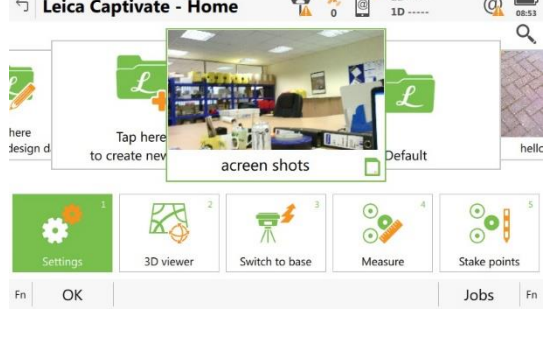
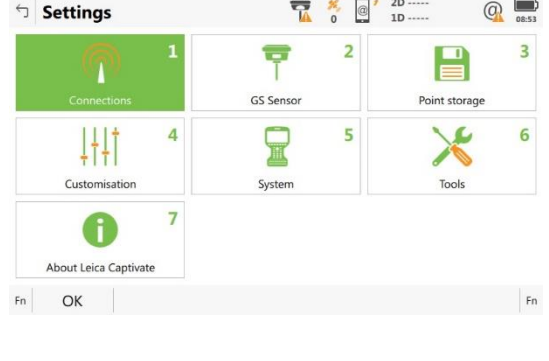
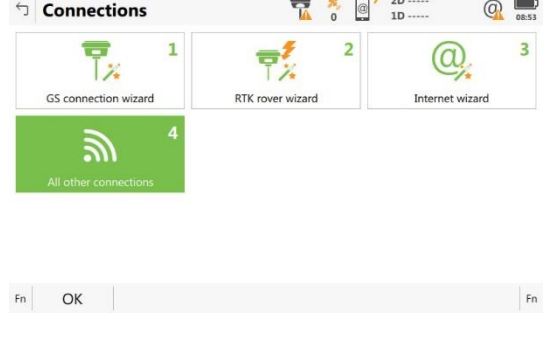
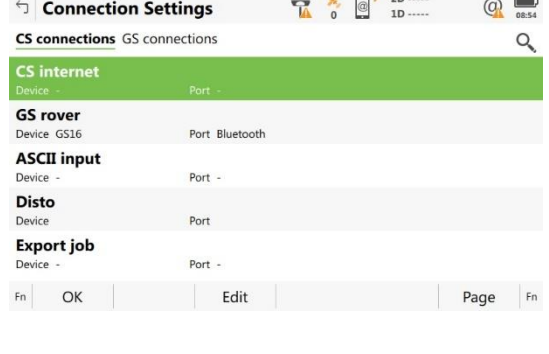


