



Novidades CPS v3 - HP5

INOVANDO Por Um Mundo Mais Seguro





Agenda

- Revisão do Firmware v3
- CPS V3 – HP5

INOVANDO Por Um Mundo Mais Seguro



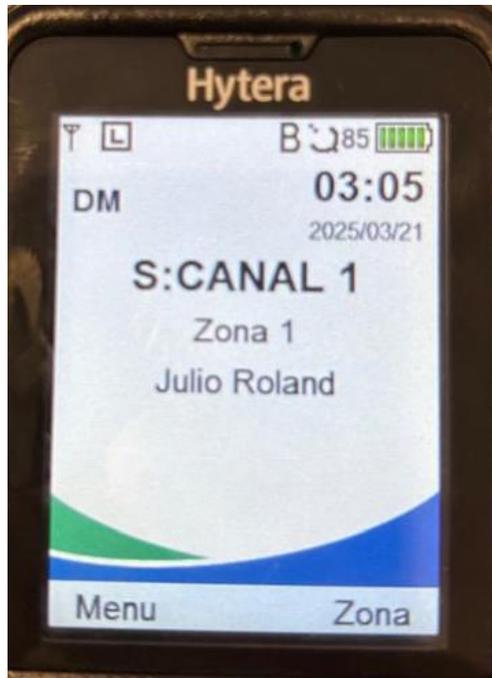


Revisão do Firmware V3

INOVANDO Por Um Mundo Mais Seguro



Display



HP786

LCD:

- Adicionar exibição de alias de rádio
- Exibição de data e hora
- Quando em roaming, a segunda linha exibe o contato
- Exibir **S** antes das informações do canal quando o canal estiver na lista de scan



HP606/HP706 antigo



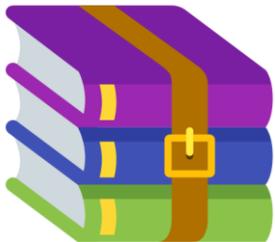
Novo

OLED:

- Mais informações exibidas: alias de canal (até 14 letras)

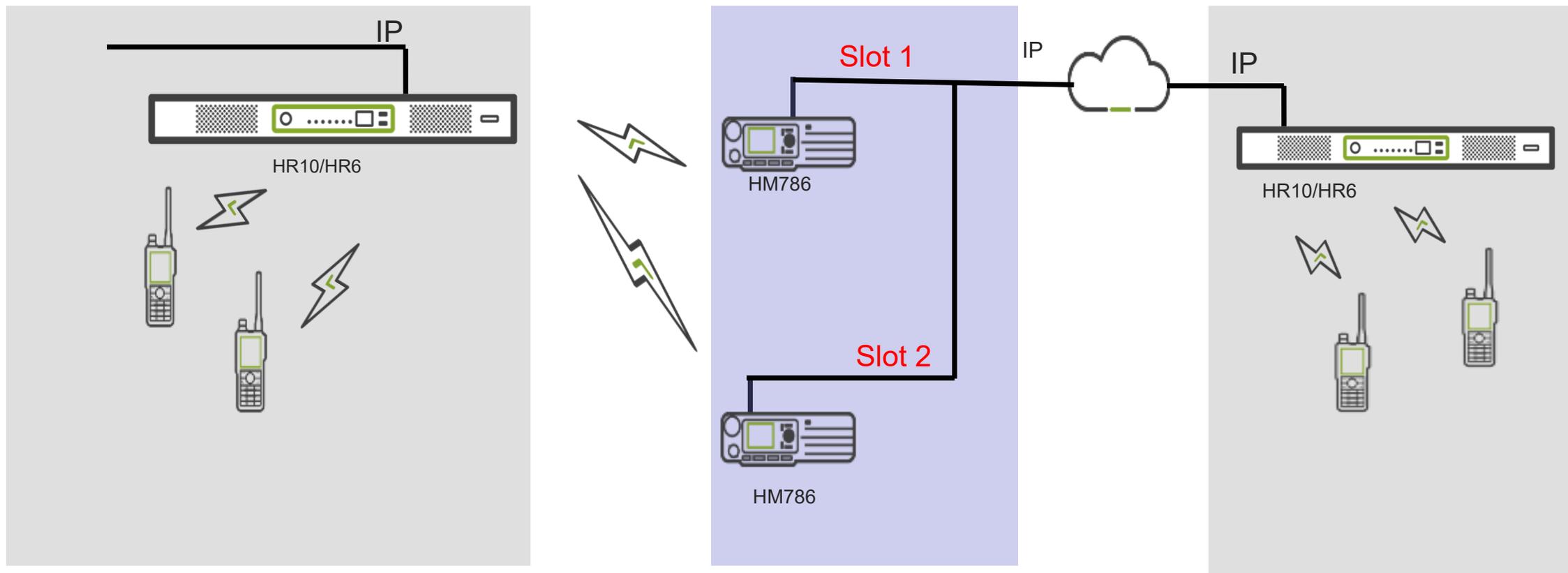


- Compatibilidade com a linha legado: PD5,PD7,PD9,X1,MD7 e RD986
- Aprimoramento do Driver para Windows 11
- Gravar rádios com banda de frequência diferentes do mesmo modelo
- Compatibilidade do Template, modelos de versão inferior podem ser gravados em terminais de versão superior.



- USB_Driver_V5_38_20_0

Conexão IP do Repetidor com o Móvel



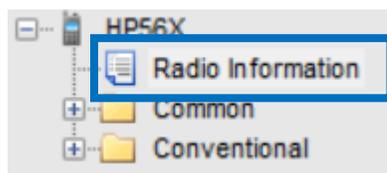


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V2

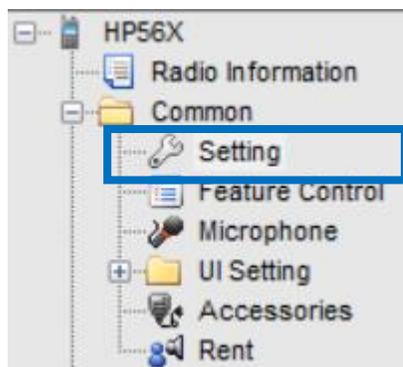


Serial Number	23403A0431
Model Name	HP56X
Model Number	HP566-000G0000-N000DC-U1-0-C
Model Type	Portable
Frequency Range [MHz]	400-470
Signaling Type	HDC1200/2-Tone
Radio Data Version	D2.6.05.007
Firmware Version	A2.6.08.009

V3

Serial Number	23403A0431
Model Name	HP56X
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Model Type	Portable
Frequency Range [MHz]	400-470
Signaling Type	HDC1200/2-Tone
Radio Data Version	D3.1.05.010
Firmware Version	V3.0.01.001

