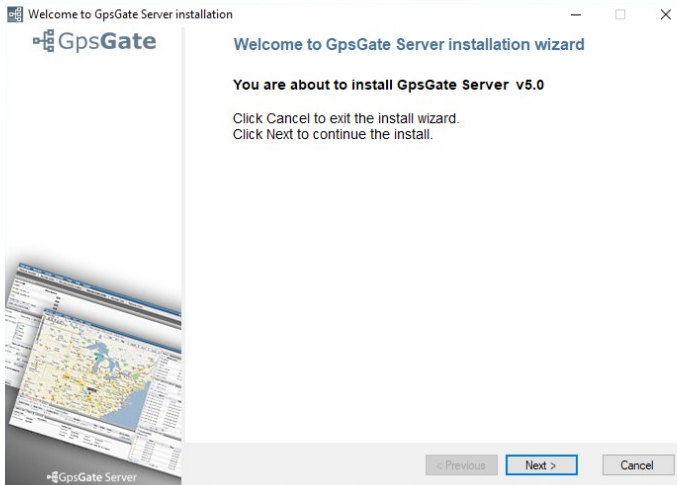


Guide for Setting up a GpsGate Server for Tracking on a RUT955/850 Router via GPS

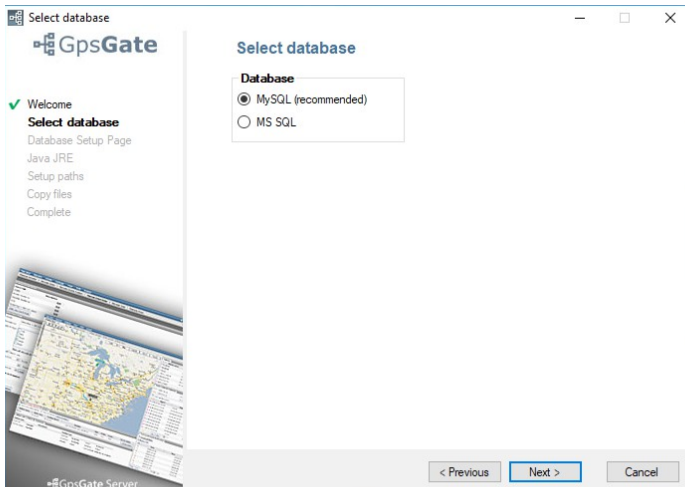
Before starting this guide:

Ensure that you have signed up for an account with GpsGate at <http://gpsgate.com> and have downloaded the GpsGate Server installation package for Windows, and you have opened and forwarded ports 80, 30175 and 12050 on your router.

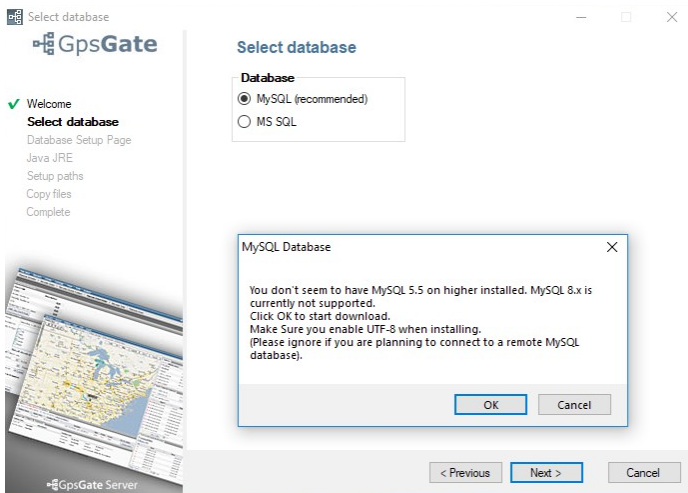
Step 1: Double click on the GpsGate package to unpack the files and start the installation wizard. Click 'Next' to continue.



Step 2: When prompted, choose the option for 'MySQL' and click 'Next' to proceed.



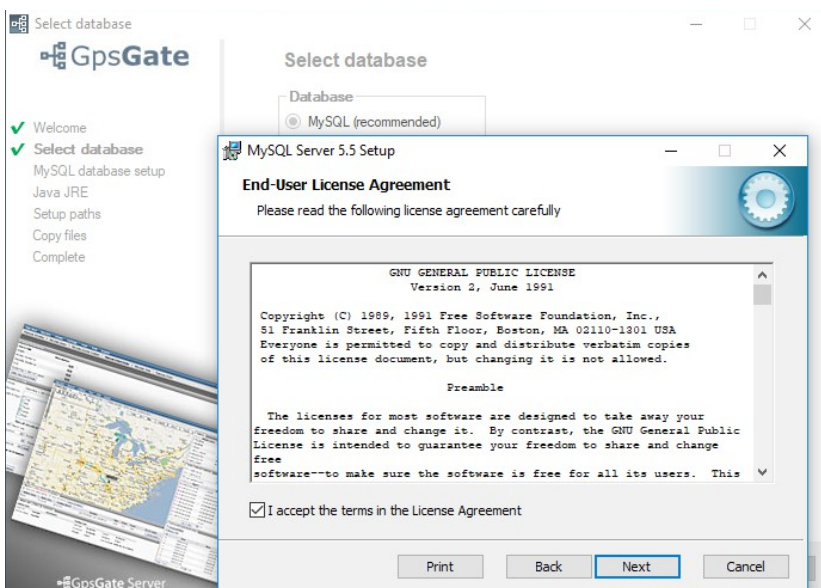
Step 3: The wizard will now check if you have version 5.5 of MySQL installed. If not, you will be prompted to download and install. Click 'OK' to proceed.



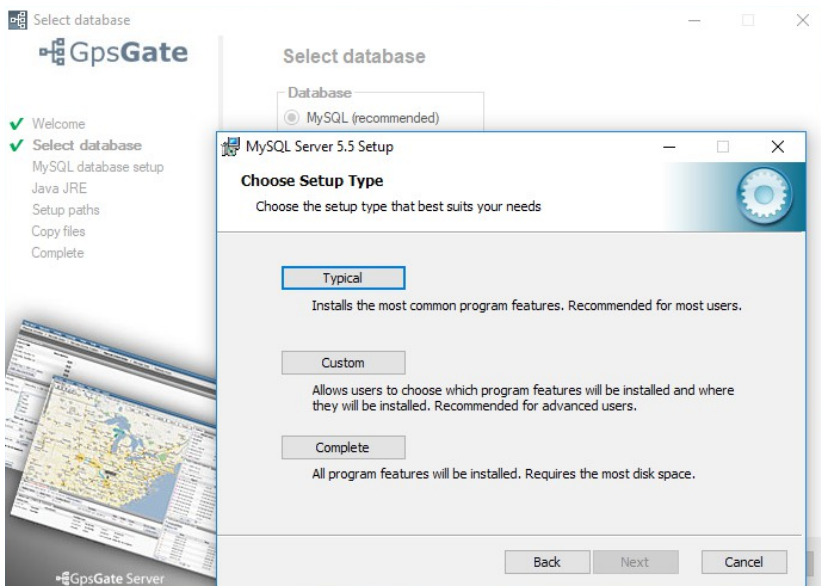
Step 4: Once the 'MySQL' software has downloaded, the installation wizard will start automatically. Click 'Next' to proceed.



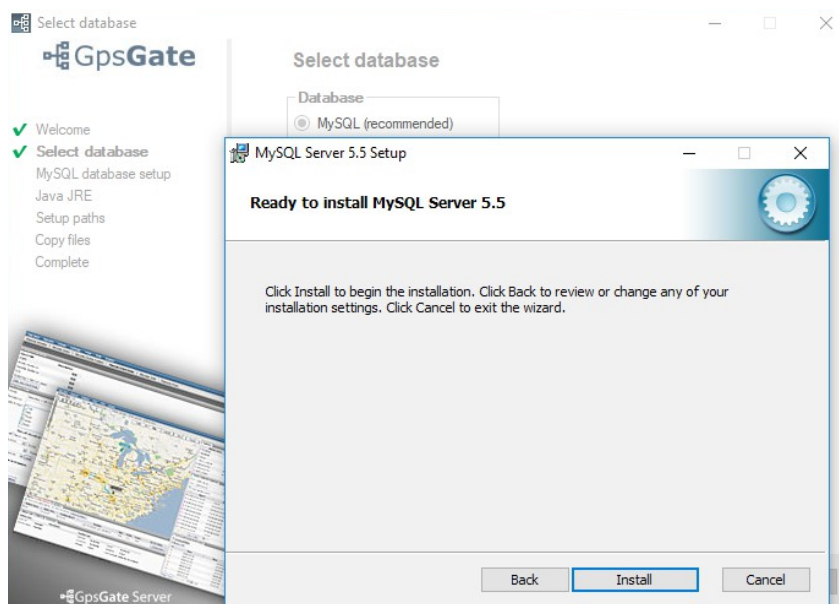
Step 5: Accept the terms of the License Agreement and click 'Next' to proceed.



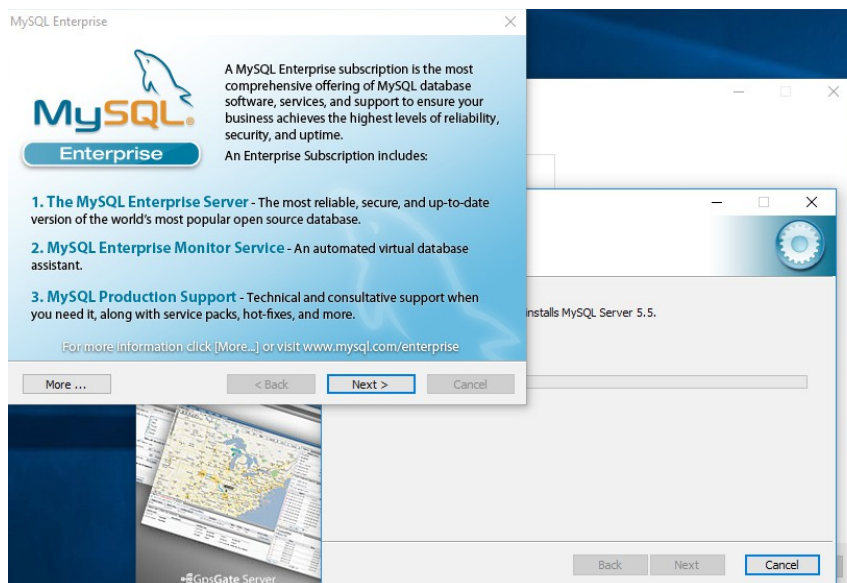
Step 6: When prompted, choose the 'Typical' installation option to proceed.



