

Creating new instrument profile for GNSS Rover

Notebook: Xpad
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Author: Service Hitechniques
Tags: Configuration, GNSS, Instrument Profile, NTRIP, Rover, Ultimate, Xpad, X-PAD, Xpad Ultimate

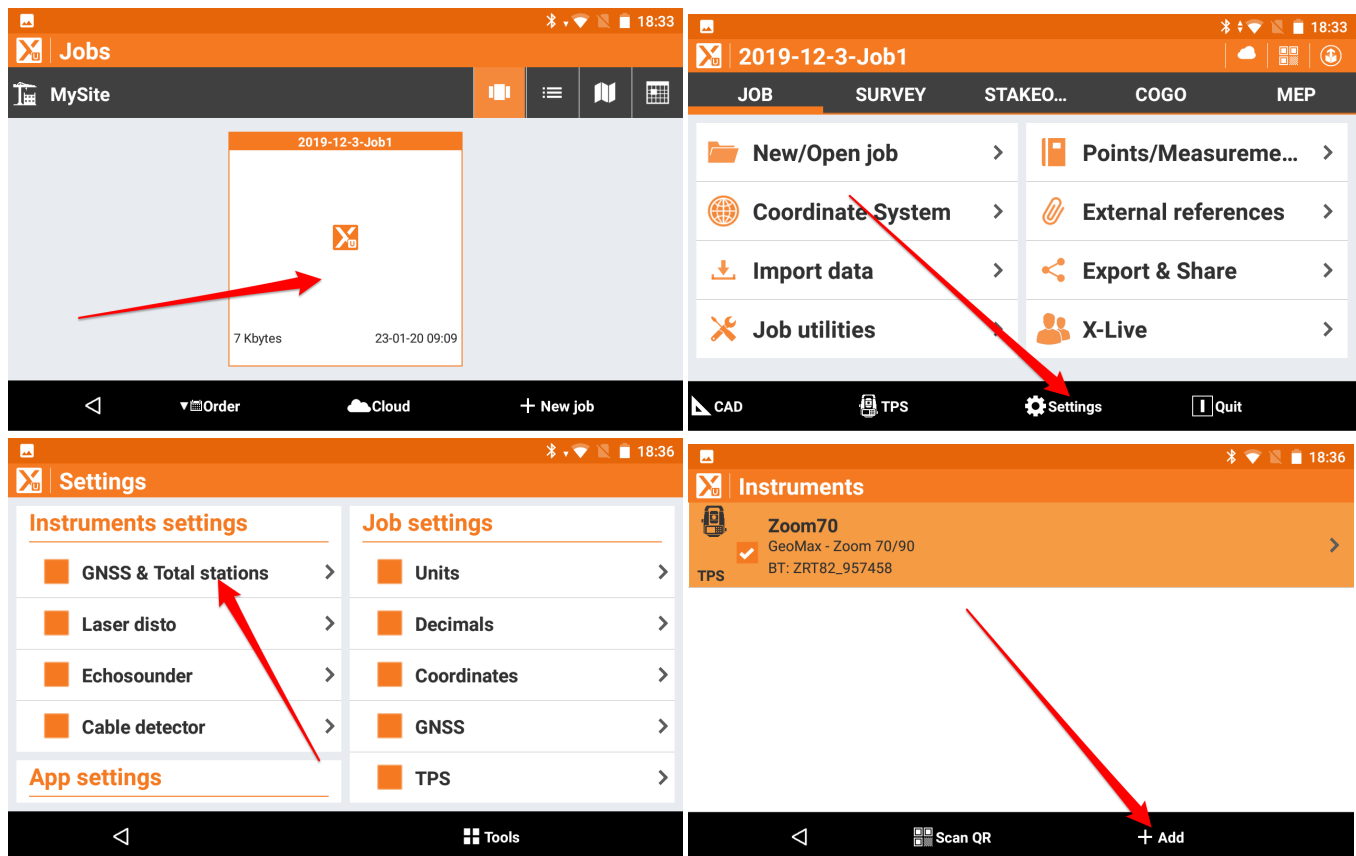
Creating new instrument profile for GNSS Rover

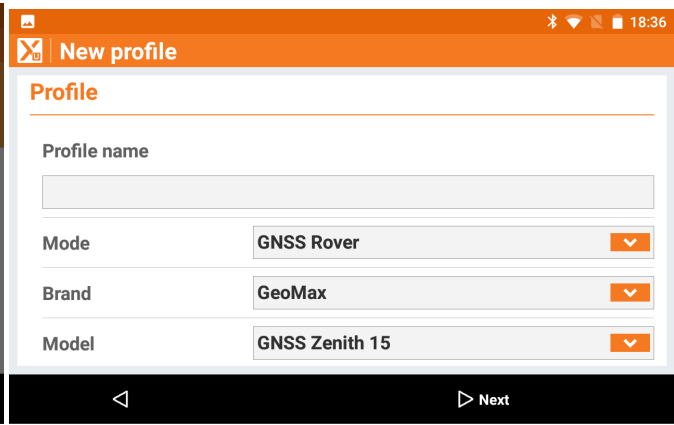
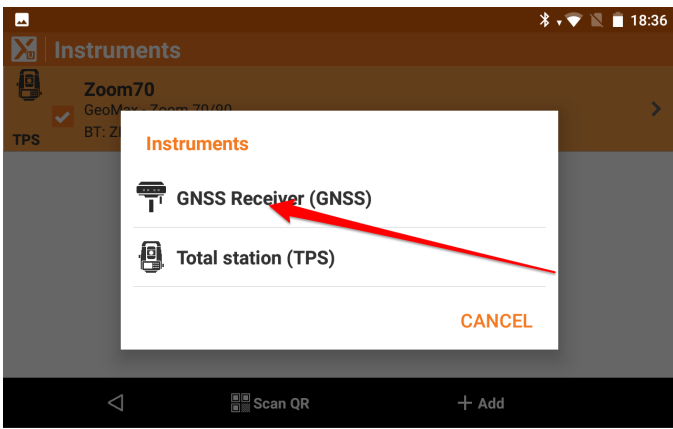
Updated: 20200510_DL - update to the RTK section
Updated: 20200416_DL - updated tables content
Created: 20200129_DL

How to create new profile for your GNSS Rover (Zenith35Pro example)

