

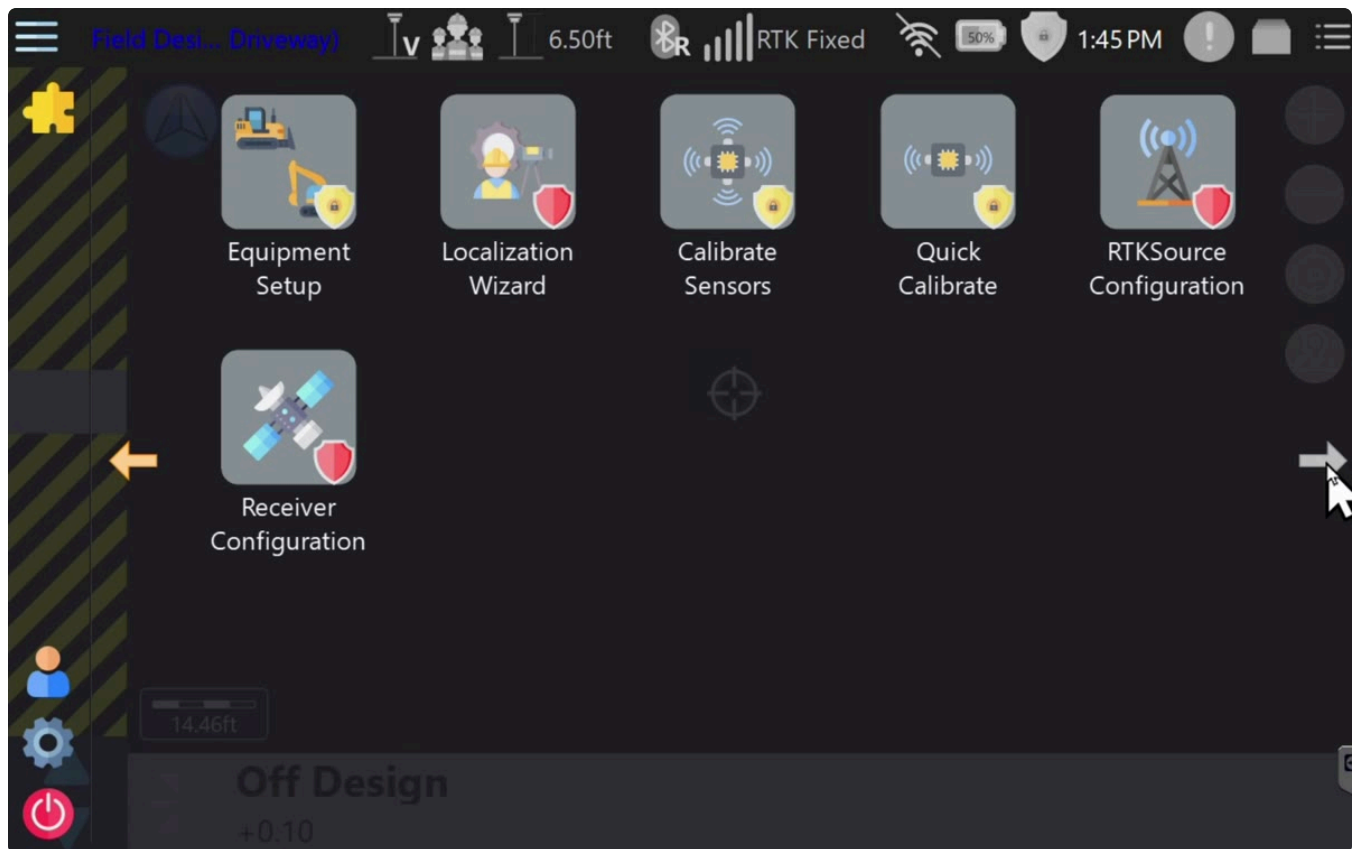
SMG + GM 6: RTK Source Configuration

Oct 20, 2026 · @Johan

RTK Source Configuration sets where the machine gets RTK corrections: a cellular caster (**NTRIP**), the receiver's **Internal** radio, or an **External** radio. This guide follows the 6-minute training video "SMG + GM 6: RTK Source Configuration".

