



Altus NR3 with SurvCE

Application Note



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1. Introduction

1.1. Foreword

This application note describes how the Altus NR3 can be configured with Carlson SurvCE. Septentrio recommends using version 6.01 (or higher) of the controller software, the latest supported version can be downloaded from [our website](#). The most recent receiver documentation (i.e. User Manual, Reference Guide) and firmware upgrades can similarly be found on our website.

1.2. Support

For first-line support, please contact your Septentrio dealer. Further information can be found on the Septentrio support website for documentation and firmware upgrades or by contacting Septentrio Technical Support group:



<http://www.septentrio.com/support>



support@septentrio.com



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2. Install SurvCE

2.1. SurvCE installation

- 1) To connect a Windows Mobile device to the PC, [Windows Mobile Device Center](#) needs to be installed.
- 2) Power on the Windows Mobile device and connect it to a PC. Wait for Windows Mobile Device Center to connect.
- 3) Once the PC connection the Windows Mobile device has been established, double click on the "Survce_install.exe" file to begin installation.



Figure 2-1: SurvCE executable

- 4) The installation will begin by transferring the files to the data collector. Agree to the license and click next. When the transfer is complete, the data collector may be disconnected from the PC.

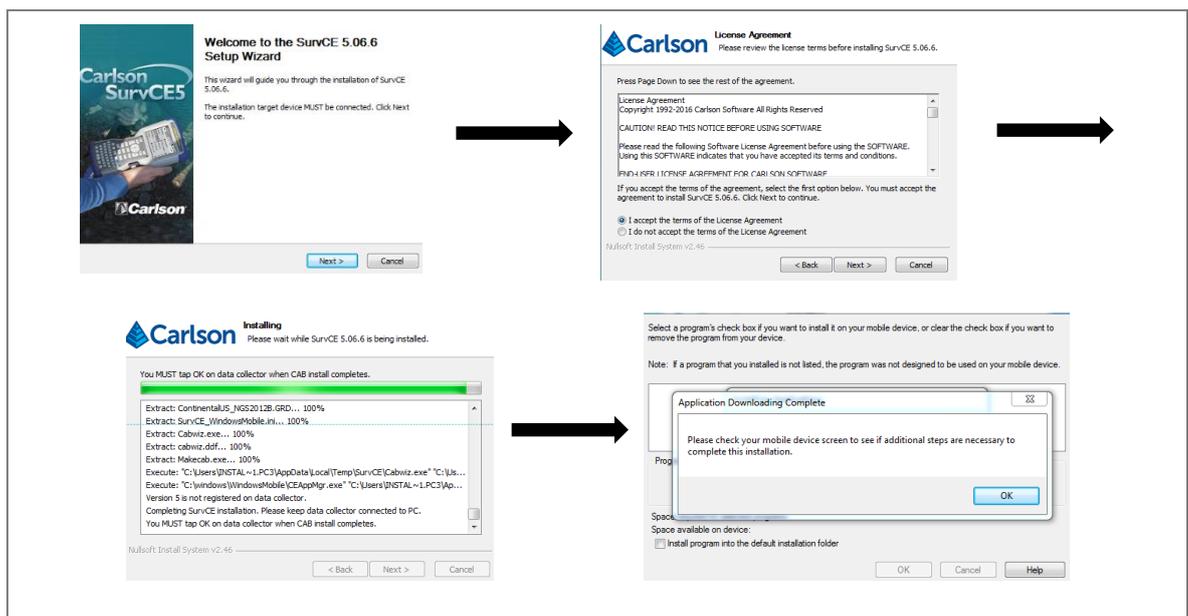


Figure 2-2: SurvCE installation

- 5) On the Windows Mobile device, if prompted first remove previous version, then SurvCE will start installing. After installation, tap on the Windows start button and locate SurvCE. Double-click to open the program.