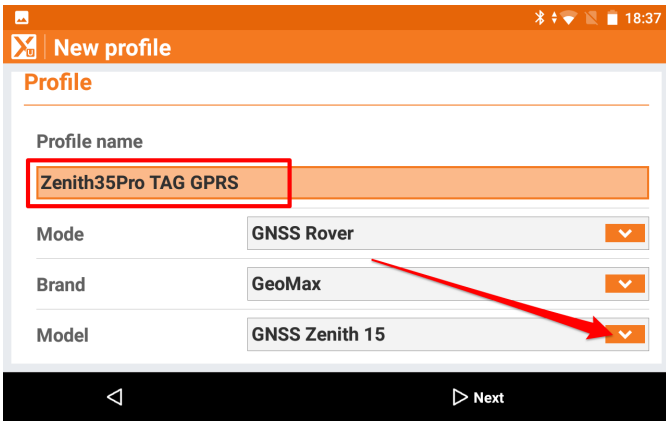
X-Pad Ultimate allows to use different channels to stream the corrections to the GNSS Rover. It is good to have two different profiles for your rover: one for internal GSM (GPRS) module in the rover and another for tablet internet (the source of the internet in the second case is not important, it can be WiFi or WWAN).

To create the profile for internal GPRS (Rover with SIM card):
Run X-PAD > Open any/new job > Follow screenshots below

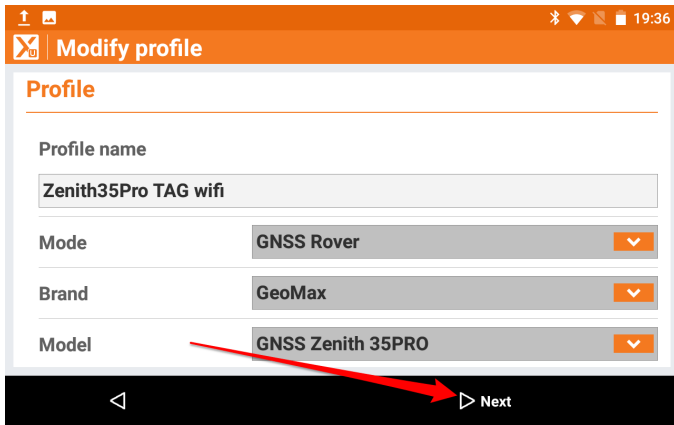
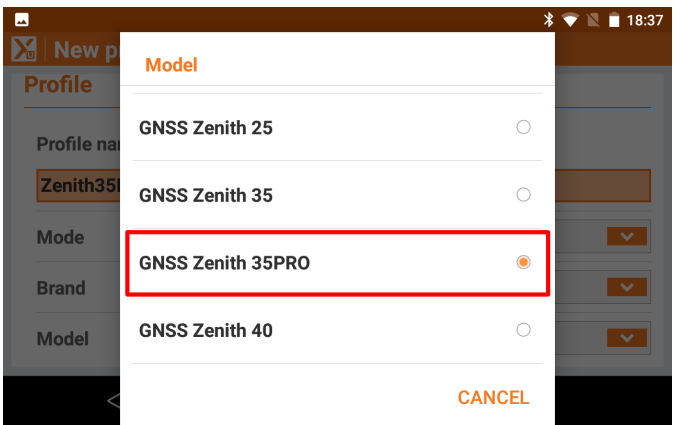




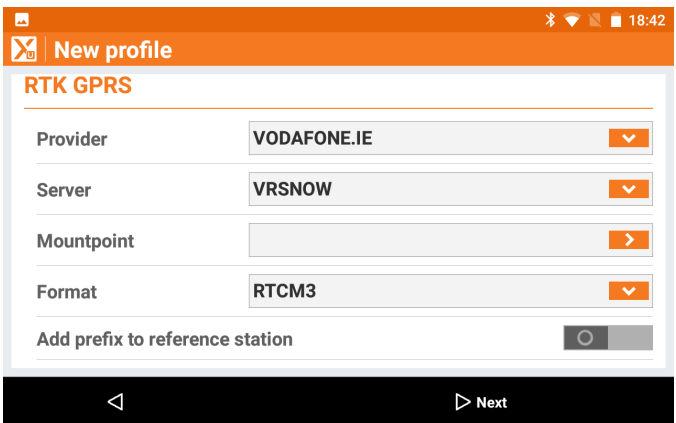
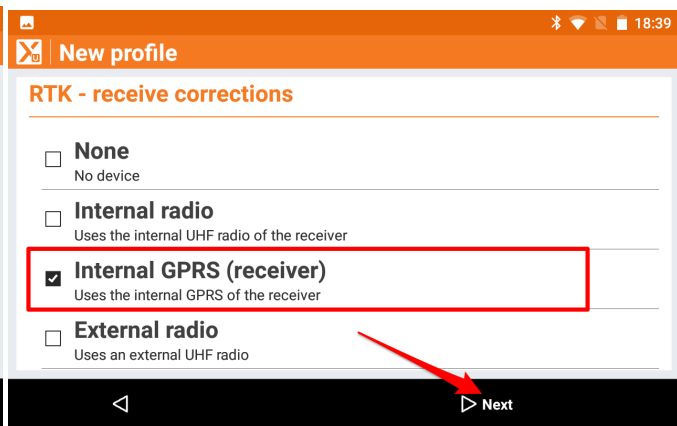
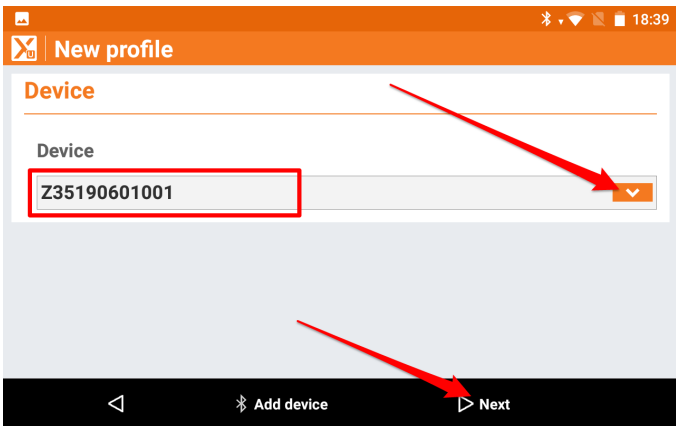
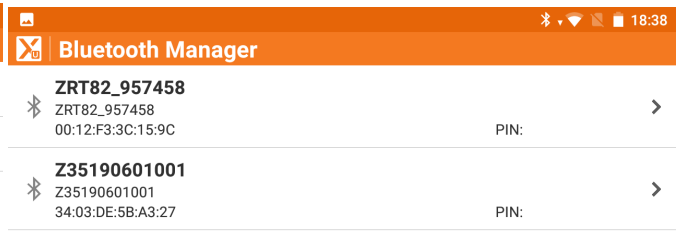
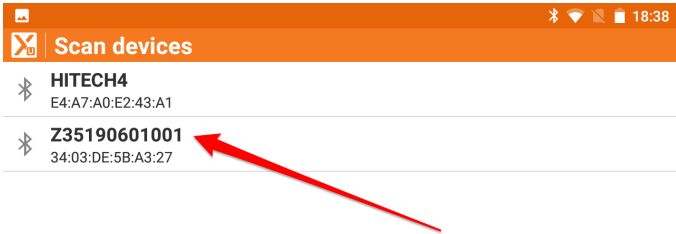
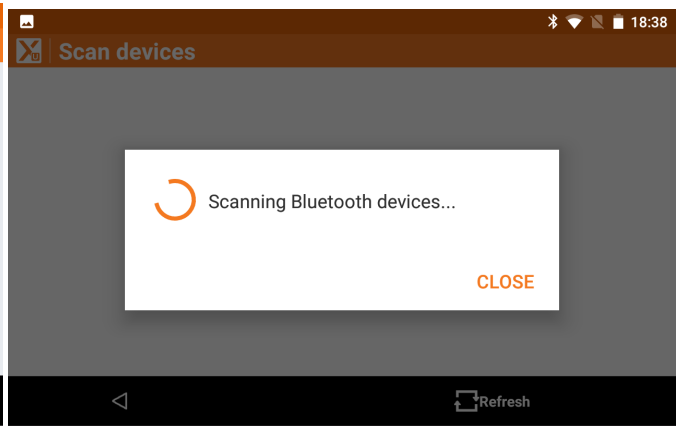
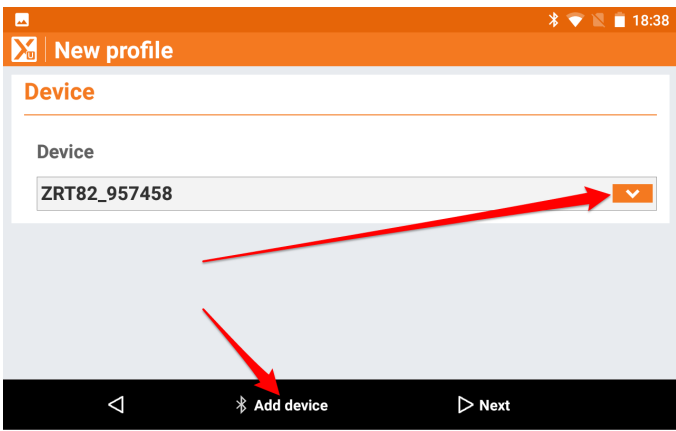
Name your profile.



