

STORE & FORWARD REPEATERS

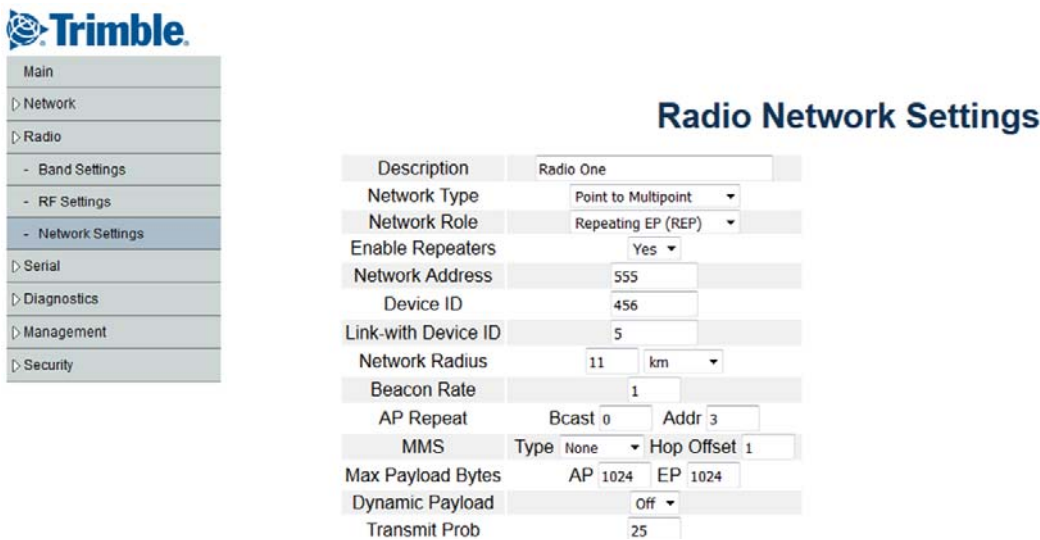
The TMR1 radio includes a Repeating End Point (REP) network mode that provides a “store & forward” repeater solution. In order to use this mode, the **Enable Repeaters** setting must be set to **YES** on all radios in the network.

NOTE: If this setting is mismatched between radios, communication will be lost.

The Enable Repeaters setting creates a time slot in the transmission frame for Store & Forward Repeater mode, which reduces the overall throughput across the network.

In order to segregate the repeaters downstream link from the upstream link it is necessary to use a hop offset at the repeater and downstream end points.

Set up the radio as a Repeating End Point (REP) and set Enable Repeaters to **YES** for all radios in the network, as shown below.



Radio Network Settings	
Description	Radio One
Network Type	Point to Multipoint
Network Role	Repeating EP (REP)
Enable Repeaters	Yes
Network Address	555
Device ID	456
Link-with Device ID	5
Network Radius	11 km
Beacon Rate	1
AP Repeat	Bcast 0 Addr 3
MMS	Type None Hop Offset 1
Max Payload Bytes	AP 1024 EP 1024
Dynamic Payload	Off
Transmit Prob	25

In order to segregate the repeaters downstream link from the upstream link it is necessary to use a different Hop Offset at the repeater and all the downstream end points.



Radio Network Settings

Description	Radio One	
Network Type	Point to Multipoint	
Network Role	Repeating EP (REP)	
Enable Repeaters	Yes	
Network Address	555	
Device ID	457	
Link-with Device ID	456	
Network Radius	11	km
Beacon Rate	1	
AP Repeat	Bcast 0	Addr 3
MMS	Type None	Hop Offset 1
Max Payload Bytes	AP 1024	EP 1024
Dynamic Payload	Off	
Transmit Prob	25	
Serial Number: E5016C53		
Firmware Version: 1.37.7856		
Save / Apply - Radio Settings		
Diag Threshold	-81	dBm

[Go back to menu page](#)

The important things to remember when setting up Store & Forward Repeaters are....

- **Enable Repeaters** should be set to **Yes** on ALL radios
- **MMS** should be set to **None** on ALL radios
- Each repeater and associated downstream end points should have a different Hop Offset