V2



Basic

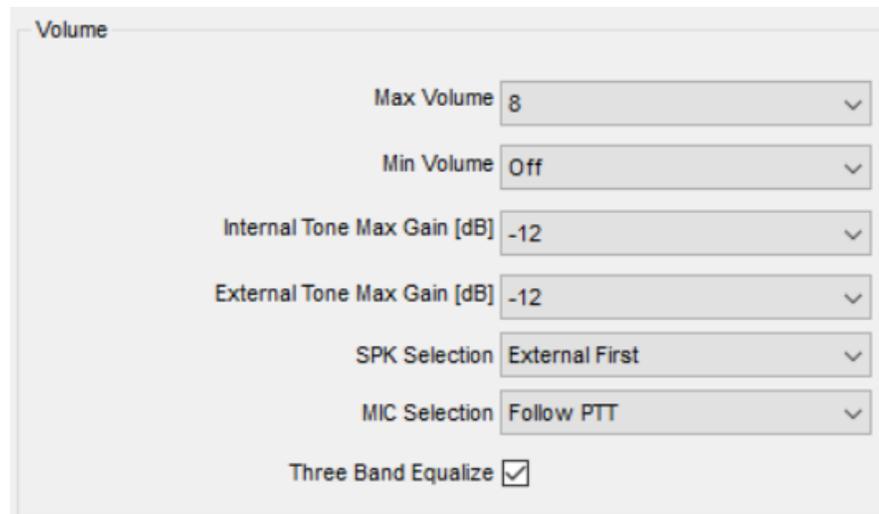
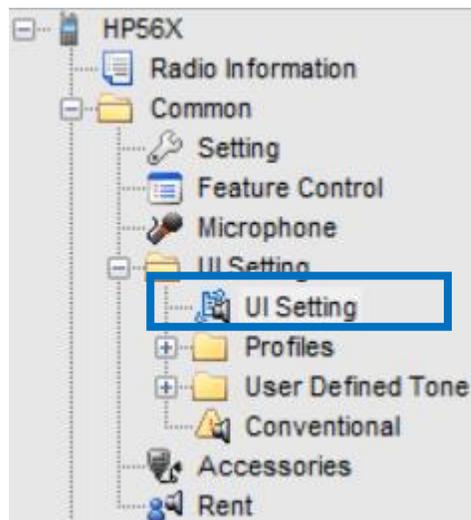
Radio Alias	My Radio
Squelch Open Level	0
Squelch Normal Level	3
Squelch Tight Level	9
Language	Portuguese
CTCSS/CDCSS Deviation(25KHz)[Hz]	700
CTCSS/CDCSS Deviation(20KHz)[Hz]	550
CTCSS/CDCSS Deviation(12.5KHz)[Hz]	400
Time Zone	GMT+8:00
Engineering Mode Disable	<input type="checkbox"/>
Vocoder Type	AMBE
Profiles	General
Auto Power On	<input checked="" type="checkbox"/>

V3

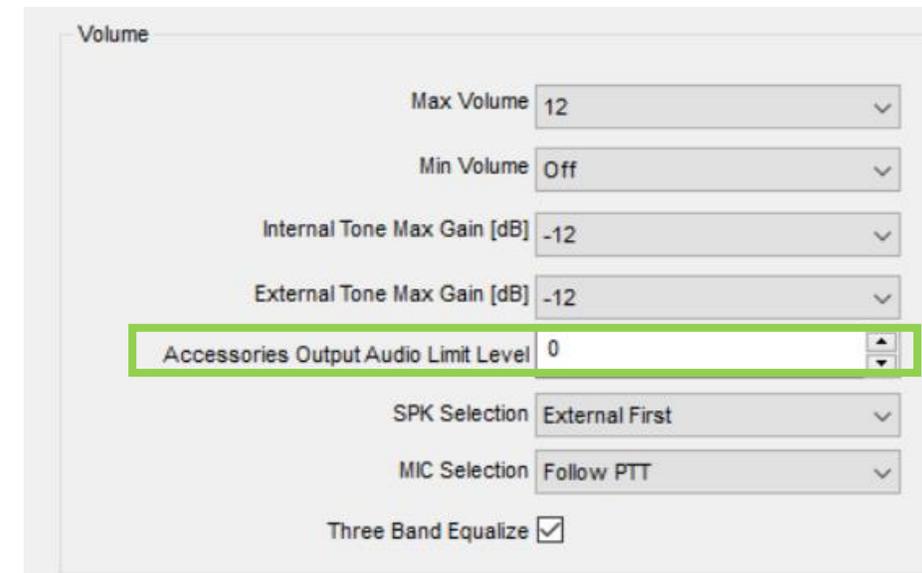
Basic

Radio Alias	My Radio
Squelch Open Level	0
Squelch Normal Level	3
Squelch Tight Level	9
Language	Portuguese
Channel/Group Notify Language	English
Vocoder Select	Standard
CTCSS/CDCSS Deviation(25KHz)[Hz]	700
CTCSS/CDCSS Deviation(20KHz)[Hz]	550
CTCSS/CDCSS Deviation(12.5KHz)[Hz]	400
Time Zone	GMT+8:00
Engineering Mode Disable	<input type="checkbox"/>
Vocoder Type	AMBE
Profiles	General
Battery Capacity Display	<input type="checkbox"/>
Over Temperature Power Off	<input type="checkbox"/>

V2



V3



V2

Profiles Alias: General

Audio Mode: Level 1

Digital Mic AGC:

Analog Mic AGC:

Internal Mic Gain [dB]: 20.0

External Mic Gain [dB]: 20.0

AGC Dynamic Range Min Value: -14

AGC Dynamic Range Max Value: 14

Noise Cancellation:

Analog Rx Noise Suppression:

Noise Cancellation Level: 7

Low Frequency Gain(dB): 0.0

Mid Frequency Gain(dB): 0.0

High Frequency Gain(dB): 0.0

All Tones: Enable

Tone Volume: Default

V3

Profiles Alias: General

Audio Mode: Level 1

Digital Mic AGC:

Analog Mic AGC:

Audio Feedback Suppressors:

Internal Mic Gain [dB]: 20.0

External Mic Gain [dB]: 20.0

AGC Dynamic Range Min Value: -14

AGC Dynamic Range Max Value: 14

Noise Cancellation:

Analog Rx Noise Suppression:

Noise Cancellation Level: 7

Low Frequency Gain(dB): 0.0

Mid Frequency Gain(dB): 0.0

Earphone Gain

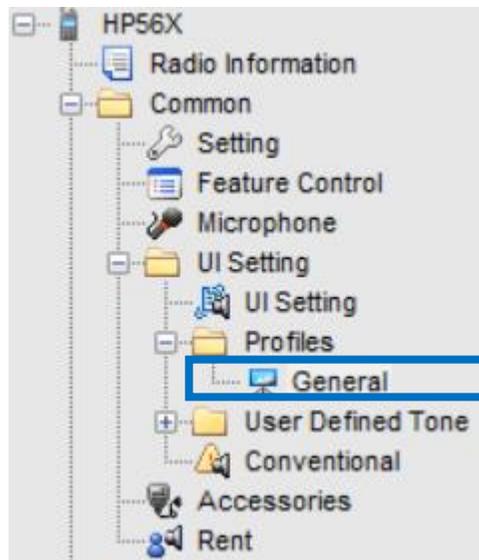
Low Frequency Gain(dB): 0.0

Mid Frequency Gain(dB): 0.0

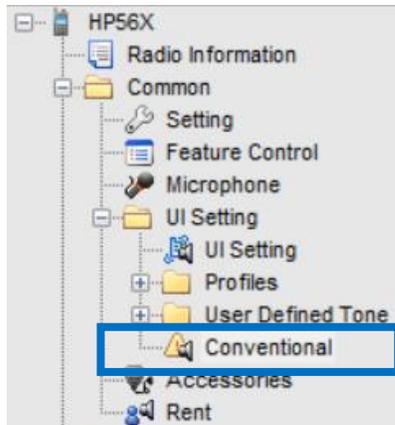
High Frequency Gain(dB): 0.0

All Tones: Enable

Tone Volume: Default



V2



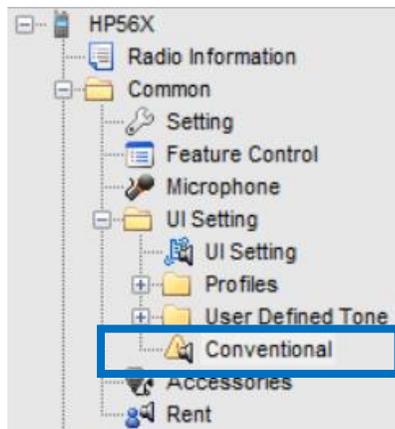
Alert Tones

Emergency Siren Tone Volume	6
Digital Talk Permit Tone Delay Time[ms]	0
Analog Talk Permit Tone Delay Time [ms]	0
Keypad Tone	<input checked="" type="checkbox"/> 6
Signaling Side Tone	<input checked="" type="checkbox"/> 6
Scan Priority Channel Tone	<input checked="" type="checkbox"/> 6
Others Tone	<input checked="" type="checkbox"/> 6
Encrypt Voice Tone	<input type="checkbox"/> 6
Emergency Call Tone	<input type="checkbox"/> 6
Power Off Tone	<input checked="" type="checkbox"/> 6
Voice Notify Tone	<input checked="" type="checkbox"/>
Volume Adjustment Tone	<input type="checkbox"/>

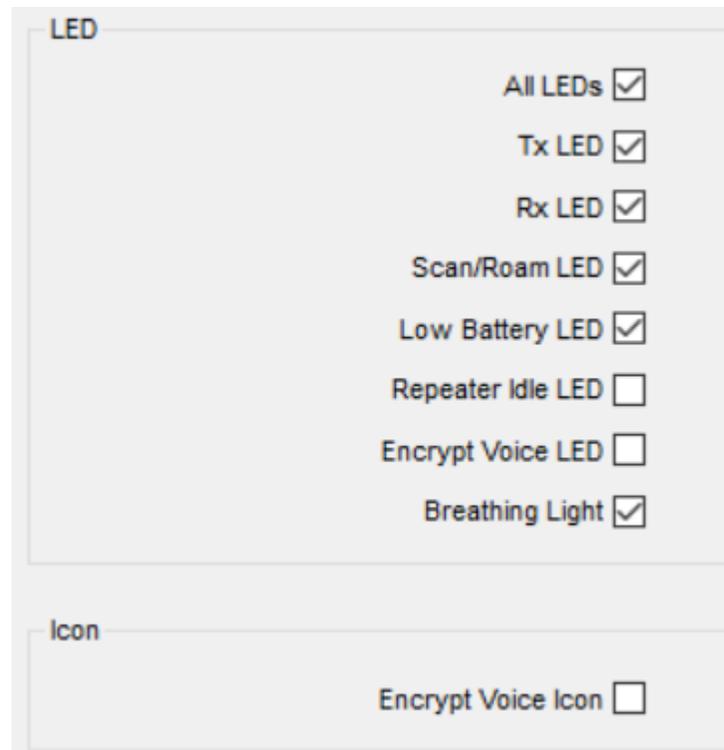
V3

Alert Tones

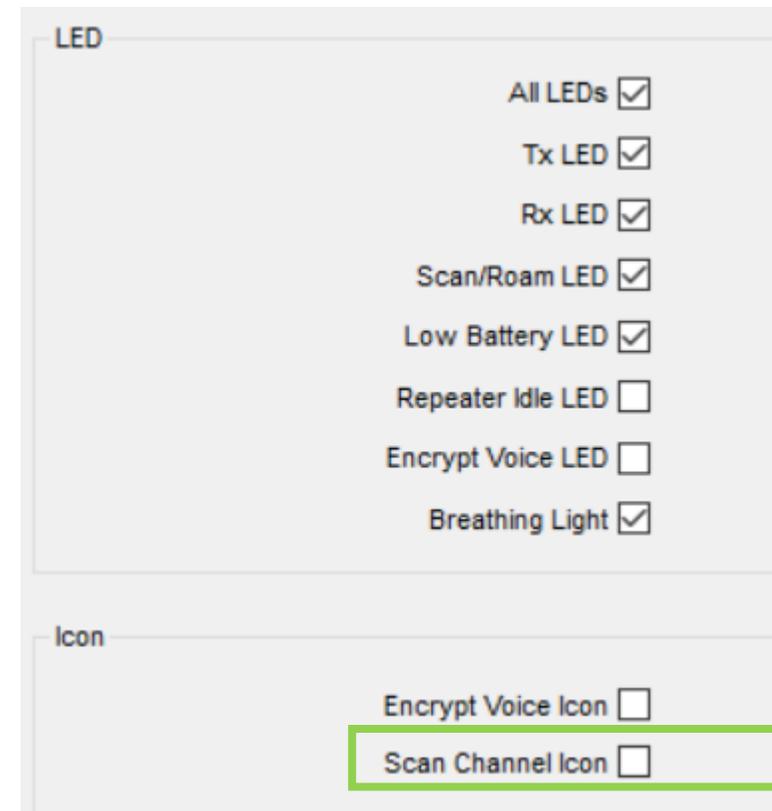
Emergency Siren Tone Volume	9
Digital Talk Permit Tone Delay Time[ms]	0
Analog Talk Permit Tone Delay Time [ms]	0
Keypad Tone	<input checked="" type="checkbox"/> 9
Signaling Side Tone	<input checked="" type="checkbox"/> 9
Scan Priority Channel Tone	<input checked="" type="checkbox"/> 9
Others Tone	<input checked="" type="checkbox"/> 9
Encrypt Voice Tone	<input type="checkbox"/> 9
Emergency Call Tone	<input type="checkbox"/> 9
Power Off Tone	<input checked="" type="checkbox"/> 9
Voice Notify Tone	<input checked="" type="checkbox"/> Current
Volume Adjustment Tone	<input type="checkbox"/>