Note the model is **Zenith35PRO** not ordinary Zenith35



If your rover is not on the list (it appears as a serial number of your rover) search for new device. **Your rover has to be switched on.**



Skip this section if your X-PAD has been already configured for other rover and already has proper Provider and Server configuration. In this case you can go to the NTRIP configuration part (starting with Mountpoint).

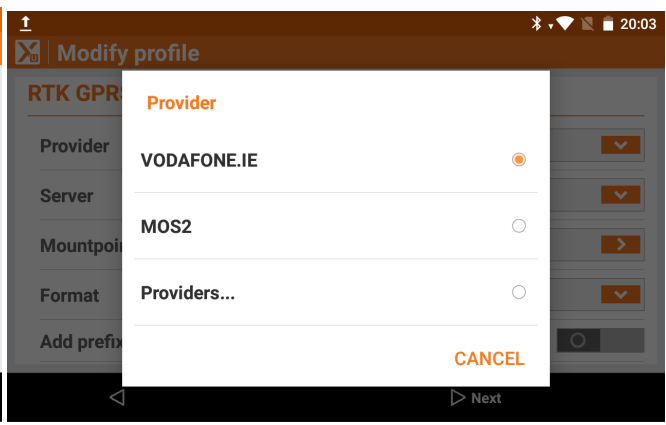
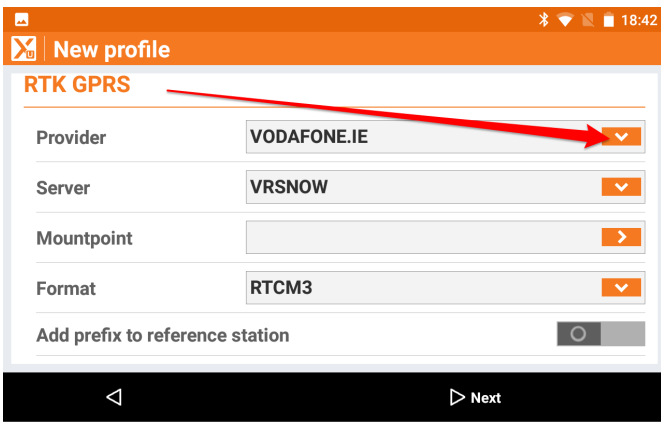
Follow the steps below to set up RTK settings. Prepare: your SIM card provider APN name, APN user name, APN password, your RTK corrections provider: IP/URL, port, user name and password. If possible try to not use PIN code for SIM card.

Most usual settings (please confirm with your mobile internet service provider):