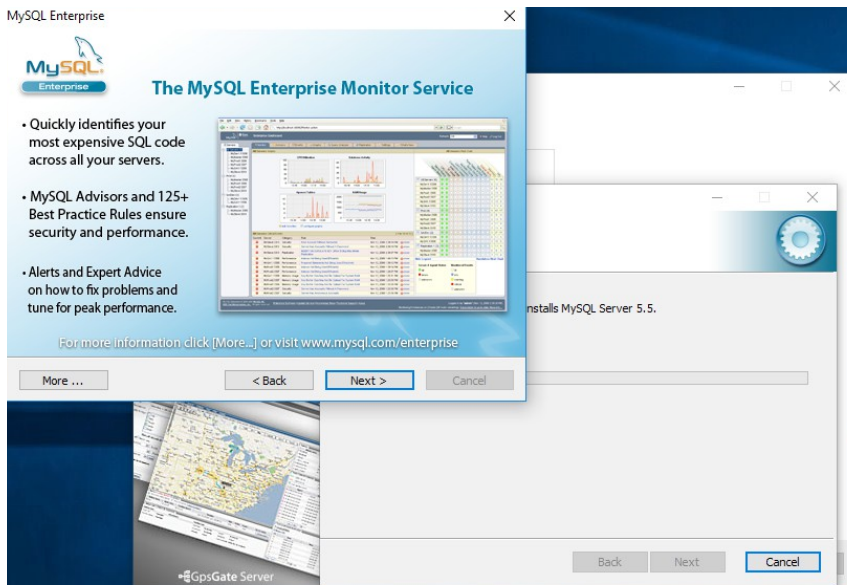
Step 7: Click 'Install' to proceed with the 'Typical' installation option.



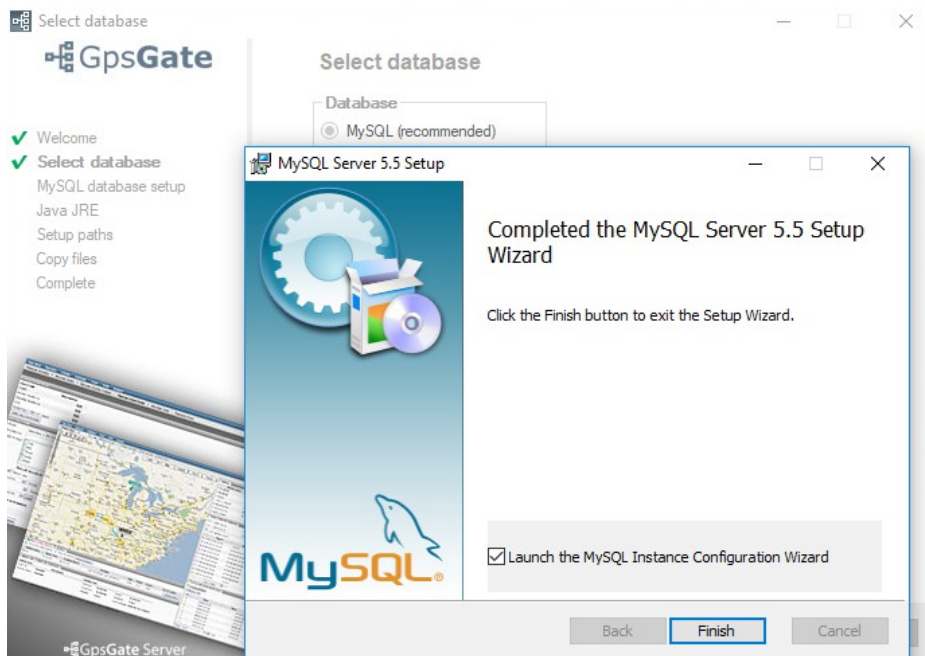
Step 8: Click 'Next' to proceed.



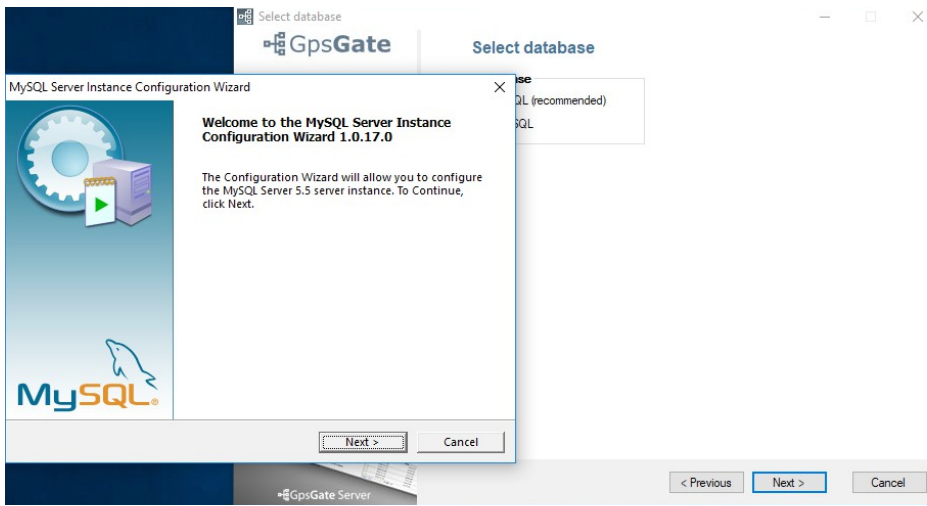
Step 9: Click 'Next' to proceed.



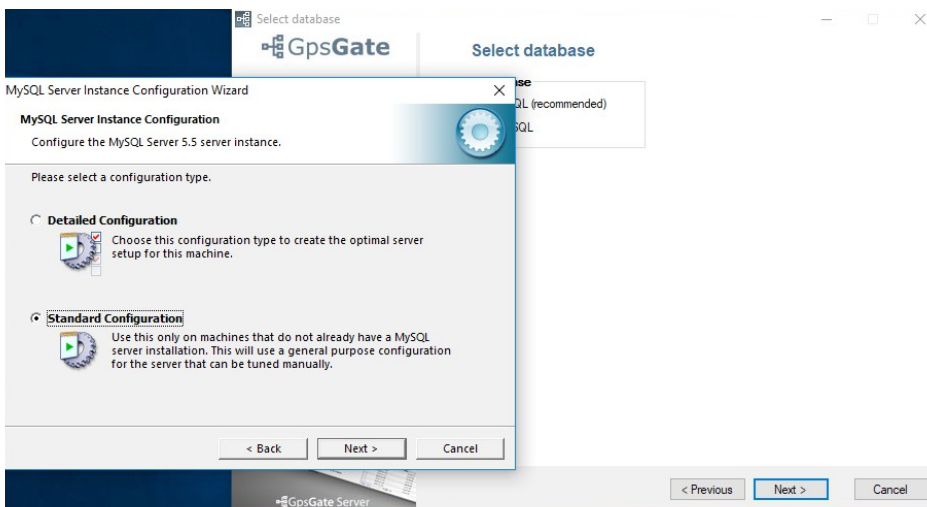
Step 10: Once the installation is complete, click 'Finish' to complete, and this will automatically launch the 'MySQL Instance Configuration' wizard.



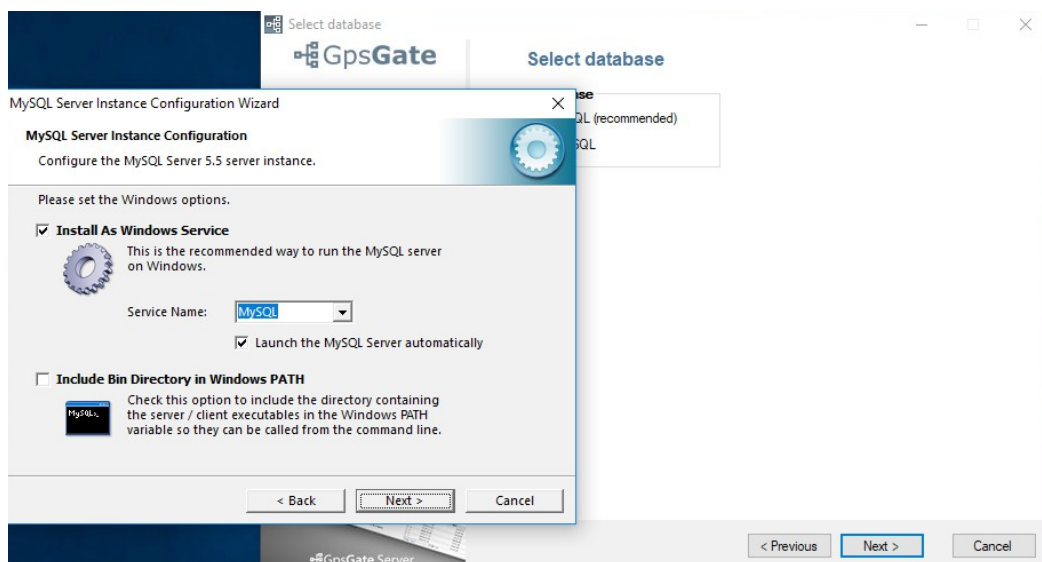
Step 11: When prompted, click 'Next' to proceed.