Open RTK Source Configuration

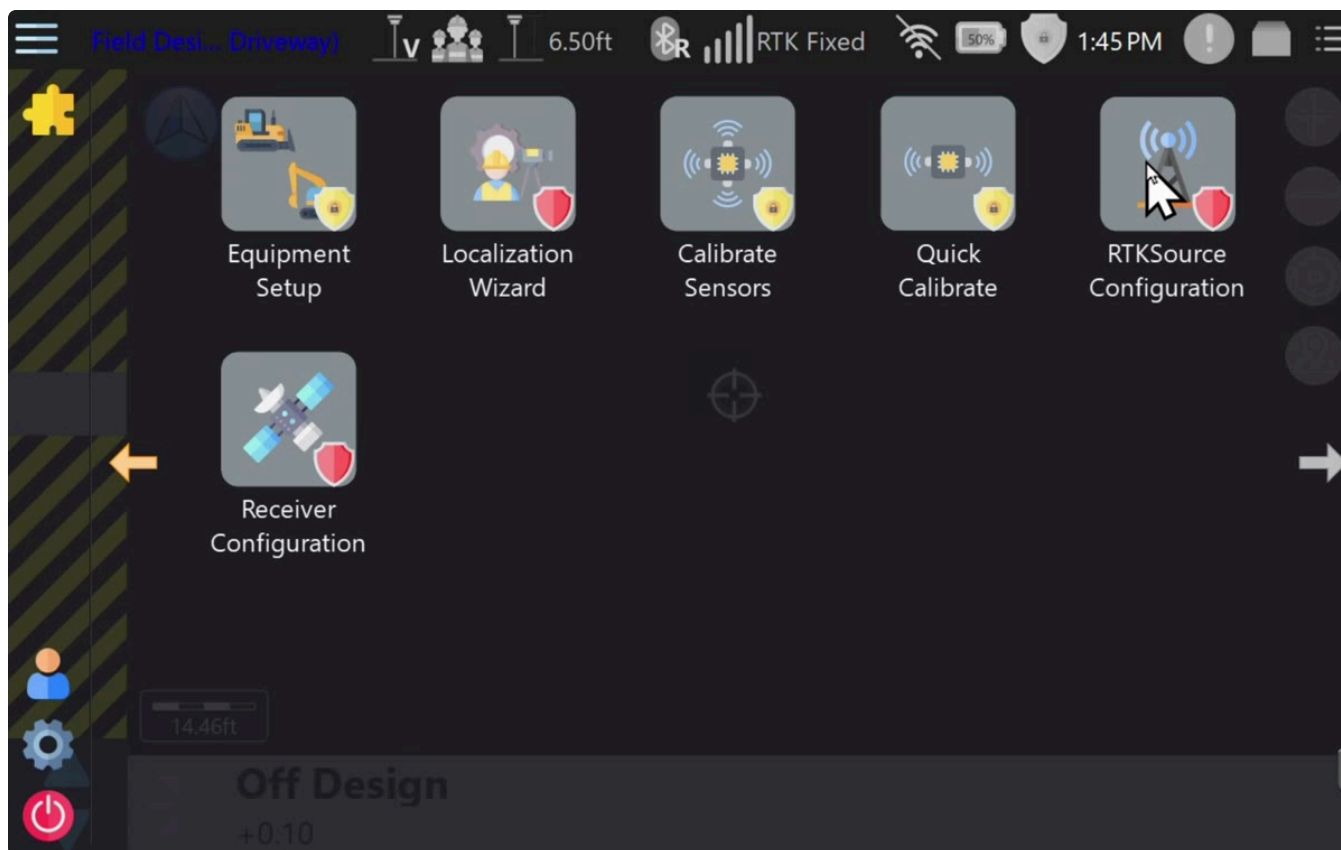
Open the Main Menu, tap the right arrow to go to the second screen, and tap **RTKSource Configuration**.



The three sources are listed on the left. Tap **OK** to save or **Cancel** to leave without changes.

Internal radio

The **Internal** tab has three pages: Basic, Channel and Call Sign.



Basic. The radio's serial number (SN) and firmware version are shown at the top.

1. Tap **Channel** and choose the channel the base station uses. Its receive frequency and bandwidth appear beside it.

Field Desi... Driveway) 6.50ft RTK Fixed 49% 1:46 PM