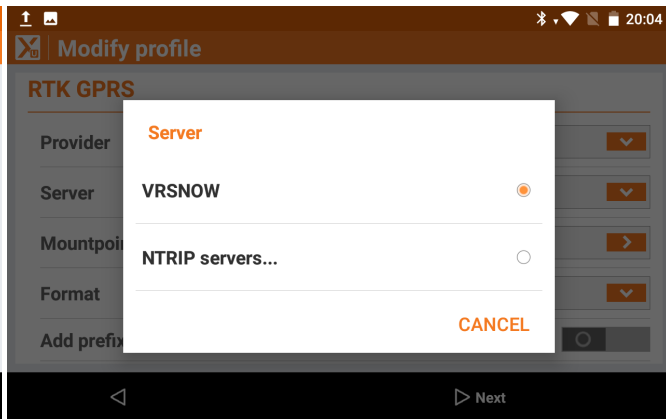
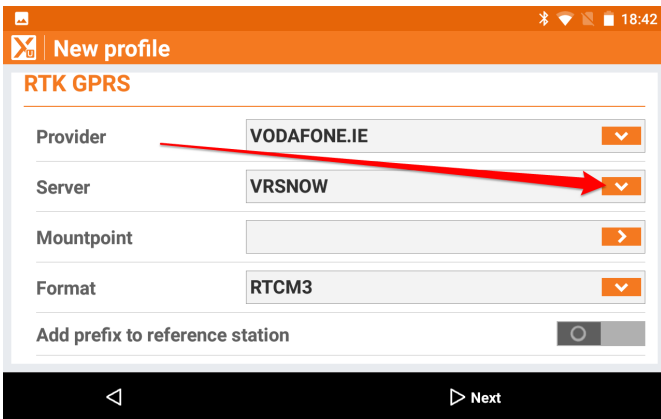
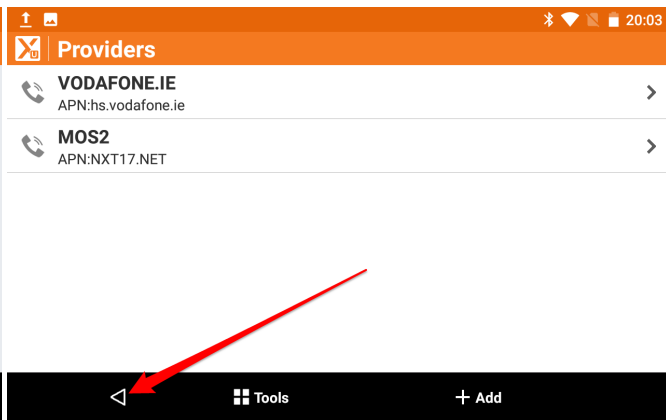
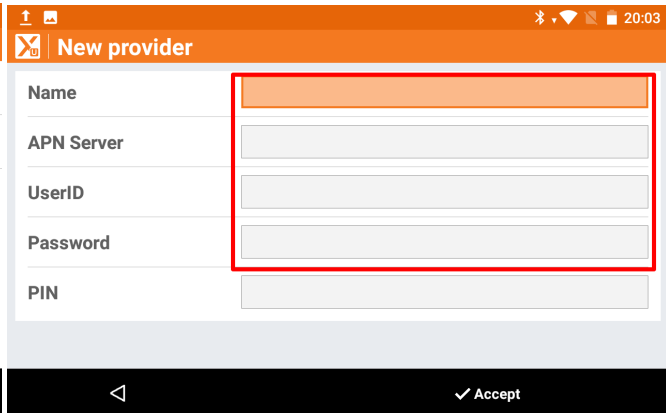
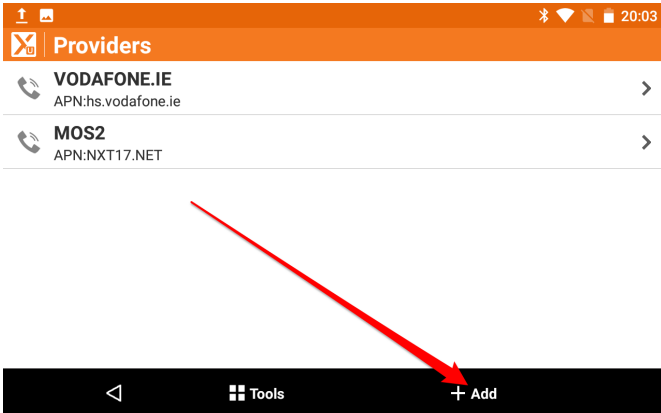
Provider	VRSnow	SmartNET	Carlson	TopNET Live
IP	82.135.20.213 52.58.139.127 (alternative emergency server, use only when Trimble main server is down) vrsnow.ie	69.64.185.110 ie.nrtk.eu	79.125.126.100	88.86.116.1 rtk.topnetlive.com
Port	2101	7801	2204	2101
Source	15_TV_N_RTCM_31	VRS-RTCM3	IRELAND_NET_RTK	NET_RTCM3 AUTO RTK_RTCM3

Settings for selected Mobile Internet providers

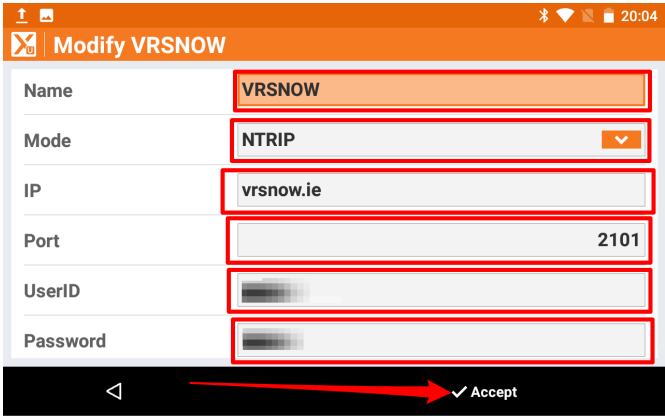
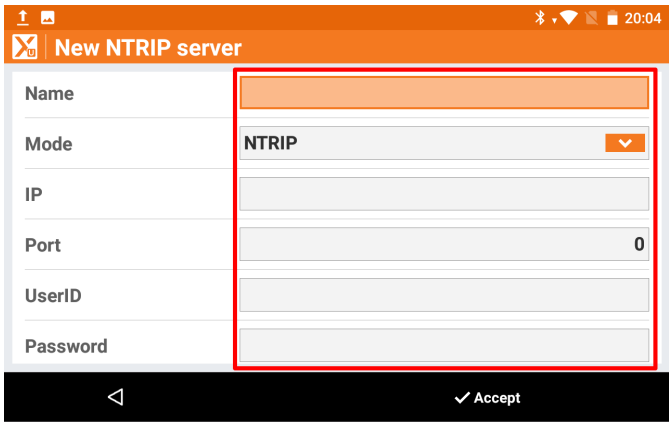
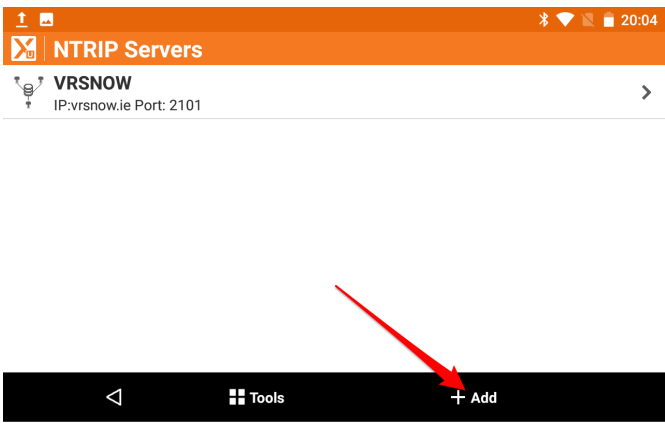
Provider	APN	user	password	Service type	Balance check no.
Vodafone.ie PAYG	isp.vodafone.ie	vodafone	vodafone	PAYG	1850 204020
Vodafone.ie Contract	hs.vodafone.ie	vodafone	vodafone	Contract	-
Vodafone.ie VSIM	ciot.vodafone.ie	vodafone	vodafone	Contract / VSIM	-
Vodafone.co.uk	pp.vodafone.co.uk	blank	blank	PAYG	+44 3333 048 048
MOS1 (Obsolete)	EM or em	blank	blank	Contract	-
MOS2 (Hitechiques)	NXT17.NET	blank	blank	Contract	-
MOS2 NXT17C.NET	NXT17C.NET	blank	blank	Contract	
Three	internet	blank	blank	Contract / PAYG	
Eir	data.myeirmobile.ie	blank	blank	Contract / PAYG	