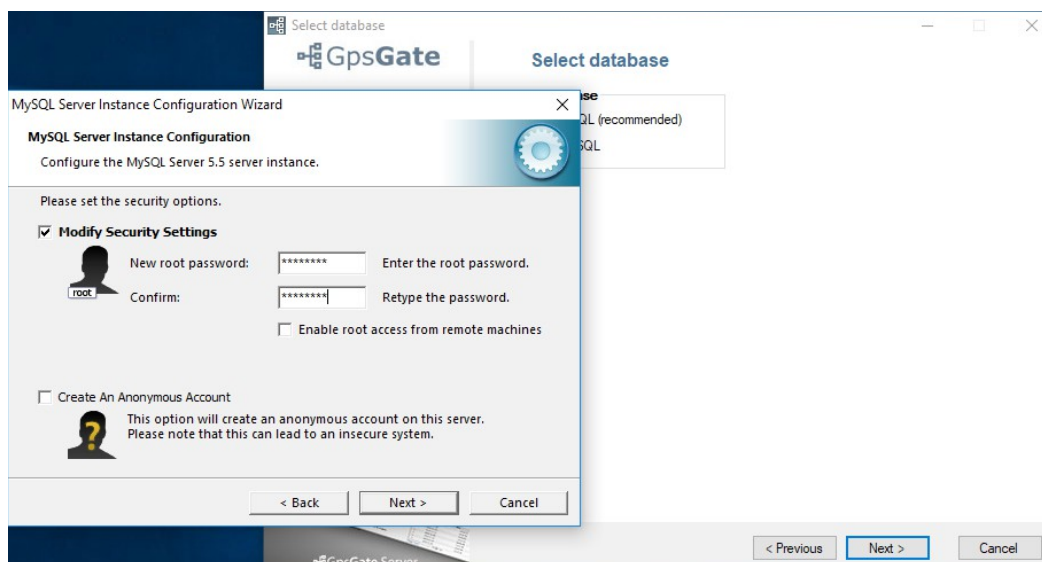
Step 12: Choose the 'Standard Configuration' option and click 'Next' to proceed.



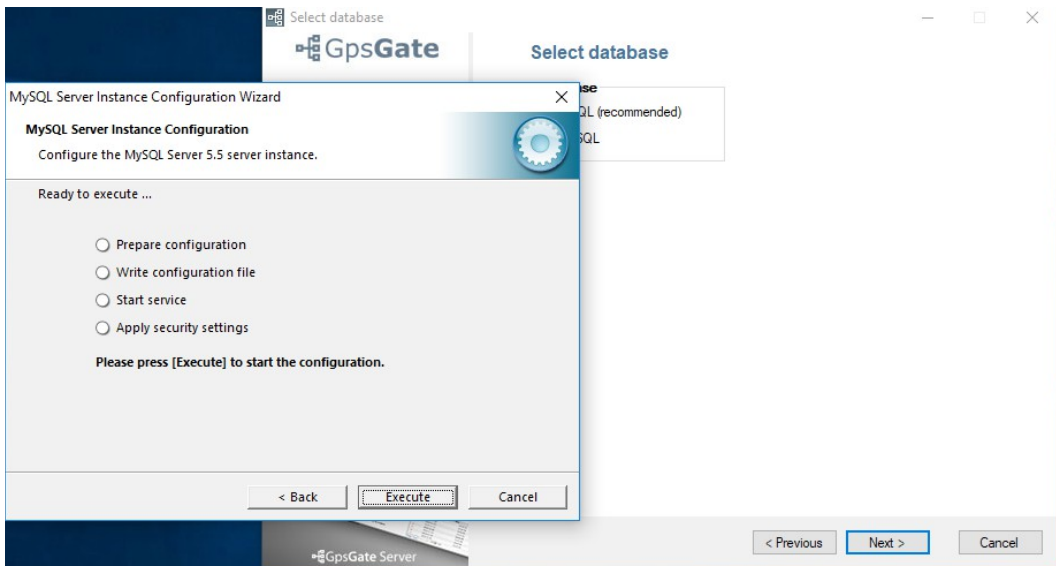
Step 13: Ensure the 'Install as Windows Service' option is ticked, leave other settings as default, click 'Next' to proceed.



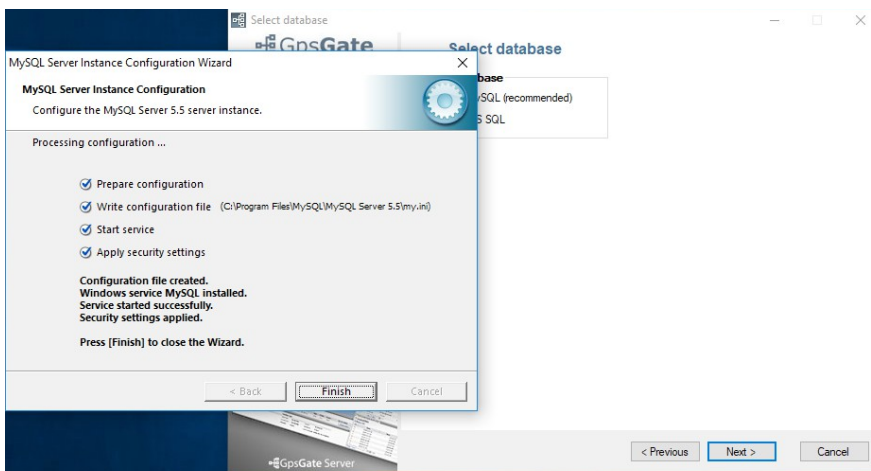
Step 14: Ensure that the 'Modify Security Settings' is ticked and type in a suitable password. Once done, click 'Next' to proceed.



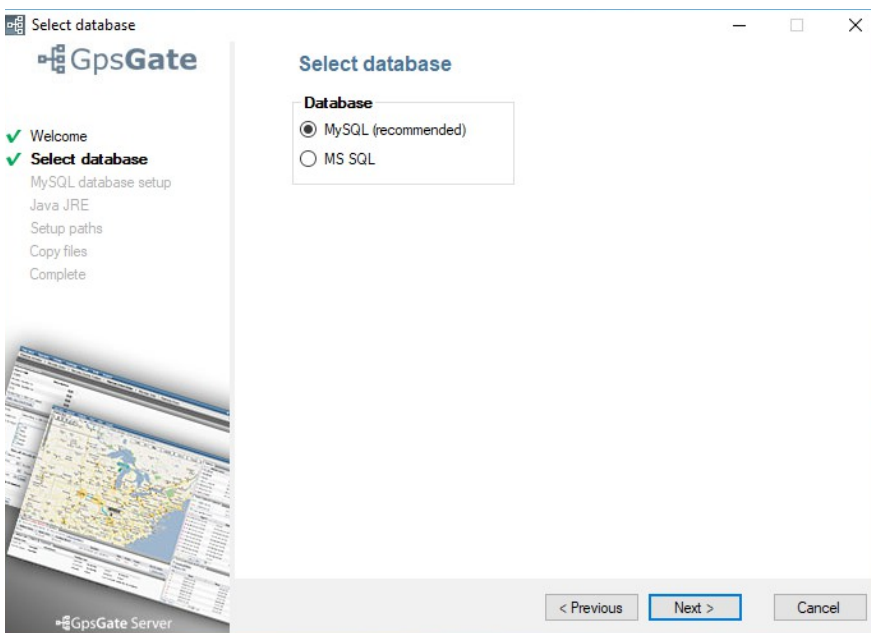
Step 15: Click 'Execute' to apply the chosen configuration settings.



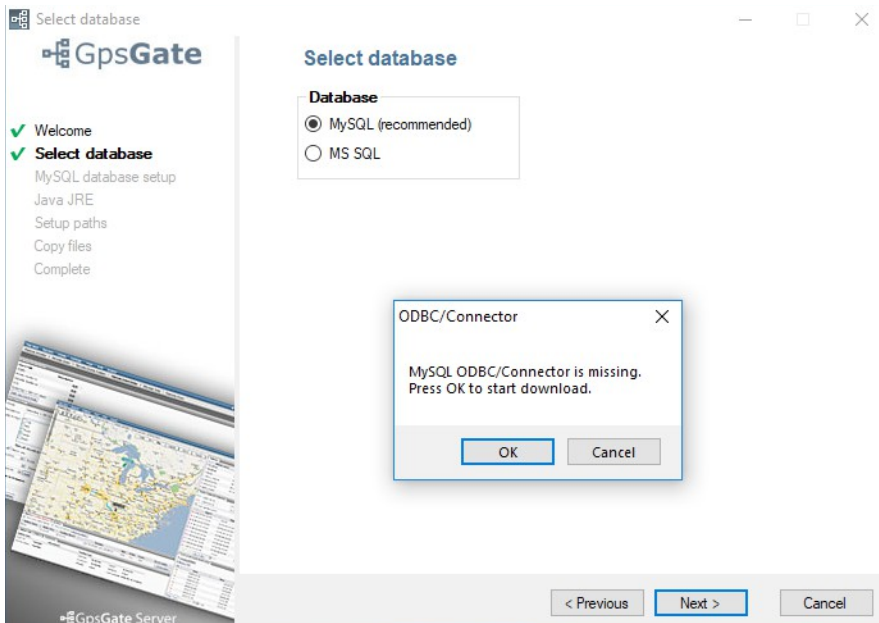
Step 16: Once the configuration process has completed, click 'Finish' to close the wizard.



Step 17: Click 'Next' to proceed.



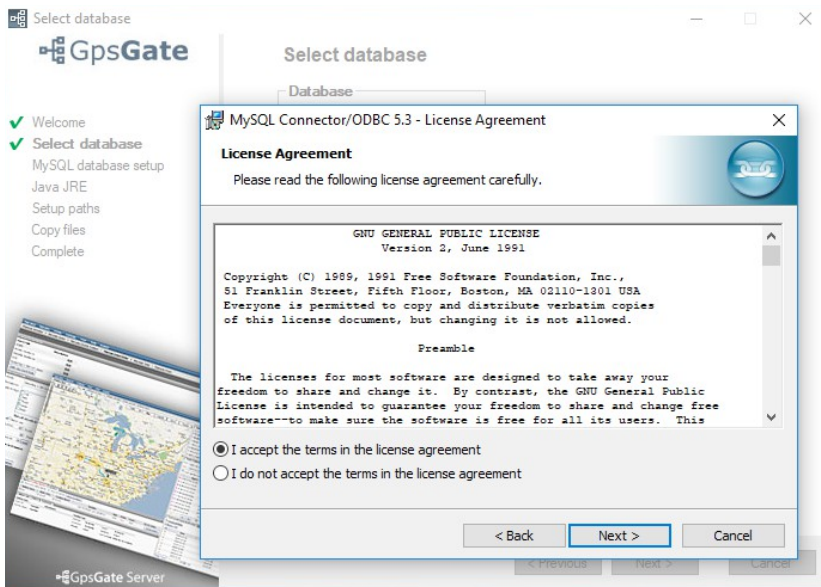
Step 18: If 'MySQL ODBC/Connector' is not already installed, you will be prompted to install it. Click 'OK' to download and start the installation wizard.



