

User Manual



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### Preface

#### Notice

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**Note:** Emphasizes points, provides supplementary information or indicates minor problems in an expected outcome.

**Caution:** Indicates possible damage to equipment or loss of data, as well as potential problems in an expected outcome.

Warning: Indicates the possibility of minor injury to oneself or others.

Danger: Indicates the possibility of serious or fatal injury to oneself or others.

# Chapter 1

### **EN6080 Area Control Gateway Overview**

#### 1.1 Introduction

The Inovonics EN6080 area control gateway bridges the Inovonics proprietary commercial mesh network to a standard TCP/IP over Ethernet LAN, allowing the entire range of Inovonics physical security products to be added to any IP-based or PSIA revision 0.8 compliant system using RESTful web services.

Inovonics security products include motion detectors, glassbreak sensors, panic buttons and door/window sensors. All of these operate on the self-monitored and fully-supervised Inovonics EchoStream commercial mesh network. Designed to move small amounts of data over a moderate range in commercial environments, the commercial mesh network uses a frequency-hopping, spread-spectrum technology that sends redundant messages across multiple channels to avoid interference obstacles.

Due to its low latency and high reliability, the EchoStream commercial mesh network is an ideal solution for security applications. The network is secure and dedicated, ensuring personal security messages are delivered without interference from less critical applications.

The EN6080 area control gateway includes a built-in web page server for complete system setup and configuration, as well as enhanced, on-demand system supervision for detailed event audits.

This manual covers the EN6080 area control gateway's web page server. For installation information, see the *EN6080 Area Control Gateway Installation Instructions*; for information about integrating the EN6080 area control gateway into an-IP based system using RESTful web services, see the *EN6080 Area Control Gateway Integration Guide*.

#### **1.2 Recommended System Requirements**

The computer used to access the EN6080 area control gateway should meet the following requirements:

• Windows® 7 operating system.

**Note:** Performance with Windows 8, 8.1 and 10 has not been tested.

- Mozilla® Firefox® version 35 or later.
- Wired Ethernet interface.
- Minimum MTU 1280 bytes.

# **1.3 EN6080 Area Control Gateway Initial Setup and Connection**

#### 1.3.1 Configure Network Settings (for Windows 7)

The EN6080 area control gateway comes from the factory configured with a static IP address of 192.168.60.80. To initially communicate with the EN6080 area control gateway, you will need to connect to a computer's Ethernet port. This might mean disconnecting from your LAN.

To connect to the EN6080 area control gateway, you will first need to configure the network settings on your computer.

- **Note:** This procedure will change your network settings. Make a note of your current network configuration, so you can return to it when finished interfacing with the EN6080 area control gateway.
- **Note:** Inovonics recommends obtaining a USB-to-Ethernet adapter specifically for the EN6080 area control gateway to avoid having to modify your standard network configuration.

- 1. From the control panel, click "Network and Internet."
- 2. Click "Network and Sharing Center."
- 3. Click "Change adapter settings."
- **4.** Right click on the local area connection used to connect to the network, and select "Properties."
- 5. Double click "Internet Protocol Version 4 (TCP/IPv4)."
- 6. Select the "Use the following IP address" radio button.
- 7. Set the IP address to 192.168.60.1.
- **8.** Set the subnet mask to 255.255.255.0.
- 9. Click "OK."

# 1.3.2 Disable Delayed ACK Mode on the Windows® 7 Operating System

The EN6080 area control gateway currently does not respond to the delayed ACK mode of operation that some Windows 7 machines use. Microsoft has provided a fix for this as outlined below.

To disable delayed ACK mode in Windows 7 Service Pack 1 or above:

**1.** Open up the registry.

regedit.ex	1			
		Open		
		Run as administrator		
		Scan with AVG		
		Add to archive		
		Add to "regedit.rar"		
		Compress and email		
		Compress to "regedit.rar" and email		
		Pin to Taskbar		
		Pin to Start Menu		
		Restore previous versions		
		Adobe Drive CS4	×	
	0	PowerISO	×	
		Send to	•	
		Cut		
		Сору		
		Delete		
		Open file location		
Search Every		Properties		

Figure 1-1 Open the registry

- **2.** Un-collapse the following entry: [HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\services\Tcpip\P arameters\Interfaces]
- **3.** You will probably find several subfolders. Click through each folder until you find the one with the most entries in the right pane. The correct interface will have the IP address of the Windows PC fulfilled in section 1.3.2. For example: *DGCPDefaultGateway, DHCPDomain, DHCPIPAddress, Lease, NameServer, T1, etc.*



Figure 1-2 Find the subfolder with the most entries

**4.** For each of those entries in the Interfaces folder, create two DWORD registry keys called TCPAckFrequency and TCPNoDelay.

