

The Aginet logo is located in the top left corner of the slide. It features a stylized white 'A' icon followed by the word 'Aginet' in a white sans-serif font, all set against a blue background that is part of a large, abstract geometric shape on the left side of the slide.

# Centralizovaná správa CPE

**Marek Vyklický**  
**B2B Channel Manager**

Sítě FTTx v roce 2023  
9.3.2023 Brno

S kým se dnes potkáte?



**Marek Vyklický**  
B2B Channel  
Manager



**Karel Simon**  
ISP Channel Sales  
Manager



**Michal Frýdl**  
Technical Support  
Engineer

A-ISP a SMB program:  
[www.tplinkpartner.cz](http://www.tplinkpartner.cz)



**„Ať si zákazník koupí, co chce, nás to nezajímá“**  
Pepa, Horní Dolní Net

**„Potřebuji co nejlevnější router“**  
Karel, Super Net

# Aginet



**Aginet Config**  
Defaultní  
konfigurace



**Aginet ACS**  
Auto Configuration  
Server



**Aginet app**  
Mobilní  
aplikace



**TAUC**  
TP-Link Aginet  
Unified Cloud

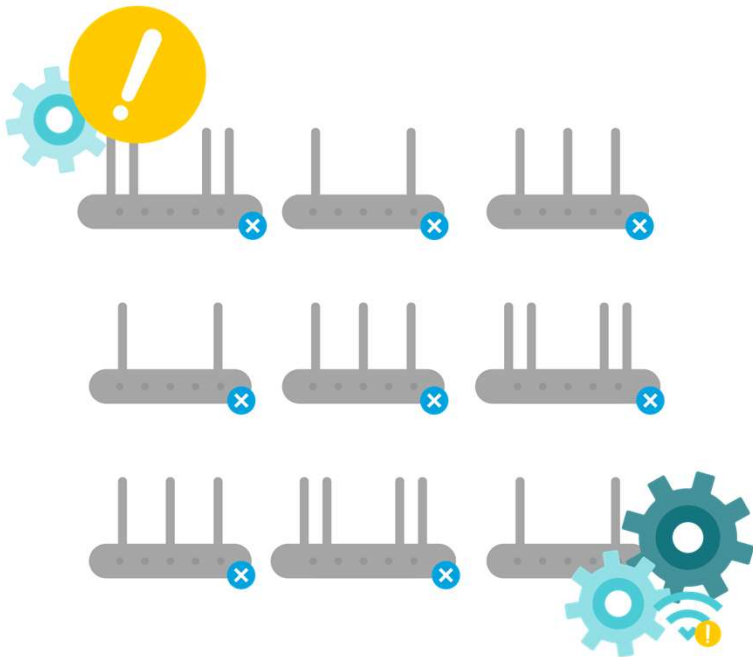
# Aginet Config



Aginet  
Config



## Bolestivá místa ISP



- Zařízení musí být konfigurována individuálně
- Resetování zařízení vymaže výchozí konfiguraci ISP
- ISP musí poskytovat nákladné poprodejní služby
- Je obtížné upgradovat všechna zařízení na nejnovější FW najednou