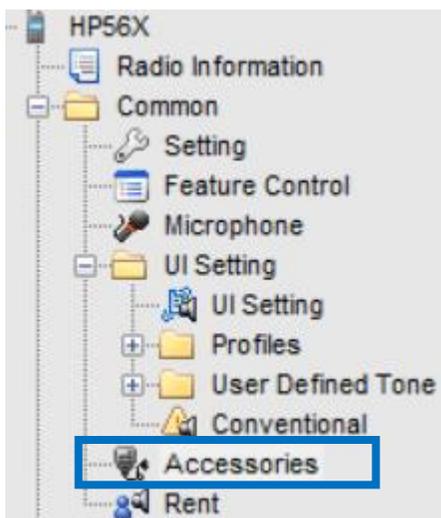
V2



V3



V2



Basic Setting

Accessory Port UART Baudrate: 115200

Parity Bit: None

Data Bit: 8

Stop Bit: 1

GNSS

Location System Setting: GPS

GNSS Stabilized Time [s]: 0

V3

Basic Setting

Accessory Port UART Baudrate: 115200

Parity Bit: None

Data Bit: 8

Stop Bit: 1

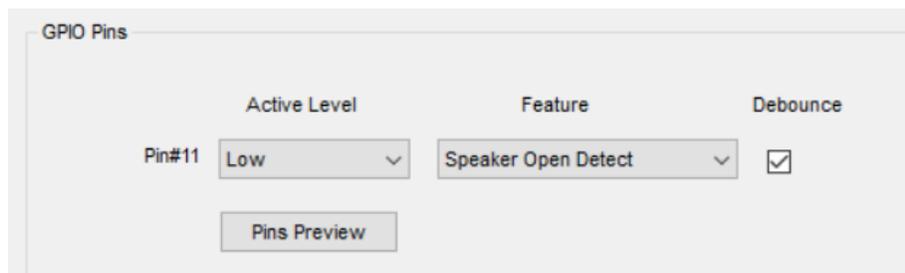
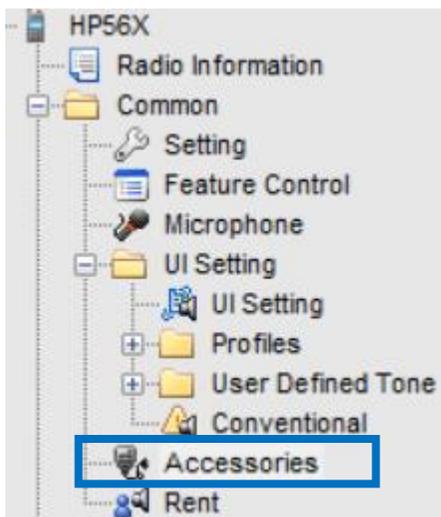
USB Path: Type-C First