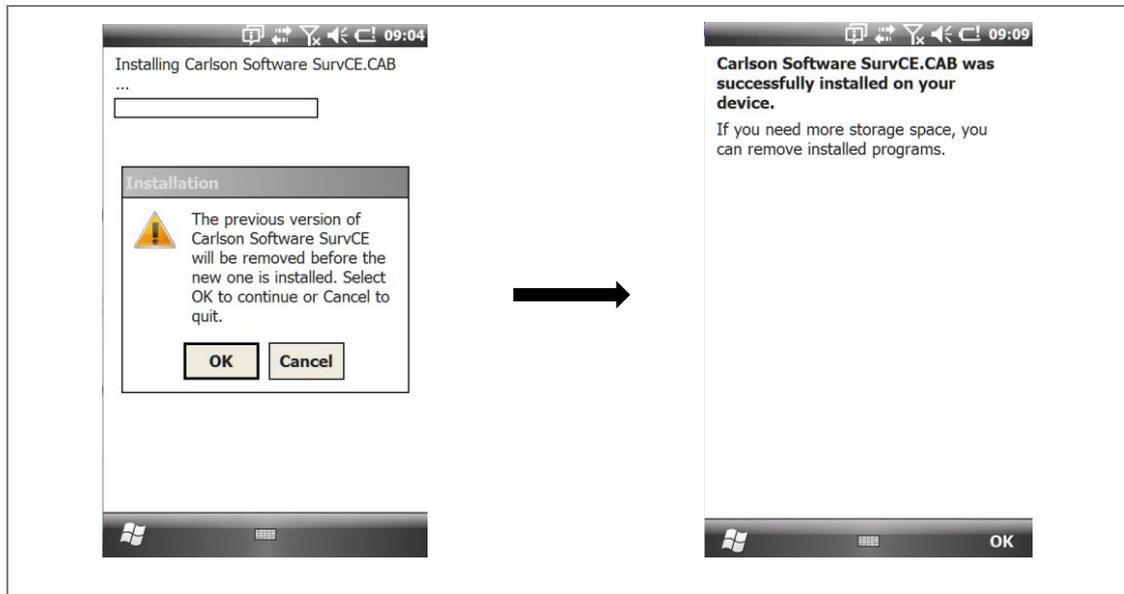


Figure 2-3: SurvCE installation on a Windows Mobile device

2.2. SurvPC installation

Installation of SurvPC is straightforward. Download the "SurvPC_install.exe" file and double-click to initiate the installer wizard.

3. Configure SurvCE

3.1. Start a new project

Upon opening SurvCE, users can choose to either create a new job or select an existing one. Select appropriate job settings and continue without connecting to the device.

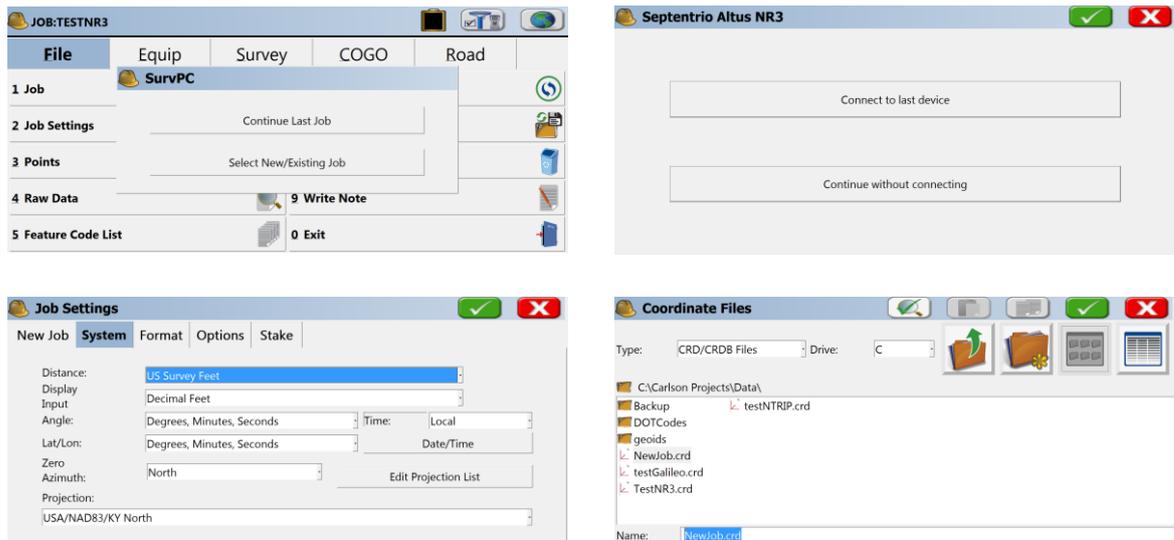


Figure 3-1: Job set-up in SurvCE

3.2. Bluetooth/serial connection to the Altus NR3

Users can select to connect to the Altus NR3 either via serial cable or Bluetooth to the controller.