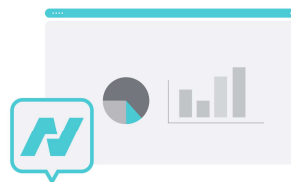
# Aginet Config



**Krok 1**  
Připravte si  
počítač a switch



**Krok 2**  
Stáhněte si a  
nainstalujte Aginet  
Config software



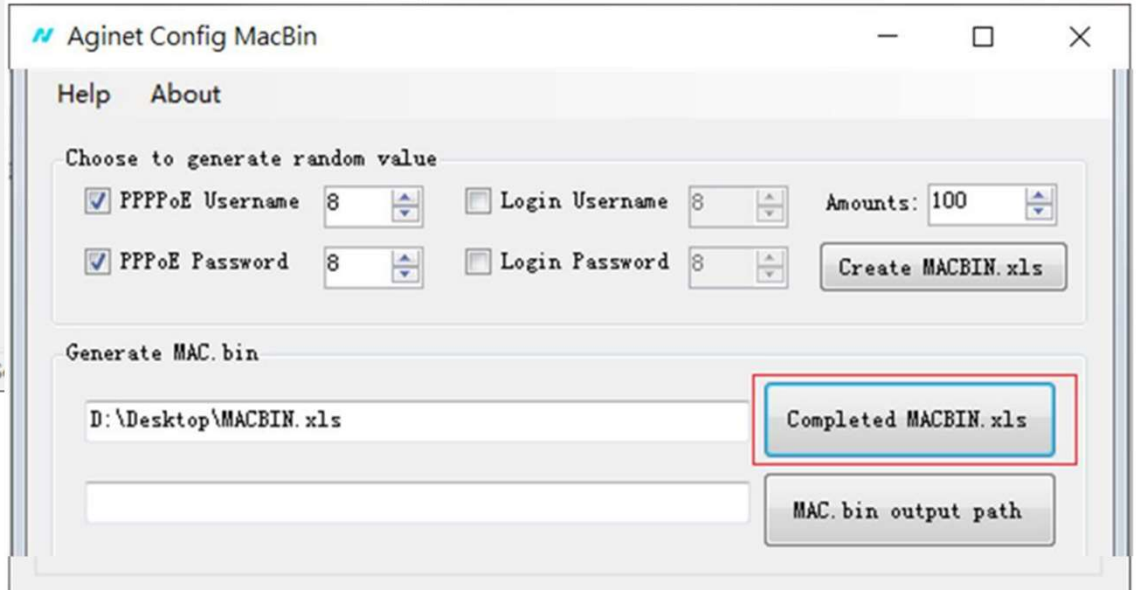
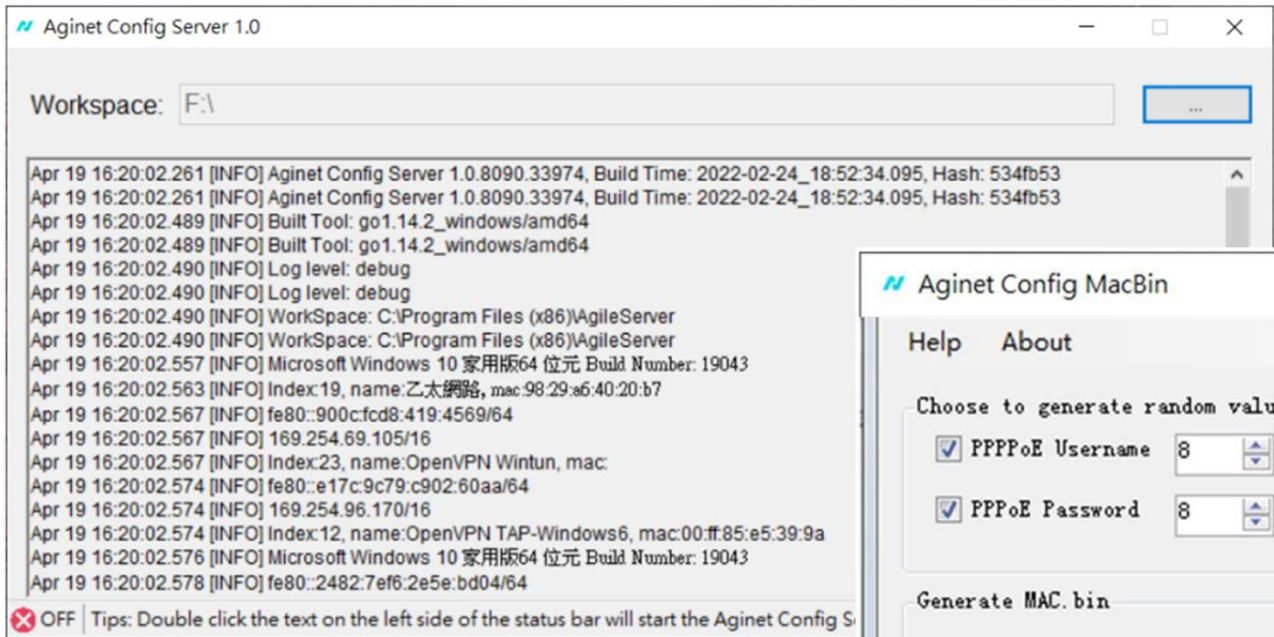
**Krok 3**  
Vygeneruje  
konfigurační soubory  
s ISP přizpůsobeným  
nastavením



**Krok 4**  
Naimportujte  
konfigurační soubory a  
proved'te automatický  
hromadný upgrade



# Aginet Config Server & Aginet Config MacBin



# General Config

The screenshot shows the TP-Link web interface with the 'Advanced' tab selected. The left sidebar is highlighted with a red box, showing the 'Wireless' menu item selected. The main content area shows the 'Wireless Settings' page with the following fields:

- Enable Wireless Radio:
- Network Name (SSID):   Hide SSID
- Security:
- Version:  Auto  WPA2-PSK
- Encryption:  Auto  TKIP  AES
- Password:
- Mode:
- Channel:
- Channel Width:
- Transmit Power:  Low  Middle  High

A 'Save' button is located at the bottom right of the settings area.

The screenshot shows the TP-Link web interface with the 'Advanced' tab selected. The left sidebar is highlighted with a red box, showing the 'System Tools' menu item selected. The main content area shows the 'Backup & Restore' section with the following options:

- Backup: Save a copy of your current settings.
- Restore: Restore previous settings from a saved file.
- Factory Default Restore: Restore all the configuration settings to their default values.