NTRIP Settings

NTRIP Client: GradeMetrix

APN Name:

APN Username:

APN Password:

☒ GradeMetrix
☐ Receiver

☒ Cancel

Ok Cancel

2. Tap **Protocol** and match the base: Satel-4FSK, PacCrest-4FSK, TrimTalk-GMSK or PacCrest-GMSK.

Field Desi... Driveway) 6.50ft RTK Fixed 49% 1:48 PM

RTK Configuration

☒ NTRIP ☒ Internal ☐ External

☒ Basic ☐ Channel ☐ Call Sign

SN: 2118000388
Version: V07.44.2.5

Channel: CH 02

Protocol: Satel-4FSK

FEC: Off

Scrambler: On

☒ Satel-4FSK
☐ PacCrest-4FSK
☒ TrimTalk-GMSK
☐ PacCrest-GMSK

500000 MHz, BW 12.5 kHz

All

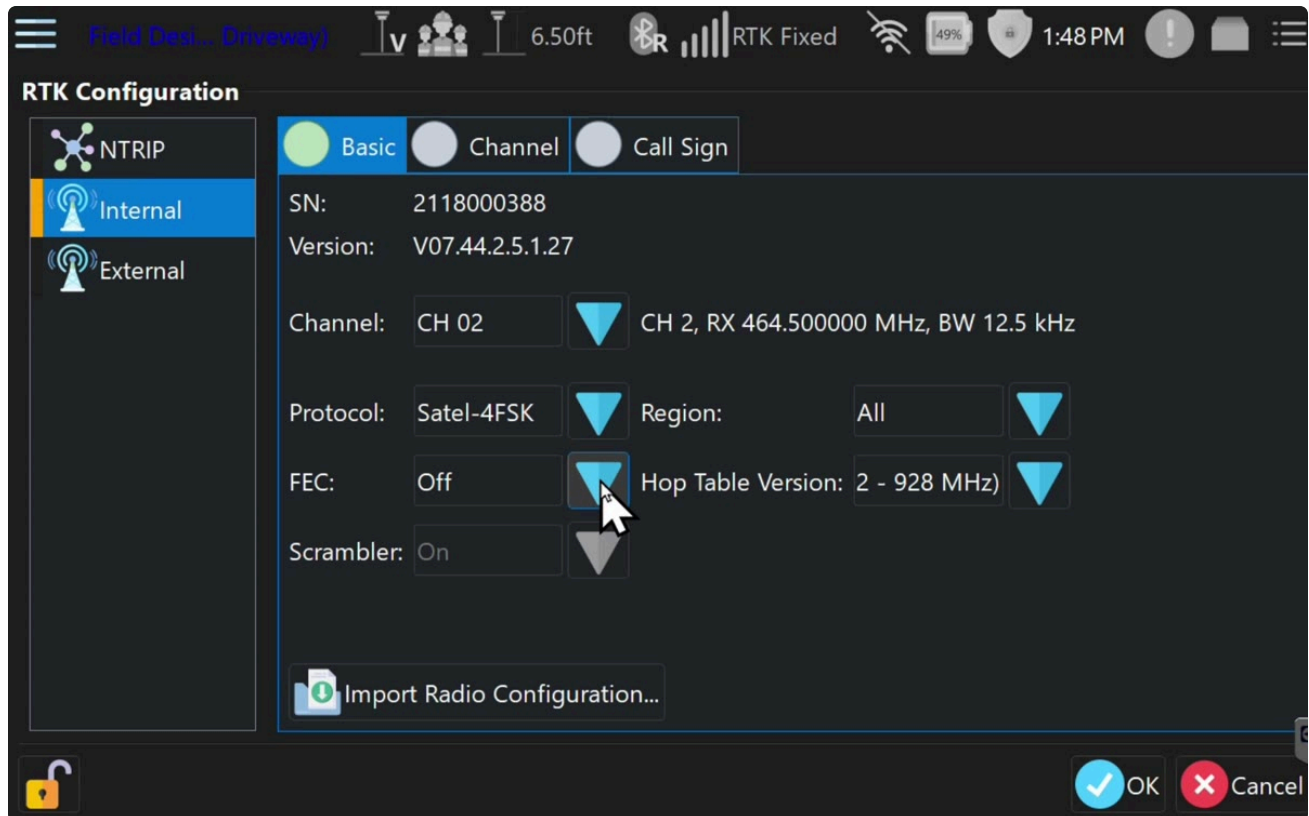
rsion: 2 - 928 MHz)