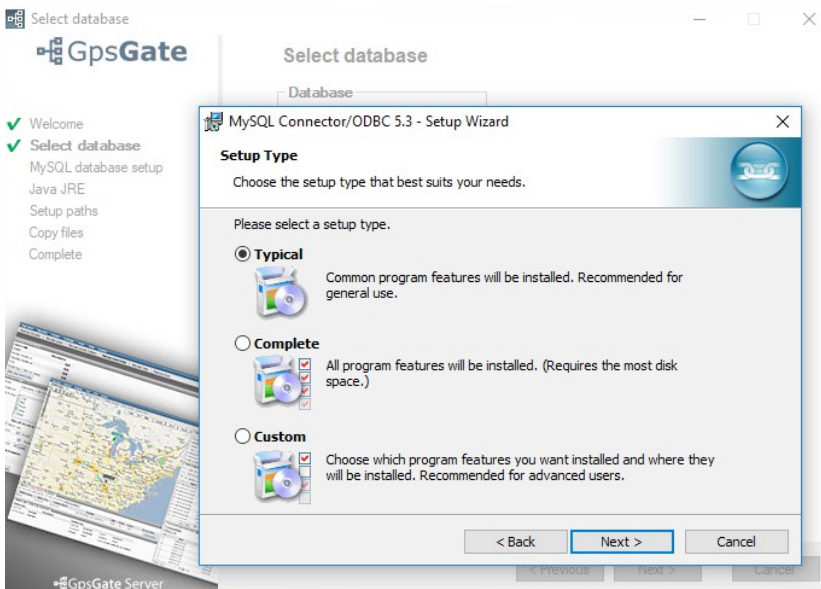
Step 19: Click 'Next' to proceed.



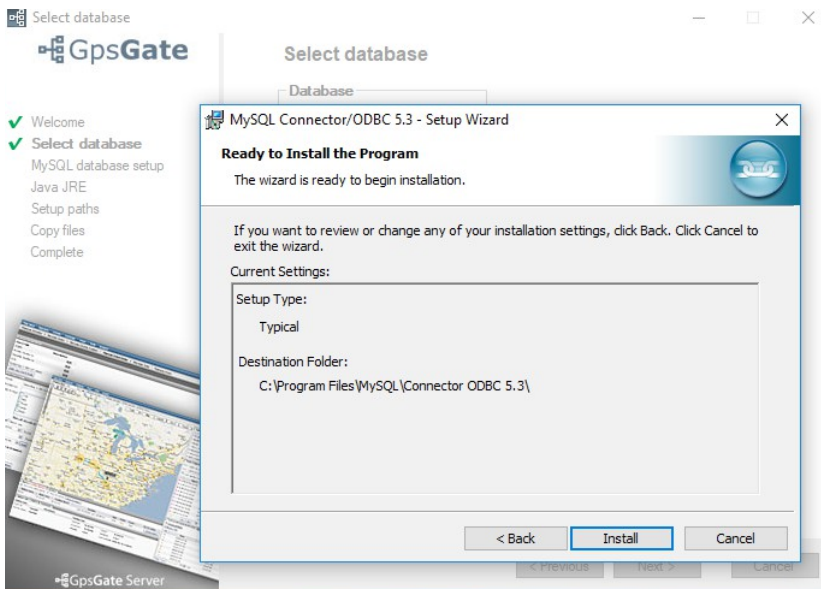
Step 20: Accept the terms of the License Agreement and click 'Next' to proceed.



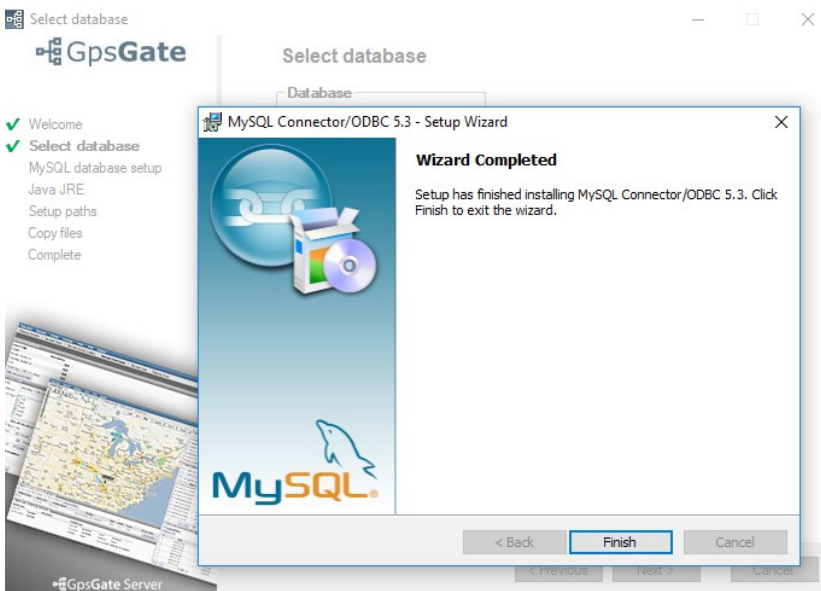
Step 21: When prompted, choose the 'Typical' setup option, and click 'Next' to proceed.



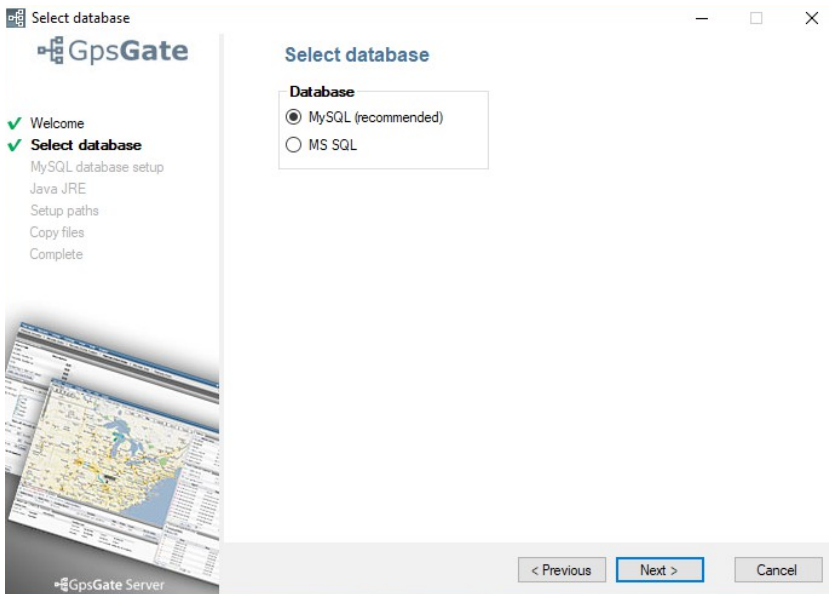
Step 22: Click 'Install' to begin the installation process.



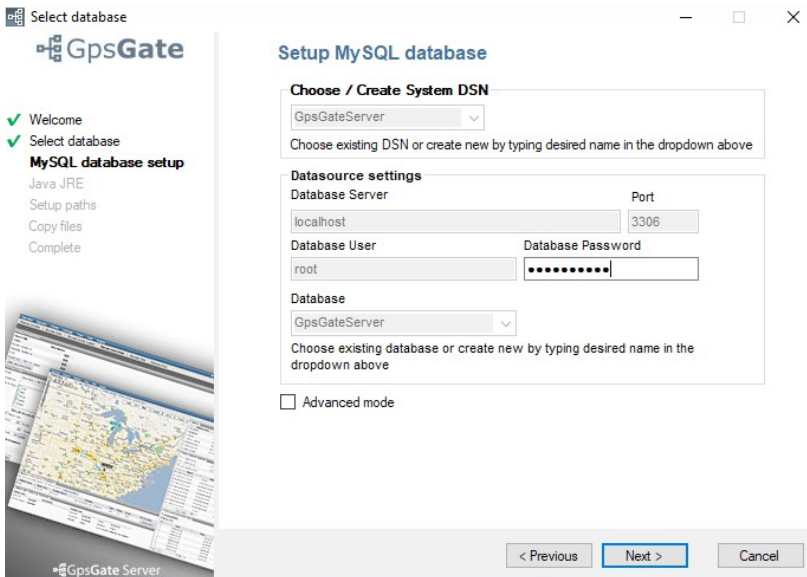
Step 23: Once complete, click `Finish` to close the wizard.



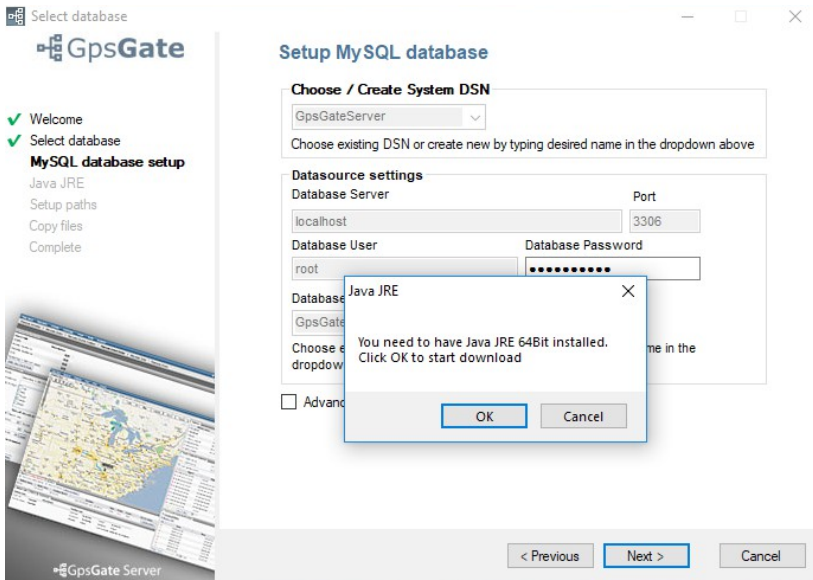
Step 24: Click `Next` to proceed.



