Hytera GPS / APRS settings on BM via a DV device

Hytera GPS Configuration

The following instructions are for configuring the Hytera GPS models of radio to allow the GPS position to be manually beaconed and checked on <u>http://aprs.fi</u>

You use the Hytera CPS Software to configure the GPS settings.

Step 1

In Conventional, Accessories, and GPS enter a tick to select.

In Conventional, Accessories, and GPS Data Compression, ensure this is unchecked.

To prevent your GPS position being beaconed over the network ensure this is not ticked in Conventional, Accessories, and Quick GPS.



In Conventional, Accessories, and GPS Trigger choose the Button option so that your GPS Position is only beaconed when the programmed button is pressed.

| Image: State Image: State <td< th=""><th>😹 File Edit Program Option View To</th><th>ools Window Help</th><th></th><th></th><th></th><th></th><th></th><th></th></td<> | 😹 File Edit Program Option View To | ools Window Help | | | | | | |
|--|---|--------------------------|--------------------|--------|---------------------------|--------------------|-----------|-----------|
| BBSU Besc Network Accessories Buttons POPPOSO Rodio Information TK Short Adjust power level TK Long None Setting Setting Skil Short Preset Channel 1 Skil Short Skil Short Skil Short Skil Short Skil Short Skil Short Preset Channel 1 Skil Short Skil Short< | New Open Save Print Read Writ | te Clone BT Help | | | | | | |
| Image: Set in the set of | 8953 U Basic Network Accessories But | ttons | 1. | | | | | |
| PO7850 Common Common Skil short Preset Channel 1 Skil short Preset Channel 2 Preset Channel 2 Skil Short Preset Channel 2 Down None Channel Switch Type Switch Wethin Zone Dial Dial Dial Dial Dial Dial Dial Dial | | | | | | | | |
| Product information TK Short Addust power level TK Long None V Skt Short Preset Channel 1 Skt Short Skt Short Skt Short Skt Long One Touch Call / Menu 1 V With right how AVXX Skt Short Preset Channel 1 Skt Short Skt Long Skt Long One Touch Call / Menu 1 V With right how AVXX Skt Short Preset Channel 2 Skt Long Skt Long One V Skt Long Skt Long Skt Long One V V Skt Long One V V Skt Long One V V None V V None V Long Press Duration [s] 20 V Cong Press Duration [s] 20 V V None V | Er PD785G | | | | | | | |
| Setting Setting Sk1 Shot Preset Channel 1 Sk1 Long | | TK Short | Adjust power level | ~ | TK Long | None | | ~ |
| Feature Control Kirzybone/VOX Kirzybone/VOX <t< td=""><td>- 🖉 Setting</td><td>SK1 Short</td><td>Preset Channel 1</td><td>~</td><td>SK1 Long</td><td>One Touch Call / I</td><td>vlenu 1</td><td>~</td></t<> | - 🖉 Setting | SK1 Short | Preset Channel 1 | ~ | SK1 Long | One Touch Call / I | vlenu 1 | ~ |