2	2		
New 🕨	Key		
0x00000001 (1)	String Value		
0x4b999303 (126835	Pinane Value		
0x4b9e84a3 (126867	Binary value		
0x00000000 (0)	DWORD (32-bit) Value		

Figure 1-3 Create DWORD registry keys

Here's an example what it should look like:



#### Figure 1-4 Edited entry example

- **5.** Double-click on each new registry key and change the value from 0 to 1. (Base hexadecimal.)
- 6. Exit the registry editor.
- 7. Reboot your PC.

# 1.3.3 Browse to the EN6080 Area Control Gateway Web Server Screens

- **8.** Open the Mozilla Firefox web browser and enter "http://192.168.60.80" in the address field.
- **9.** When prompted, enter the admin username and password.

**10.** Click the "OK" button.

**Note:** For more information about placing the EN6080 area control gateway on your local network see 3.2, "IP Administration" on page 18.

#### 1.3.4 License Key Setup

You should have received a license key to enable your EN6080 area control gateway from the Inovonics customer service department. To enter the license key:

- **1.** Click the "File Management" tab.
- **2.** Click "License Key" to display the license key page.

INOVONICS		
Home ACG Setup Wireless Setup Partitions	Device Setup Logs File Manag	ement
	System and Configuration Files   License Key	Firmware Update
No EN6080 license. Only 150 endpoints available.		Devices In Alarm: 0
0 of 150 endpoints available without a Enter License Key: Update	I license have been registered.	

Figure 1-5 The license key screen

- **3.** Enter the license key received from Inovonics in the "Enter License Key:" field.
- **4.** Click the "Update" button.
- **5.** Once the "License Update" message has displayed and the EN6080 area control gateway has rebooted, click the "Refresh" button.
- **6.** Your EN6080 is now enabled to support the number of end devices, or endpoints, allowed within the purchased tier.

# Chapter 2

### Home

#### 2.1 Home

The home screen displays a overview of system information, and allows access to the site information screen.



Figure 2-1 EN6080 area control gateway home screen

#### 2.1.1 System Connection Summary

The system connection summary fields on the home screen allow the system to be viewed at a glance.

- The "Devices Registered" field displays the total number of devices registered to the EN6080 area control gateway.
- The "Devices In Alarm" field displays the number of registered devices that are in alarm.
- The "Devices Inactive" field displays the number of registered devices that are inactive. A device is considered inactive if the EN6080 area control gateway has not received a check-in message from the device during the supervision window, indicating the radio link has been broken. This event is noted in the log as "Device Missing."

#### 2.1.2 Device Information

The device information table (located below the system connection summary) displays an overview of each registered device. All columns are sortable; simply click on any column header to sort in ascending or descending order. The search field can be used to locate specific devices; it covers data in all fields, and accepts letters and numbers, but no wildcard characters.

The following information is included:

- The "TX ID" field displays the factory coded unique identification number of the transmitter. The TX ID is primarily used for registration.
- The "Device Status" field displays whether the device is active or inactive. A device is considered active if a check in message has been received during the programmed supervision period, indicating the radio link is sound. When a device moves from the inactive to the active state, it is noted in the log as "Device Missing Clr."
- The "Alarm State" field displays whether or not the device is in a state of alarm.
- The "Type" field displays the Inovonics model number and device type.
- The "Description" field displays the user defined description of the device. Typically, this is a brief indication of where the end device is used, or, in the case of a mobile device, the name of the person to whom it is assigned.
- The "Partition" field displays the user defined area to which devices are assigned as a single entity. For instance, "front door," or "lobby." Placing

the cursor over any number in the partitions column will display the name of the partition, as shown in Figure 2-2.

) Pa	artitions
	1
	front door
	1

Figure 2-2 Partition name

#### 2.2 Site Information

The site information screen is used to view EN6080 area control gateway information and edit site information. It is only accessible to admin level users.

Home ACG Setup Wireless	Setup Partitions	Device Setup	Logs	File Management
Home   Site Information				Daviaca In Alar
	ACG Infor	mation		Devices In Alar
	EN6080 Serial Number:	90920751		
	Manufacture Date:	02-20-2013		
	Firmware Version:	0.62.69		
	Output lat			
	Contact Info	ormation		
* Facility Na	me: Engineering Lab			
* First Nam	ne:		• Rea	uired
* Last Nam	ne:			uneo
* Phone 1	Pho	no 2.	ex. 123-456-7890	

Figure 2-3 The EN6080 area control gateway site information screen

#### 2.2.1 ACG Information

Displays information about the EN6080 area control gateway.