## Další přizpůsobení

### Unikátní SSID:

- MAC adresa: 8D6C7298D0A
- SSID: WISP\_XXXX\_2G
- Nové SSID: SSID: WISP\_8D0A\_2G

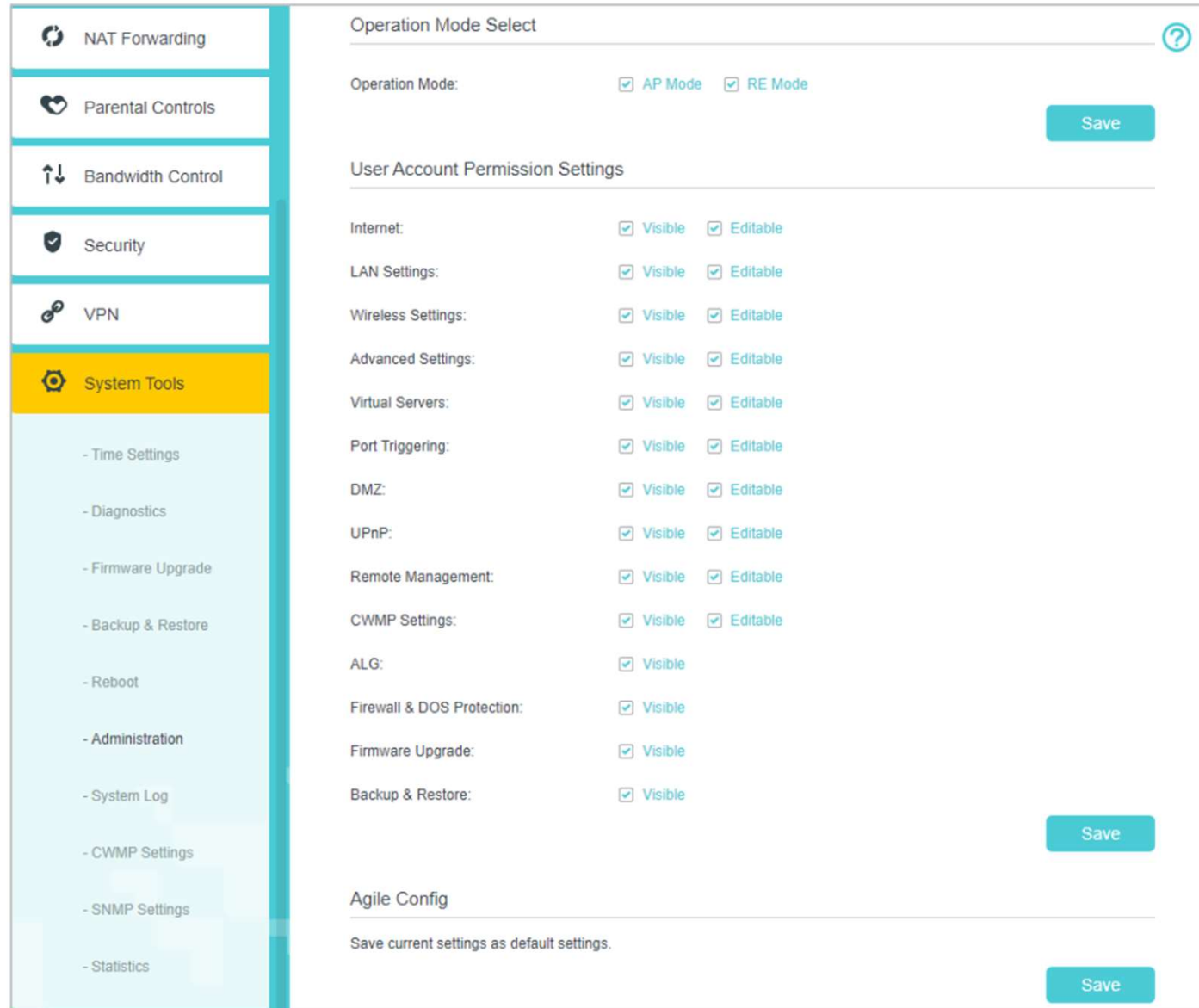
### Unikátní WiFi heslo:

“?undefined?” → PIN



# Superadmin

192.168.1.1/superadmin



The screenshot displays the Superadmin web interface. On the left is a vertical navigation menu with the following items: NAT Forwarding, Parental Controls, Bandwidth Control, Security, VPN, System Tools (highlighted in yellow), Time Settings, Diagnostics, Firmware Upgrade, Backup & Restore, Reboot, Administration, System Log, CWMP Settings, SNMP Settings, and Statistics. The main content area shows the 'Operation Mode Select' settings page. It includes a 'Save' button at the top right. Below is the 'User Account Permission Settings' section, which lists various system settings with checkboxes for 'Visible' and 'Editable'. The settings listed are: Internet (Visible, Editable), LAN Settings (Visible, Editable), Wireless Settings (Visible, Editable), Advanced Settings (Visible, Editable), Virtual Servers (Visible, Editable), Port Triggering (Visible, Editable), DMZ (Visible, Editable), UPnP (Visible, Editable), Remote Management (Visible, Editable), CWMP Settings (Visible, Editable), ALG (Visible), Firewall & DOS Protection (Visible), Firmware Upgrade (Visible), and Backup & Restore (Visible). A 'Save' button is located at the bottom right of this section. At the very bottom of the page is the 'Agile Config' section, which contains the text 'Save current settings as default settings.' and a 'Save' button.