GNSS

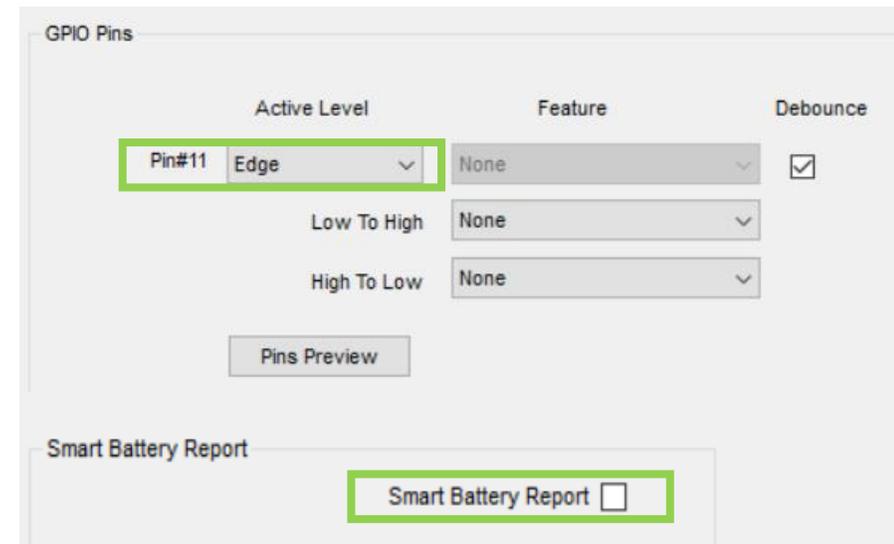
Location System Setting: GPS

GNSS Stabilized Time [s]: 0

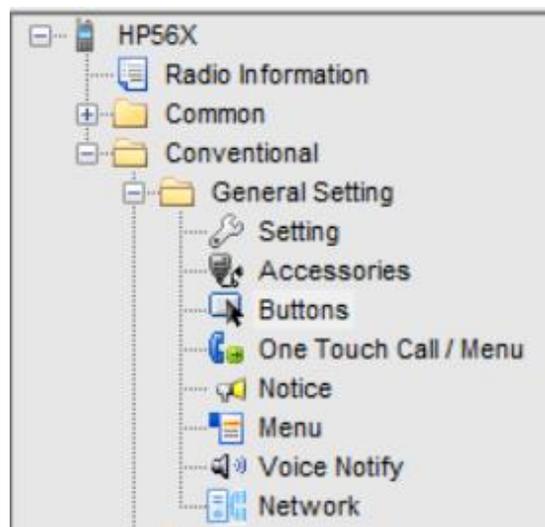
V2



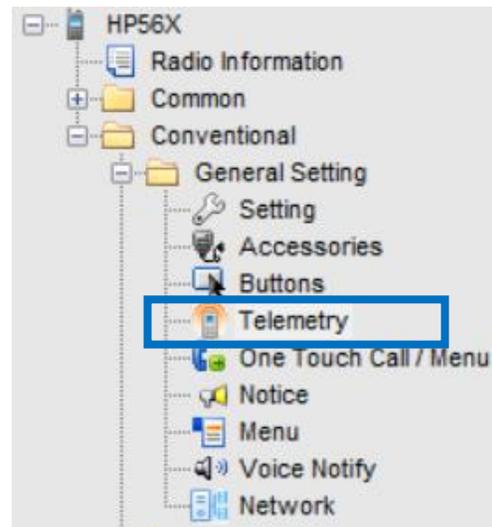
V3



V2

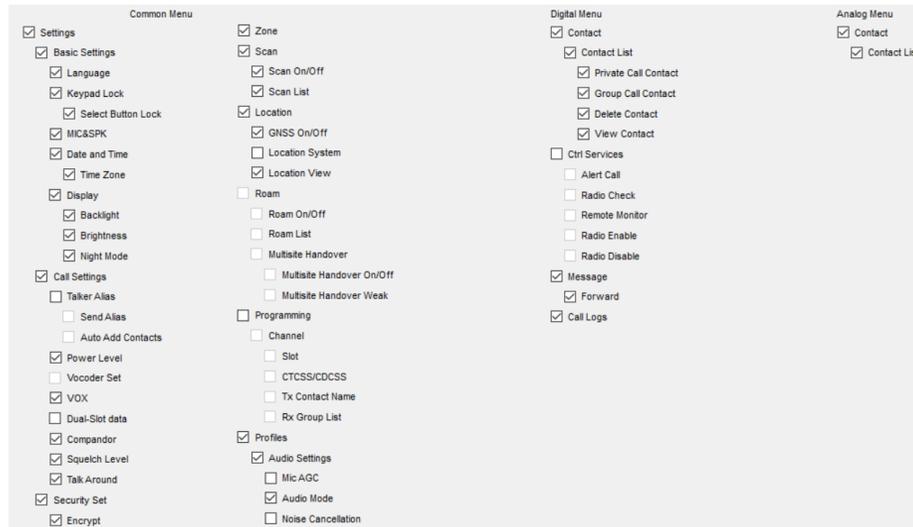
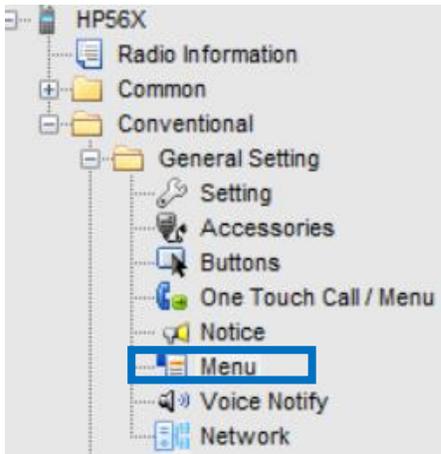


V3

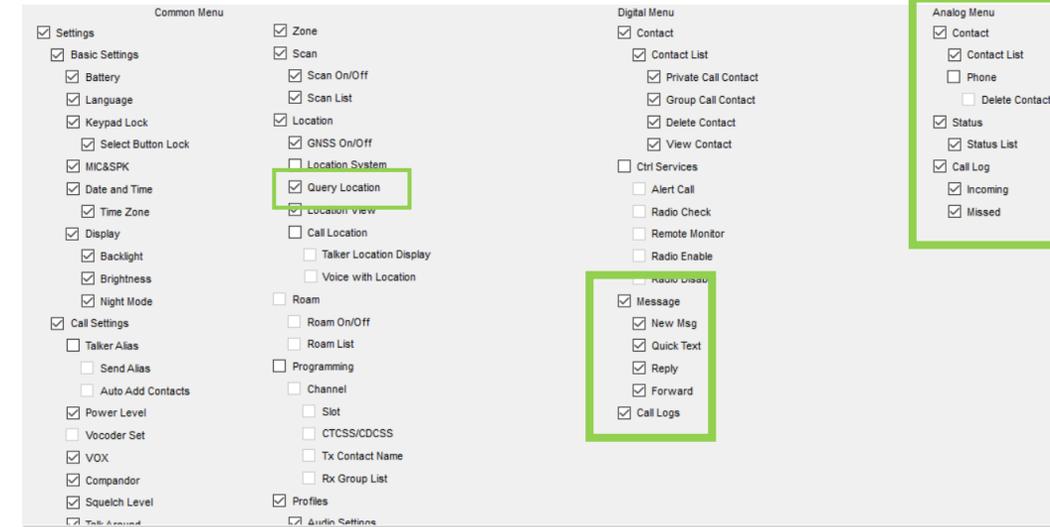


No.	Feature	Description	Action	Pulse Time[ms]	Digital Call	Target VIO	Quick Text
1	Telemetry Button1	Button1	None	200	None	None	None
2	Telemetry Button2	Button2	None	200	None	None	None
3	Telemetry Button3	Button3	None	200	None	None	None
4	Telemetry VIO1	TelemetryVIO1	None	200	None	None	None
5	Telemetry VIO2	TelemetryVIO2	None	200	None	None	None
6	Telemetry VIO3	TelemetryVIO3	None	200	None	None	None
7	Telemetry VIO4	TelemetryVIO4	None	200	None	None	None
8	Telemetry VIO5	TelemetryVIO5	None	200	None	None	None
9	Telemetry VIO6	TelemetryVIO6	None	200	None	None	None

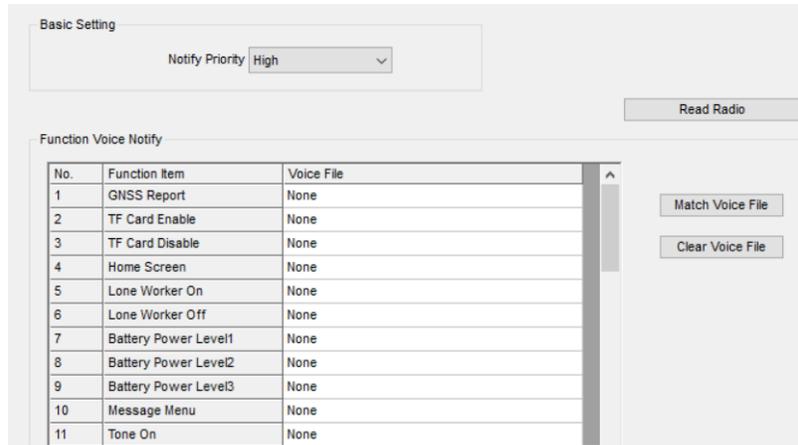
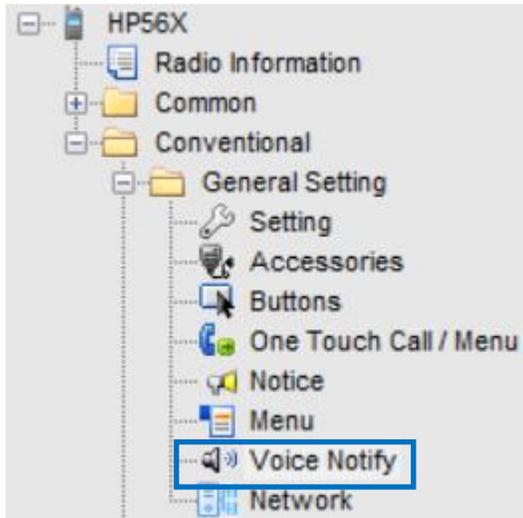
V2



