


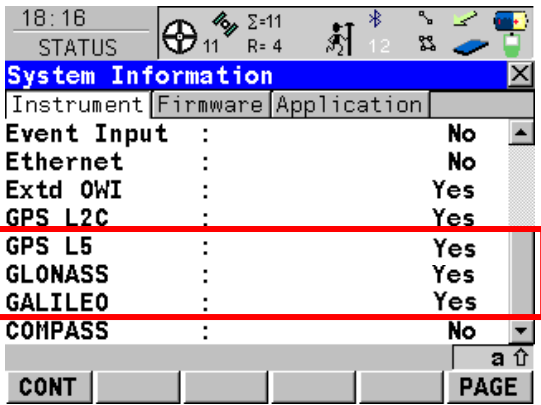
## Leica System 1200 configuration for SmartNet Multi-GNSS

### 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 GPS1200+ receiver eg. Galileo


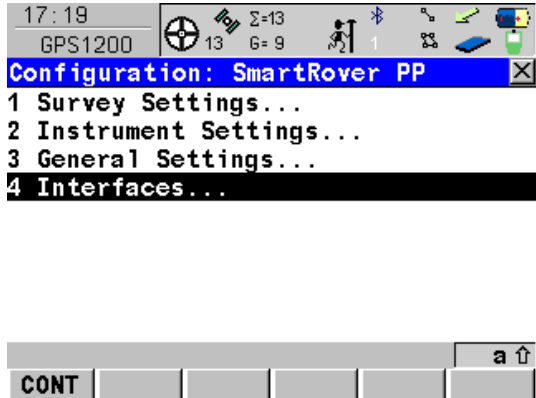
Step	Instruction	Screenshots																
1	Press USER key  [F3] STAT 3 System Information Scroll down on Instrument page [F1] CONT to return to main menu	 <p>The screenshot shows the 'System Information' menu with the following options:</p> <table border="1"> <tr><td>Event Input</td><td>No</td></tr> <tr><td>Ethernet</td><td>No</td></tr> <tr><td>Extd OWI</td><td>Yes</td></tr> <tr><td>GPS L2C</td><td>Yes</td></tr> <tr><td>GPS L5</td><td>Yes</td></tr> <tr><td>GLONASS</td><td>Yes</td></tr> <tr><td>GALILEO</td><td>Yes</td></tr> <tr><td>COMPASS</td><td>No</td></tr> </table>	Event Input	No	Ethernet	No	Extd OWI	Yes	GPS L2C	Yes	GPS L5	Yes	GLONASS	Yes	GALILEO	Yes	COMPASS	No
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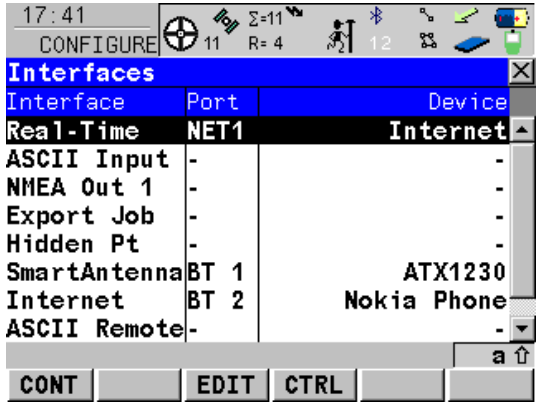
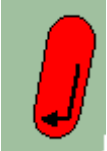
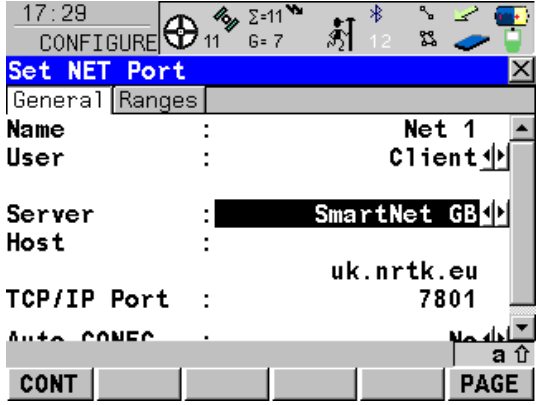
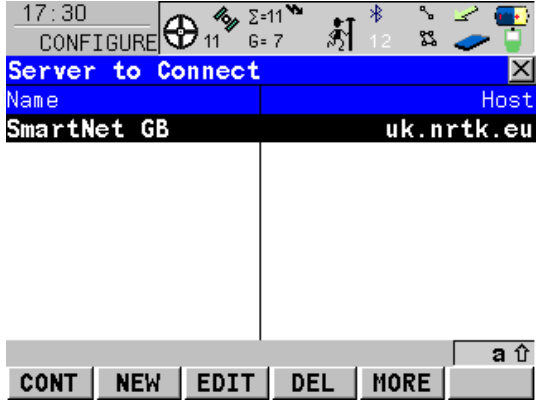
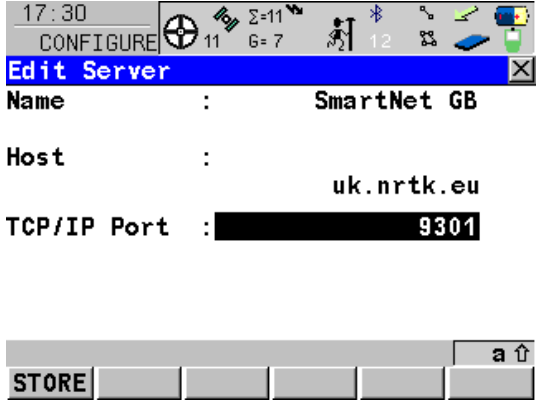
### Overview

