

Application Note

Activating your ACM5000-GV for Verizon using the PWS Wireless Data Device Activation System

Introduction

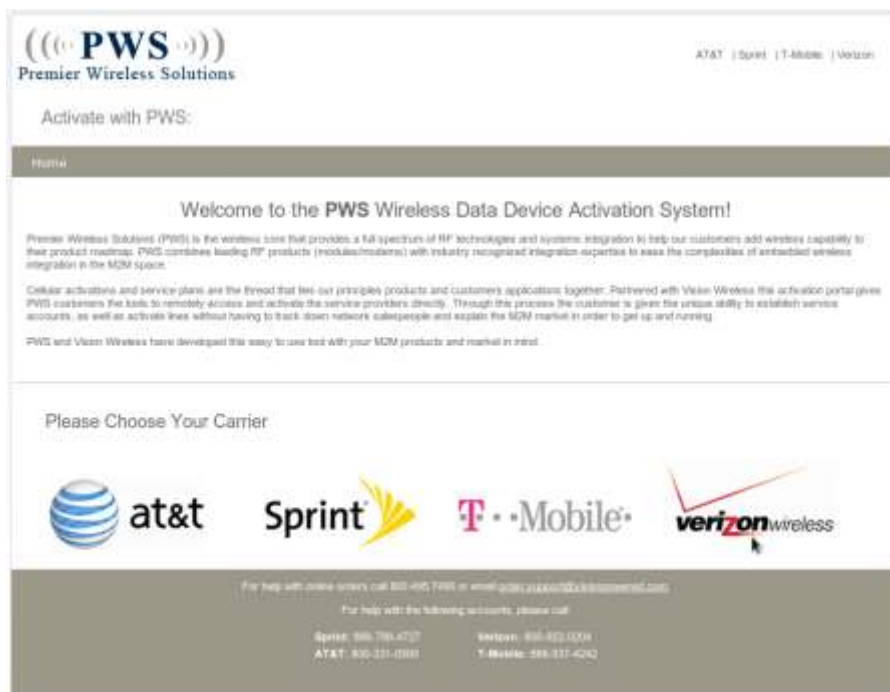
This guide walks users based in the USA through setting up the appropriate **ACM5000-GV** device for **Verizon** online using the **Wireless Data Device Activation System** provided by **PWS (Premier Wireless Solutions)**.

Reasoning

The **ACM5000-GV** can provide a publicly reachable IP address for **Always on Out-of-Band** access via **Verizon's** 3G Network. If you already have a corporate account with **Verizon** or if you would like them as your Carrier, the **Wireless Data Device Activation System** is a convenient method for creating an account or adding a new line for use with an existing account.

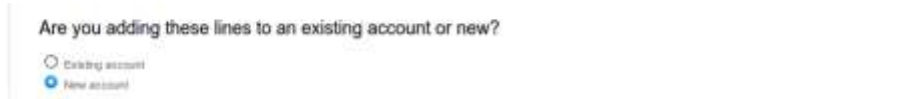
Creating a new Verizon Corporate Account online

1. Select **Verizon** as your carrier, navigate your web browser to <http://pws.visionpowered.com/carriers.html> and click on **Verizon**.



This will start the ordering process where you will be prompted for your line preferences.

- Specify if you need a new account or want to add a line to an existing account.

A screenshot of a web form titled "Are you adding these lines to an existing account or new?". It contains two radio button options: "Existing account" (unselected) and "New account" (selected).

Note that if you are adding a line to an existing account you will need to be authorized by **Verizon** to do so and will be required to enter the existing account details before the order is finished.

- Select a Corporate Account.

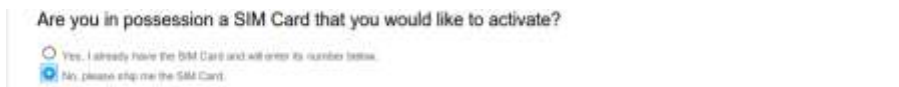
A screenshot of a web form titled "Is this a corporate or individual account?". It contains two radio button options: "Corporate account" (selected) and "Individual account" (unselected).