Leica Captivate: GPS Connection to DS2000 via Bluetooth – Ouverture Software

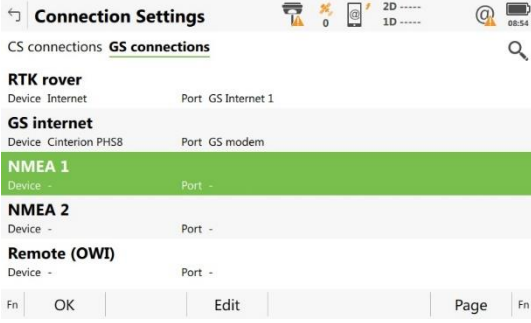
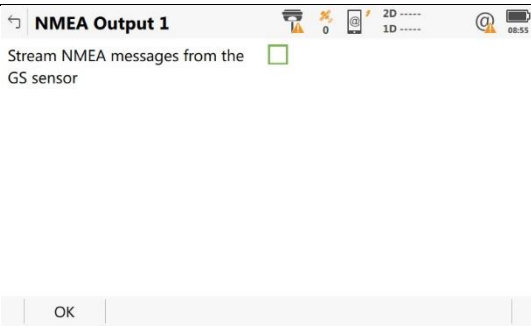
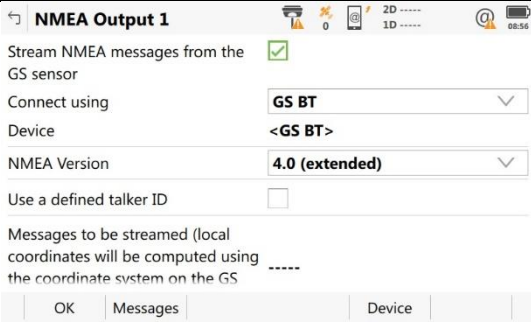
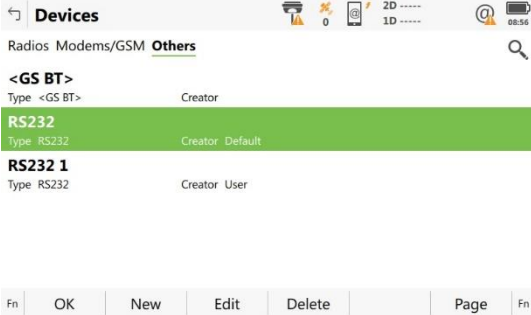
1	 <p>The screenshot shows the 'Leica Captivate - Home' screen. At the top, there's a header with icons for various functions. Below the header, there's a large central area with a photo of a construction site and text that says 'Tap here to create new screen shots'. Below this, there are five numbered icons: 1. Settings (gear icon), 2. 3D viewer (cube icon), 3. Switch to base (tower icon), 4. Measure (ruler icon), and 5. Stake points (flag icon). At the bottom, there are buttons for 'Fn', 'OK', and 'Jobs'.</p>	<p>On GPS Controller.</p> <p>“Settings”</p>
2	 <p>The screenshot shows the 'Settings' screen. It has a header with icons. Below the header, there are seven numbered icons: 1. Connections (Wi-Fi icon), 2. GS Sensor (tower icon), 3. Point storage (floppy disk icon), 4. Customisation (vertical sliders icon), 5. System (tower icon), 6. Tools (wrench icon), and 7. About Leica Captivate (info icon). At the bottom, there are buttons for 'Fn', 'OK', and 'Fn'.</p>	<p>“Connections”</p>
3	 <p>The screenshot shows the 'Connections' screen. It has a header with icons. Below the header, there are four numbered icons: 1. GS connection wizard (tower icon), 2. RTK rover wizard (tower icon), 3. Internet wizard (Wi-Fi icon), and 4. All other connections (Wi-Fi icon). At the bottom, there are buttons for 'Fn', 'OK', and 'Fn'.</p>	<p>“All other connections”</p>
4	 <p>The screenshot shows the 'Connection Settings' screen. It has a header with icons. Below the header, there's a section titled 'CS connections' with a sub-section 'GS connections'. Under 'GS connections', there are several items: 'CS internet' (Device: -, Port: -), 'GS rover' (Device: GS16, Port: Bluetooth), 'ASCII input' (Device: -, Port: -), 'Disto' (Device: -, Port: -), and 'Export job' (Device: -, Port: -). At the bottom, there are buttons for 'Fn', 'OK', 'Edit', 'Page', and 'Fn'.</p>	<p>Press F6 “Page”.</p>