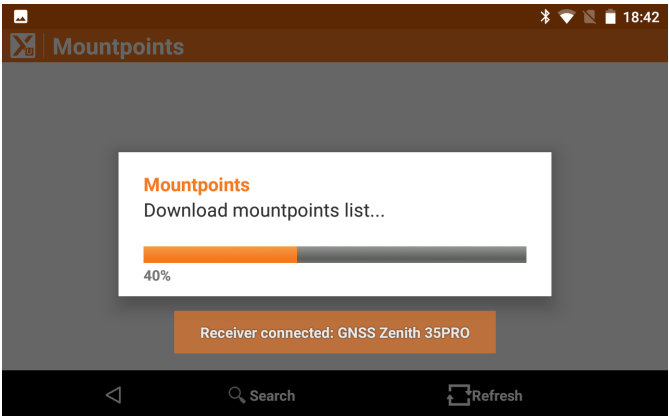
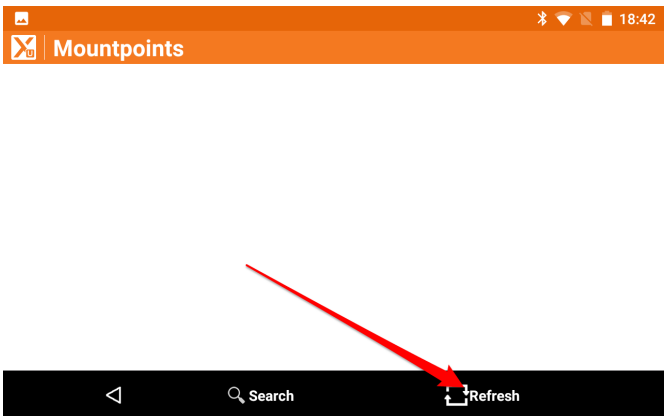
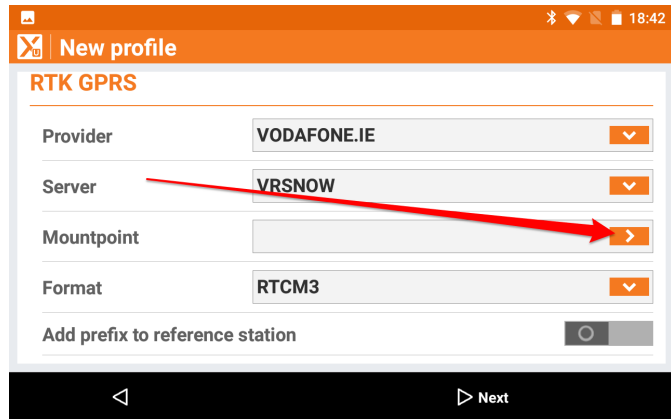
If your provider is not on the list choose **providers** and follow screenshots

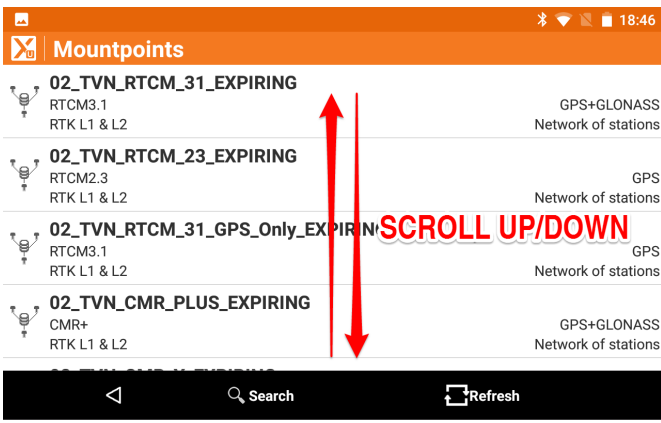


If your server is not on the list choose **NTRIP servers...** and follow screenshots