**System Tools**

- Time Settings
- Diagnostics
- Firmware Upgrade
- Backup & Restore
- Reboot
- Administration
- System Log
- CWMP Settings
- SNMP Settings
- Statistics

**Operation Mode Select**

Operation Mode:  AP Mode  RE Mode Save

**User Account Permission Settings**

Internet:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
LAN Settings:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
Wireless Settings:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
Advanced Settings:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
Virtual Servers:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
Port Triggering:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
DMZ:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
UPnP:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
Remote Management:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
CWMP Settings:	<input checked="" type="checkbox"/> Visible	<input checked="" type="checkbox"/> Editable
ALG:	<input checked="" type="checkbox"/> Visible	
Firewall & DOS Protection:	<input checked="" type="checkbox"/> Visible	
Firmware Upgrade:	<input checked="" type="checkbox"/> Visible	
Backup & Restore:	<input checked="" type="checkbox"/> Visible	

Save

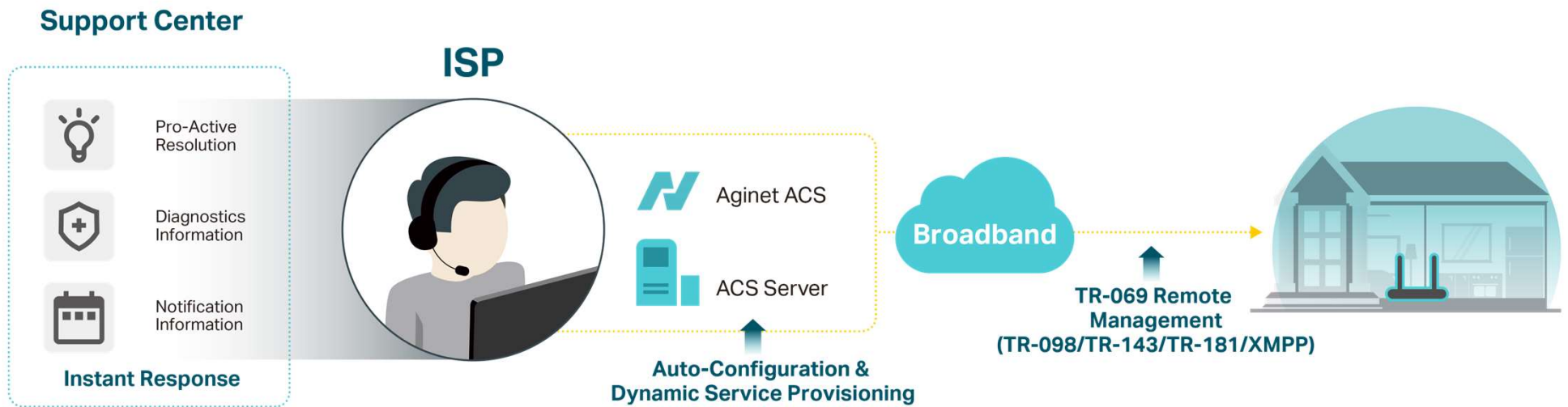
**Agile Config**

Save current settings as default settings. Save

A man with a beard, wearing a dark blue long-sleeved shirt and a brown cap, is seen from the side, working on a laptop. He is in a server room, with several racks of server equipment visible in the background. The room is dimly lit, with a blueish tint. The text "Aginet ACS" is overlaid on the left side of the image.

**Aginet ACS**

# Aginet ACS



## Funkce Aginet ACS



Správa až  
100K CPE



Podpora  
TR-181



Wi-Fi 6  
konfigurace



Management  
zařízení za NAT



Zobrazení  
sousedních AP



Vzdálený  
dávkový  
upgrade FW



Účty s více  
rolemi



Měření  
výkonu



# Vyhledání / filtrování CPE

## Devices List

### Filters

Serial number =   Case insensitive

- Serial number
- Model
- Home ID
- Zone ID
- Cell phone
- CPF
- MAC
- IP
- PPPoE UserName
- Software version
- Hardware version
- Last Inform

