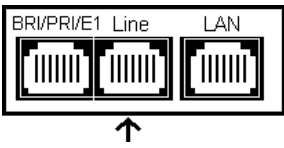
ADSL, VDSL

Cross reference:	
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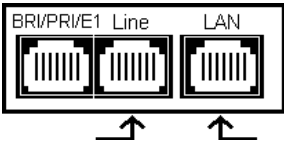
ADSL / VDSL



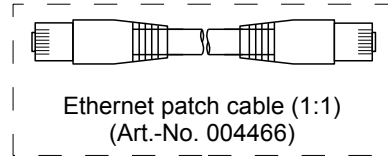
RJ11	Ban.	RJ45
3	rd	4
4	blk	5
Ban.		RJ45
rd		4
blk		5
RJ45		RJ45
1-8		1-8



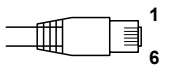
ADSL / VDSL – Bridge / Router



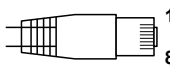
RJ45	RJ45
1-8	1-8



RJ11



RJ45



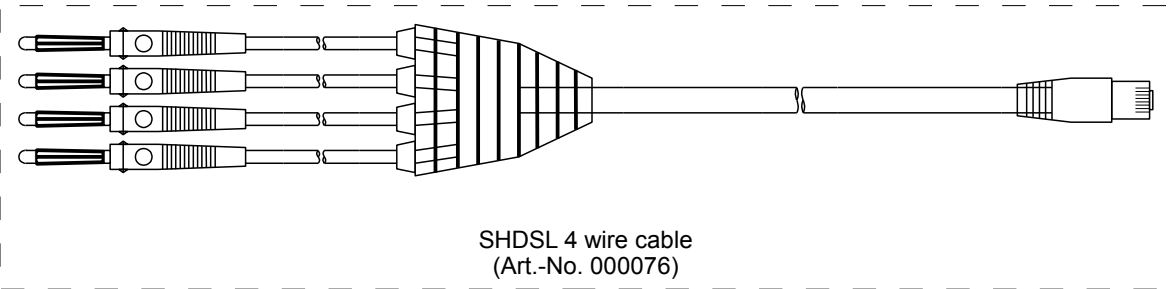
Test leads and pin assignments

SHDSL, Ethernet

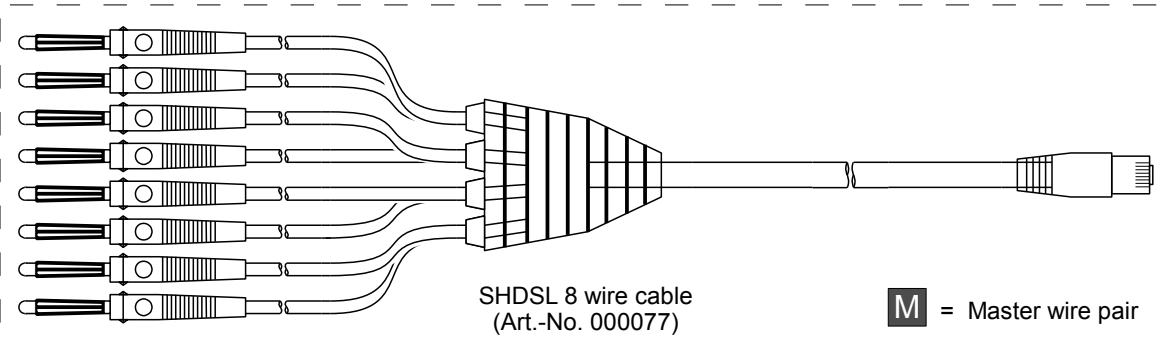
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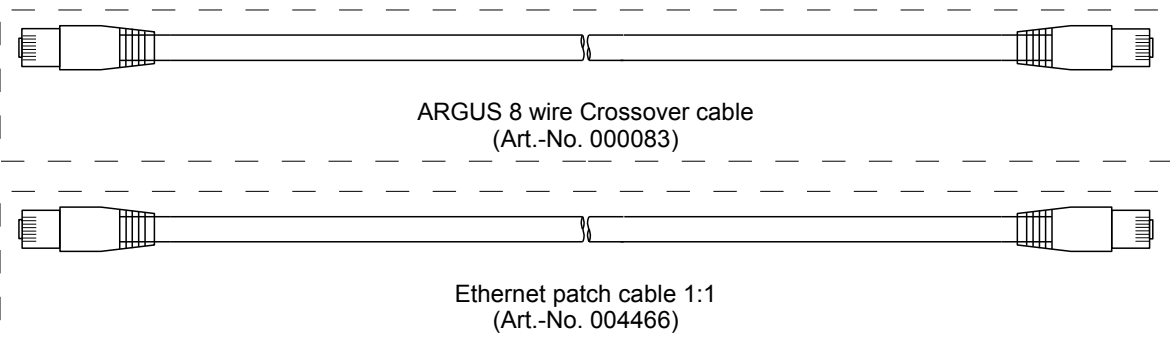
SHDSL 2 / 4 wire