Step 25: Provide a suitable password for the database, and click `Next` to proceed.



Step 26: If Java JRE 64Bit is not already installed, you will be prompted to download and install. Click `OK` begin the process.



Step 27: Click 'Install' to begin the installation process.



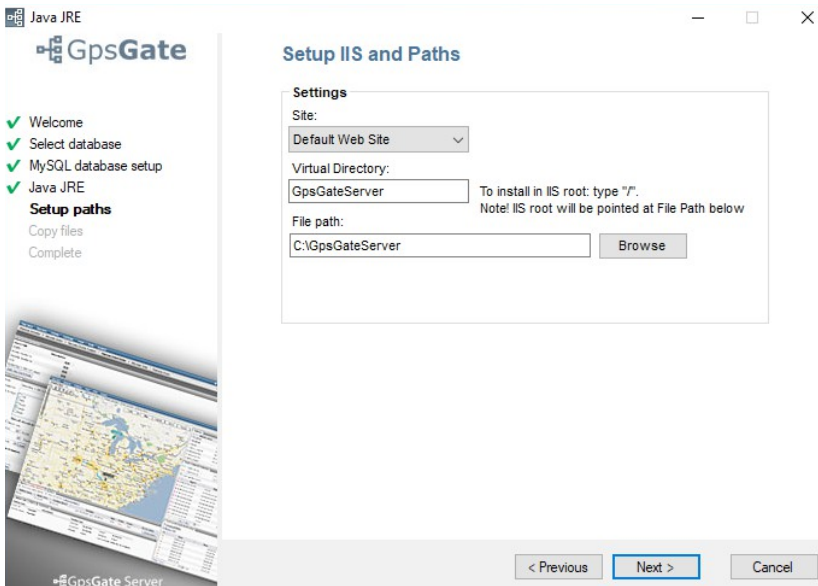
Step 28: Once the installation is complete, click 'Close' to close the installation wizard.



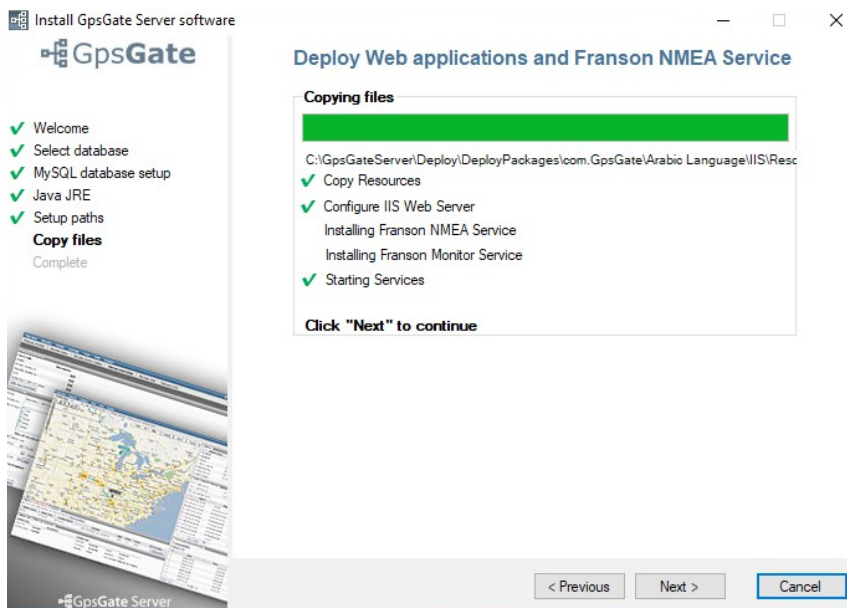
Step 29: Click 'Next' to proceed.



Step 30: Leave all settings as default, and click 'Next' to commence the process of copying the configuration files.



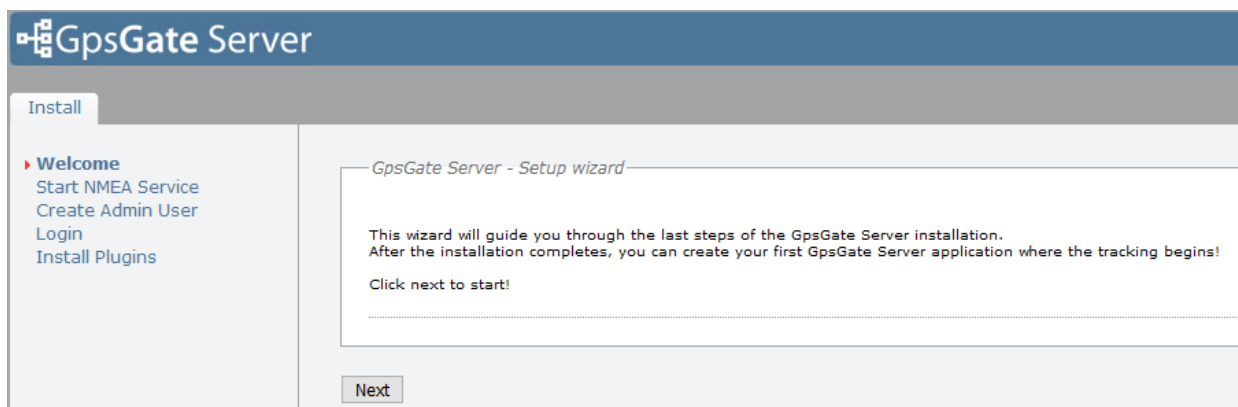
Step 31: Once complete, click 'Next' to proceed.



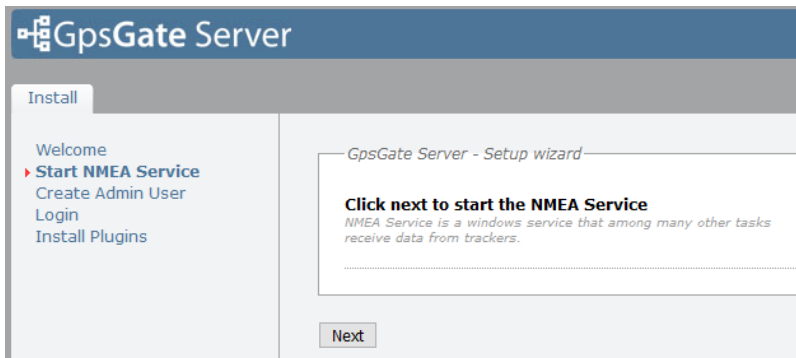
Step 32: The installation process is now complete, click 'Finish' to close down the wizard, and launch GpsGate Server automatically in your default web browser.



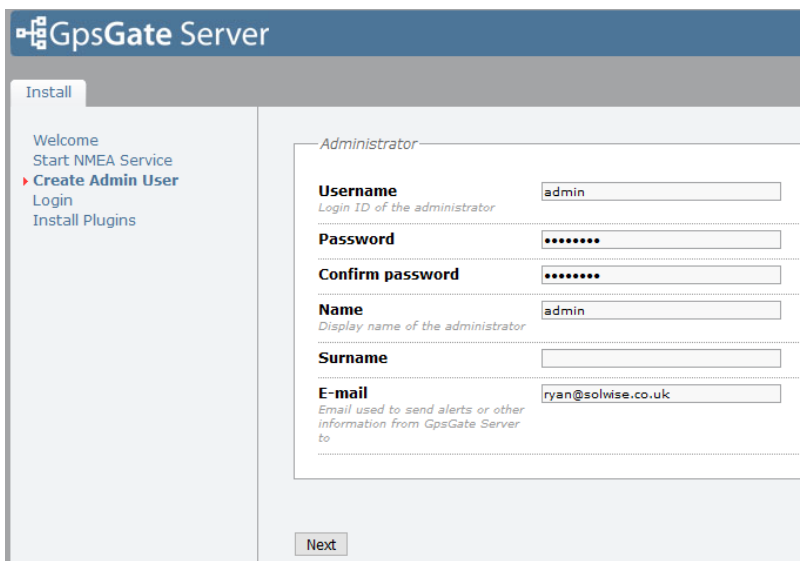
Step 33: Click the 'Next' button to start the GpsGate Server setup.



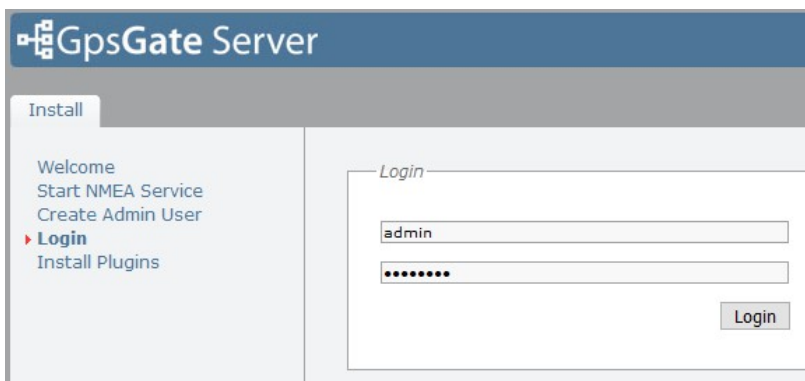
Step 34: Click the `Next` button to start the NMEA Service.



Step 35: Create an Admin User by typing a suitable Username, Password, Name and E-Mail account. Once done click `Next` to proceed.



Step 36: Sign in with the Admin credentials.



Step 37: Click `Next` to begin the installation of the default plugins.