☒ Cancel

Import Radio Configuration...

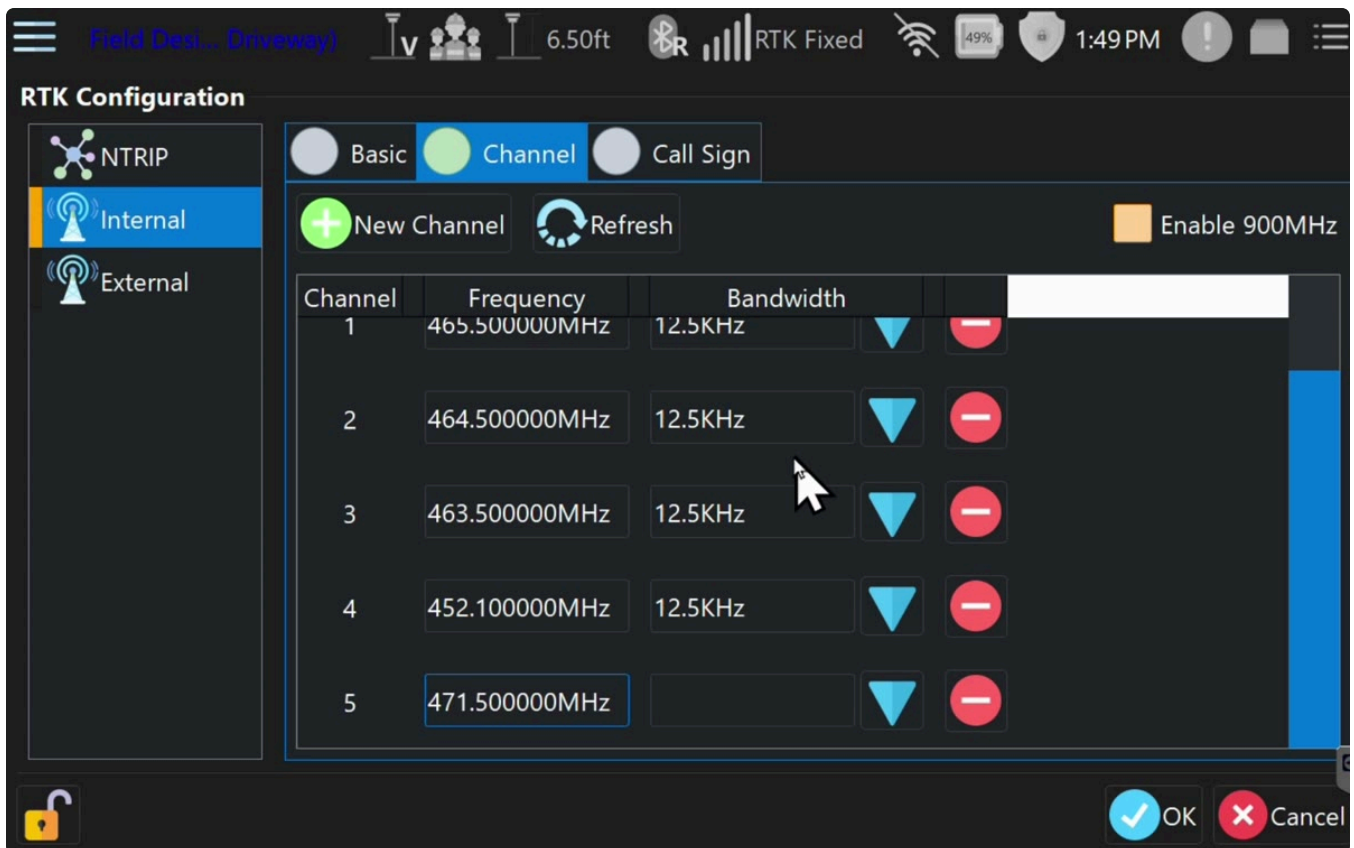
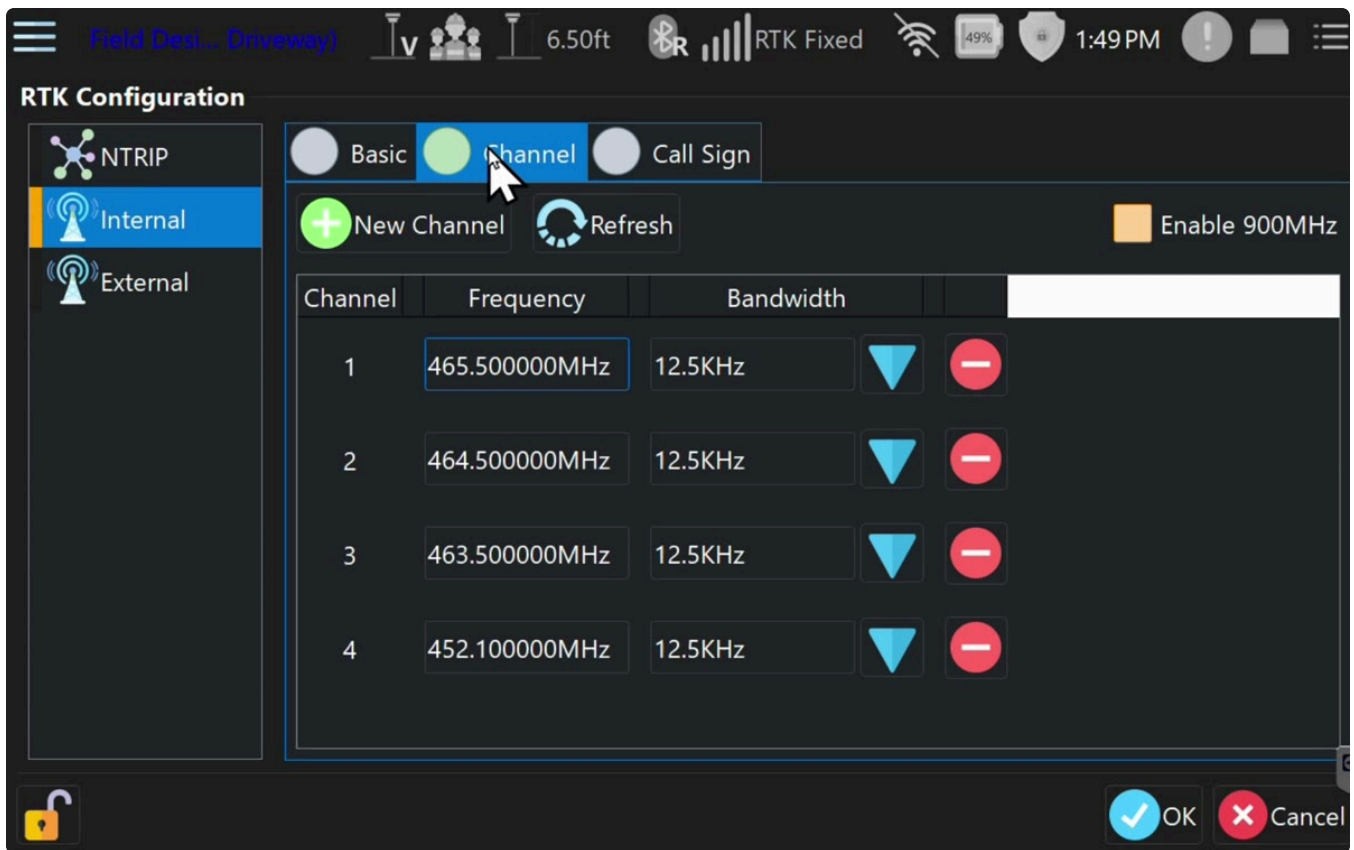
Ok Cancel