- The "EN6080 Serial Number:" field displays the factory coded unique serial number of the EN6080 area control gateway.
- The "Manufacture Date:" field displays the manufacture date of the EN6080 area control gateway.
- The "Firmware Version:" field displays the version of the firmware loaded in the EN6080 area control gateway.

#### 2.2.2 Contact Information

Though optional, contact information should be provided to allow a remote administrator to contact the local technician in the event of maintenance or updates. To fill out contact information:

- 1. Enter the name of the facility in which the EN6080 area control gateway is being used in the "Facility Name" field. Up to 30 characters can be entered.
- **2.** Enter the first name of the contact for the facility in the "First Name" field. Up to 100 characters can be entered.
- **3.** Enter the last name of the contact for the facility in the "Last Name" field. Up to 100 characters can be entered.
- **4.** Enter the phone number for the contact for this facility in the "Phone 1" field. The two phone number formats accepted are: XXX XXX-XXXX and XXXXXXXXX.
- **5.** Optionally, enter a second phone number for in the "Phone 2" field. The two phone number formats accepted are: XXX XXX-XXXX and XXXXXXXXX.
- **6.** Click "Update" to submit the site information to the EN6080 area control gateway for storage.

# Chapter 3

### **ACG Setup**

#### 3.1 User Administration

When the ACG setup tab is clicked, the user administration screen displays. The user administration screen is used to edit user and admin passwords, and provides access to the IP administration and date and time setup screens. It is only accessible to admin level users.

# Inovonics<sup>®</sup>

Home ACG Setup Wireless Setup Partitions	Device Setup Logs File Management
User Administration   IP Administration   Date and Time Setup	
	Devices In Alarm: 0
Administ	rator Account
Username:	Admin
Password:	
Reenter Password:	
Update	Ciear
User	Account
Username: Password: Reenter Password:	User
Update	Clear

Figure 3-1 EN6080 area control gateway user administration screen

#### 3.1.1 Update User or Admin Password

To change the user or admin password:

- 1. Enter the new password in the "Password" field under "Username: Admin" or "Username: User." Passwords must be 15 characters or less, and can include alpha-numeric characters only.
- 2. Reenter the new password in the "Reenter Password" field.
- **3.** Click "Update" to change the password.

**Note:** Inovonics strongly recommends recording and safeguarding your new password for future reference. If your password is lost, you will not be able to access the EN6080.

**Note:** An admin password change will take effect immediately, and you will be asked to re-enter it to leave the page.

#### 3.2 IP Administration

The IP administration screen is used to configure the IP address of the EN6080 area control gateway. It is only accessible to admin level users.

Ċ	
- INOVONICS°	
Home ACG Setup Wireless Setup Partitions Device Setup Logs File Management	
User Administration   IP Administration   Date and Time Setup	
Devices In IP Setun	<u>Alarm:</u> 0
i coup	
DHCP     Static	
IP: 192.168.2.160 Subnet: 255.255.252.0 Gateway: 192.168.1.1	
Update	

Figure 3-2 EN6080 area control gateway IP setup screen

#### 3.2.1 Configure a Static IP Address

By default, the EN6080 is configured with a static IP of 192.168.60.80 and a subnet mask of 255.255.255.0. Before configuring the IP address, you will need to obtain a known good static IP address, subnet mask, and gateway on the target network from your IP administrator.

To configure a static IP address:

- 1. Select "Static" to choose a static IP address for the EN6080 area control gateway.
- **2.** Enter the known good IP address in the "IP:" field.
- **3.** Enter the subnet mask of the IP network in the "Subnet:" field.
- 4. Enter the gateway for this IP network in the "Gateway:" field.
- 5. Click "Update" to configure the EN6080 area control gateway IP address.

- **6.** A dialog box will display, reading "This update will require a reboot of the ACG. Once you make this change the browser will automatically update to the new address. Are you sure you want to make this change?" Click "OK."
- 7. When the "Refresh" button displays, click it.

#### 3.2.2 Configure a DHCP IP Address

**Caution:** Because the EN6080 area control gateway does not provide a unique host name with the DHCP request, Inovonics strongly recommends a static IP address. A static IP address will also prevent the possibility of the existence of a rogue or malfunctioning DHCP server that may pose a security risk.

By default, the EN6080 is configured with a static IP of 192.168.60.80 and a subnet mask of 255.255.255.0. You will also need to ensure that the target network has a DHCP server on it.