Install

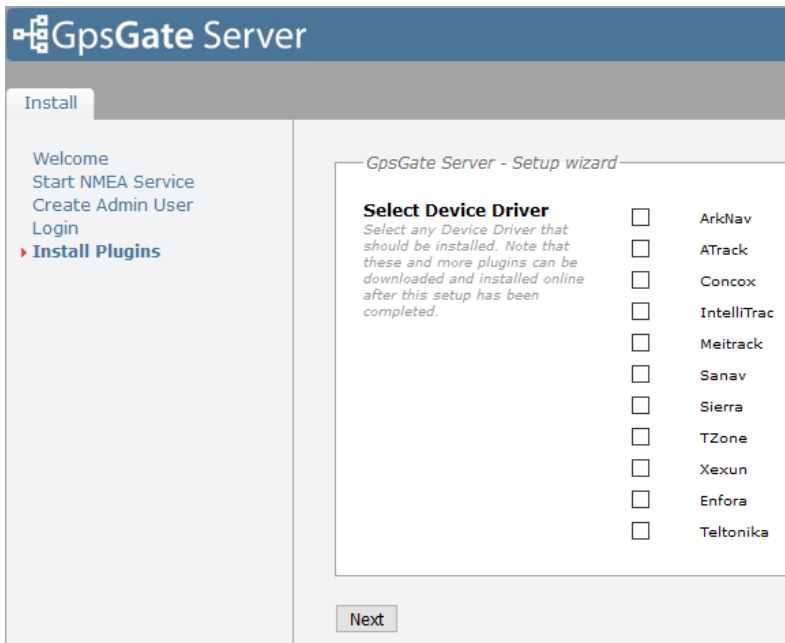
- Welcome
- Start NMEA Service
- Create Admin User
- Login
- ▶ **Install Plugins**

GpsGate Server - Setup wizard

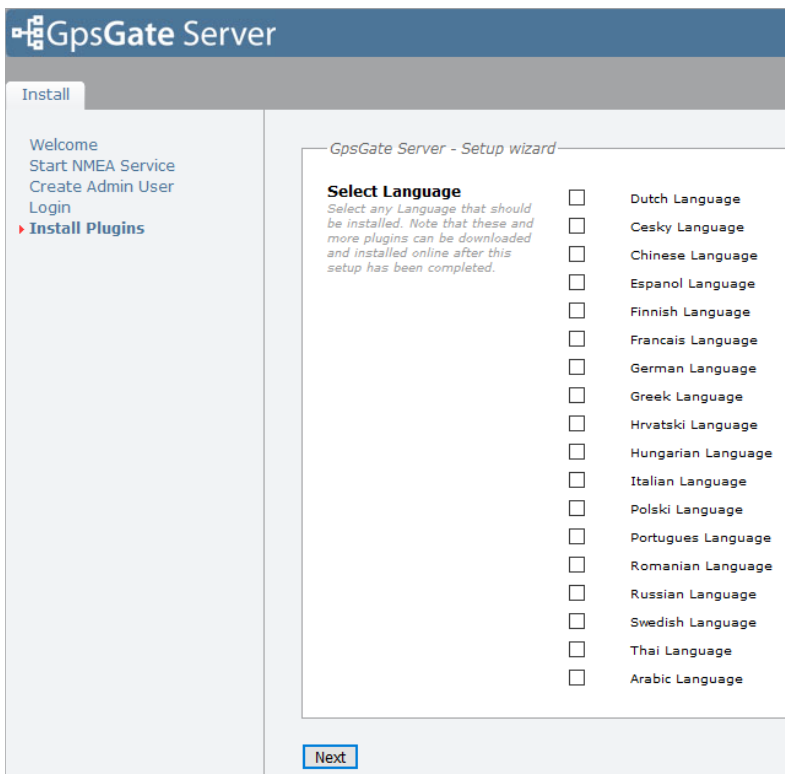
Click Next to initialize plugin installation. This may take a moment.

Next

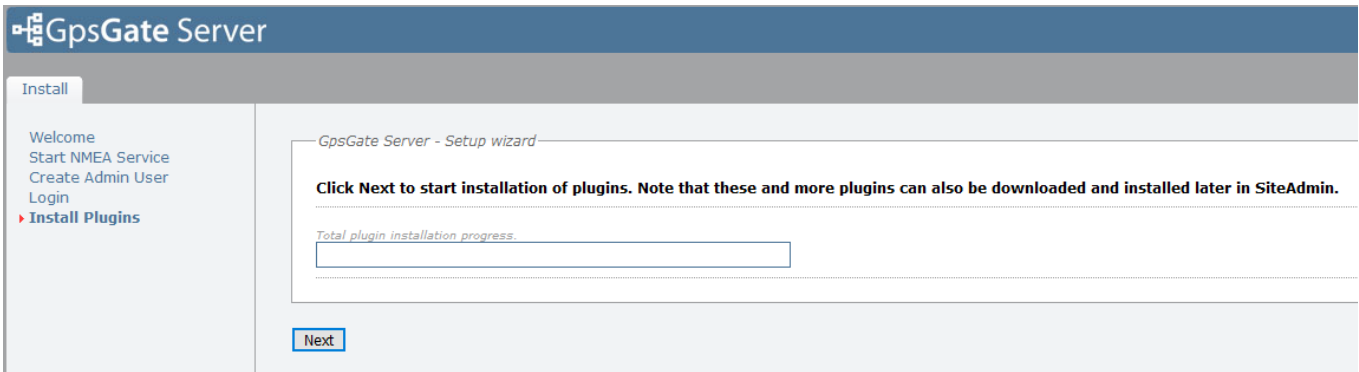
Step 38: Unless specific device drivers are required, choose them here, otherwise click `Next` to continue.



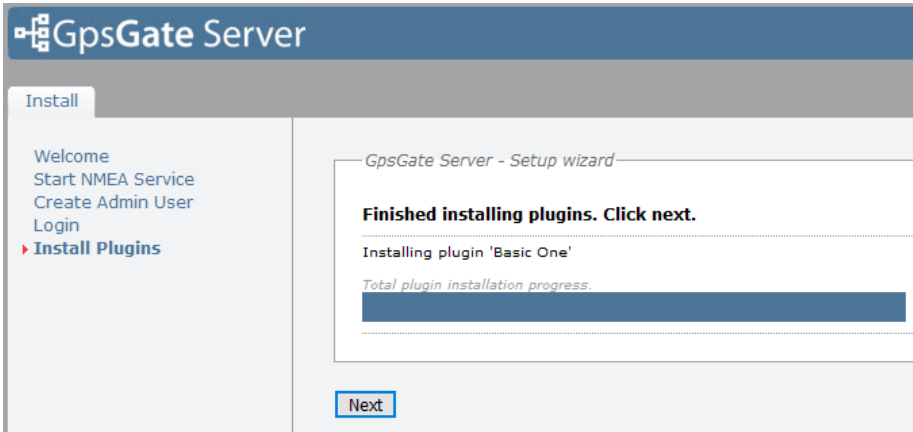
Step 39: Unless a specific language needs to be installed, click `Next` to proceed.



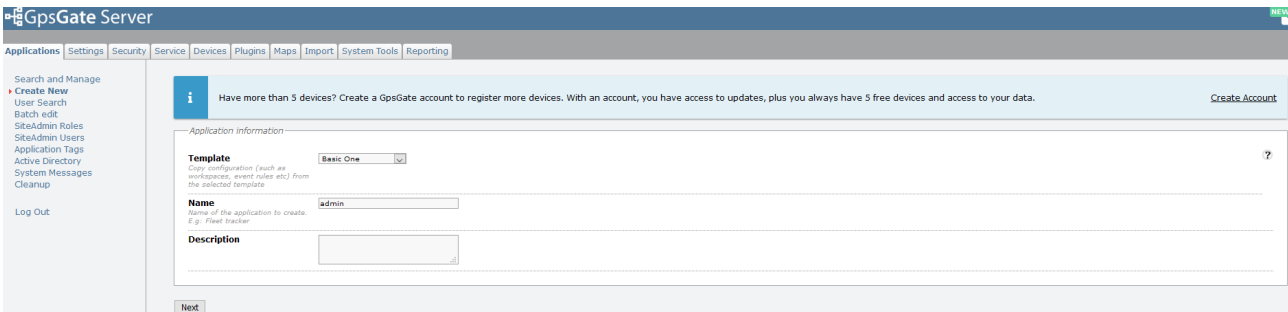
Step 40: Click `Next` to begin the installation of the plugins.



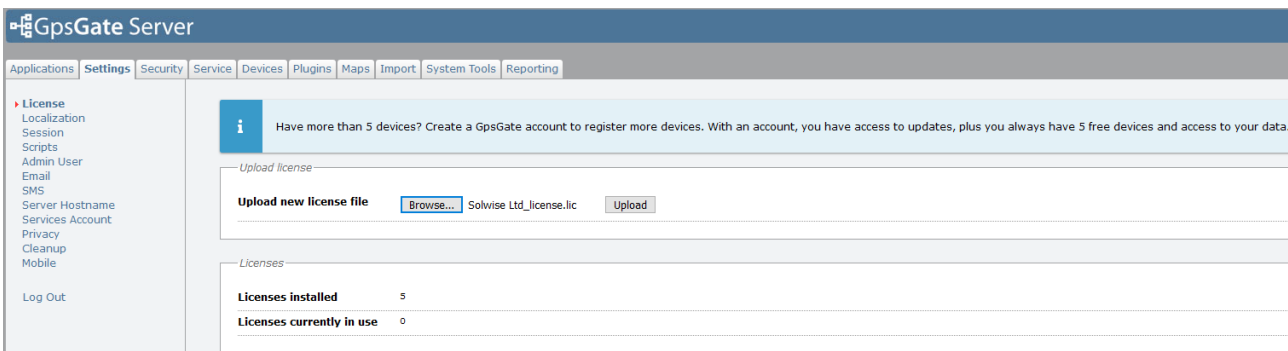
Step 41: Once the plugins have installed, click 'Next' to proceed.



Step 42: By default, it will now prompt you to create a new application, however before that, navigate to the 'Settings' tab and choose the license option.



Step 43: Click the 'Browse' button to find the downloaded licence file you received when signing up for a GpsGate account and click 'Upload' to upload the file.



Step 44: If successful, the following screen should appear.

- License
- Localization
- Session
- Scripts
- Admin User
- Email
- SMS
- Server Hostname
- Services Account
- Privacy
- Cleanup
- Mobile
- Log Out

Current payment period 1/21/2019 to 2/21/2019

The payment plan includes 5 free devices

Installed devices	Billable devices	Estimated total	Current balance
<small>The current number of installed devices</small> 0	<small>The current number of billable devices</small> 0	<small>For this payment period</small> \$0 0 monthly average devices x \$2	<small>until today for this payment period</small> \$0 0 monthly average devices x \$2

Payment history

You have no payment history

Step 45: Now that the license file has been updated. Create a new user via the `Applications / Create New` tab. Fill in suitable credentials and click `Next`.