3. Set **FEC** On or Off to match the base.

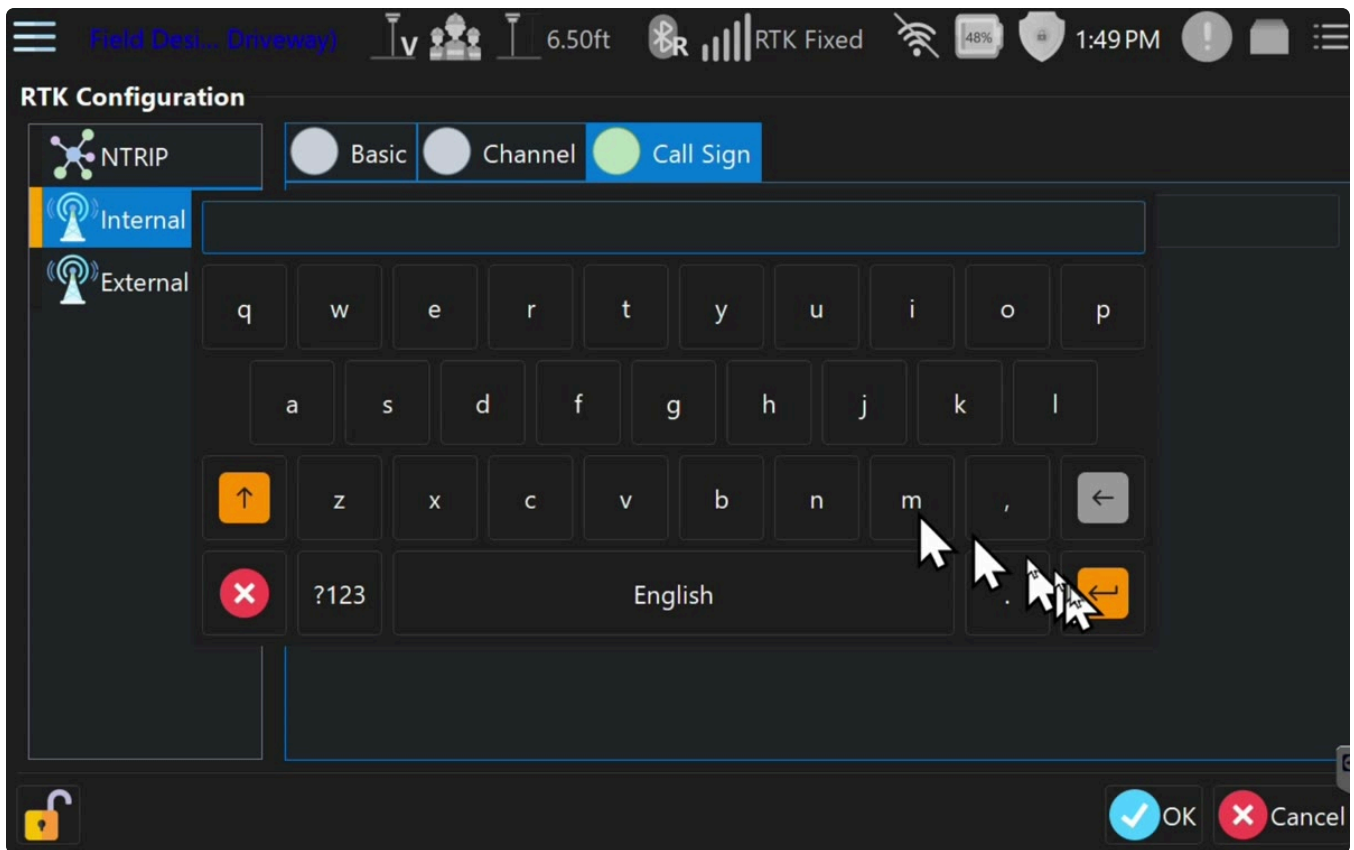


4. **Region** and **Hop Table Version** apply to 900 MHz radios. To load a prepared setup instead, tap **Import Radio Configuration....**

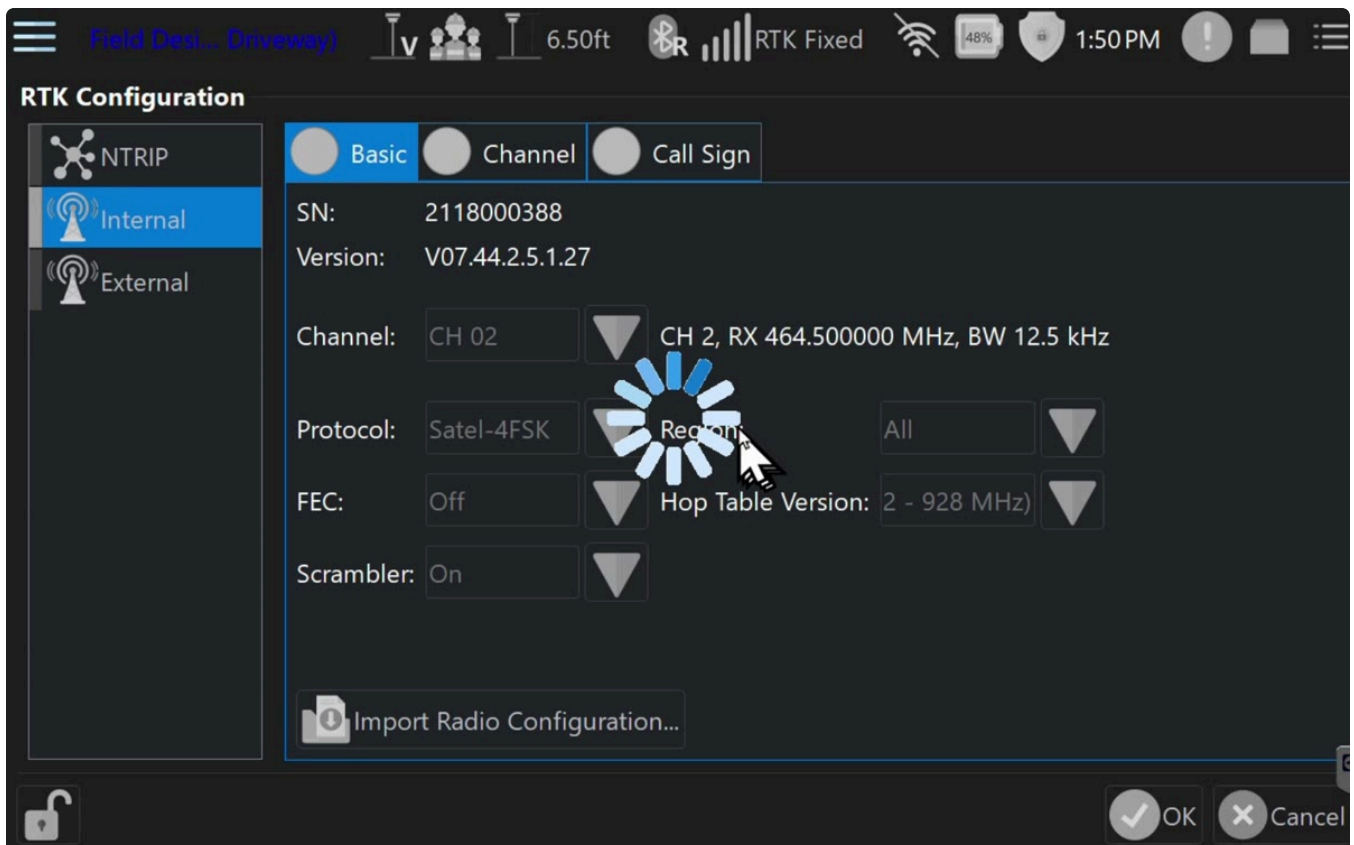
Channel. Each channel has a frequency and a bandwidth (12.5 kHz in the video). Tap **New Channel** to add one and type its frequency; the video adds channel 5 at 471.500 MHz. Tap the red minus to remove a channel. Tick **Enable 900MHz** for a 900 MHz radio.