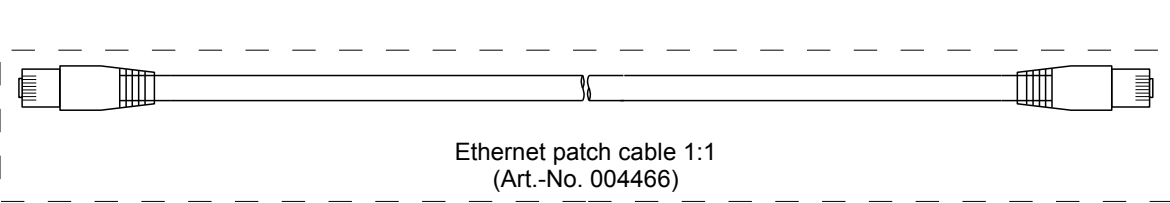
SHDSL 2 / 4 / 6 / 8 wire



SHDSL 8 wire



Ethernet

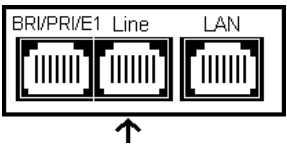


Ban.	RJ45
rd (L2)	3
rd (L1)	4
blk (L1)	5
blk (L2)	6

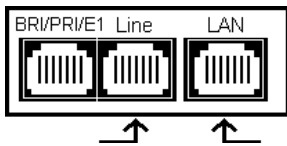
Ban.	Line	RJ45
M rd	Pin 4	4/5
M blk	Pin 5	
rd	Pin 3	3/6
blk	Pin 6	
rd	Pin 1	1/2
blk	Pin 2	
rd	Pin 7	7/8
blk	Pin 8	

Line	RJ45	RJ45
1	1/2	4/5
2	4/5	1/2
3	3/6	3/6
4	7/8	7/8

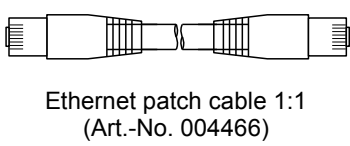
RJ45	RJ45
1-8	1-8



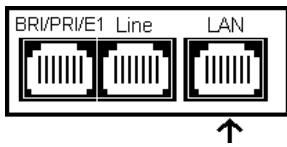
SHDSL 2 / 4 / 6 / 8 wire – Bridge / Router



