Leica SmartWorx Viva configuration for SmartNet Multi-GNSS

Introduction
From August 2018, HxGN SmartNet GB offers nationwide GNSS real-time corrections now supporting additionally Galileo and BeiDou satellite constellations.

Pre-requisites:
Corresponding GNSS option(s) licensed on GS receiver eg. Galileo and/or BeiDou

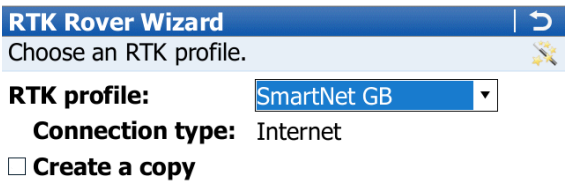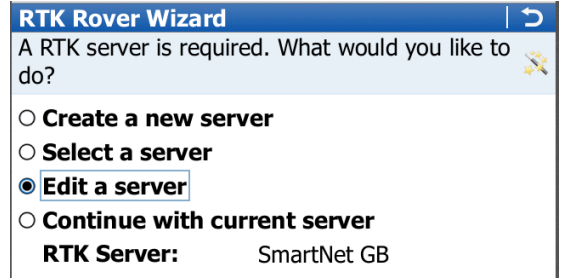| Step	Instruction	Screenshots
1	From the SmartWorx Viva Home screen, open **[4] User** **[5] About Leica Viva** **GS Sensor** tab **scroll down** Ensure **Galileo** and/or **BeiDou** are active or contact your Leica Geosystems supplier to purchase required options	
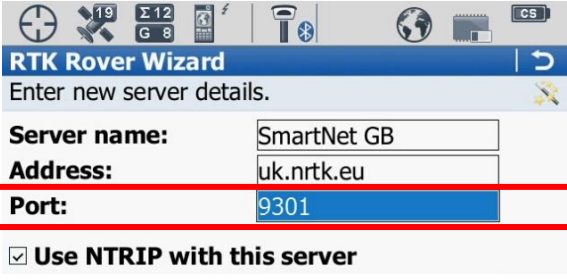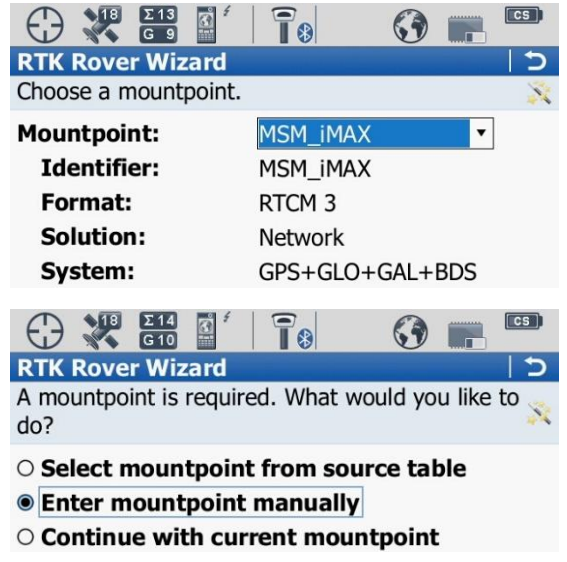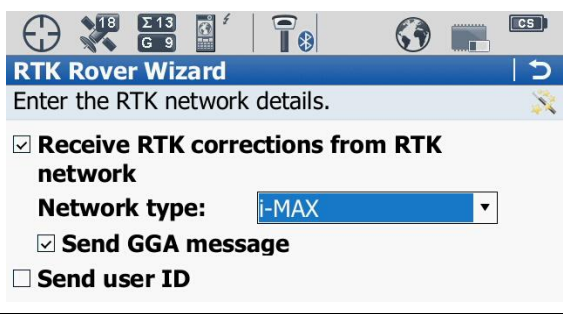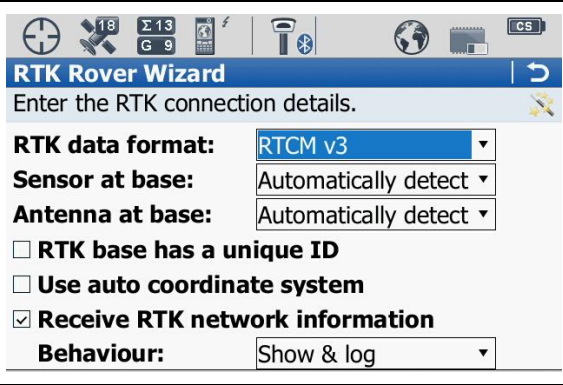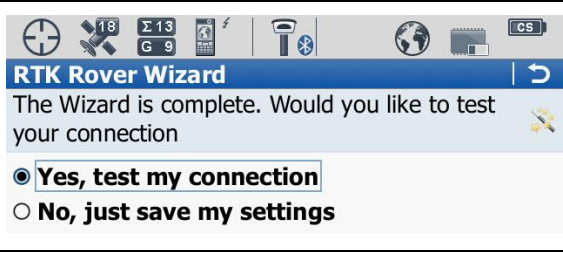
Overview
Change the SmartNet server Port to 9301
Change the SmartNet server Mount Point to MSM_iMAX[1]
Change the SmartNet Reference Network type to i-MAX[1]