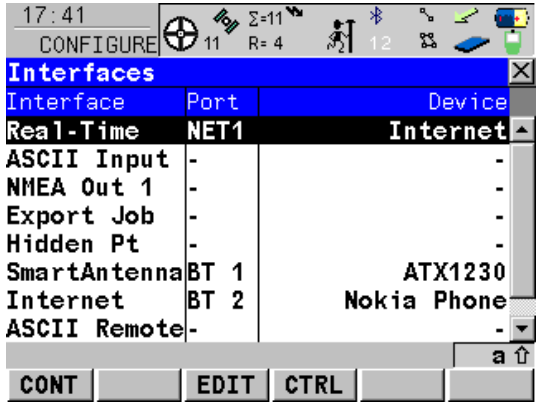
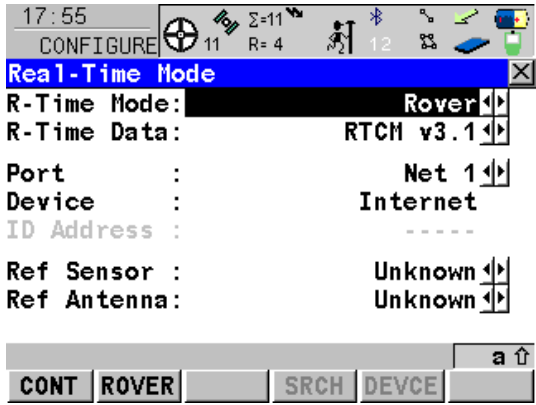
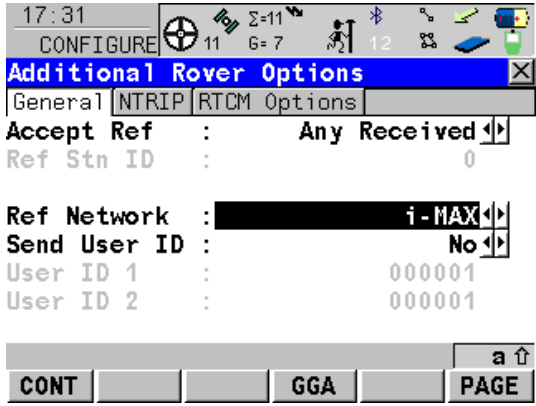

Change the SmartNet server Port to 9301

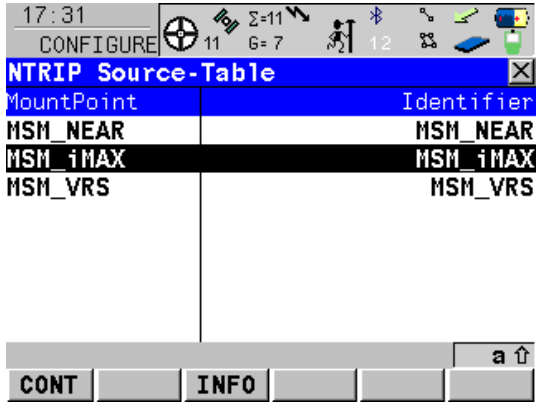


Change the SmartNet server Mount Point to MSM\_iMAX<sup>1</sup>

Change the SmartNet Reference Network type to i-MAX<sup>1</sup>

Step	Instruction	Screenshots
2	From the System 1200 main menu screen, open 5 Config..	 <p>The screenshot shows the 'Main Menu' with the following options:</p> <ol style="list-style-type: none"> <li>Survey</li> <li>Programs...</li> <li>Manage...</li> <li>Convert...</li> <li>Config..</li> <li>Tools...</li> </ol>
3	4 Interfaces...	 <p>The screenshot shows the 'Configuration: SmartRover PP' menu with the following options:</p> <ol style="list-style-type: none"> <li>Survey Settings...</li> <li>Instrument Settings...</li> <li>General Settings...</li> <li>Interfaces...</li> </ol>