Call Sign. Enter the call sign in **Message**, then tick **Send call sign every** and set the interval if your radio license requires it.



Tap **OK**. The settings are sent to the radio.



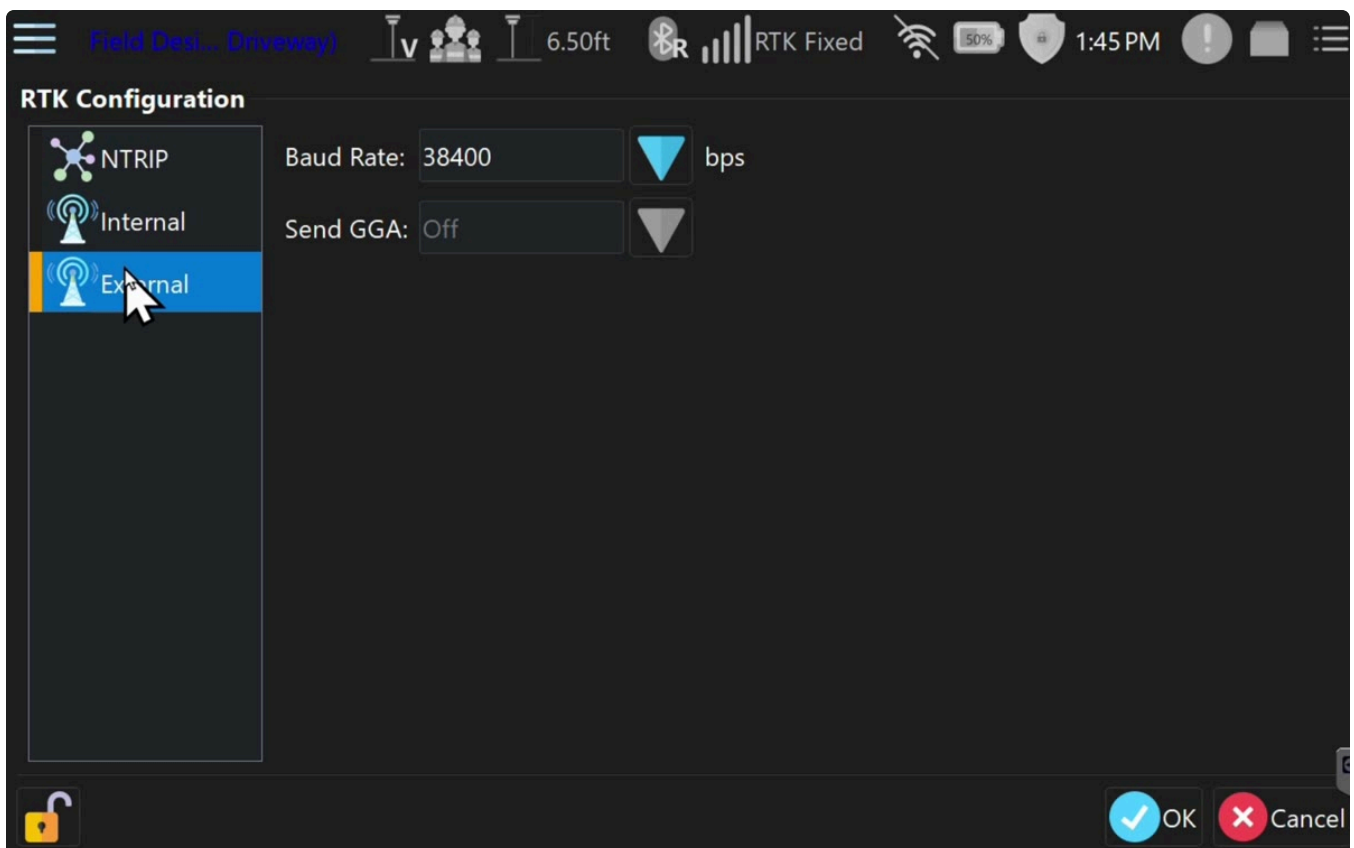
External radio

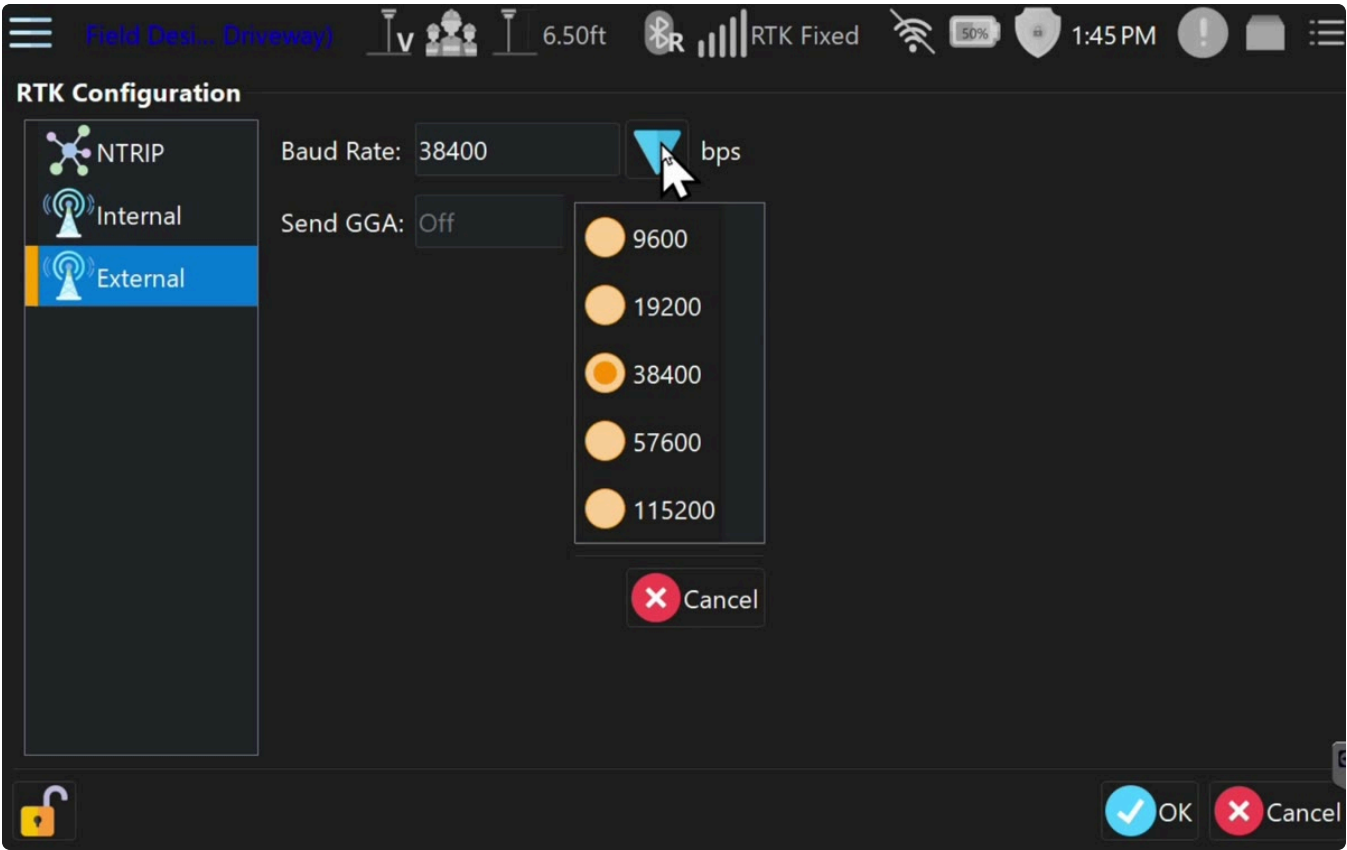
An external radio connects to the receiver through a serial cable, such as the C631 power cable (serial/receiver).