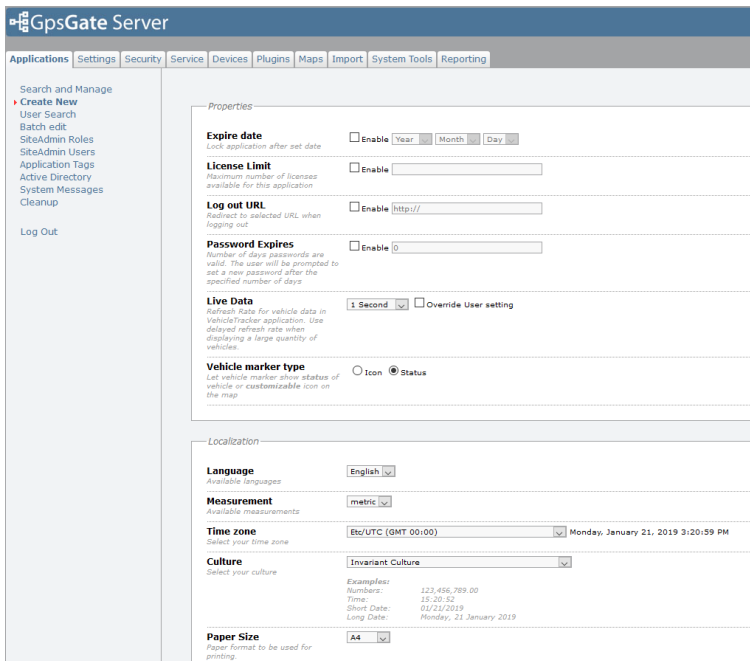


The screenshot shows the 'GpsGate Server' interface with the 'Applications' menu open to 'Create New'. The form is titled 'Administrator' and includes the following fields and options:

- New / Existing:** Radio buttons for 'Create new' (selected) and 'Add existing'.
- Username:** Text input with 'admin' entered. Subtext: 'Login ID of the administrator'.
- Password:** Password input field with masked characters.
- Confirm password:** Password input field with masked characters.
- Name:** Text input with 'admin' entered. Subtext: 'Display name of the administrator'.
- Surname:** Empty text input field.
- E-mail:** Text input with 'ryan@solwise.co.uk' entered. Subtext: 'Email used to send alerts or other information from GpsGate Server to'.

Navigation buttons at the bottom: 'Previous', 'Next', and 'Cancel'.

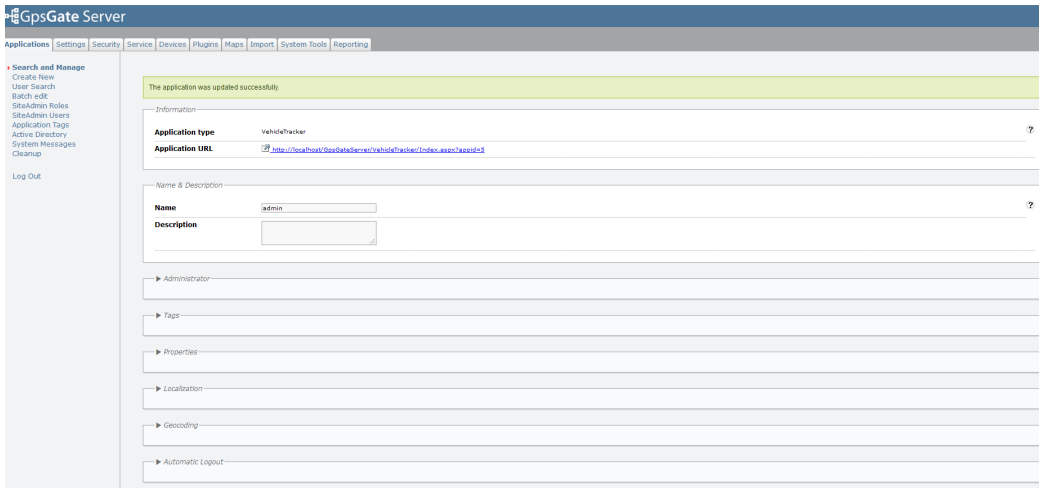
Step 46: If required, configure any additional settings, scrolling down to the bottom and clicking `Next` once done.



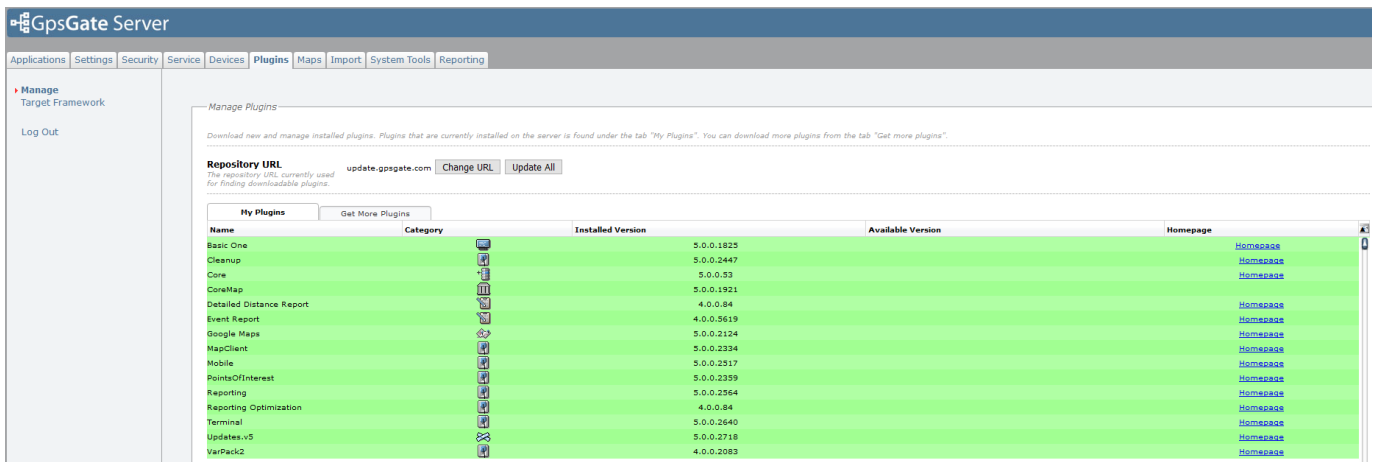
The screenshot shows the 'GpsGate Server' interface with the 'Properties' settings page. The settings are organized into two sections:

- Properties:**
 - Expire date:** 'Enable' checkbox, with 'Year', 'Month', and 'Day' dropdowns.
 - License Limit:** 'Enable' checkbox, with a text input field.
 - Log out URL:** 'Enable' checkbox, with a text input field starting with 'http://'.
 - Password Expires:** 'Enable' checkbox, with a text input field containing '0'.
 - Live Data:** 'Refresh rate' dropdown set to '1 Second', and 'Override User setting' checkbox.
 - Vehicle marker type:** Radio buttons for 'Icon' and 'Status' (selected).
- Localization:**
 - Language:** Dropdown menu set to 'English'.
 - Measurement:** Dropdown menu set to 'metric'.
 - Time zone:** Dropdown menu set to 'Etc/UTC (GMT 00:00)', with a timestamp 'Monday, January 21, 2019 3:20:59 PM'.
 - Culture:** Dropdown menu set to 'Invariant Culture', with a list of examples for Numbers, Time, Short Date, and Long Date.
 - Paper Size:** Dropdown menu set to 'A4'.

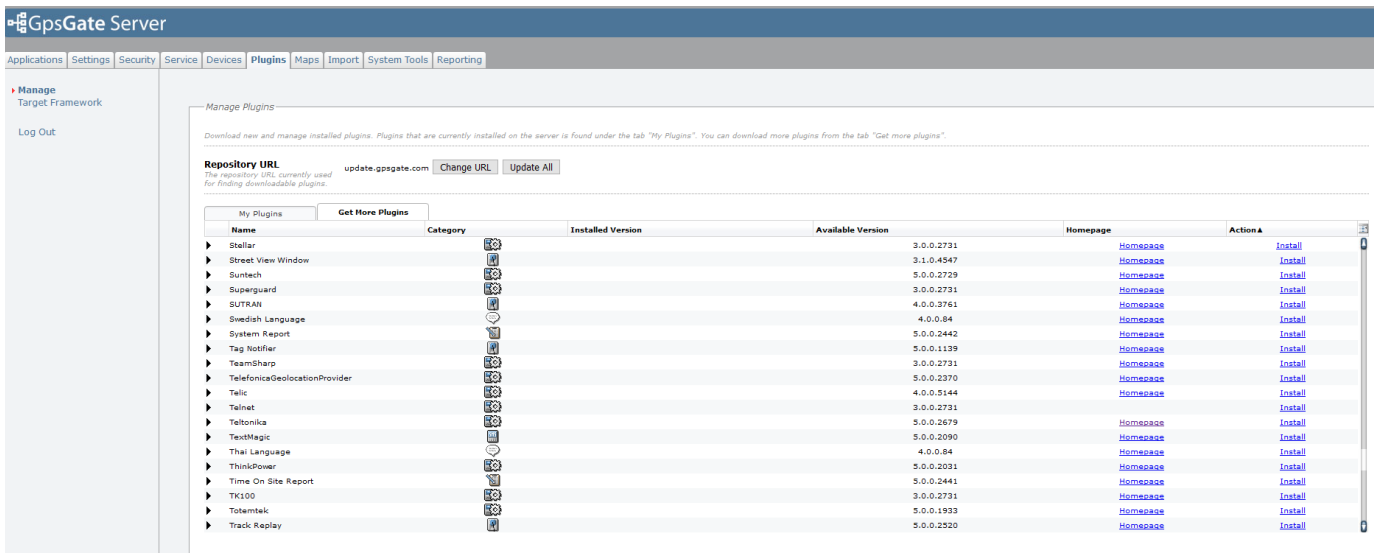
Step 47: Configure any additional settings, scroll down to the bottom of the page and click `Finish` to complete the application.