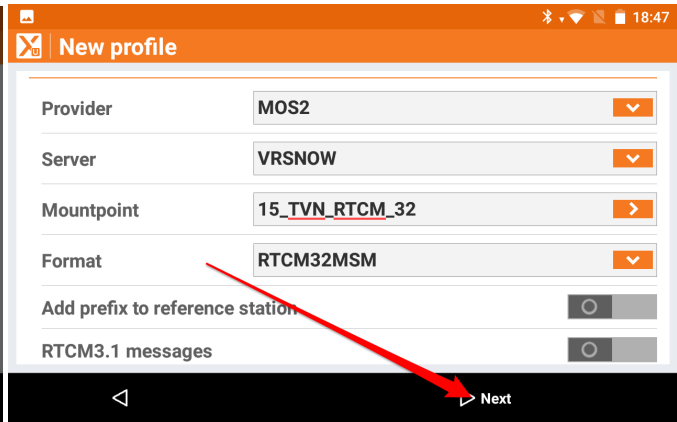
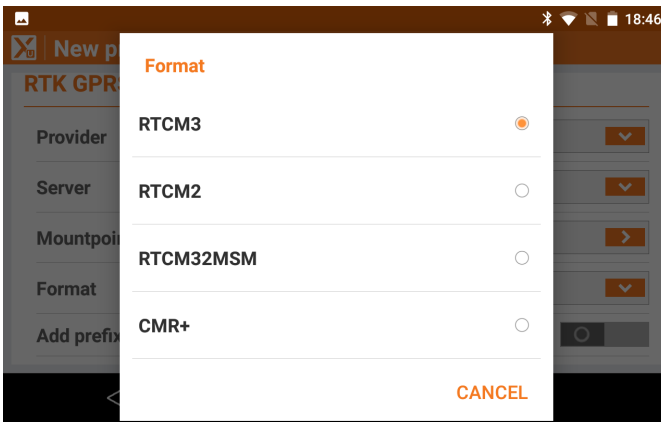
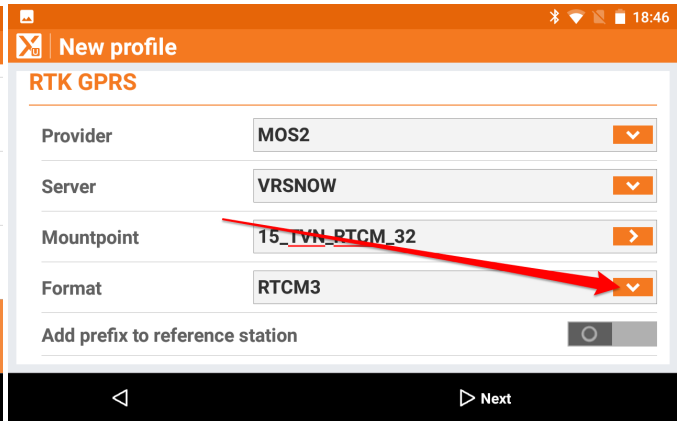
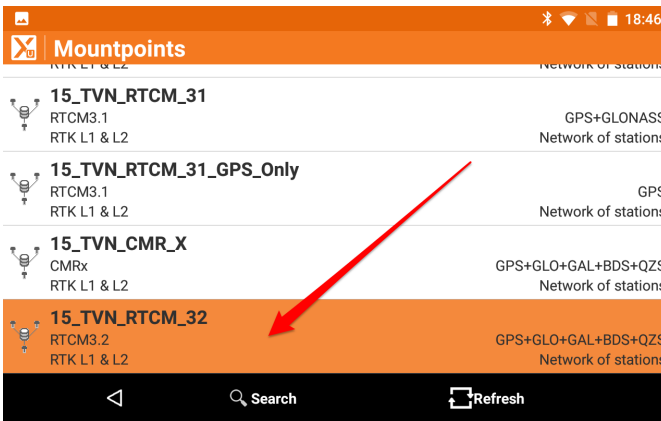
After configuring the Provider and the Server follow the steps below to configure NTRIP.





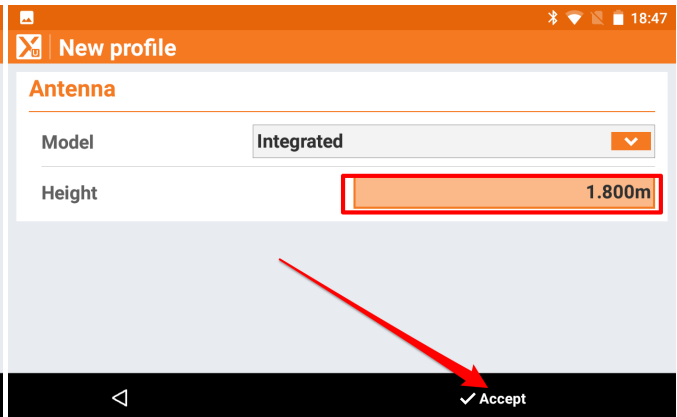
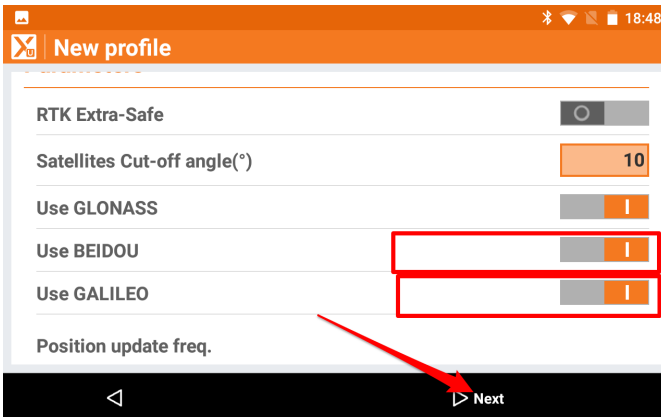
Use 15_TVN_RTCM_31 for GPS/GLONASS corrections (Format RTCM3)

Use 15_TVN_RTCM_32 for GPS/GLONASS/GALILEO/BEIDOU corrections (FORMAT RTCM32MSM)