0180-0	C631 POWER CABLE (SERIAL/RCVR)	



On the **External** tab, set the **Baud Rate** to match the radio: 9600, 19200, 38400, 57600 or 115200 bps. The video uses 38400.





NTRIP

RTK Configuration

☒ Basic
 ☐ Channel
 ☐ Call Sign

SN: 2118000388
 Version: V07.44.2.5.1.27

Channel: CH 02 CH 2, RX 464.500000 MHz, BW 12.5 kHz

Protocol: Satel-4FSK Region: All

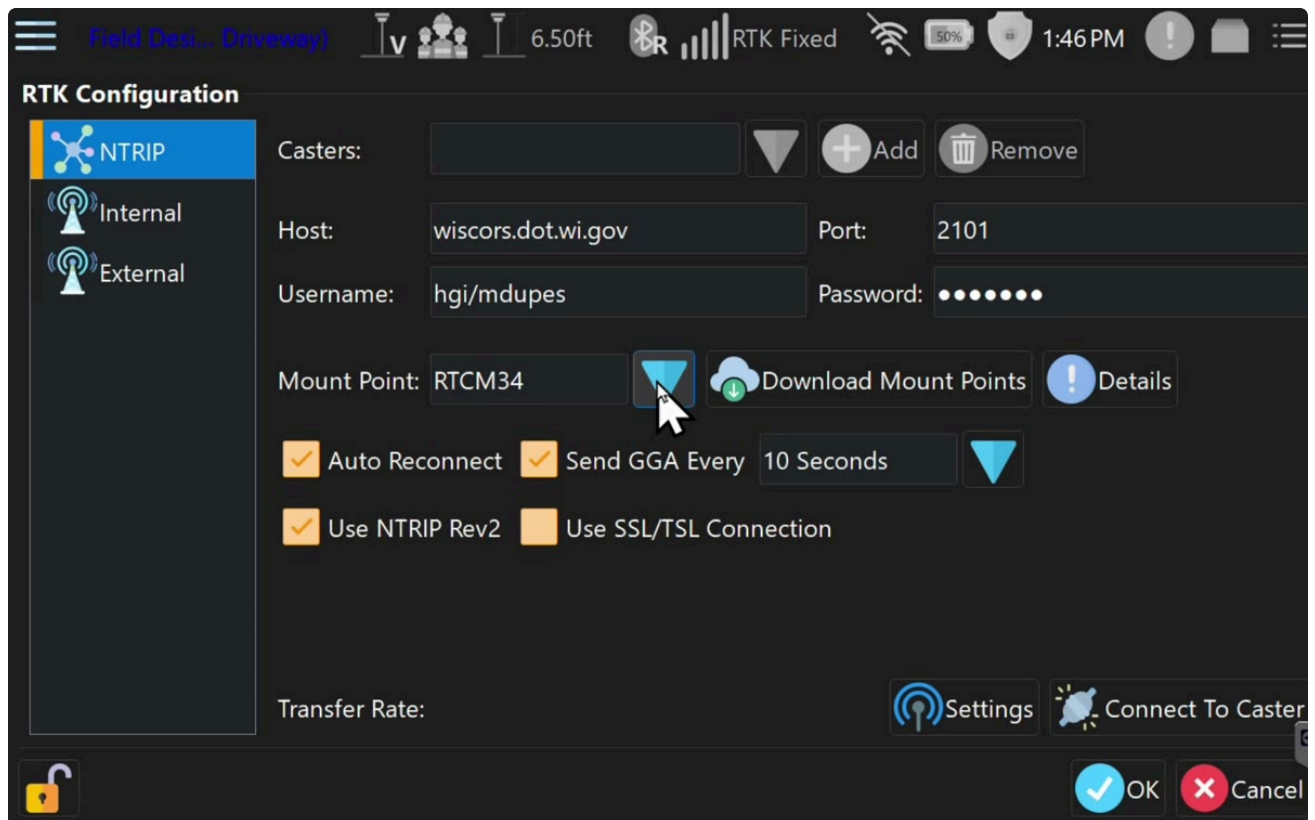
FEC: Off Hop Table Version: 2 - 928 MHz)