- Specify the number of Opegear devices / lines needed.

A screenshot of a web form with two input methods. The first is "Enter count of devices:" with a text box containing "1" and a "Go" button. The second is "Upload Spreadsheet:" with a "Browse..." button, an "Upload" button, and a "Download Example" link.

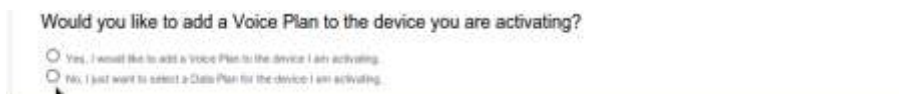
- Getting past the SIM Card question.

The SIM card is not needed for a Voice or Data plan the ACM5000-GV will use but you will need to select "No" here to be able to check-out later.

A screenshot of a web form titled "Are you in possession a SIM Card that you would like to activate?". It contains two radio button options: "Yes, I already have the SIM Card and will enter its number below." (unselected) and "No, please skip the SIM Card." (selected).

- Adding a voice plan.

If you are planning on using the ACM5000-GV for IP access only then the voice plan will not be required. Be sure to read details of individual plans before you commit as subtle feature such SMS and Email attachments may not be included in your usage.

A screenshot of a web form titled "Would you like to add a Voice Plan to the device you are activating?". It contains two radio button options: "Yes, I would like to add a Voice Plan to the device I am activating." (unselected) and "No, I just want to select a Data Plan for the device I am activating." (unselected).

- Specify the plan details and checkout.

You can now select one of the plans offered by **Verizon** available from **PWS**. Your plan should allow for the expected data usage per month, for example if you plan on running an outbound VPN client from the Opegear device for **Always Up Out-of-Band** access this will consume more of data than sending occasional Email or SMS alerts.

An ESN (Electronic Serial Number) corresponding to the Opegear device will need to be provided. This can be located on the Serial Label underneath the device, or via the web **Management Console** → **Status** → **Statistics** → **Cellular** under **Hardware Information**.

Now Viewing -



Device	Plan	User Name	EIN	Requested area code	Comment/Notes (Optional)
1	Mobile Broadband Access 250MB	spenger	80044438	503	

Add more devices

Checkout

Data Plans

Verizon Business & Personal Email (Broad Data Plans)

Plan	Usage	Retail Cost	Your Cost
Business and Personal Email - Wireless Sync for BlackBerrys/Smartphones Stand Alone Data Plan	Unlimited	\$49.99	\$49.99
Personal Email - Email & Web for BlackBerry Stand Alone Data Plan	Unlimited	\$49.99	\$49.99

Verizon Mobile Broadband (Data Plans for PC Cards, USB Modems, and Netbooks)

Plan	Usage	Retail Cost	Your Cost
Mobile Broadband Access 250MB	250MB	\$99.99	\$99.99
Mobile Broadband Access 5GB	5GB	\$99.99	\$99.99

Verizon GlobalAccess Data Plan (Global PC Card Plans)

Plan	Usage	Retail Cost	Your Cost
GlobalAccess Data Plan - 5GB US/Canada; 100MB Mexico	5GB US/Canada; 100MB Mexico	\$429.99	\$129.99
GlobalAccess Data Plan - 5GB US/Canada; 200MB Mexico	5GB US/Canada; 200MB Mexico	\$219.99	\$219.99

8. Activating with PWS.

Premier Wireless Solutions

Activate with PWS:

Home | Plans | Coverage | Terms | Support

Restart Order

Welcome to the PWS Wireless Data Device Activation System!

