



Digi Application Guide

Configure GPS static position on Digi Cellular devices for Device Cloud Map view

1. Configure Digi Cellular devices GPS position settings for Device Cloud.

Objective: Configure Digi Cellular devices GPS position settings to display their location with Map view on Device Cloud.

1.1 Software Requirements

- Digi Device Discovery
- Latest 2.15.X firmware or newer
- Web browser and Device Cloud account.

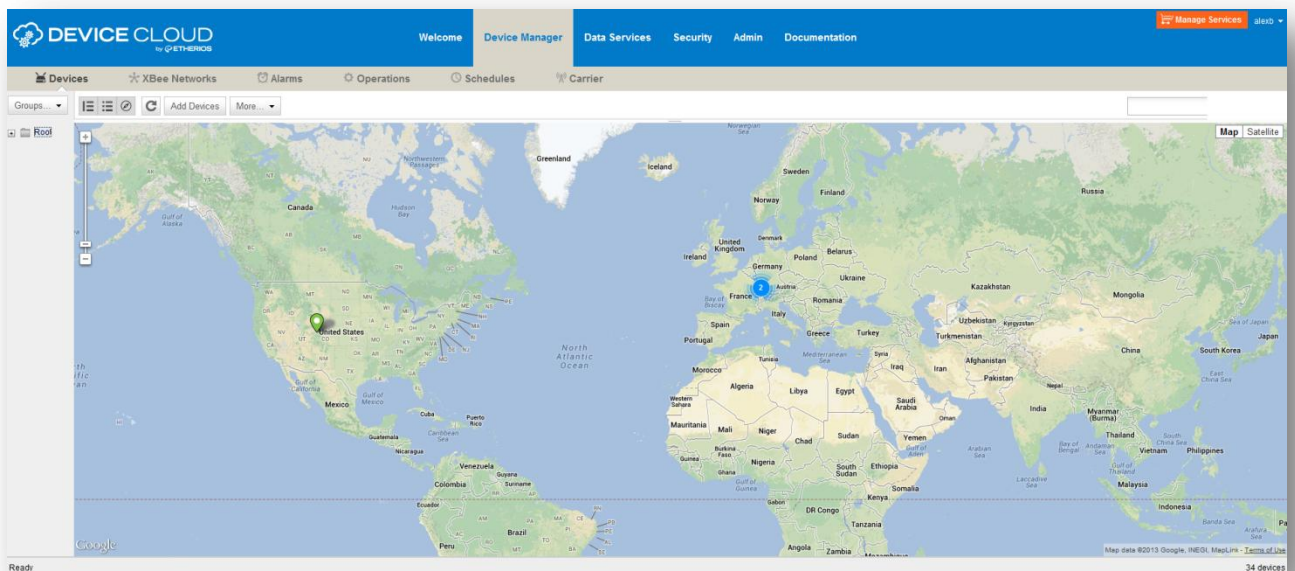
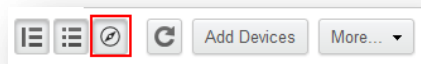
1.2 Hardware Requirements

- Digi ConnectPort X Gateway or Digi Connect Wan 3G.

2. Introduction

The purpose of this document is to describe how Device Cloud can display devices on a Map using a static configured position or using the integrated GPS of Digi cellular devices and gateways.

Map view is available when clicking on the compass icon under Device Manager on Device Cloud (<http://login.etherios.com> for US Cloud, <http://login.etherios.co.uk> for EU Cloud)





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This document will describe:

- How to configure a static position on a Digi Connect Wan 3G* and the use of the integrated GPS in the Gobi Module.
- How to configure a static position on a Digi Transport WR21**

*configuration is applicable to Connect Wan 4G, ConnectPort X4 family

** configuration is applicable to Digi Transport WR41 and WR44

this document assume that the devices have an established connection to Device Cloud. More information on how to get a device connected to Device Cloud can be found on the following article:

<http://www.digi.com/support/kbase/kbaseresultdetl?id=3389>

3. Configuring static position settings on Digi Connect Wan 3G from the web interface

- Open a web browser to the IP Address of the Digi Connect Wan 3G
- Navigate to **Configuration > Position > Static Position Settings**
- Check the box "**Enable the use of the static position**"
- Enter the desired Coordinates
- Click Apply

The screenshot shows a web interface titled "Position Configuration". Under the "Static Position Settings" section, there is a checkbox labeled "Enable the use of the static position" which is checked. Below this, there are two input fields: "Latitude" with the value "48.042282" and a range of "(-90.0 - 90.0)", and "Longitude" with the value "7.578546" and a range of "(-180.0 - 180.0)". An "Apply" button is located below these fields. At the bottom of the form, there is a link to "Geofence Settings".

* *Digi Connect WAN 3G using Gobi 3000 modules have an integrated GPS receiver and can be activated from the web interface to report the position, more information on how to configure the embedded GPS on cellular modules can be found in the following Application Guide :*

<http://ftp1.digi.com/support/documentation/Configuring%20GPS%20for%20modules.pdf>



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- To verify the settings, navigate to **Administration > System Information > Position**

The screenshot shows the 'System Information' page with the 'Position' section expanded. It displays two data sources: 'Qualcomm Gobi 3000 Integrated GPS Receiver' and 'Statically Configured Parameters'. The Qualcomm receiver data includes Latitude: 48.041798, Longitude: 7.578270, Altitude: 212.300003 meters, Speed: 0.000000 knots, Track Angle: 333.100006, Fix Time: 12:28:24.00, Fix Date: 06/18/13, Satellites in View: 2, Fix Quality: GPS Fix, and HDOP: 500.0. The static parameters show Latitude: 48.042282 and Longitude: 7.578546. A 'Refresh' button is visible below the data.

4. Configuring static position settings on Digi Connect Wan 3G from Device Cloud

- Log-in on Device cloud using your account credentials (<http://login.etherios.com> for US Cloud, <http://login.etherios.co.uk> for EU Cloud)
- Navigate to Device Manager
- Select the device and click the Properties button
- In the new tab, navigate to **Advanced Configuration > GPS static position**
- Enter the desired Coordinates
- Click **Save**

The screenshot shows the 'GPS static position' configuration page. On the left is a sidebar with a tree view containing items like 'Device Initiated Realport', 'DNS proxy', 'DNS server', 'Dynamic DNS updater service', 'Failover', 'GPS geofence', 'GPS static position', 'Groups', 'Host List', 'Host name', and 'iDigi device security'. The main area is titled 'GPS static position' and contains a radio button for 'GPS static setting enable' set to 'On'. Below are input fields for 'Latitude' (48.042282) and 'Longitude' (7.578546). At the bottom right are 'Save', 'Export...', and 'Refresh' buttons.



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The configuration is now done. The device will now appear on the map at the specified Coordinates in the Device Manager

The screenshot displays the Digi Device Cloud web interface. At the top, there is a navigation bar with the 'DEVICE CLOUD' logo and tabs for 'Welcome', 'Device Manager', 'Data Services', 'Security', 'Admin', and 'Documentation'. Below this, a secondary navigation bar includes 'Devices', 'XBee Networks', 'Alarms', 'Operations', 'Schedules', and 'Carrier'. A table lists device information:

IP Address	Device Type	Description	Firmware Level	User Meta Data	Tags	Group Path
37.83.24.95	Connect WAN 3G		2.16.0.2			Test

The main area features a map with a green location pin. A tooltip provides the following details:

- Device ID: 00409DFF-FF441D4C
- Device Type: Connect WAN 3G
- MAC: 00409D-441D4C
- Status: Connected
- Local IP: 37.83.24.95
- Last Connected: 5/18/13 10:28 AM
- Global IP: 37.83.24.95

A link labeled 'Open device profile' is visible below the tooltip. The map shows streets like 'Küferstraße' and 'Bankhaus 1. Landsstraße'. The bottom status bar indicates 'Ready' and '1 devices'.