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5	 <p>The screenshot shows the 'Connection Settings' screen. Under 'CS connections', 'GS connections' is selected. The list includes 'RTK rover', 'GS internet', 'NMEA 1' (highlighted in green), 'NMEA 2', and 'Remote (OWI)'. At the bottom, there are buttons for 'Fn', 'OK', 'Edit', 'Page', and 'Fn'.</p>	<p>Scroll down so NMEA 1 is highlighted in GREEN and press F3 “Edit”.</p>
6	 <p>The screenshot shows the 'NMEA Output 1' screen. It has a checkbox for 'Stream NMEA messages from the GS sensor' which is currently unchecked. At the bottom, there is an 'OK' button.</p>	<p>Tick the box</p>
7	 <p>The screenshot shows the 'NMEA Output 1' screen with the checkbox checked. The 'Connect using' dropdown is set to 'GS BT'. The 'Device' dropdown is set to '<GS BT>'. The 'NMEA Version' dropdown is set to '4.0 (extended)'. There is a 'Use a defined talker ID' checkbox which is unchecked. At the bottom, there are buttons for 'OK', 'Messages', and 'Device'.</p>	<p>Set “Connect using” to GS BT using the drop-down menu.</p> <p>Press F5 “Device”.</p>
8	 <p>The screenshot shows the 'Devices' screen. Under 'Radios Modems/GSM', 'Others' is selected. The list includes '<GS BT>', 'RS232' (highlighted in green), and 'RS232 1'. At the bottom, there are buttons for 'Fn', 'OK', 'New', 'Edit', 'Delete', 'Page', and 'Fn'.</p>	<p>Scroll down so RS232 is highlighted in GREEN. Press F3 “Edit”.</p>

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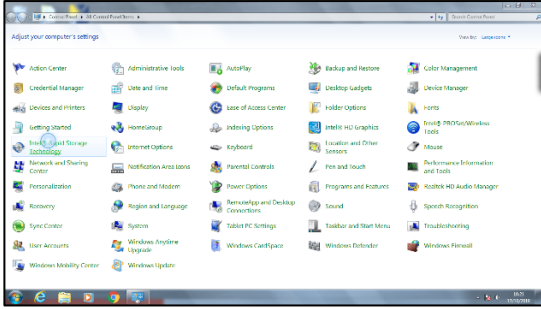
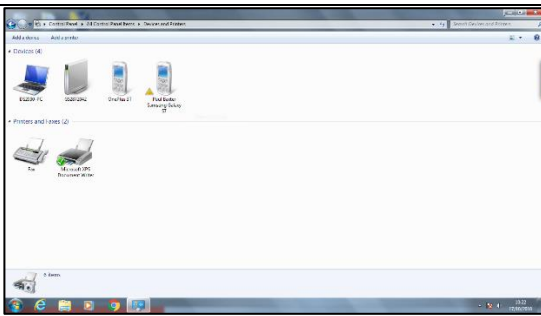
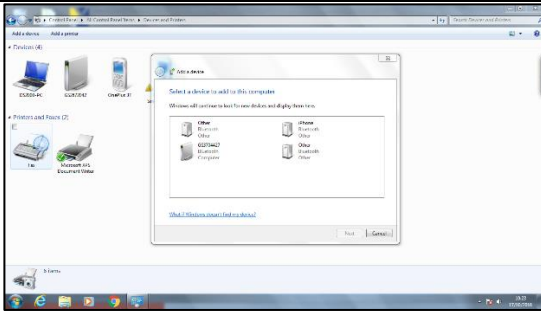
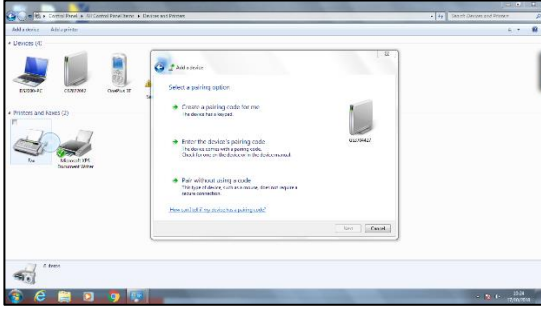
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9	<div><div>Edit Device</div><div><div>Name</div><div>RS232</div></div><div><div>Type</div><div>RS232</div></div><div><div>Baud rate</div><div>9600</div></div><div><div>Parity</div><div>None</div></div><div><div>Data bits</div><div>8</div></div><div><div>Stop bit</div><div>1</div></div><div><div>Flow control</div><div>None</div></div><div><div>Fn</div><div>Store</div><div>Fn</div></div></div>	Set parameters as to those displayed, then press F1 “Store” .
10	<div><div>NMEA Output 1</div><div><div>Stream NMEA messages from the GS sensor</div><div><input checked="" type="checkbox"/></div></div><div><div>Connect using</div><div>GS BT</div></div><div><div>Device</div><div>RS232</div></div><div><div>NMEA Version</div><div>4.0 (extended)</div></div><div><div>Use a defined talker ID</div><div><input type="checkbox"/></div></div><div><div>Messages to be streamed (local coordinates will be computed using the coordinate system on the GS</div><div>-----</div></div><div><div>OK</div><div>Messages</div><div>Device</div></div></div>	Press F2 “Messages”
11	<div><div>NMEA Messages</div><div><div>GGA</div><div>Use No Rate ---- Output ----</div></div><div><div>GGK</div><div>Use No Rate ---- Output ----</div></div><div><div>GGK_PT</div><div>Use No Rate ---- Output ----</div></div><div><div>GGQ</div><div>Use No Rate ---- Output ----</div></div><div><div>GLL</div><div>Use No Rate ---- Output ----</div></div><div><div>GNS</div><div>Use No Rate ---- Output ----</div></div><div><div>Fn</div><div>OK</div><div>Edit</div><div>All</div><div>Use</div><div>Fn</div></div></div>	With GGA highlighted in GREEN , Press F3 “Edit” .
12	<div><div>NMEA Message to Send</div><div><div>Send the GGA message</div><div><input type="checkbox"/></div></div><div><div>OK</div></div></div>	Tick the box