Premier Wireless Solutions (PWS) is the wireless core that provides a full spectrum of RF technologies and systems integration to help our customers add wireless capability to their product roadmap. PWS combines leading RF products (modules/modems) with industry recognized integration expertise to ease the complexities of embedded wireless integration in the M2M space.

Cellular activations and service plans are the thread that ties our premier products and customer's applications together. Partnered with Verizon Wireless the activation portal gives PWS customers the tools to remotely access and activate the service providers directly. Through this process the customer is given the unique ability to establish service accounts, as well as activate lines without having to track down network salespeople and explain the M2M market in order to get up and running.

PWS and Verizon Wireless have developed this easy to use tool with your M2M products and market in mind.

New Corporate Account Set Up

Please enter the following information to set up an additional line on your account.

Contact Information

Company Name: Billing Contact First Name:

Billing Contact Last Name: Tax ID (TIN/EIN):

Business Number: Alternate Phone:

Billing Contact Email:

Billing Information

Billing Address 1: Billing Address 2:

Billing City: Billing State:

Billing Zip:

help | Complete Checkout

After entering the appropriate billing details checking out you will be notified via email of the status of the order. Please allow 1-2 business days for the activation of your new line.

9. Enabling and using the Internal 3G modem as an **Always on Out-of-Band** connection.

- Navigate to the Opengear web-based **Management Console** → **System** → **Dial** → **Internal Cellular Modem Tab**.



The screenshot shows the 'Internal Cellular Modem' configuration page, specifically the 'CDMA Modem Activation' section. The page has a header with 'Serial Console/Port 1' and 'Internal Cellular Modem'. Below the header, there is a sub-header 'CDMA Modem Activation'. The main content area contains the following text: 'The CDMA Modem is not provisioned/activated, please contact your carrier and provide them with the ESN: 1628743259 (0x609A0458)'. Below this, it says 'Some carriers require a second activation step before you can connect successfully to their service. If your carrier requires OTASP enter the Phone number below and click **Activate**.' There are three input fields: 'Activation Phone Number' with a text box and a small note 'The phone number to dial for OTASP (Over-the-Air Service Provisioning) activation, s.p. *22889 for Verizon'; 'MSL' with a text box and a note 'The MSL for unlocking the NAPH profile. Advanced'; 'MDN' with a text box and a note 'The Mobile Directory Number to use. Advanced'; and 'MSID' with a text box and a note 'The NAPH profile MSID to use. Advanced'. At the bottom left of the form is an 'Apply' button.

If the page displays a message about requiring **CDMA Modem Activation** you will need to refer to the documentation on Provisioning CDMA capable 3G devices (www.opengear.com/faq381-3G-CDMA-Sprint-Verizon.html) before you will be able to connect to **Verizon's** network.

- Once the Internal Cellular Modem has been properly provisioned you will see a form from which you can enable the connection:



The screenshot shows the 'Internal Cellular Modem' configuration page, specifically the 'Dial-Out Settings - Always On Out-of-Band' section. The page has a header with 'Serial Console/Port 1' and 'Internal Cellular Modem'. Below the header, there is a sub-header 'Dial-Out Settings - Always On Out-of-Band'. The main content area contains the following text: 'Enable' with an unchecked checkbox and a note 'Enable the cellular modem connection.'; 'Phone Number' with a text box and a note 'The sequence to dial to establish the connection, defaults to #777.'; and 'Custom Modem Initialization' with a text box and a note 'An optional AT command sequence to initialize the modem.' At the bottom right of the form is an 'Apply' button.

- Select **Enable** and either leave **Phone Number** blank or set it to **#777** then click **Apply** to enable your **Always On Out-of-Band** connection. The **Internal Cellular Modem** will now attempt to connect to **Verizon's** 3G network.
- To view the current status of your Internal Cellular Modem at any time navigate to the **Management Console** → **Status** → **Statistics** → **Cellular** page.
- For advanced detail and logging you can examine **Management Console** → **Status** → **Syslog**.