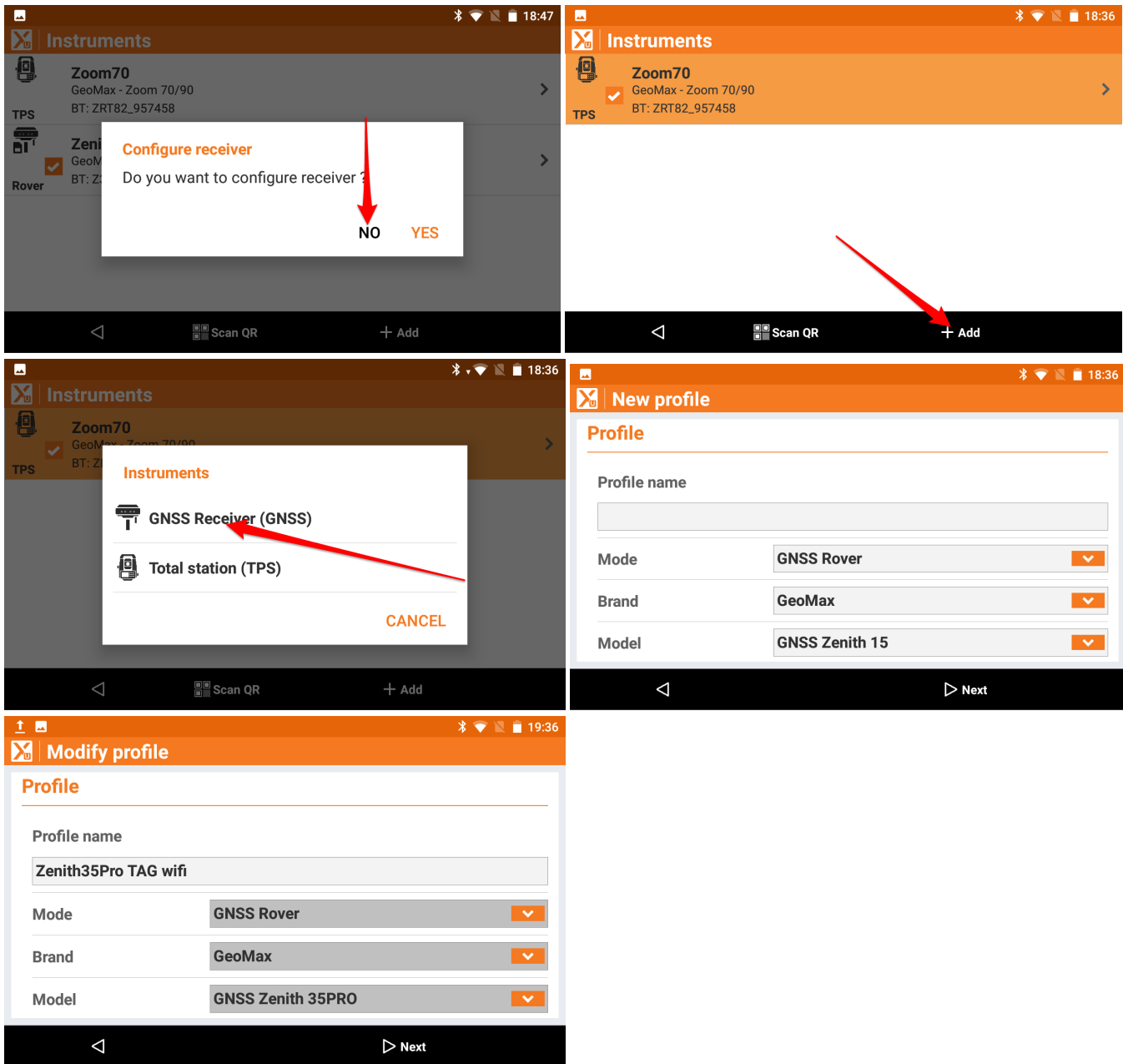


Turn off Beidou and Galileo for 15_TVN_RTCM_31

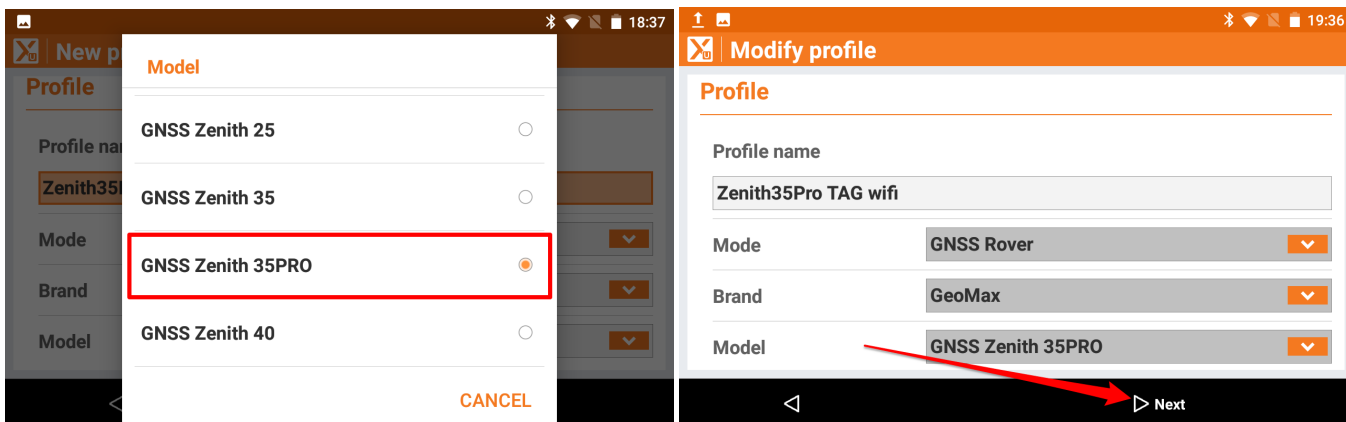
Turn on Beidou and Galileo for 15_TVN_RTCM_32