	Product class	Model	Home ID	Zone ID	Cell phone	CPF	MAC	IP	PPPoE UserName	Software version	Hardware version	XMPP Cap.	Last inform ▲	
<input type="checkbox"/>	5	EC225-G5	EC225-G5	blank	220621	blank	blank	34:60:F9:B9:8A:58	192.168.86.173	blank	1.12.0 Build 220621 Rel.75276n(4555)	EC225-G5 1.0	yes	● 4 minutes ago
<input type="checkbox"/>		Device	EC230-G1	blank	blank	blank	blank	3C:84:6A:70:EB:DB	192.168.86.171	blank	2.0.0 0.9 v6034.0 Build 221206 Rel.8036n	EC230-G1 v1 ...	yes	● 5 minutes ago
<input type="checkbox"/>	4	EC225-G5	EC225-G5	blank	blank	blank	blank	34:60:F9:B9:8D:07	192.168.86.164	blank	1.13.0 Build 220926 Rel.76907n(4555)	EC225-G5 1.0	yes	● about 1 hour ago
<input type="checkbox"/>		Archer C6	Archer C6	blank	blank	blank	blank	34:60:F9:AC:94:68	192.168.86.168	blank	1.11.0 Build 220425 Rel.61837n(4555)	Archer C6 4.0	no	● about 6 hours ago
<input type="checkbox"/>		Device	EC230-G1	blank	210924	blank	blank	3C:84:6A:70:D5:A6	192.168.86.170	blank	2.0.0 0.9 v6034.0 Build 210924 Rel.31505n	EC230-G1 v1 ...	yes	● 21 days ago
<input type="checkbox"/>		Device2	HX220	blank	blank	blank	blank	34:60:F9:4E:9D:BC	192.168.0.2	blank	0.12.0 2.0.0 v605f.0 Build 220710 Rel.13422n	HX220 v1.0 0...	yes	● about 1 month ago
<input type="checkbox"/>		H30G	H30G	blank	blank	blank	blank	C0:25:2F:C6:AC:80	192.168.86.151	blank	1.0.13 Build 20221008 Rel. 64520	1.0	yes	● 3 months ago
<input type="checkbox"/>		Archer C80	Archer C80	blank	blank	blank	blank	1C:3B:F3:BA:44:EF	192.168.89.121	blank	1.11.0 Build 220425 Rel.43193n(4555)	Archer C80 1.0	no	● 4 months ago
<input type="checkbox"/>		IGD	Archer C20	blank	blank	blank	blank	D8:0D:17:CA:E3:80	192.168.89.120	blank	0.9.1 4.17 v0001.0 Build 201214 Rel.42010n(4555)	Archer C20 v5...	no	● 4 months ago



# Konfigurace CPE

Device: 3460F9-EC225%2DG5-22260H5004625

Last inform: 2 minutes ago — Refresh, Ping

## Task queue

Task	Time	Fault code	Fault message	Fault detail	Retries
getParameterValues	2023-03-03T18:04:43.324Z				

INFO LAN WAN **WIRELESS** TR TREE DIAGNOSTICS ACTIONS

[Edit list](#) [Refresh](#)

Save

Primary SSID  Multi-SSID

Band :

Wireless Radio :  Enable  Disable

Network Name (SSID) :

Security :

Version :  Auto  WPA2-PSK  WPA3-SAE

Encryption :  Auto  TKIP  AES

Password :

Mode :

Channel :  (Current Channel:2)

Channel Width :  (Current Width:Auto)

Transmit Power :  Low  Middle  High

(Signal detection may cause Wi-Fi disconnection)

Scanning status : <Empty>

Total amount of neighboring Wi-Fi networks :

# Wi-Fi scan

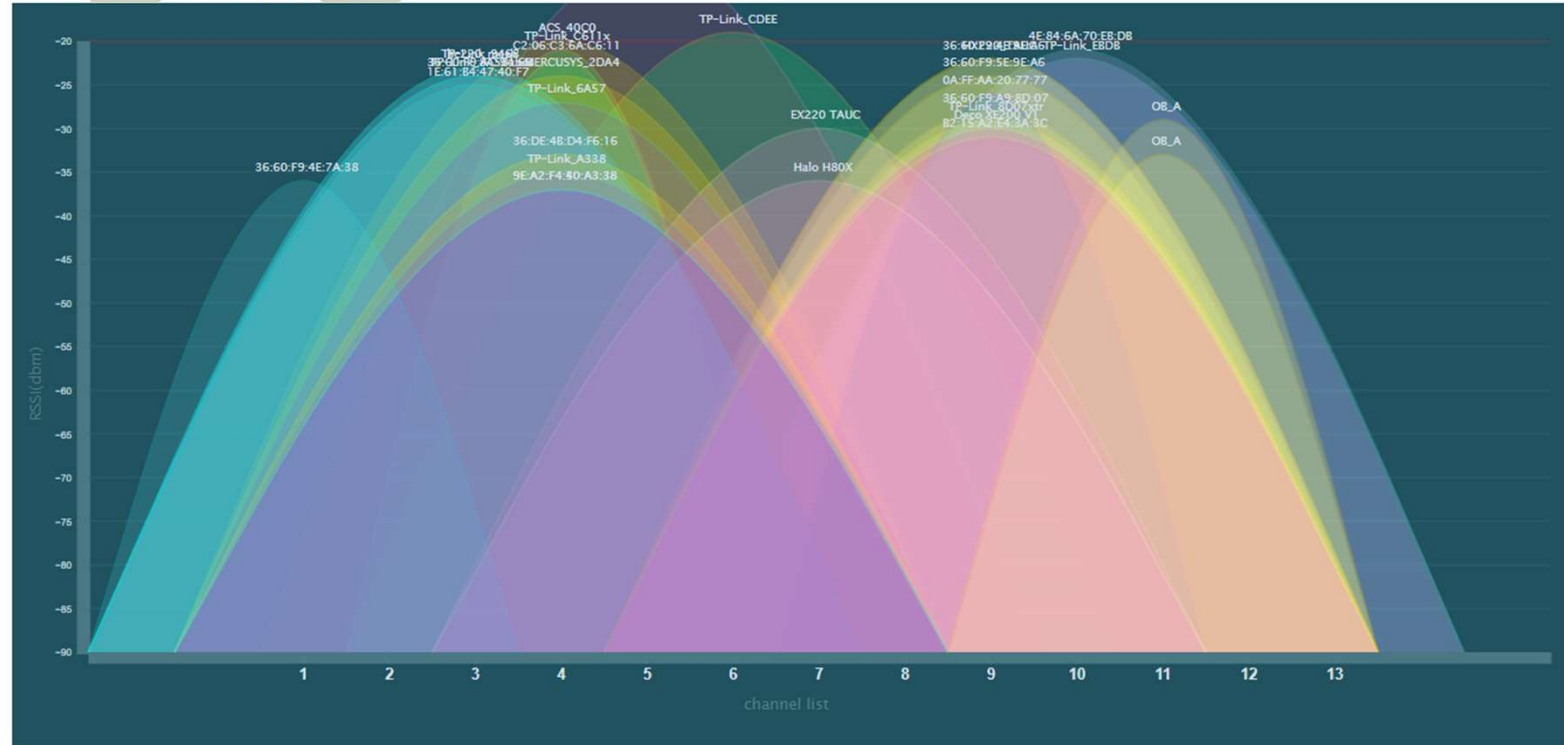
Scan (Signal detection may cause Wi-Fi disconnection)