Step	Instruction	Screenshots
2	From the SmartWorx Viva Home screen, open **[3] Instrument**	
3	**[1] GPS settings...**	
4	**[1] RTK rover wizard**	
5	Select **Edit an existing profile** and proceed with **[F1] Next**	

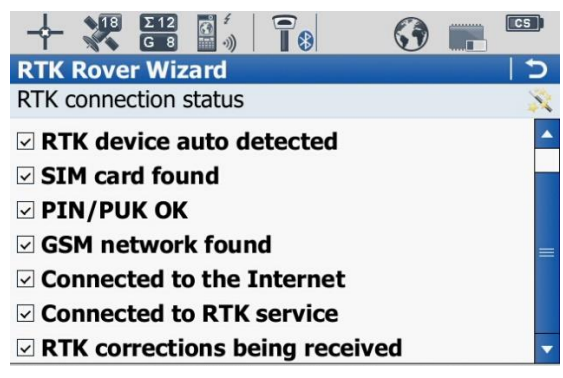|		
6	Select your SmartNet profile. If you have multiple, then you will need to repeat this process for each of them. [F1] **Next**	**RTK Rover Wizard** Choose an RTK profile. **RTK profile:** SmartNet GB ▾ **Connection type:** Internet ☐ **Create a copy**
7	Proceed through the wizard by pressing [F1] **Next**, 7 times to reach the RTK server page	**RTK Rover Wizard** A RTK server is required. What would you like to do? ○ **Create a new server** ○ **Select a server** ◉ **Edit a server** ○ **Continue with current server** **RTK Server:** SmartNet GB
8	Select **Edit a server** and proceed with [F1] **Next**	◉ **Edit a server**
9	Select RTK server to edit and proceed with [F1] **Next**	**RTK Rover Wizard** Choose an RTK Server to edit **RTK Server:** SmartNet GB ▾ **Address:** uk.nrtk.eu **Port:** 7801
10	Edit Port to 9301 and proceed with [F1] **Next**	**RTK Rover Wizard** Enter new server details. **Server name:** SmartNet GB **Address:** uk.nrtk.eu **Port:** 9301 ☑ **Use NTRIP with this server**
11	If connected to the internet, choose **Select mountpoint from source table** and select **MSM_iMAX** and proceed with [F1] **Next** Proceed to step 13 If not connected to the internet, select **Enter mountpoint manually** and proceed with [F1] **Next**	**RTK Rover Wizard** Choose a mountpoint. **Mountpoint:** MSM_iMAX ▾ **Identifier:** MSM_iMAX **Format:** RTCM 3 **Solution:** Network **System:** GPS+GLO+GAL+BDS **RTK Rover Wizard** A mountpoint is required. What would you like to do? ○ **Select mountpoint from source table** ◉ **Enter mountpoint manually** ○ **Continue with current mountpoint**
12	Enter **MSM_iMAX** and proceed with [F1] **Next**	**RTK Rover Wizard** Enter the mountpoint name. **Mountpoint:** MSM_iMAX

- when it has to be **right**

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13	Select the Network type: **i-MAX** (Appropriate to the Mountpoint selected) and proceed with [F1] **Next**	RTK Rover Wizard — Enter the RTK network details. ☑ **Receive RTK corrections from RTK network** **Network type:** i-MAX ☑ **Send GGA message** ☐ **Send user ID**
14	Ensure **RTCM v3** is selected for the RTK data format and proceed with [F1] **Next**	RTK Rover Wizard — Enter the RTK connection details. **RTK data format:** RTCM v3 **Sensor at base:** Automatically detect **Antenna at base:** Automatically detect ☐ **RTK base has a unique ID** ☐ **Use auto coordinate system** ☑ **Receive RTK network information** **Behaviour:** Show & log
15	If connected to the GS receiver and the internet, it is possible to test the connection by selecting **Yes, test my connection** and proceed with [F1] **Next**	RTK Rover Wizard — The Wizard is complete. Would you like to test your connection ⦿ **Yes, test my connection** ○ **No, just save my settings**
16	Observe successful connections resulting in **RTK initialised** (denoted by) (Two ticks signify SmartCheck) and proceed with [F1] **Next**	RTK Rover Wizard — RTK connection status ☑ **RTK device auto detected** ☑ **SIM card found** ☑ **PIN/PUK OK** ☑ **GSM network found** ☑ **Connected to the Internet** ☑ **Connected to RTK service** ☑ **RTK corrections being received**
17	The RTK rover wizard is completed. Optionally disconnect after finishing the wizard. Proceed with [F1] **Finish**	RTK Rover Wizard — RTK rover wizard finished. **You are now receiving RTK corrections** ☐ **Disconnect after finishing wizard** 3DCQ:0.031m 2DCQ:0.016m 1DCQ:0.027m Fn abc 10:09 Finish Back

For subsequent use, connect to SmartNet as usual by **Starting the RTK Stream** and benefit from additional satellites in the service.

[1] Nearest and VRS services are also available.

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