Scrambler: On

Import Radio Configuration...

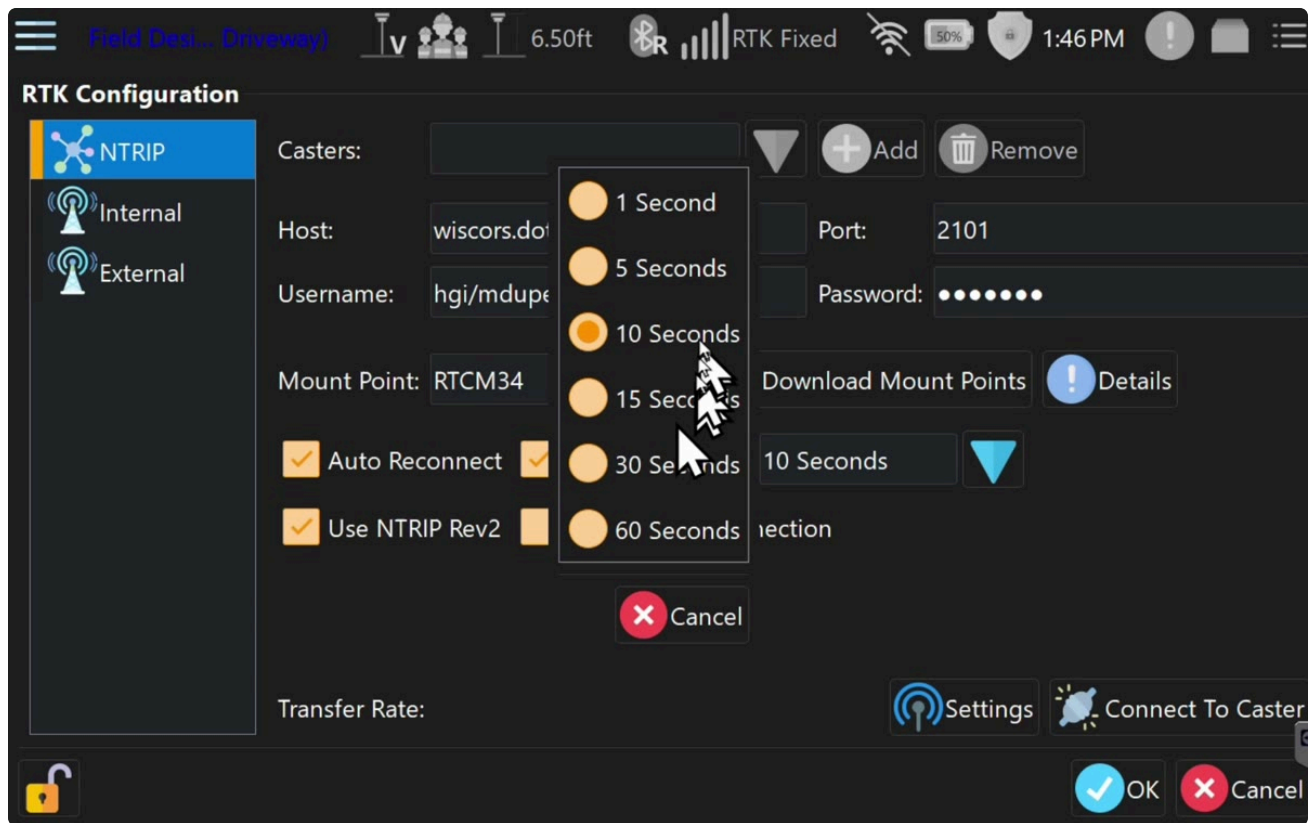
OK Cancel

1. Pick a saved caster from **Casters**, or enter a new one: **Host**, **Port**, **Username** and **Password** from your correction provider. Tap **Add** to save it.
2. Tap **Download Mount Points**, then choose a **Mount Point** from the list. The video uses RTCM34.



3. Tick the options you need:

- **Auto Reconnect** restores the connection if it drops.
- **Send GGA Every** sends the machine's position to the caster at the set interval (1 to 60 seconds; 10 in the video).
- **Use NTRIP Rev2** and **Use SSL/TSL Connection** as your provider requires.



4. Tap **Settings** to choose the **NTRIP Client**, GradeMetrix or Receiver, and enter the APN details for the cellular modem if needed.

Image — NTRIP Settings

5. Tap **Connect To Caster**. **Transfer Rate** shows data arriving once connected.