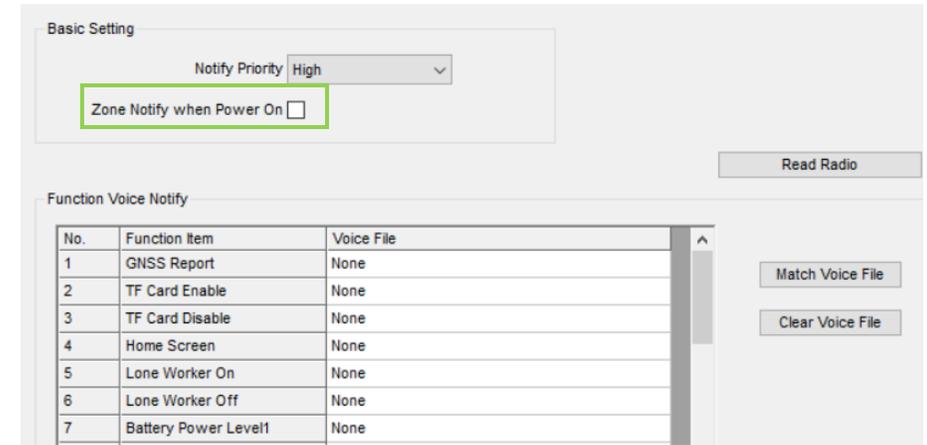
V3



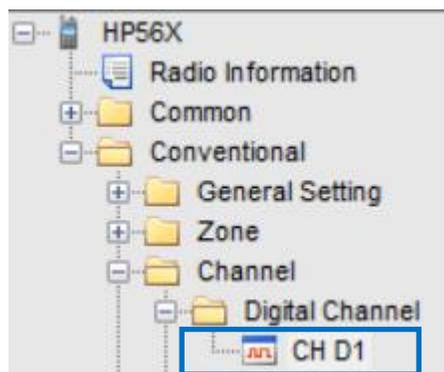
V2



V3



V2



Channel Alias: CH D1

Color Code: 15

Slot Operation: Slot 1

Pseudo Trunk Designated TX: None

Scan List/Roam List: Scan List 1

Auto Start Scan

Quick GNSS

Talk Around

Rx Only

IP Multi-site Connect

Auto Start Roam

VOX

Priority Interrupt Encode

Priority Interrupt Decode

Reliable Priority Interrupt Transmit

Enhanced Channel Access

V3

Channel Alias: CH D1

Color Code: 15

Slot Operation: Slot 1

Pseudo Trunk Designated TX: None

Scan List/Roam List: None

Auto Start Scan

Quick GNSS

Talk Around

Rx Only

IP Multi-site Connect

Auto Start Roam

VOX

Priority Interrupt Encode

Priority Interrupt Decode

Reliable Priority Interrupt Transmit

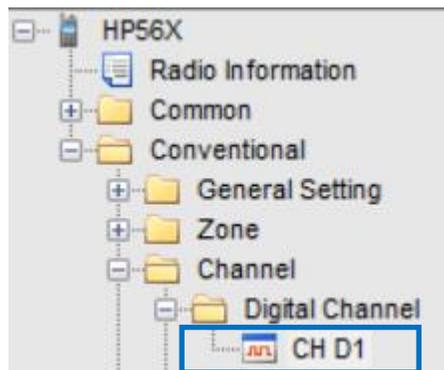
Enhanced Channel Access

Access Protection Type: Signaling Frame

Only Receive Encrypt Air

Access Protection Key: Encrypt Key 1

V2



Tx

Transmit Frequency [MHz]	459.762500
Tx Contact Name	Call 1
Location Info Revert Channel	None
RRS Revert Channel	None
Emergency System	DigitalSys 1
Power Level	High
Tx Admit	Always Allow
In Call TX Admit	Follow TX Admit
Tx Time-out Time [s]	60
TOT Pre-Alert Time [s]	0
TOT Re-key Time [s]	0
TOT Reset Time [s]	0
Private Call Confirmed	<input type="checkbox"/>

V3

Tx

Transmit Frequency [MHz]	459.762500
Tx Contact Name	Call 1
Location Info Revert Channel	None
RRS Revert Channel	CH D3
Battery Info Revert Channel	None
Emergency System	DigitalSys 1
Power Level	High
Tx Admit	Always Allow
In Call TX Admit	Follow TX Admit
Tx Time-out Time [s]	60
TOT Pre-Alert Time [s]	0
TOT Re-key Time [s]	0
TOT Reset Time [s]	0
Private Call Confirmed	<input type="checkbox"/>

V2

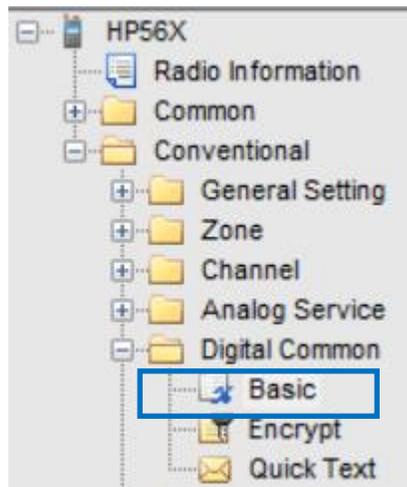


Radio ID [Digital]	1
Increase After Written	<input type="checkbox"/>
Province NP	328
Police NP	804
Tx Preamble Duration [ms]	960
Group Call Hang Time [s]	3.0
Private Call Hang Time [s]	3.0
Sync Wakeup Time [ms]	360
Wakeup Retries	2
Wait Ack Delay [ms]	0
Alert Call Talkback	<input checked="" type="checkbox"/>
Weak Signal Stop Tx Threshold	None
Weak Signal Stop Tx Detect Time	2160

V3

Radio ID [Digital]	1
Increase After Written	<input type="checkbox"/>
Province NP	328
Police NP	804
Tx Preamble Duration [ms]	960
Group Call Hang Time [s]	3.0
Private Call Hang Time [s]	3.0
Sync Wakeup Time [ms]	360
Wakeup Retries	2
Wait Ack Delay [ms]	0
Alert Call Talkback	<input checked="" type="checkbox"/>
Weak Signal Stop Tx Threshold	None
Weak Signal Stop Tx Detect Time	2160
Priority	0

V2



Encode	
All Call Encode	<input type="checkbox"/>
Private Call Encode	<input checked="" type="checkbox"/>
Group Call Encode	<input checked="" type="checkbox"/>

Decode	
Radio Disable/Enable Decode	<input type="checkbox"/>
Remote Monitor Decode	<input type="checkbox"/>
Emergency Remote Monitor Decode	<input type="checkbox"/>
Alert Call Decode	<input type="checkbox"/>
Radio Check Decode	<input type="checkbox"/>
All Call Decode	<input checked="" type="checkbox"/>