- 1) In the **Equip** menu select the **GPS Rover** option to configure your receiver as a rover.
- 2) In the **Current** tab, select the Manufacturer and Model as shown in the screenshot below for the Altus NR3.



Figure 3-2: SurvCE connection set-up

- 3) In the **Comms** tab the model and type of connection can be further specified. When selecting a cable connection, the set-up is straightforward. You can select either Cable (COM) or USB connection. Typically, COM1 and COM2 are reserved for serial cable connection. For Bluetooth connections, select as **BT type** "Windows Mobile".

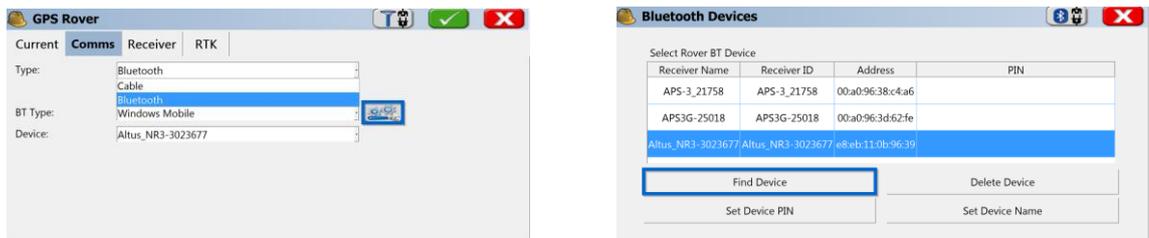


Figure 3-3: Altus NR3 Bluetooth set-up in SurvCE

- 4) Select the appropriate Bluetooth device, click on 'Set Device PIN' and set the PIN to '1234'. This is the default Bluetooth pairing code, although this is configurable by users. Note that on Windows Controllers this often prompts a step-by-step configuration of the new Bluetooth device.

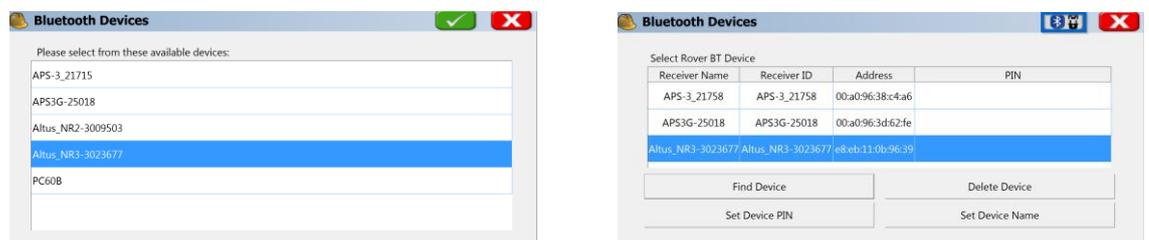


Figure 3-4: Altus NR3 Bluetooth set-up in SurvCE

3.3. Setup Altus NR3 for RTK

In the **Receiver** tab select antenna height (antenna type is automatically filled in for the Altus NR3 antenna). Note that if users want to incorporate Galileo and Beidou in their solution, these need to be selected via the **Advanced** button.

