



Ref: FAQ-0031

Version: 1.0

Title – Nautiz X7 GPS Setup (Patroller)

Made By: KE_110314 (Issue 1)

Question –

What configuration settings to I need to make on the Nautiz X7 PDA to allow the GPS function of Patroller to work?

1. Using GPS with the Nautiz X7

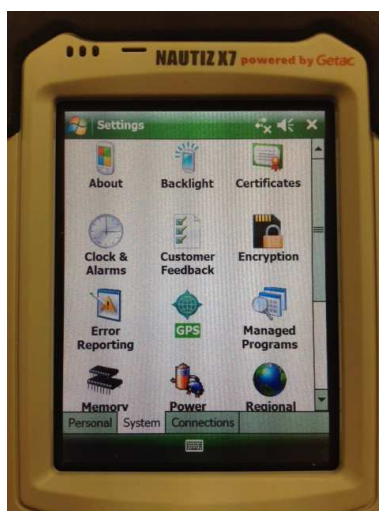
The Nautiz PDA has built-in GPS hardware that can be used by the Patroller application to record the locations of loggers during deployment, using either the Deploy screen or the Lift and Shift screen.

Before GPS can be used, both the PDA and the Patroller application must be configured correctly to ensure correct communication between the hardware and the software.

1.1. GPS Setup

1.1.1. PDA GPS Setup

1. Select the 'Start / Settings' menu item and select the System tab.
2. Tap the External GPS icon to start the GPS Settings program.





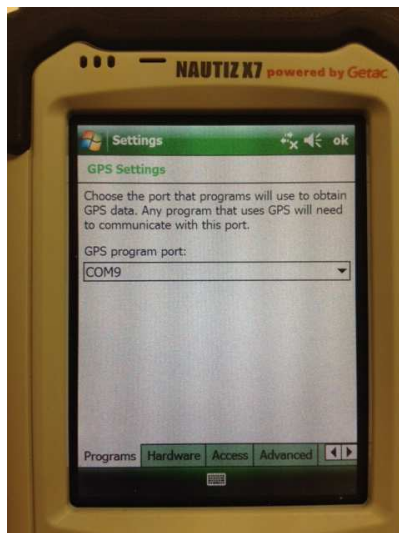
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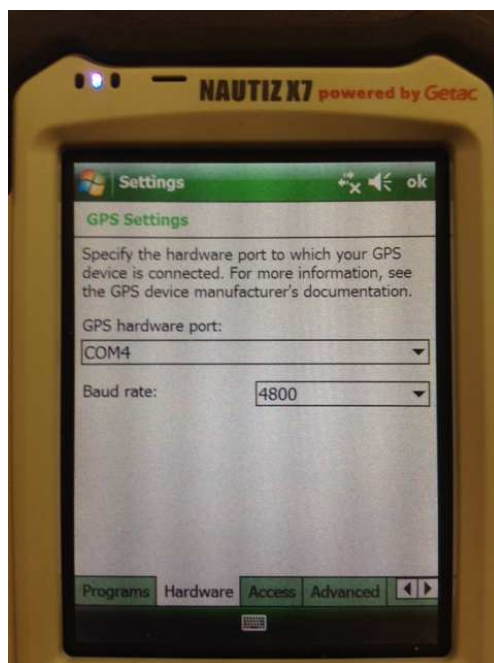
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3. On the Programs tab, select 'COM9' from the 'GPS program port' drop-down box.



4. On the Hardware tab, select 'Com4' from the 'GPS hardware port' drop-down box and '4800' from the 'Baud rate' drop-down box.