Scanning status : Completed Successfully

Total amount of neighboring Wi-Fi networks : 93

[Show Results](#)

Select Band: 2.4GHz Display Stronger Than: -90 dbm



Show 10 entries

Search:

ID	Band	SSID	BSSID	Signal Strength(dBm)	Channel	Bandwidth	Security Mode	Encryption Method
1	2.4GHz	TP-Link_4080	CC:32:E5:21:40:80	-11	3	40MHz	WPA2	AES
2	2.4GHz	TP-Link_99DC_xtr	34:60:F9:89:99:DC	-14	8	40MHz	WPA2	AES
3	2.4GHz	TP-Link_CDEE	AC:84:C6:52:CD:EE	-19	4	40MHz	WPA2	AES
4	2.4GHz	ACS_40C0	CC:32:E5:21:40:C0	-20	2	40MHz	WPA2	AES

# TR strom

Device: 3460F9-EC225%2DG5-22260H5004625

Last inform: 3 minutes ago — Refresh, Ping

## Task queue

Task	Time	Fault code	Fault message	Fault detail	Retries
getParameterValues	2023-03-03T18:04:43.324Z	8805	Session timeout		0

INFO LAN WAN WIRELESS **TR TREE** DIAGNOSTICS ACTIONS

ssid

Device.X_TP_MESH_WIFI.PrimarySSID TP-Link_8A58	Edit	Refresh
Device.WiFi.Radio.1.MaxSupportedSSIDs 2		
Device.WiFi.Radio.2.MaxSupportedSSIDs 2		
Device.WiFi.SSID		
Device.WiFi.SSID.1		
Device.WiFi.SSID.1.Upstream false		
Device.WiFi.SSID.1.SSID TP-Link_8A58abcs		
Device.WiFi.SSID.1.BSSID 34:60:F9:B9:8A:58		
Device.WiFi.SSID.1.LowerLayers Device.WiFi.Radio.1.		
Device.WiFi.SSID.1.Status Up		
Device.WiFi.SSID.1.Enable true		
Device.WiFi.SSID.2		
Device.WiFi.SSID.2.Upstream false		
Device.WiFi.SSID.2.SSID TP-Link_Guest_8A58		
Device.WiFi.SSID.2.BSSID 34:60:F9:B9:8A:58		
Device.WiFi.SSID.2.LowerLayers Device.WiFi.Radio.1.		
Device.WiFi.SSID.2.Status Down		
Device.WiFi.SSID.2.Enable false		
Device.WiFi.SSID.3		
Device.WiFi.SSID.3.BSSID 34:60:F9:B9:8A:5A		
Device.WiFi.SSID.3.Upstream false		

# Měření rychlosti

Device: CC32E5-Device-CC32E5974F9A

Last inform: ● less than 5 seconds ago — Refresh, Ping

## Task queue

Task	Time	Fault code	Fault message	Fault detail	Retries
------	------	------------	---------------	--------------	---------

Empty

INFO

LAN

WAN

WIRELESS

TR TREE

DIAGNOSTICS

ACTIONS

## Diagnostics

Download Test ▾

### Download Test

WAN Interface: Default Route ▾

Download URL:  From Agile ACS  URL

HTTP ▾ 100MB ▾

▼ Advanced

Test

### Download Test Results (Completed)

Speed: 20.65 Mbps

Request Time: 2023-03-03T17:21:14.211Z

Begin of Transmission Time: 2023-03-03T17:21:14.212Z

End of Transmission Time: 2023-03-03T17:21:55.107Z

Received Test Bytes: 104857842

Received Total Bytes: 110711193

Request Time: 2023-03-03T17:21:14.210Z

Response Time: 2023-03-03T17:21:14.211Z

# Konfigurace profilů a upgrade FW

## New profile

Name

Application  
Firmware Upgrade   
Configure File Download  
Firmware Upgrade   
PPPoE  
Periodic Inform Interval

