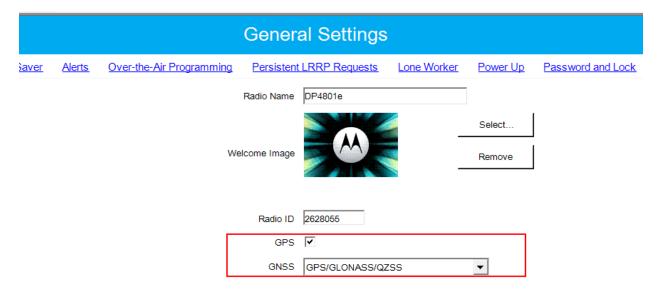
## MOTOTRBO radio using APRS and SMS in BrandMeister network

This example shows the settings for BrandMeister 262 Germany, in other countries it may be necessary to use another server. In Germany for APRS and messaging the address is 262999.

Note that the CPS has expert view enabled. I used CPS 13.5 EMEA to create this example.

First have a look at the general settings, to enable GPS. Depending on the GPS hardware of your radio it may be useful having a look if all satellite systems are enabled. For my DP4801e only GPS was enabled, and adding GLONASS improved time to fix quite a bit in some situations.



Now go to General / Persistent LRRP Request and set it like this, to make APRS transmission more reliable. It is a kind of cache to store the settings sent from the server to your radio.



The next step is doing some network settings. Navigate to the network page and set the stuff like shown below. I do not want to go into detail, just note that that the three occurrences of 262999 may need to be adjusted to your master servers address. Not all here entered settings are necessary for APRS, but I set them to be prepared for future use, and some are needed for text messaging TMS/SMS.

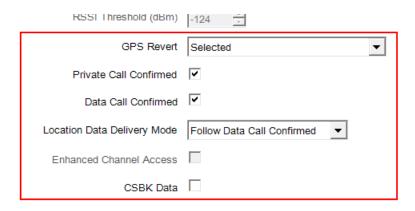
			Ne	twork		
<u>vork</u>	<u>Services</u>	Control Station	IP Site Connect	<u>Bluetooth</u>	Bluetooth Serial Port F	Profile Data Roi
		Radio Network				
			CAI Network	12 :		
			CAI Group Network	225 ÷		
		Prote	cted Mode Control Station			
			Max TX PDU Size (bytes)	1500 ▼		
			Telemetry UDP Port	4008		
			Forward to PC	Disabled	•	
			Ser	vices		
			ARS Radio ID	262999	•	
			ARS IP	13.4.3.87		
			ARS UDP Port	4005		
			TMS Radio ID	262999		
			TMS IP	13.4.3.87		
			TMS UDP Port	4007	3	
			User Defined UDP Port 1	Disabled	•	
			User Defined UDP Port 2	Disabled	•	
			User Defined UDP Port 3	Disabled	•	
			XCMP Server ID	262999		
			XCMP Server IP	13.4.3.87		
		Batte	ery Management Server ID		•	
		Batte	ery Management Server IP	0.0.0.0		

The next settings need to be made in each single channel that wants to use messaging and APRS. So you may face now some work to be done, depending on the size of your codeplug ©

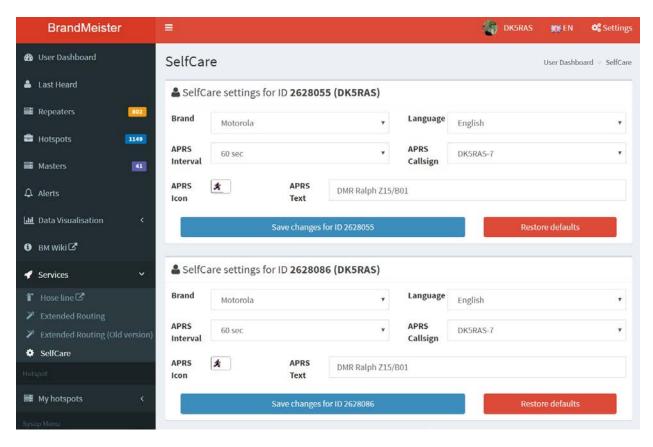
These items from the common part of the channel data are important:

Phone System	Sys1 ▼			
ARS	On System/Site Change ▼			
Enhanced GPS				
Window Size	8 🔻			
Privacy				
Privacy Alias	Privacy Key1			
RAS Alias	None ▼			
Option Board				
Option Board Trunking				
Lone Worker				
Allow Talkaround	<b>▽</b>			
IP Site Connect	<b>V</b>			
Per-Site RSSI Threshold (dBm)	-108			
Messaging Delay (ms)	60 :			
Compressed UDP Data Header	DMR Standard 🔻			
Text Message Type	DMR Standard ▼			
Over-the-Air Battery Management				

And here the stuff from the channels TX section:



Not to forget about the BrandMeister dashboard settings! Log into your dashboard account at <a href="https://brandmeister.network">https://brandmeister.network</a> and adjust your settings for all affected personal IDs, similar to this example:



Now you should be ready to to go. Set your radio to a BrandMeister repeater or hotspot, wait for a GPS fix and watch your data showing on <a href="http://aprs.fi">http://aprs.fi</a>!

Ralph, dk5ras, ralph@schmid.xxx