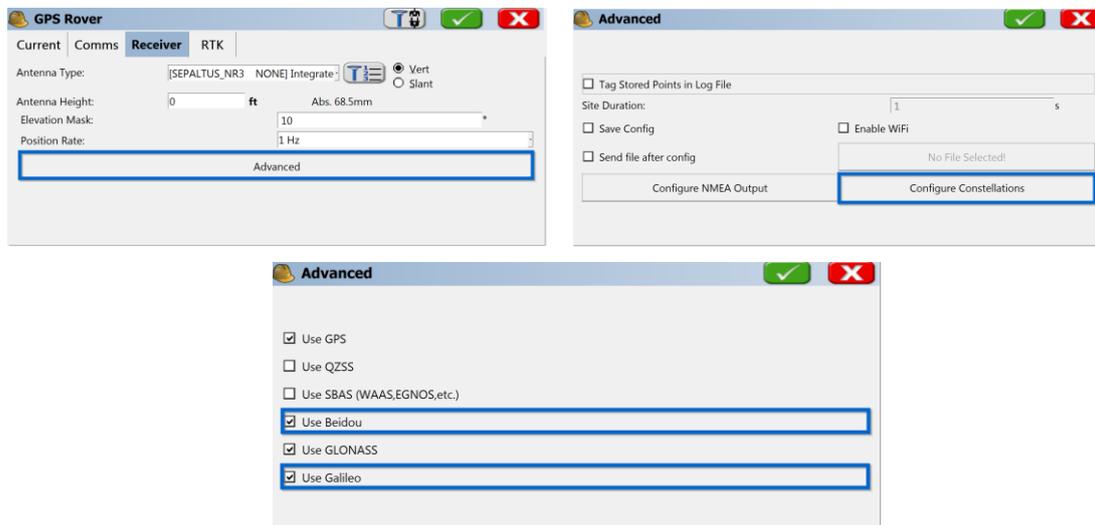


Figure 3-5: SurvCE cell modem configuration of the Altus NR3

In the **RTK** tab modem and network settings can be configured.

- 1) Select "Internal GSM" in **Device** and configure the Altus NR3 with the APN settings of your mobile provider.

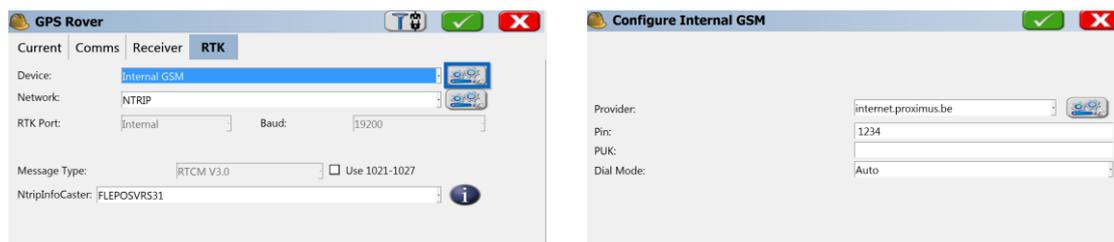


Figure 3-6: SurvCE cell modem configuration of the Altus NR3

- In the **Network** settings select “NTRIP” and click on the configuration icon to the right of it. Enter NTRIP settings, hit the green check and select the appropriate Mountpoint from the source-table. Click on the green check to finish the configuration and, if everything went well, the controller will display a ‘successful connection’ message.

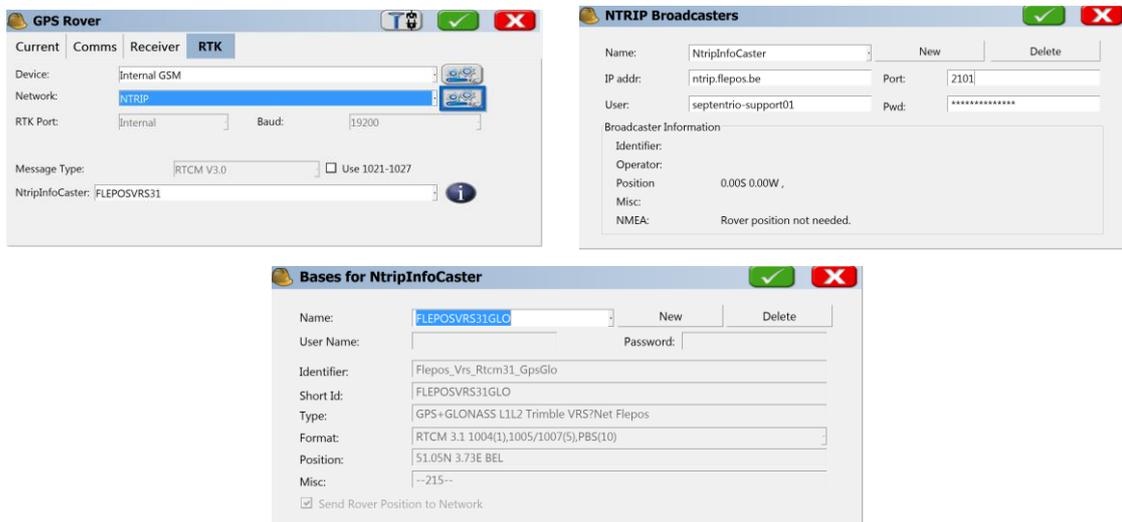


Figure 3-7: SurvCE NTRIP settings of the Altus NR3

3.4. Verify Configuration

To check whether the configuration was successful and the Altus NR3 is receiving RTK corrections, go to the **Monitor/Skyplot** menu and checking the PVT status and Base selection in the **Quality** tab.



Figure 3-8: SurvCE Monitor/Skyplot