<p>4</p>	<p>Highlight Real-Time and Press [F4] CTRL</p>	
<p>5</p>	<p>Highlight Server line and press red Enter key</p> 	
<p>6</p>	<p>Select your SmartNet server. If you have multiple, then you will need to repeat this process for each of them.</p> <p>[F3] EDIT</p>	
<p>7</p>	<p>Select TCP/IP Port and edit to 9301</p> <p>[F1] STORE [F1] CONT [F1] CONT</p>	

<p>8</p>	<p>Highlight Real-Time and press [F3] EDIT</p>	 <table border="1"> <thead> <tr> <th>Interface</th> <th>Port</th> <th>Device</th> </tr> </thead> <tbody> <tr> <td>Real-Time</td> <td>NET1</td> <td>Internet</td> </tr> <tr> <td>ASCII Input</td> <td>-</td> <td>-</td> </tr> <tr> <td>NMEA Out 1</td> <td>-</td> <td>-</td> </tr> <tr> <td>Export Job</td> <td>-</td> <td>-</td> </tr> <tr> <td>Hidden Pt</td> <td>-</td> <td>-</td> </tr> <tr> <td>SmartAntenna</td> <td>BT 1</td> <td>ATX1230</td> </tr> <tr> <td>Internet</td> <td>BT 2</td> <td>Nokia Phone</td> </tr> <tr> <td>ASCII Remote</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Interface	Port	Device	Real-Time	NET1	Internet	ASCII Input	-	-	NMEA Out 1	-	-	Export Job	-	-	Hidden Pt	-	-	SmartAntenna	BT 1	ATX1230	Internet	BT 2	Nokia Phone	ASCII Remote	-	-
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<p>9</p>	<p>[F2] ROVER</p>	 <p>R-Time Mode: <b>Rover</b></p> <p>R-Time Data: <b>RTCM v3.1</b></p> <p>Port: <b>Net 1</b></p> <p>Device: <b>Internet</b></p> <p>ID Address: -----</p> <p>Ref Sensor: <b>Unknown</b></p> <p>Ref Antenna: <b>Unknown</b></p>																											
<p>10</p>	<p>Select Ref Network and edit to i-MAX by pressing yellow arrow keys left or right</p>	 <p>Accept Ref: <b>Any Received</b></p> <p>Ref Stn ID: <b>0</b></p> <p>Ref Network: <b>i-MAX</b></p> <p>Send User ID: <b>No</b></p> <p>User ID 1: <b>000001</b></p> <p>User ID 2: <b>000001</b></p>																											
<p>11</p>	<p>[F6] PAGE to NTRIP select Mountpnt line</p>	 <p>Use NTRIP: <b>Yes</b></p> <p>User ID (cont): <b>Username</b></p> <p>Password: <b>*****</b></p> <p>Mountpnt: <b>MSN_iMAX</b></p>																											

<p>12</p>	<p>If connected to the internet, press [F5] SRCE</p> <p>Select <b>MSM_iMAX</b></p> <p>[F1] CONT</p> <p>Proceed to step 14</p>	 <p>The screenshot shows the 'NTRIP Source-Table' menu with a table of source identifiers. The table has two columns: 'MountPoint' and 'Identifier'. The entries are: MSM_NEAR, MSM_iMAX, and MSM_VRS. The 'MSM_iMAX' row is highlighted. At the bottom, there are buttons for 'CONT', 'INFO', and 'a ↑'.</p>
<p>13</p>	<p>If not connected to the internet, select Mountpnt: line and enter <b>MSM_iMAX</b></p> <p>and proceed with [F1] CONT</p>	 <p>The screenshot shows the 'Additional Rover Options' menu. The 'Mountpnt:' field is set to 'MSM_iMAX'. Other fields include 'Use NTRIP:' (Yes), 'User ID:' (Username), and 'Password:' (*****). At the bottom, there are buttons for 'CONT', 'SRCE', and 'PAGE', along with an 'a ↑' button.</p>
<p>14</p>	<p>Press [F1] CONT 3 times to return to the main menu.</p> <p>This rover is now configured to use additional satellite signals in conjunction with HxGN SmartNet.</p>	 <p>The screenshot shows the 'Main Menu' with six numbered options: 1 Survey, 2 Programs..., 3 Manage..., 4 Convert..., 5 Config..., and 6 Tools... At the bottom, there are buttons for 'CONT' and 'a ↑'.</p>

For subsequent use, connect to SmartNet as usual (**Shift, F3** in Survey or Stakeout screen) and benefit from additional satellites in the service.

<sup>1</sup> Nearest and VRS services are also available.