TracNet™ Coastal
Wi-Fi Antenna Replacement Instructions

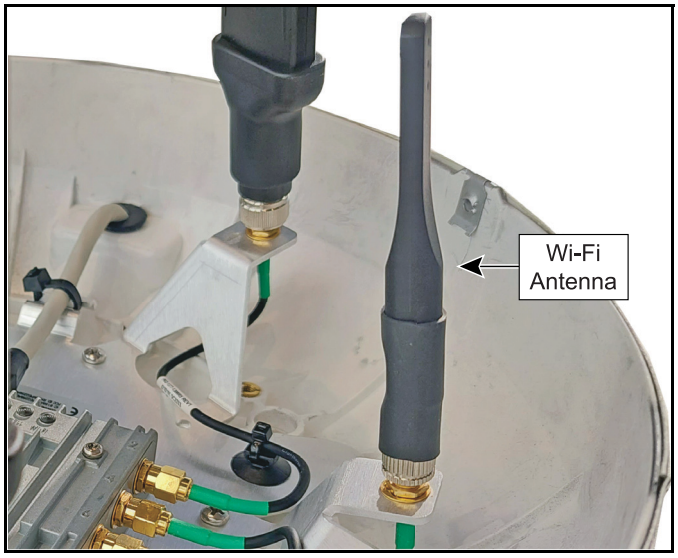
The following instructions explain how to replace the Wi-Fi antenna(s) in a TracNet Coastal antenna.

Tools Required

This procedure requires the following tools:

- #2 Phillips screwdriver
- 5/16" or 8 mm open-end wrench
- 5/16" or 8 mm torque wrench set to 20-24 in-lbs
- Pliers
- Shop towels

Figure 1: Wi-Fi Antenna (Example)



Technical Support

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Initial Steps

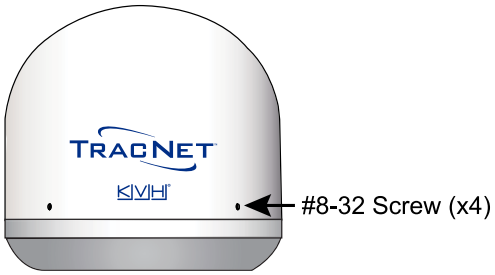
1. Power off and unplug the Hub or other device that is supplying PoE power to the antenna. Follow shipboard lockout/tagout procedures to ensure no one reapplies power while the unit is under repair.

CAUTION

To prevent injury, be sure to disconnect all power from the antenna before proceeding. Power must remain disconnected for the duration of this procedure.

2. Remove and discard the four #8-32 screws securing the radome to the baseplate. Carefully lift the radome straight up until clear of the antenna assembly and set it aside in a safe place.

Figure 2: Coastal Radome Screws



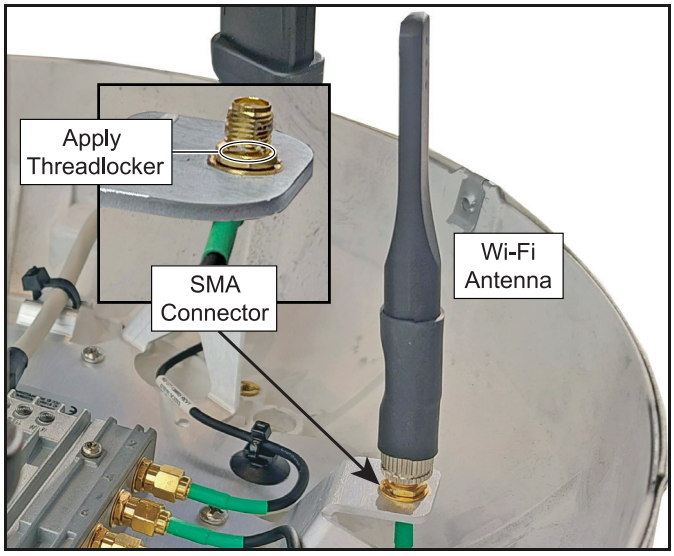
NOTE: If you keep the radome topside, secure it with a lanyard to prevent it from falling overboard. Do not place it on a hot steel deck – the heat may warp the radome.

Replace the Wi-Fi Antenna

IMPORTANT!
If you are unable to determine which Wi-Fi antenna is faulty, simply replace both of them.

1. Unscrew the Wi-Fi antenna from the SMA connector. Hold the SMA connector hex below the sheet metal with a 5/16" or 8 mm open-end wrench to keep it from turning while you remove the antenna.

Figure 3: Wi-Fi Antenna and SMA Connector (Example)



2. Clean the threads of the SMA connector with a rag to remove the old threadlocker.
3. Make sure the nut securing the SMA connector has not loosened. If it has, apply a small amount of the supplied threadlocker to the nut and tighten it to 20-24 in-lbs of torque.
4. Apply threadlocker to the SMA connector's threads, starting two threads down from the top and covering at least the next three threads. Take care not to get any threadlocker inside the connector body.
5. While holding the SMA connector hex below the sheet metal to keep it from turning, screw the new Wi-Fi antenna onto the SMA connector. Tighten to 10-13 in-lbs of torque (or hand-tighten plus 1/4 turn with pliers).
6. Inspect the inside of the antenna to make sure you have not left any tools inside.
7. Reinstall the radome onto the antenna and secure it with new #8-32 screws. Tighten to 5 in-lbs of torque.
8. Reconnect power to the system and test it for normal operation. If the problem persists, contact KVH Technical Support. The procedure is complete!