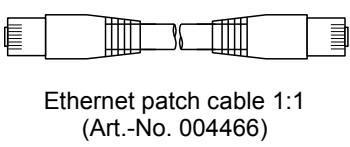
RJ45	RJ45
1-8	1-8



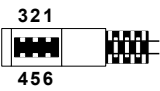
RJ45	RJ45
1-8	1-8



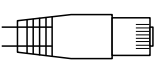
RJ45	RJ45
1-8	1-8



TAE



RJ45



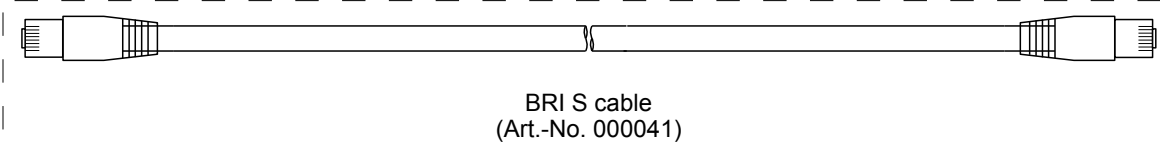
Test leads and pin assignments

BRI S, BRI U, PRI, POTS

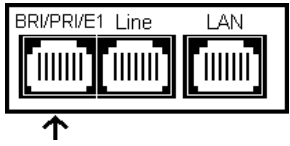
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RC measurement	7
Line scope DMT analysis TDR	35
ETH cable tests	28
Others	page
Legend	3
Protocol-overview	
Hotkeys	4
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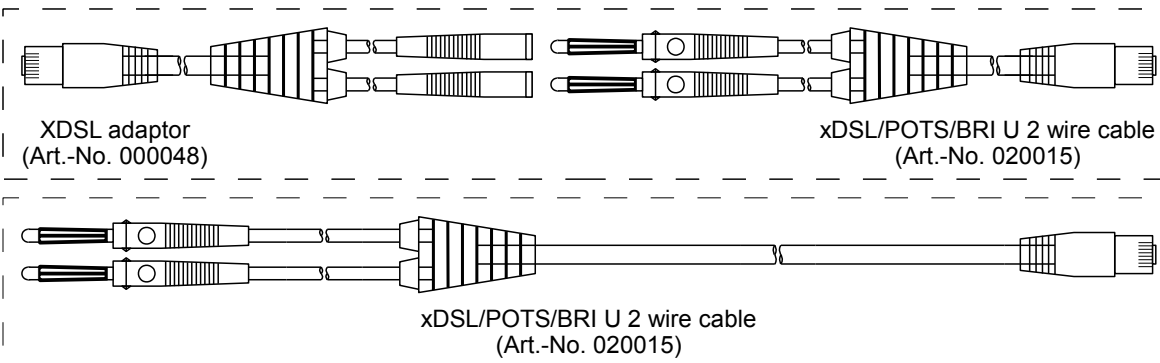
BRI S