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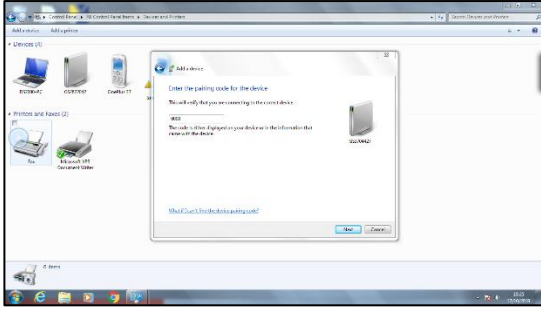
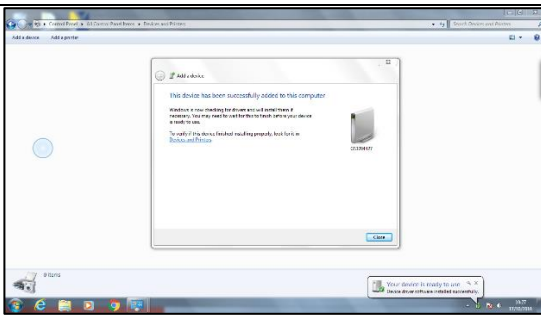
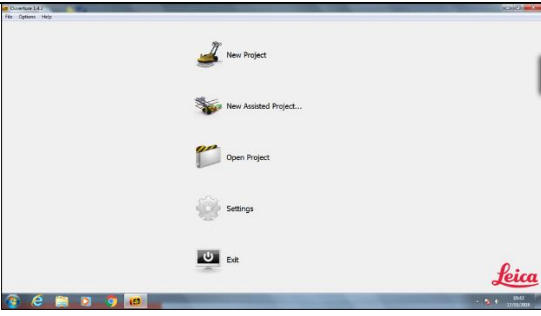
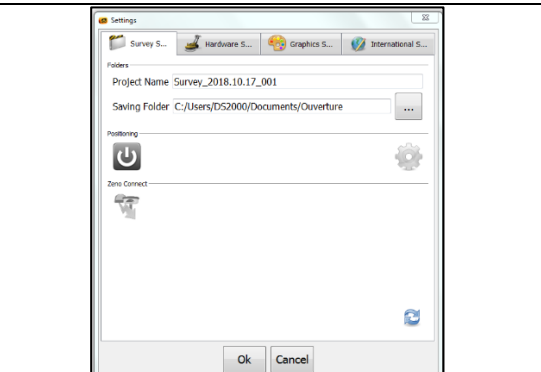
17		On the tablet, go to the “Control Panel” , then “Devices and Printers” .
18		Select “Add a device” .
19		Select the GPS Antenna which will be displayed as “GS” followed by the Serial Number of the GPS Antenna. Select “Next”
20		Select “Enter the device’s pairing code” .