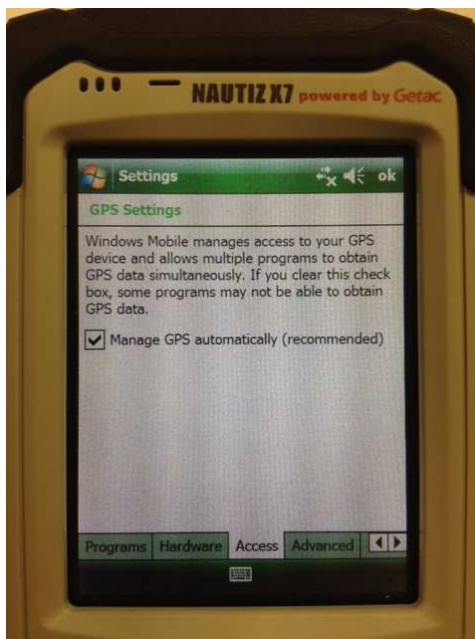
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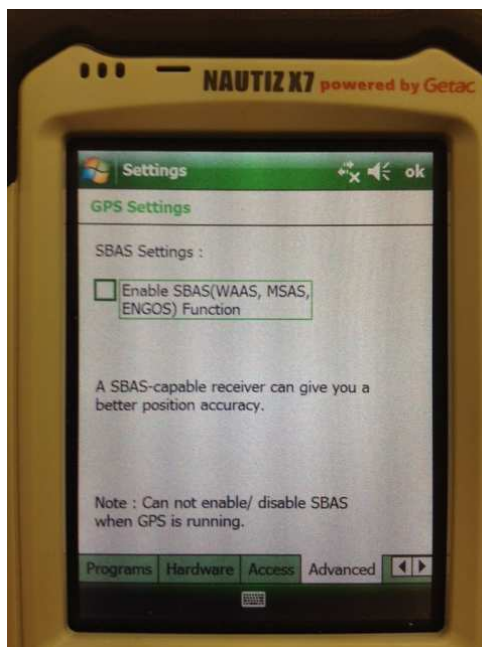
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5. On the Access tab, ensure that the 'Manage GPS automatically' box is ticked.



6. On the 'Advanced' tab, ensure the "Enable SBAS" option is NOT selected.





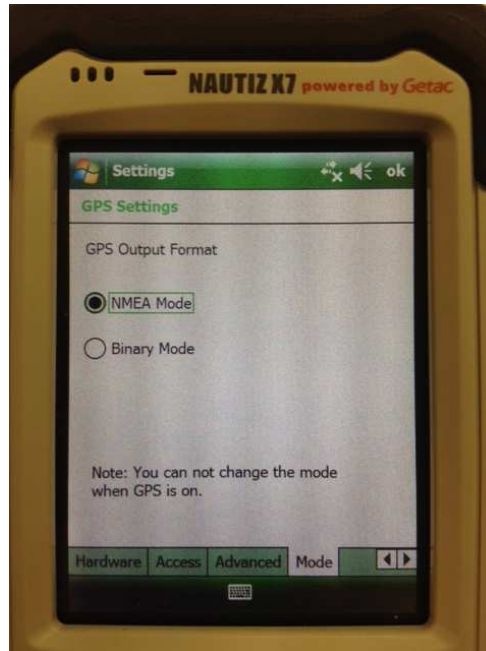
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7. On the “Mode” tab, select NMEA mode is selected



8. Tap ‘OK’ to exit the GPS Settings program.
9. Tap the ‘X’ in the top-right corner of the screen to close the Settings screen.
10. Start the TacLink Program, and make sure you can get a Satellite fix (Make sure you have a clear view of the sky)





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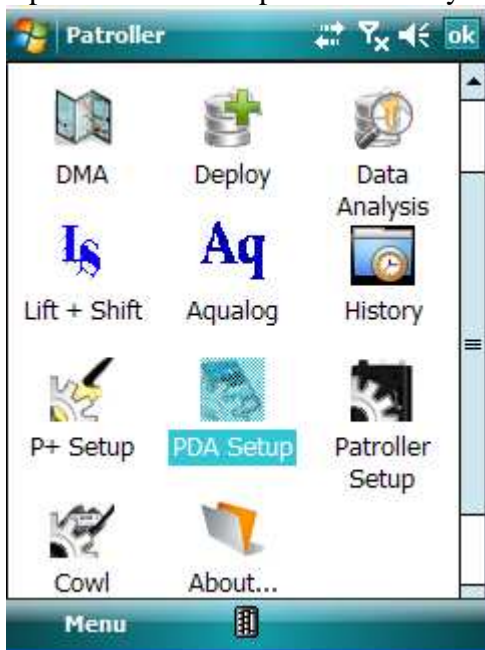
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2.1.1 Patroller GPS Setup

- Start the Patroller software.