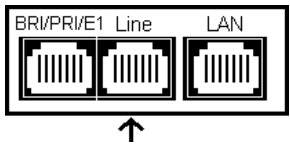
RJ45	RJ45
3/6	3/6
4/5	4/5



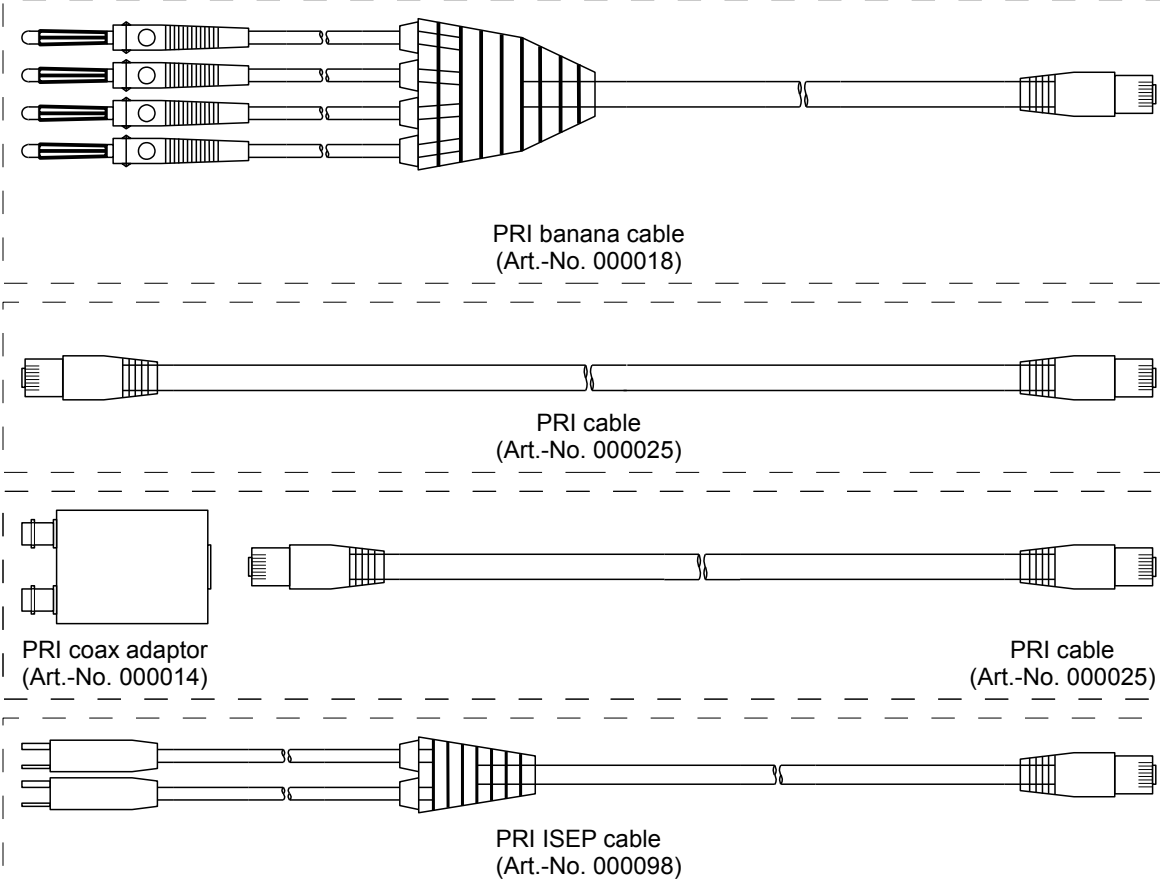
BRI U / POTS



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



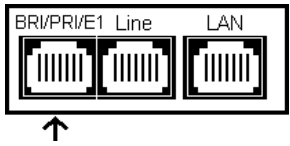
PRI



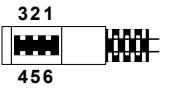
Ban.	RJ45
rd 1	8
rd 2	1
blk 1	7
blk 2	2
RJ45	RJ45
1/2	1/8
4/5	2/7

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

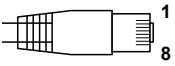
ISEP	RJ45
1/2	1/8
4/5	2/7



TAE



RJ45





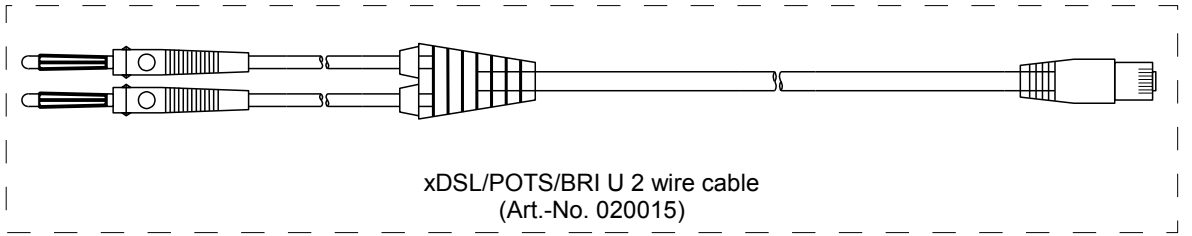
Test leads and pin assignments

Copper tests

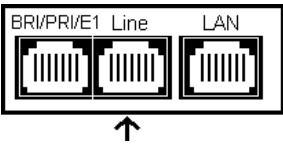
**Cross reference:**

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VoIP call / wait	26
<b>ISDN tests</b>	<b>page</b>
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<b>Others</b>	<b>page</b>
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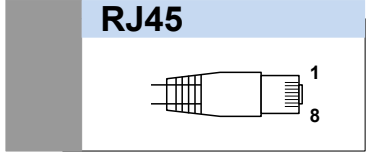
Copper tests: R measurement / RC measurement / Line scope / DMT analysis / TDR



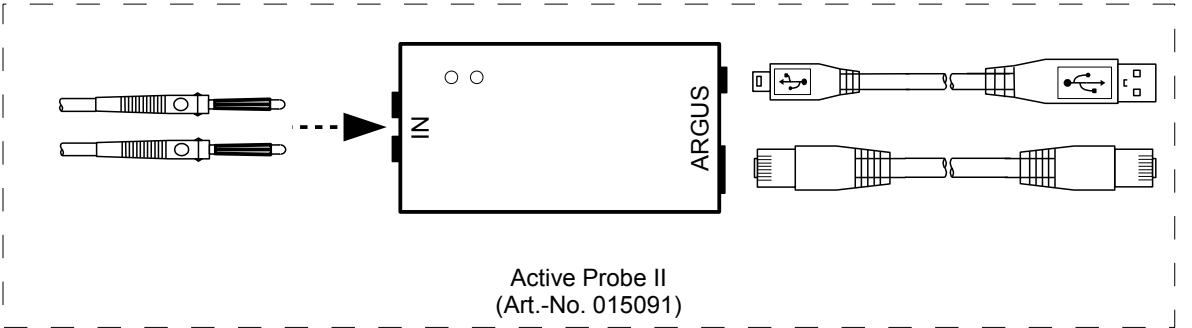
Ban.	RJ45
rd	4
blk	5



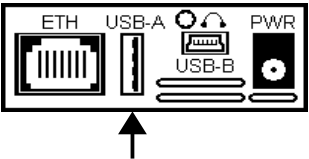
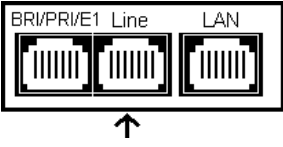
The copper tests are performed using pin 4/5 of the line interface. Alternatively, the test can be carried out with every other test leads that is using pin 4/5.



Copper tests: Line scope / DMT analysis



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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