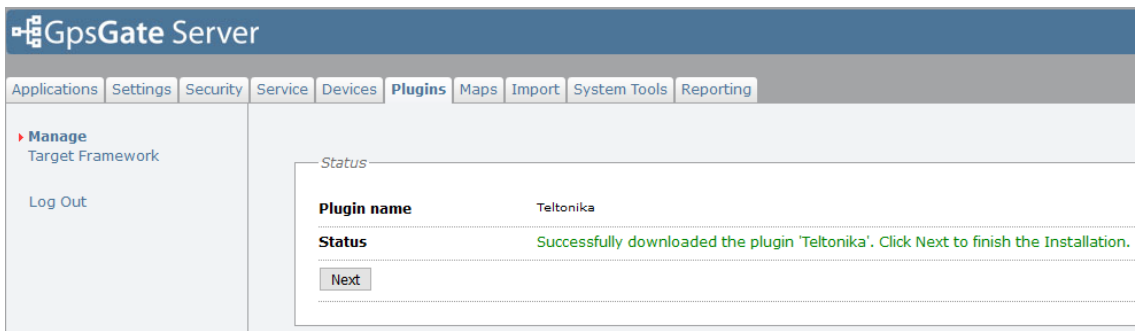
Step 48: Next navigate to the 'Plugins' tab and choose the 'Get More Plugins' option.



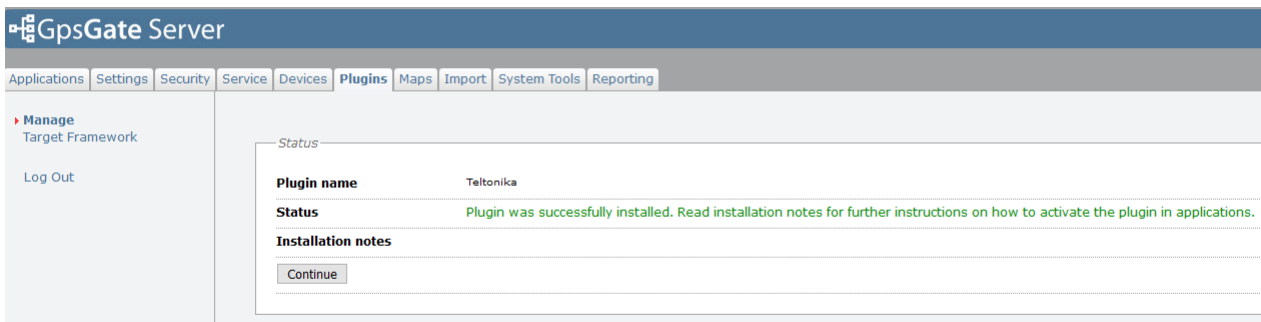
Step 49: Scroll down to find the 'Teltonika' plugin and click 'Install'.



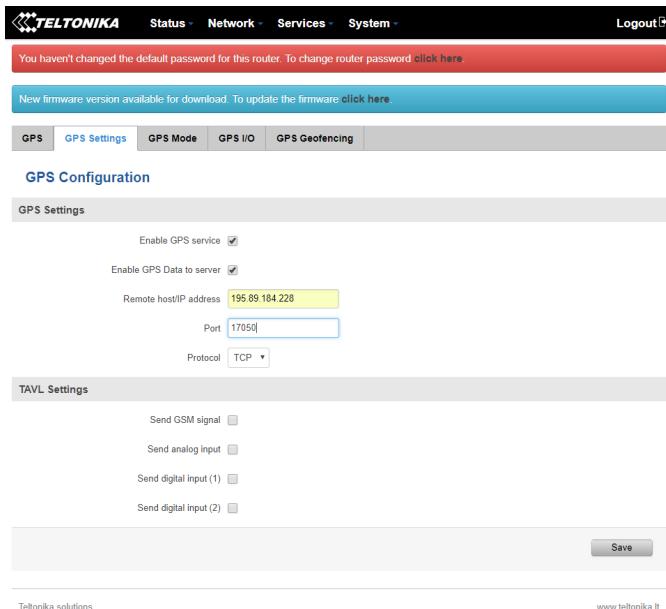
Step 50: Once the plugin has downloaded, click 'Next' to install.



Step 51: Once the installation is successful, then click 'Continue' to complete the process.



Step 52: Now that the Teltonika plugin is installed, connect the RUT router to your network (note only the RUT955 and RUT850/GPS models support GPS functionality) and access the web interface (192.168.1.1). Navigate to Services / GPS / GPS Settings and ensure that that both 'GPS Service' and 'Enable GPS Data to server' options are ticked. The 'Remote host/IP address' matches the public address of the GpsGate Server and 17050 is entered in the 'Port' section. Note this has to be the address for **YOUR** GpsGate server... **NOT** the address shown in the image – this was just the one used for our testing. Click the 'Save' button once done.



Step 53: To check connectivity between the RUT router and the GpsGate Server. Navigate to the 'Devices' tab and click the four 'Test' buttons, if successful, a green tick will appear. Any devices with GPS enabled will now start to appear as 'unknown'. Click on the 'View unknown devices' to list them.

Public IP Address
195.89.184.228

Listeners

Started TCP and UDP listeners with Public Access are ready to receive data from tracking devices. The Test button tests public access with a web service that simulates a connecting device. Read Doubleclick's [docs](#) and [FAQ](#) to get help on firewall and port configuration issues.

Description	Port	Connections	Unknown Devices	Public Access	Test	Last Tested	Start / Stop	Edit
GpsGate Protocol over Direct	0	0					Start Stop	
GpsGate Protocol over HTTP	8008	0					Start Stop	
GpsGate Protocol over SMS	0	0					Start Stop	
GpsGate Protocol over TCP/IP	30175	1		✓	Test	1/21/2019 3:39:25 PM	Start Stop	
<p>Public Access Enabled (tested 1/21/2019 3:39:25 PM)</p> <p>Test Results: Trying to send test data to listener. Test data sent to listener OK. Checking for incoming test data. Received all test data.</p>								
GpsGate Protocol over TCP/IP with SSL	30177	0					Start Stop	
GpsGate Protocol over UDP	30175	2		✓	Test	1/21/2019 3:39:20 PM	Start Stop	
Handles unknown messages	0	0					Start Stop	
Plain text direct listener	0	0					Start Stop	
Plain text email listener	0	0					Start Stop	
Plain text sms listener	0	0					Start Stop	
Protocol over Direct for Scripts	0	0					Start Stop	
Teltonika Protocol over SMS	0	0					Start Stop	
Teltonika Protocol over TCP/IP	12050	0	1 unknown	✓	Test	1/21/2019 3:39:23 PM	Start Stop	
Teltonika Protocol over UDP	12050	1		✓	Test	1/21/2019 3:39:21 PM	Start Stop	

Step 54: Click on the 'IMEI' number to load up the properties for the unknown device.

Unknown Devices

IMEI	Date
861107036811306	1/21/2019 3:40:19 PM

Back

Step 55: Fill in the details for the 'Device Type Instance', 'Application', 'Username' and 'Name'. Once finished, click 'Save' to continue.

Unknown Device

Assign device to a new user in an existing application.

IMEI
Selected device: 861107036811306

Device Type Instance
Select a device type instance: Teltonika RUT955

Application
Select an existing application: admin

Username
Identifier of user. This can not be changed after creating the user: RUT955

Name
Visible name of user. This can be changed after creating the user: RUT955

Save Cancel

Step 56: Since a new device has been added, you will be prompted to sign into the application. Choose a user and click 'Login', this will open the credential page.

GpsGate Server

Applications Settings Security Service **Devices** Plugins Maps Import System Tools Reporting

Listeners
Commands
Types
Variables
Geolocation
Log Out

admin (admin) Login Cancel
Note: cannot impersonate SiteAdmin users.
Device added to new user in application successfully. Would you like to log in to the application (admin)?

Public IP Address
Public IP Address: 195.89.184.228
This is the public IP address used by the server. Connect tracking devices to this address.

Listeners
Started TCP and UDP listeners with Public Access are ready to receive data from tracking devices.
The Test button tests public access with a web service that simulates a connecting device.
Read [Troubleshooting Ports and Firewall](#) to get help on firewall and port configuration issues.

Description	Port	Connections	Public Access	Test	Last Tested	Start / Stop	Edit
GpsGate Protocol over Direct	0	0				Start Stop	
GpsGate Protocol over HTTP	8008	0				Start Stop	
GpsGate Protocol over SMS	0	0				Start Stop	
GpsGate Protocol over TCP/IP	30175	1	✓	Test	1/21/2019 3:39:25 PM	Start Stop	

Public Access Enabled (tested 1/21/2019 3:39:25 PM)

Test Results:
Trying to send test data to listener.
Test data sent to listener OK.
Checking for incoming test data.
Received all test data.

GpsGate Protocol over TCP/IP with SSL	30177	0				Start Stop	
GpsGate Protocol over UDP	30175	0	✓	Test	1/21/2019 3:39:20 PM	Start Stop	
Handles unknown messages	0	0				Start Stop	
Plain text direct listener	0	0				Start Stop	
Plain text email listener	0	0				Start Stop	
Plain text sms listener	0	0				Start Stop	
Protocol over Direct for Scripts	0	0				Start Stop	

Step 57: Type the 'Username' and 'Password' and click 'Log in' to sign in.

Username

admin

Password

●●●●●●●●

➔ Log In

Step 58: The tracker interface will now list any detected devices under vehicles and plot them on the map.

The screenshot displays a web-based vehicle tracking interface. On the left, a map shows a residential area with a red location pin for vehicle RUT955. The map includes standard navigation controls like zoom in (+), zoom out (-), and a search icon. Below the map, a sidebar provides details for the selected vehicle: RUT955, with coordinates Lat Long 53.72018 -0.42801 and a 'Show more' button. The right-hand sidebar contains a 'Vehicles (1)' list with columns for Name, Last seen, Track, and Status. Below this is a 'Tracks' section with filters for Start and Stop dates and times, and buttons for 'Draw tracks' and 'Select'. At the bottom right, there are 'Track points' and 'Export' options, along with a 'Show graph' button and a 'Draw tracks' button. The interface is clean and professional, typical of a SaaS application.

Solwise Ltd 2019