- Open the PDA Setup screen – see your administrator if the PDA Setup icon is not visible.





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- Ensure that the 'Enable GPS deployment' box is ticked.



- Tap the 'Save' button at the bottom-left corner of the screen.
- After the settings have been stored, "Saved" will be shown on the screen.
- Tap the 'X' in the top-right corner of the screen to close the PDA Setup screen.



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2.2 Using GPS

The GPS module can be used to show and store the locations of the loggers when deployed using the Deploy screen or the Lift + Shift screen. If the above setup procedures have been followed, the GPS module should start working automatically when the Deploy or Lift and Shift screen is started.

For successful functionality, the PDA must have a clear view of the sky in order to track as many satellites as possible. In built-up areas or enclosed spaces, GPS reception will be limited and the PDA may not be able to receive enough information to calculate its position.

When operating inside a vehicle, if GPS reception is poor, an external GPS antenna may be fitted to the Nautiz using the connector on the left-hand side of the PDA.

- On entering the Lift + Shift screen, the GPS Status indicator will show “Initialising”. If the status indicator shows “Disabled”, check the 2.1.1 Patroller GPS Setup, as shown in Section 0 above.
- After a short time, the status indicator should show “Unknown”. If this does not happen within 5 minutes, check the 2.1.1 Patroller GPS Setup, as shown in Section 0 above.

The screenshot shows the 'Lift + Shift' screen with the following fields and buttons:

- Database: [Dropdown menu]
- GPS: Unknown
- Serial: [Text input field]
- Buttons: Back, Skip
- Co-ordinates/Address 2: [Text input field]
- Location: [Text input field]
- Buttons: Update
- Navigation: Lift, Shift, Options, Patrol Window, [Left arrow], [Right arrow]
- Status bar: Not connected: patroller2 01102091
- Buttons: Connect, Export Data

- When a GPS fix has been found, the status indicator will show “Receiving Data”. If this does not happen within 5 minutes, check the 2.1.1 Patroller GPS Setup, as shown in Section 0 above.

The screenshot shows the 'Lift + Shift' screen with the following fields and buttons:

- Database: [Dropdown menu]
- GPS: Receiving Data *****
- Serial: [Text input field]
- Buttons: Back, Skip
- Co-ordinates/Address 2: 51.634290/-3.016405
- Location: [Text input field]
- Buttons: Update
- Navigation: Lift, Shift, Options, Patrol Window, [Left arrow], [Right arrow]
- Status bar: Not connected: patroller2 01102091
- Buttons: Connect, Export Data

If the GPS Setup was correct, you may be in an area of poor GPS reception. If this is the case, you may need to move to a more open area, away from tall buildings in order to receive a GPS signal.

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3.1 Troubleshooting the GPS

Symptom	Problem	Corrective Action
Patroller software shows an error message when GPS function is needed.	GPS is not configured correctly.	Configure GPS on PDA as shown in Section 1.1.1 above.
GPS Status shows "Unknown" for a long time.	1) GPS is not configured correctly	Configure GPS on PDA as shown in Section 1.1.1 above.
	2) GPS satellite reception has been lost.	Ensure a clear view of the sky is visible; tall buildings and enclosed spaces will cause poor reception. Consider using an external GPS antenna.

Document History:

Edition	Date of Issue	Modification	Notes
1st	11/03/14		1 st Release