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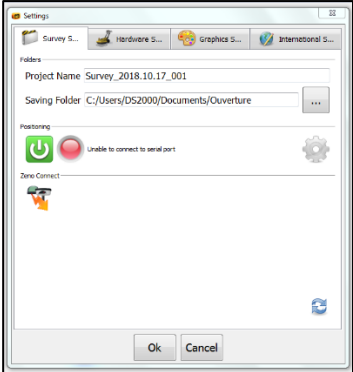

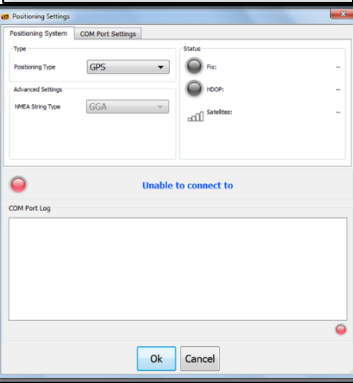
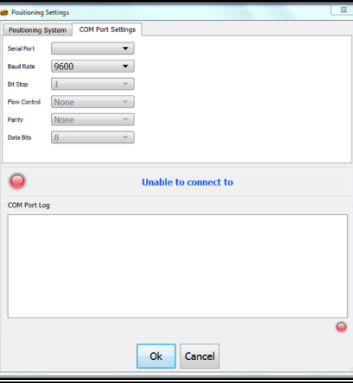
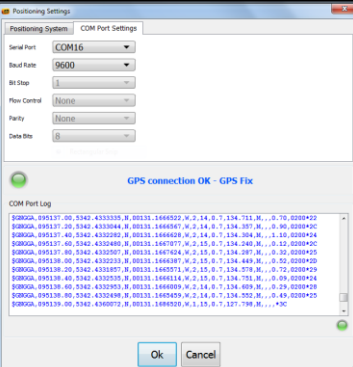
21		Enter the code “ 0000 ” and select “ Next ”
22		<p>Once connection is successful the adjacent will be displayed.</p> <p>Once connected go back into the “Control panel”, “Devices and printers” and create a shortcut of the GPS Antenna on the Desktop of the tablet.</p> <p>Go Back to the desktop and Right Click/Hold Pen on the shortcut for the GS Antenna, on the drop-down menu select “Connect Using” then select “Ad hoc Network”. A message will be displayed to say if the connection has been successful.</p>
23		Open Ouvreure , Click on the Icon for “ Settings ”
24		The following window will appear. If the on/off icon for the GPS is greyed out, click on the icon to turn the GPS on.

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25		<p>When on the Icon will turn green.</p> <p>Then hit the  icon to enter the GPS Settings Window.</p>
26		<p>Click on the “COM Port Settings” Tab.</p>
27		<p>Click on the “Serial Port” drop down menu and select the comport for the Bluetooth connection.</p> <p>Please note, on the Getac CT2000 “COM2” is the built in GPS and not the External GPS Antenna.</p>
28		<p>Once the “Serial Port” has been selected, check that the Fix status is now green. Also, check that the window says, “GPS connection OK – RTK Fix”. Check that data is being recorded in the COM Port Log and that the prefix for the data coming in says “\$GNGGA”. Then hit “OK” to save the changes to the settings.</p>

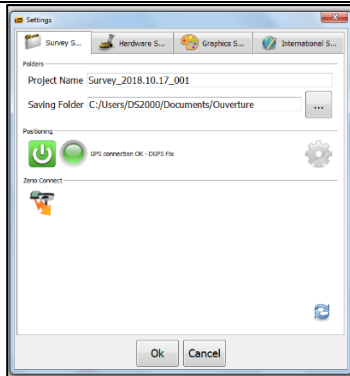
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29



lick “**Ok**” to store the settings and return to the main menu.

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