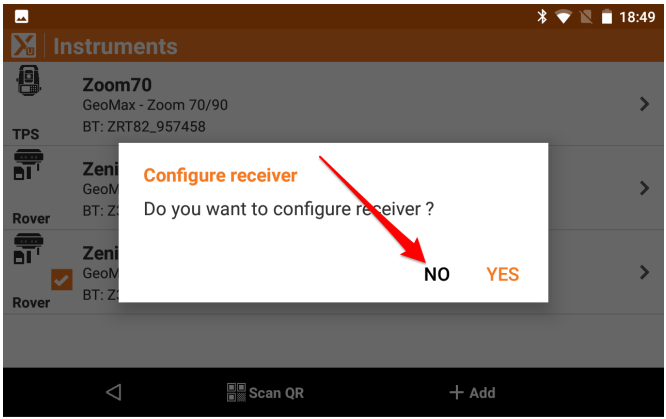
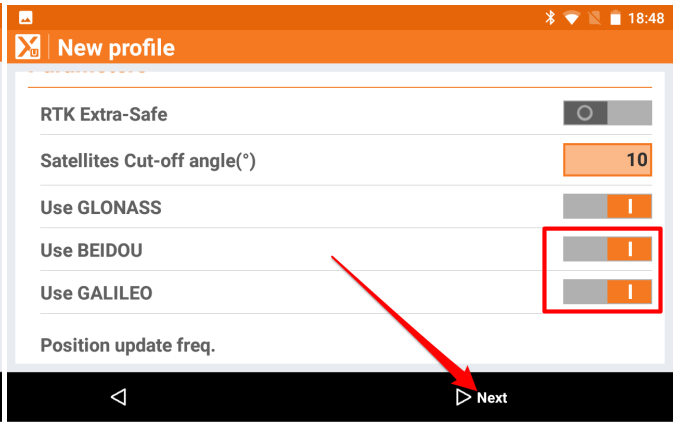
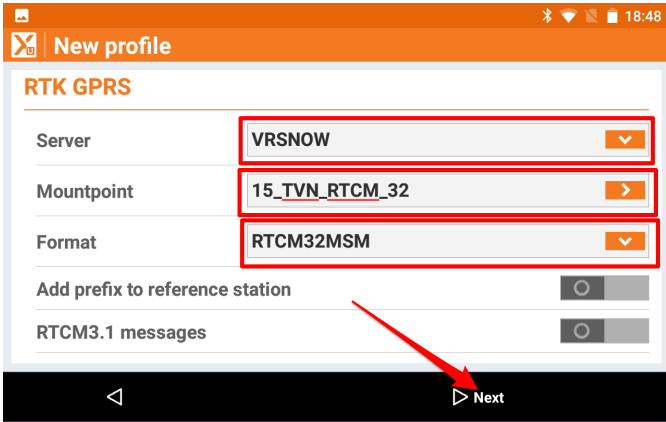
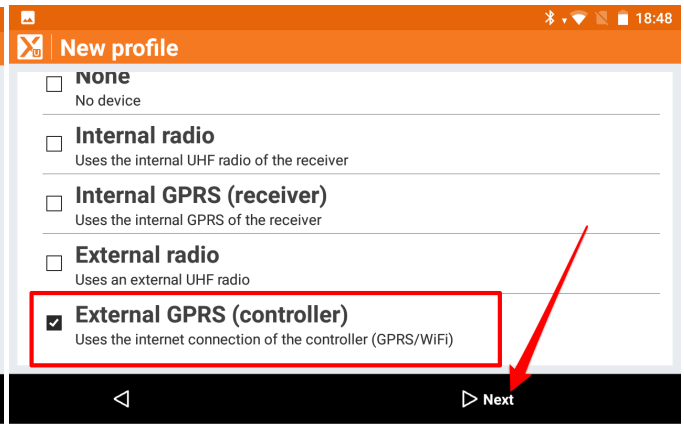
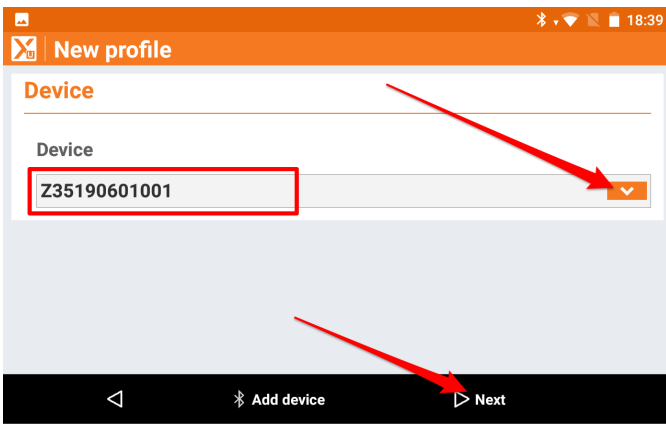


You are going to create the second profile for wifi, so select **NO**

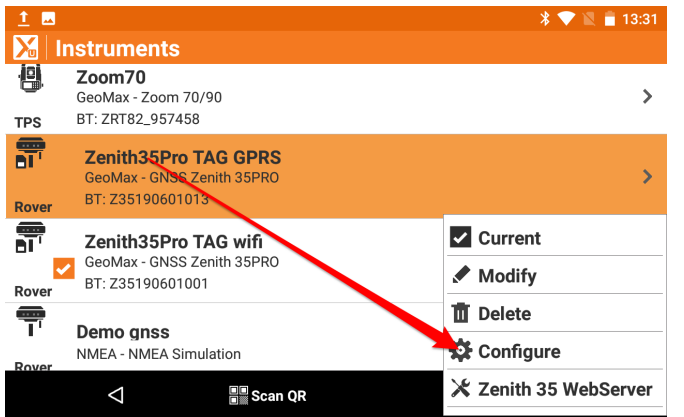
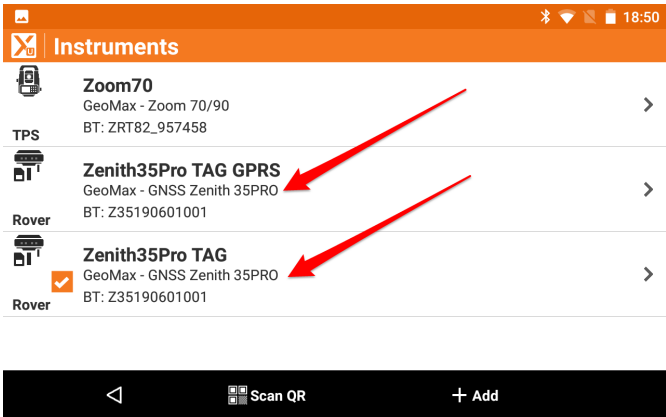


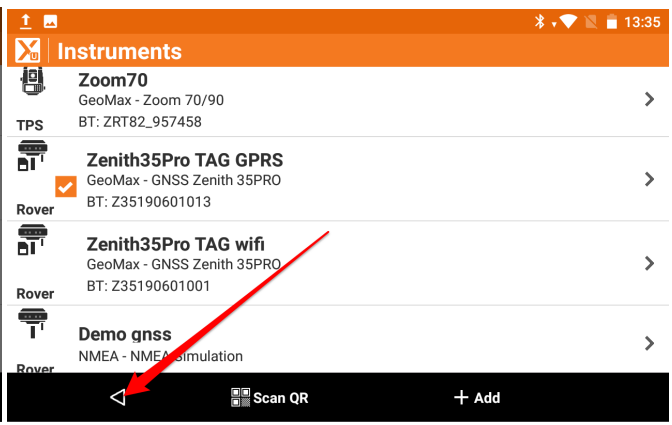
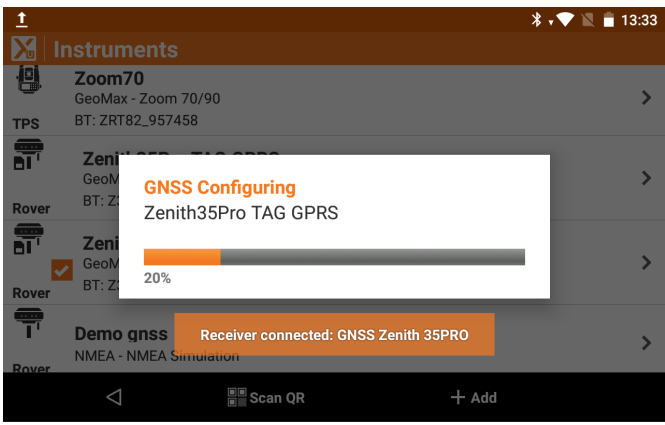
Note the model is **Zenith35PRO** not ordinary Zenith35





Choose the profile you want to work with and select **Configure** from the pop up menu





Your equipment is ready to work now.

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