| U Setting U Setting U Setting U Setting V User Defined Tone Accessories Rent P Soft Channel Switch Type Setting Down None Down None Channel Switch Type Softenerity Channel Switch Type Channel Switch Dial Type Channel Switch Dial Type Channel Switch Dial Type DMR Services Softenerity DMR Services Softenerity Channel ACC Knob PTT Keypad Block Close Vert Trunking Vert Event Vert Event Vert Event Vert Event <td>Feature Control Microphone (VOX</td> <td>SK2 Short</td> <td>Preset Channel 2</td> <td>~</td> <td>SK21 opg</td> <td>Scan</td> <td></td> <td>~</td> | Feature Control Microphone (VOX | SK2 Short | Preset Channel 2 | ~ | SK21 opg | Scan | | ~ |
| Image: Construction of the construc | - M UI Setting | | | • | one cong | Scan | | - |
| Accessories Conventional | User Defined Tone | P1 Short | Zone Up | \sim | P1 Long | None | | ~ |
| Convertional General Setting Buttons Buttons Channel Switch Type Switch Vittin Zone Channel Switch Dial Type Scan PTT Phone Stan Stan Stan Close Pint Help | erection and the second secon | P2 Short | Zone Down | ~ | P2 Long | GPS Report | | ~ |
| Setting Buttons Buttons Channel Switch Type Switch Within Zone Channel Switch Type Menu Menu <td></td> <td>Up</td> <td>None</td> <td>~</td> <td>Long</td> <td>Press Duration [s]</td> <td>2.0</td> <td></td> | | Up | None | ~ | Long | Press Duration [s] | 2.0 | |
| Accessories Channel Switch Type Buttons Channel Switch Dial Type Menu M | Setting | Down | None | ~ | | | 50 | |
| Channel Switch Type Switch Within Zone Channel Switch Type Switch Within Zone Channel Switch Type Switch Within Zone Channel Switch Dial Type Ch | Ruttops | | | • | Long Press Duration for t | Emergency Off [s] | 5.0 | • |
| Channel Switch Dial Type Zone#Channel Manual Dial Cuick Dial Channel Switch Dial Type Zone#Channel Manual Dial Cuick Dial Channel Switch Dial Type Zone#Channel Cuick Dial Cuick Dial | Telemetry | Channel Switch Type | Switch Within Zone | \sim | Default Nume | eric Key Selection | One Touch | Call/IV 🗸 |
| Well | | Channel Switch Dial Type | Zone#Channel | ~ | | Manual Dial | | |
| Guick Dial Button Preview Button Preview < | | | | | | | | |
| Cone Button Preview < | Network | | | | | Quick Dial | | |
| Analog Service Digital Common DMR Services Channel/ACC Knob Roam Emergency Phone XPT Trunking Close Print Help | | | | | Button F | Preview | | |
| Close Print Help | Analog Service | Keypad Block | | | 1 | | | |
| Close Print Help | Digital Common DMR Services | Channel | ACC Knob | | | | | |
| Image: Close Print | ⊕ Scan | | | | | | | |
| Close Print Help | 🕀 🦲 Roam | | PTT 📋 | | | | | |
| Close Print Help | | | | | | | | |
| Close Print Help | Trunking | | | | | | | |
| Close Print Help | | | | | | | | |
| Close Print Help | | | | | | | | |
| Close Print Help | | | | | | | | |
| Close Print: Help | | | | | | | | |
| | | Close Print H | elp | | | | | |