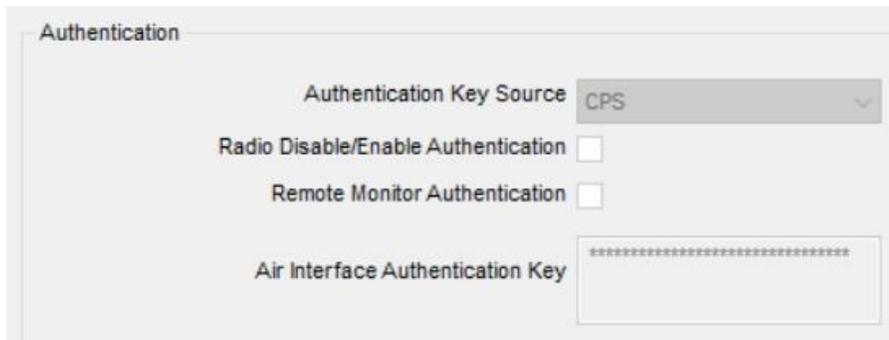
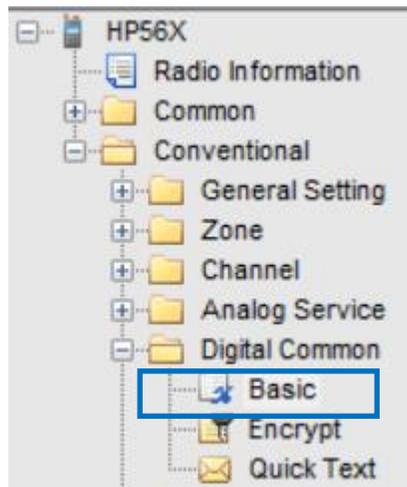
V3

Encode	
All Call Encode	<input checked="" type="checkbox"/>
Private Call Encode	<input checked="" type="checkbox"/>
Group Call Encode	<input checked="" type="checkbox"/>
Unaddressed Call Encode	<input checked="" type="checkbox"/>
Broadcast Call Encode	<input checked="" type="checkbox"/>
OVCN Encode	<input checked="" type="checkbox"/>

Decode	
Radio Disable/Enable Decode	<input type="checkbox"/>
Remote Monitor Decode	<input type="checkbox"/>
Emergency Remote Monitor Decode	<input type="checkbox"/>
Alert Call Decode	<input type="checkbox"/>
Radio Check Decode	<input type="checkbox"/>
Over The Air Decode	<input checked="" type="checkbox"/>
All Call Decode	<input checked="" type="checkbox"/>
OVCN Decode	<input checked="" type="checkbox"/>

Broadcast - não espera uma resposta do usuário, sendo uma transmissão unidirecional. Precisa add um botão lateral para efetuar a chamada

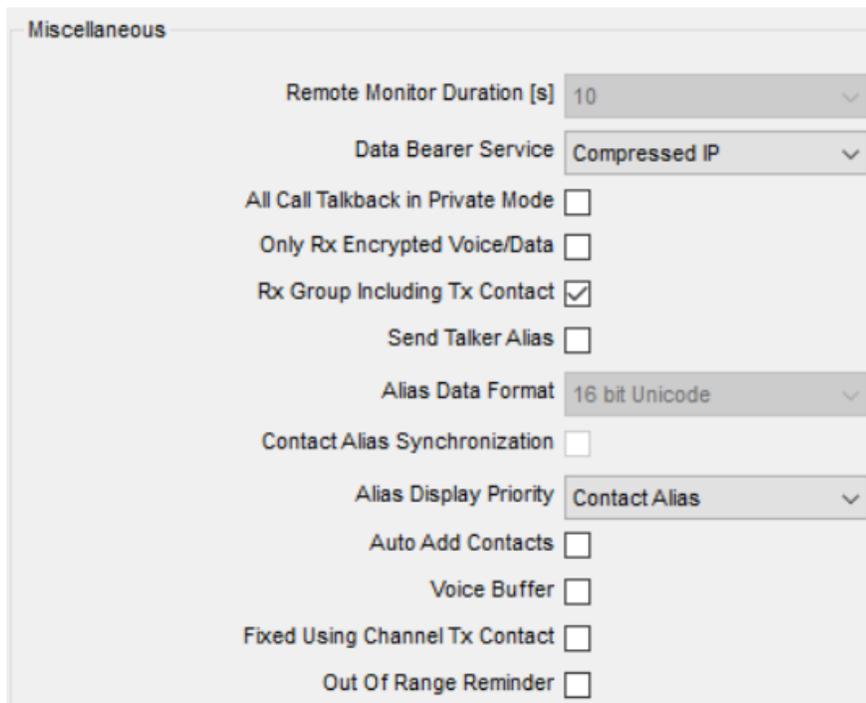
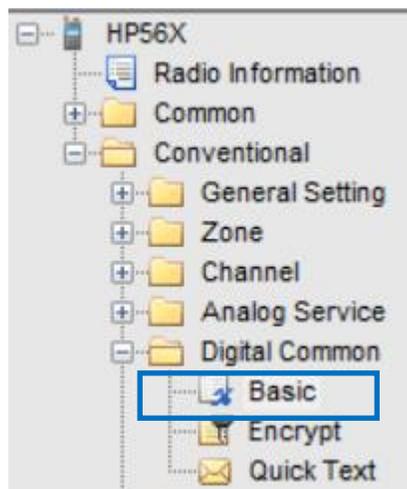
V2