Serial number  =

Firmware File

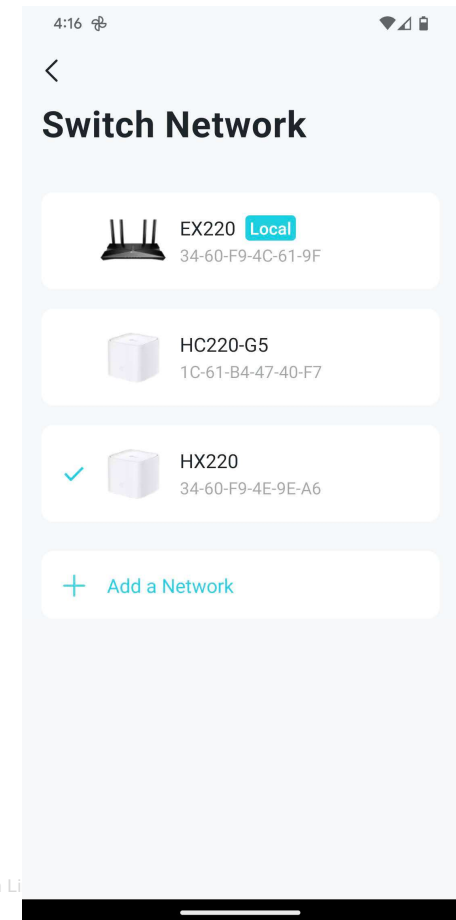
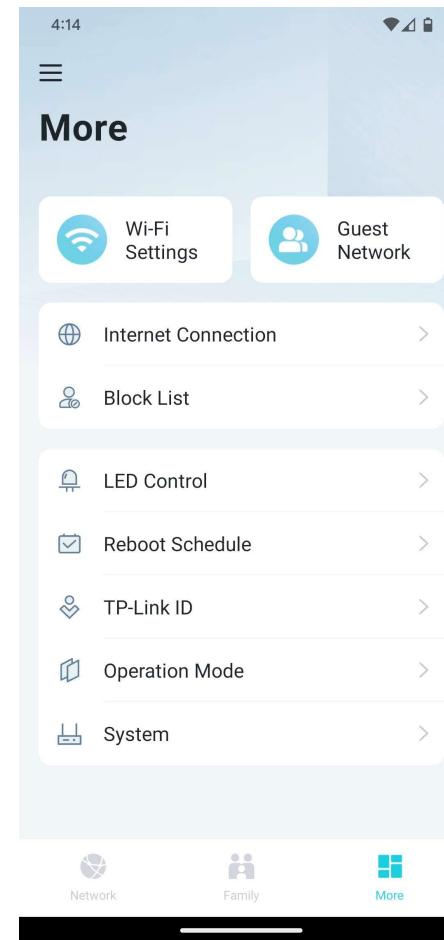
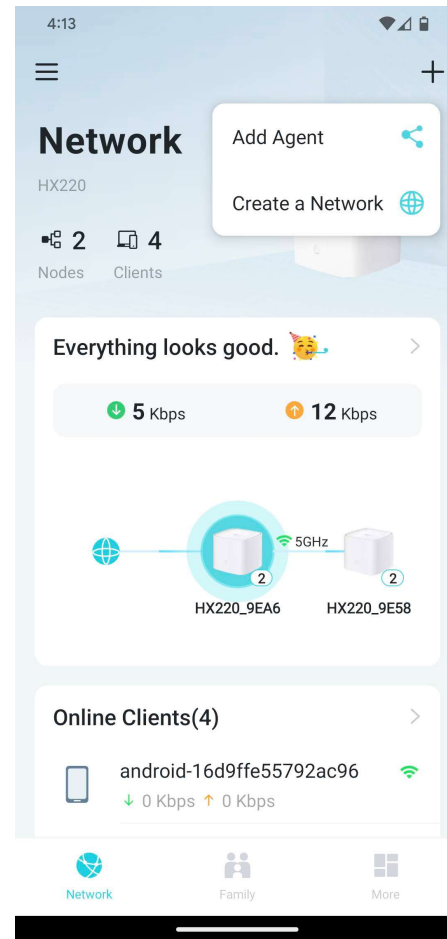
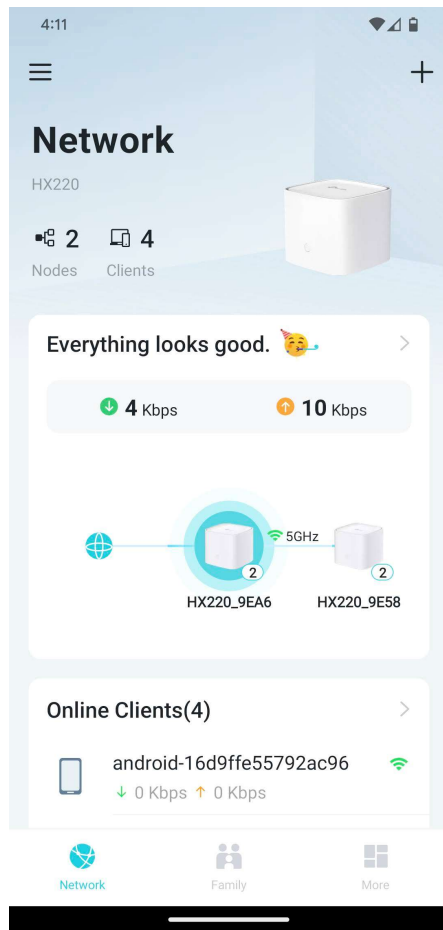
Trigger Interval