Setup the GPS setting in the Conventional, General Settings, Network, Radio Services and in the RRS & GPS Radio ID which you should enter the numbers 234999 not 5057 for UK Master or (310999 for USA Masters)



You now need to set the Data Bearer Services which can be found under the Conventional, Digital Common, Basic menu. In the Miscellaneous section you will find the Data Bearer Service which you must select as "COMPRESSED IP"

| 🔜 File Edit Program Option View Tools | Window Help | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| New Open Save Print Read Write | Clone BT Help Basic 895311 Contact One Touch Call (Menu) Telemetry Accessories Setting Barlio Information | | | | | | | |
| | | | | | | | | |
| Simpl DH_5 | Message Priority Interrupt | | | | | | | |
| Simpl DH_6 | Radio Disable Priority Interrupt | | | | | | | |
| IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | All Call Priority Interrupt | | | | | | | |
| DV-Blue | Display | | | | | | | |
| 4401 U | | | | | | | | |
| | Display Caller ID And Alias 🗹 | | | | | | | |
| 4404 0 | Missed Call Indication | | | | | | | |
| 4407 U | Roam/Scan Pop Indication 🗹 | | | | | | | |
| | | | | | | | | |
| | Miscellaneous | | | | | | | |
| ZZ | Remote Monitor Duration [s] 10 V | | | | | | | |
| IN Work | Data Bearer Service Commerced ID | | | | | | | |
| | | | | | | | | |
| | In Call GPS Revert THIS WITH TEL YOU SETTU | | | | | | | |
| | All Call Talkback in Private Mode I Lext & Private Call | | | | | | | |
| 4000 U | Encryption Board Presence Check Before Tx OVER THE BIM NETWORK | | | | | | | |
| 31481 U | Only Rx Encrypted Voice/Data | | | | | | | |
| 907 U | Rx Group Including Tx Contact 🗹 | | | | | | | |
| | Send Talker Alias | | | | | | | |
| 438 5875 DH1 | Alias Data Format | | | | | | | |
| 438.6000 DH2 | | | | | | | | |
| | Contact Alias Synchronization | | | | | | | |
| 438.6250 DH4 | Alias Display Priority Contact Alias 🗸 🗸 | | | | | | | |
| 438.6500 DH6 | | | | | | | | |
| | Power Auto Adjust | | | | | | | |
| 438.6750 DH8 | Power Auto Adjust | | | | | | | |
| DPMR 1 | | | | | | | | |
| DPMR 3 V | Close Print Help | | | | | | | |

There is two fields in each memory channel – the GPS REVERT CHANNEL and the RRS REVERT CHANNEL. Select the option SELECTED in these two fields for each channel.

| New Oper | n Save Print Read Write | Clone BT Help | | |
|----------|-------------------------|------------------------------------|---------------------------------|-----------------------|
| 8953 U | 1 | | | |
| | × 1 | Or | Ily Receive Encrypt Air | |
| | | 0 | | |
| | 4404 U | | | |
| | - m 4403 0 | Rx | Offset [MHz] | Tx |
| | | Receive Frequency [MHz] 438.875000 | -9.000000 Transmit Frequency [M | Hz] 438.875000 |
| | | | | |
| | | Rx Group List None | Copy Tx Contact Na | me 🙀 8953 🗸 🗸 |
| | Work | Emergency Alarm Indication | GPS Revert Char | nel 📶 Selected 🗸 🗸 |
| | - M W8WEU U | Emergency Alarm Ack | | |
| | <u></u> 310 U | Emergency Call Indication | RRS Revert Char | nel in Selected V |
| | - <u>m</u> 3148 U | | Emergency Sys | em None 🗸 |
| | | Encrypt | | |
| | m 31481 U | | Phone Sys | em None ~ |
| | - <u>m</u> 31482 U | Encrypt | Power Le | vel Low 🗸 |
| | 907 U | Encrypt Type Basic | ~ | - |
| | - m 311 II | | IXA | mit Color Code Free V |
| | - 38.5875 DH1 | Encrypt Key None | In Call TX A/ | mit Follow TX Admit 🗸 |
| | | MultiKey Decrypt | | |
| | | Random Key Encrypt | T× Time-out Time | [s] 180 V |
| | 438.6250 DH4 | | TOT Pre-Alert Time | [s] 10 |
| | 438.6500 DH6 | | | |
| | | | TOT Re-key Time | [s] 0 |
| | | | | |
| | DPMR 1 | | TOT Reset Time | [5] 0 |
| | DPMR 3 | | Private Call Confirm | ned 🗌 |
| | DPMR 4 | | | |
| | DPMR 5 | | | ald to a |
| | DPMR 6 | | RSSI Thresh | oid -113 |
| | DPMR 7 | | | |
| | DPMR 9 | | | |
| | | Close Print Help 38 of 10 | J9 4 4 ▶ ▶ ⊕ 🗙 | |

Step 6

Brandmeister <u>SelfCare settings</u> Set Brand option to Hytera (With in call GPS). Set APRS Callsign to xxxxx-9 Set APRS Icon If you do not have an account make one up.

Step 7

After installing the updated code plug. Select the channel with the GPS and press GPS Trigger Button.