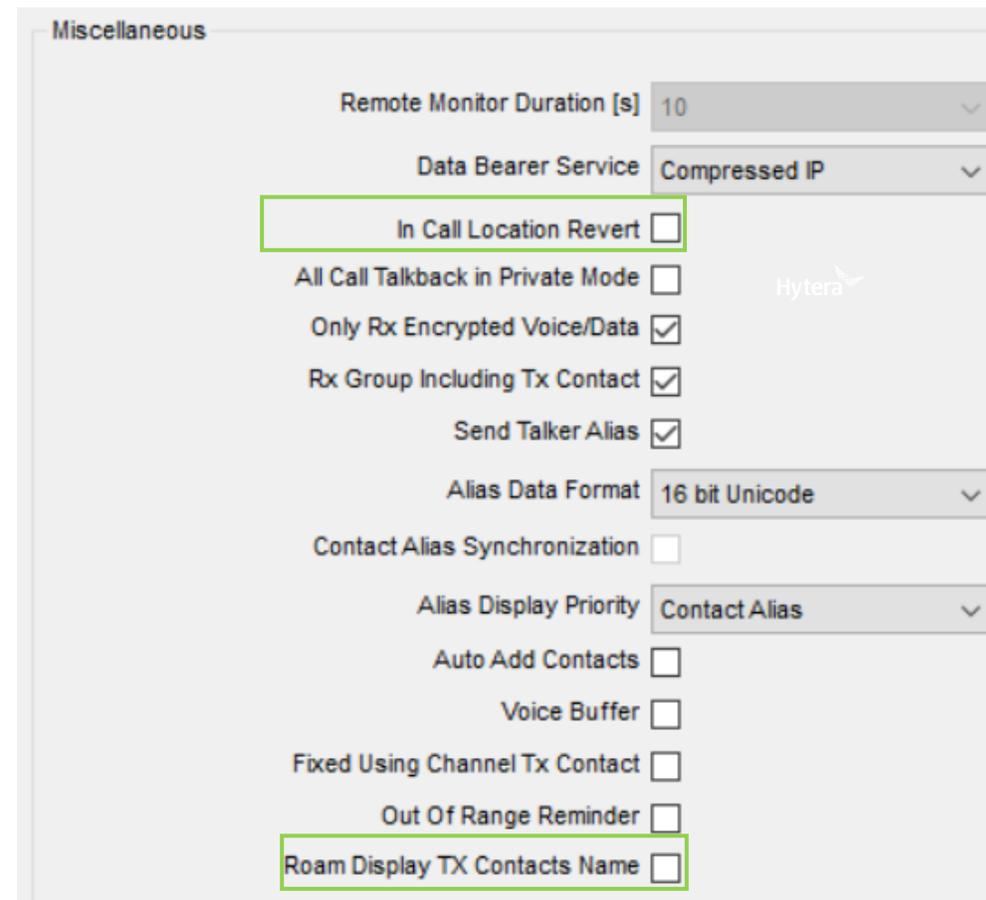
V3



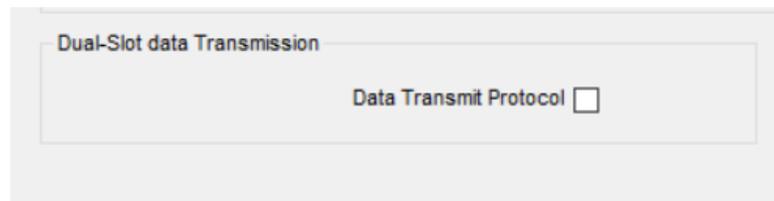
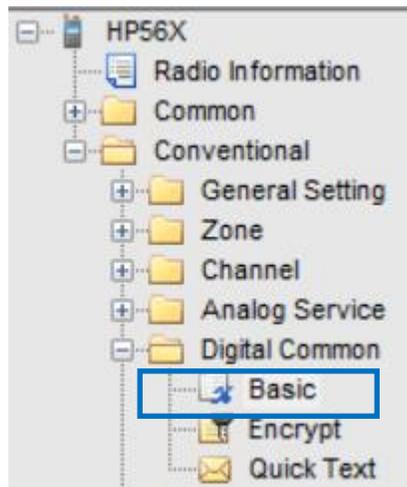
V2



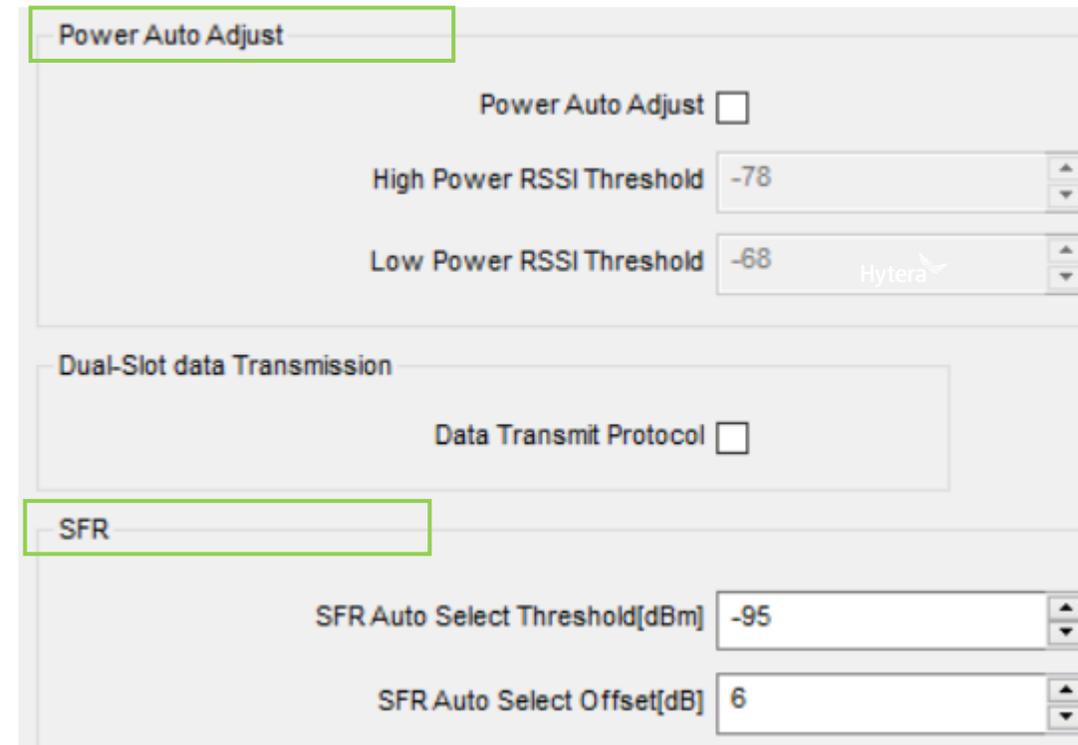
V3



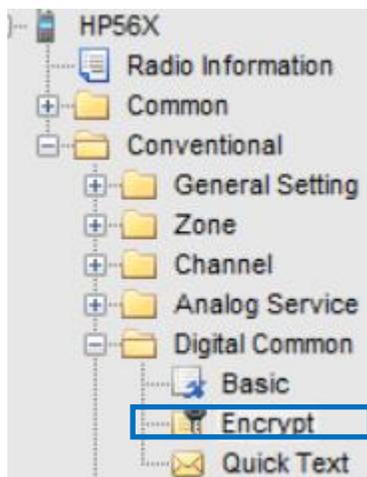
V2



V3



V2



Encrypt

Encrypt Key Source CPS

Encrypt Service Voice and Data

Encrypt Key Length

10 Characters 32 Characters 64 Characters

No.	Key ID	Key Alias	Key Length	Key Value
1	1	Encrypt Key 1	10 Characters	*****

V3

Encrypt

Encrypt Key Source CPS

Encrypt Service Voice and Data

Single GNSS Encrypt

Single GNSS Encrypt Key *****

Encrypt Key Length

10 Characters 32 Characters 64 Characters

No.	Key ID	Key Alias	Key Length	Key Value
1	1	Encrypt Key 1	10 Characters	*****

Access Protection

Access Protection Key Source CPS

No.	Key Alias	Key Value
1	Encrypt Key 1	*****



Hytera

INOVANDO para um Mundo Mais Seguro

Julio Roland
Engenheiro e Instrutor