[Back](#)



## Aginet App

# Mobilní aplikace Aginet





## Dnešní domácí Wi-Fi sítě



# Smart Home



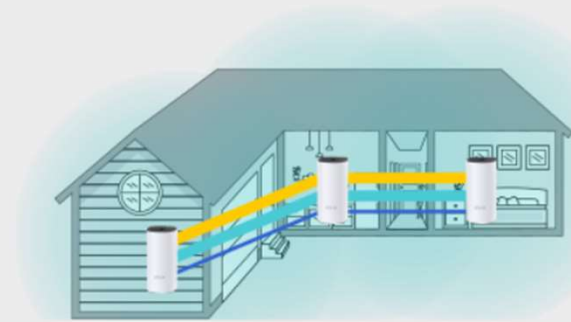
# Wi-Fi Mesh



Ranch-Style Home



Multi-Story Home



L-Shaped Home

— 2.4 GHz wireless connection

— 5 GHz wireless connection

— Optional Gigabit Ethernet Backhaul



Surfování na webu



4K streamování



Chytrá domácí zařízení



8K streamování



Telefony a tablety



Vysílání IP kamer



Hraní her



Vysokorychlostní  
stahování

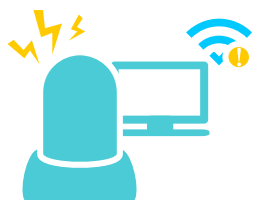


1080p streamování

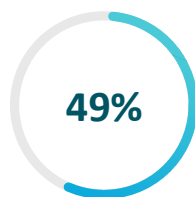
## Bolestivá místa ISP

### Uživatelé mění ISP kvůli špatné zkušenosti s Wi-Fi

Pomalá/nestabilní Wi-Fi



- Pomalá / Nestabilní Wi-Fi
- Problémy s připojením k Wi-Fi

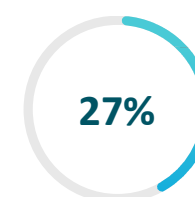


### ISP platí vyšší OPEX provozní náklady bez správných diagnostických nástrojů

Potřeba techniků pro výjezdy / podporu v místě zákazníka



- Diagnostické nástroje

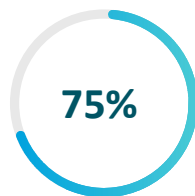


### Uživatelé očekávají, že ISP vyřeší všechny potíže s Wi-Fi

Chybějící platforma pro správu Wi-Fi s pokročilými diagnostickými nástroji



- Potíže s Wi-Fi pokrytím
- Potíže s Wi-Fi klientem

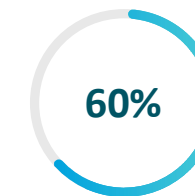


### ISP platí vyšší OPEX provozní náklady bez patřičných poznatků

Potřeba zákaznického teamu pro vzdálenou podporu



- Čas jsou peníze



**„My to chceme řešit,  
ale nevíme jak na to“**

Jiří, Top Internet

**„My bychom to řešili,  
ale zákazník nám to nezaplatí“**

Vilém, Peče Housky Net

**„My to řešíme jako placený výjezd“**

Alexandr, Veliký Internet CZ

# TR-369 User Services Platform

TR-369 VS TR-069	TR-369 USP	TR-069 CWMP
<b>First Released</b>	2019	2004
<b>Management Scope</b>	Managing a Connected Home	Single Device Management
<b>Target Applications</b>	Mesh Management, Managed Wi-Fi, etc.	Remote Device Management
<b>Message Protocol</b>	MQTT, WebSockets, Stomp	HTTP
<b>Data Encoding</b>	Google Protocol Buffers (binary wire format) Significant Performance Improvement	XMPP
<b>Communications</b>	Anytime Bi-Directional Communications	Short-lived Sessions Triggered by External Events
<b>Efficient Management</b>	Direct CPE Fast Management	Via Connection Request and Complicated Procedures under NAT Traversal Support
<b>Bulk Statistics Collection</b>	Gather the Telemetry Necessary for Mass Data Processing Services	Not Available



# Klíčové funkce TAUC



## Use of Industry Standards



## Unified Cloud Management



## Zero-Touch Deployment



## Near Real-Time Troubleshooting



## Agile Task



Cloud to CPE



CAF Performance Measures Testing



Schedule Execution



## Open API Integration







## Top ISP produkty Aginet



**EC225-G5**



**HC220-G5**



**EX220**



**HX220**

# Quality of Experience



Obrázek zdroj: Axiros

**Děkuji.**

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