- **1.** Select the "DHCP" radio button.
- 2. Click "Update."
- **3.** A dialog box will display, reading "This update will require a reboot of the ACG. Once you make this change the browser will automatically update to the new address. Are you sure you want to make this change?" Click "OK."

The EN6080 area control gateway will request a new IP address from the DHCP server and, if successful, display the IP update dialog box shown in Figure 3-3. Write down the new IP address displayed in the IP update dialog box.



Figure 3-3 IP update dialog box

- 4. Click "Accept New IP."
- **5.** The EN6080 area control gateway will reboot. When the "Refresh" button displays, click it.

#### 3.3 Date and Time Setup

**Caution:** The backup battery must be installed in the EN6080 at all times and the time must be set on startup. This preserves the accuracy of the logs and ensures all features work correctly.

The EN6080 area control gateway contains a real time clock that is used to tag events and log entries. The date and time setup screen is used to configure the date and time of that clock. It is only accessible to admin level users. The area control gateway can either poll the Network Time Protocol servers to automatically synchronize the time and date, or synchronize time and date with the computer connected to the EN6080.

If the time reported by the EN6080 area control gateway differs from the time setting on the computer by more than five seconds, it will be reported on the home page. Discrepancies as small as one second will be reported on the date and time setup page.

Ċ
INOVONICS
Home ACG Setup Wireless Setup Partitions Device Setup Logs File Management
Devices In Alarm: 0
Date and Time Setup
Use NTP (IP): 174.36.71.205
Sync with PC: Monday March 4, 2013 11:09:51 AM
lindate Clear

Figure 3-4 EN6080 area control date and time setup screen

#### 3.3.1 Poll NTP Servers for Time and Date

This requires that the EN6080 area control gateway be on a network that allows access to NTP servers. To automatically synchronize time and date with Network Time Protocol servers:

- 1. Click "Use NTP: (IP)."
- **2.** A default NTP server address displays. If you do not want to use the default IP address, enter any known NTP server IP address.
- 3. Click "Update."
- **4.** When the "Date and Time configuration updated" dialog box displays, click "OK."

If the new time setting differs from the time on your computer by more than one second, it will be noted on the date and time setup page.

If the IP address for the NTP server is invalid or the area control gateway is unable to connect, a message will display reading, "NTP Time Server is unreachable," and the area control gateway will continue trying again to retrieve the time once a minute until it is successful.

#### 3.3.2 Synchronize Time and Date with your PC

**Note:** Inovonics recommends syncing the time and date periodically with your PC if not using NTP servers.

To synchronize time and date with your computer:

- 1. Ensure the time and date is correct on your host computer.
- **2.** Click the "Sync with PC:" button.
- **3.** Click "Update" to update time and date.
- **4.** When the "Date and Time configuration updated" dialog box displays, click "OK."

**Note:** If the new time and date is earlier than what is currently set on the EN6080 area control gateway, every event that happens after you set the new time will have a time stamp of 1 millisecond greater than the last entry before the time change. This will continue until the current time is greater than what the modified event time would be. At that point events will display the proper time stamp. This prevents log irregularities.

### Chapter 4

### **Partitions**

#### 4.1 Partitions

The partitions tab is used to add, delete and manage partitions. Partitions are user defined controllable areas to which devices are assigned and managed as a single entity. For instance, "lobby" might be a partition, with all the devices that provide security to the lobby assigned to it so they can be managed together. The EN6080 area control gateway can manage up to 500 individual partitions. It is only accessible to admin level users.

All columns in the registered devices and partitions fields are sortable; simply click on any column header to sort in ascending or descending order. The search fields can be used to locate specific devices or partitions; they cover data in all fields, and accept letters and numbers, but no wildcard characters.

			Wireless Getup	Device Set	up Logs	rife management
						Devices In /
			Crea	te and Assign Partition		
			R	egistered Devices		Search:
a 💼	^ID	TX ID	(ð)	Гуре	Description	Partition
	1	7034671	EN608	EN6080 Receiver		•
	2	7228213	EN122	EN1223S Pendant		int
	3	7228286	EN122	EN1223S Pendant		t
	4	16078576	EN12	EN1260 Motion main lobby		1
	6	7211829	EN1210W	Door/Window	main lobby	1
		ļ	Assign to Partition	Remove	from Partition	
				Partitions Search:		
			- ID	front door		
			and the second	110111 0001		

Figure 4-1 Partitions screen

Once a partition is defined, the assigned number will display on the home page in the partitions field. Placing the cursor over any number in the partitions column will display the name of the partition, as shown in Figure 4-2.

¢.	Partitions
	1
	front door
	1

Figure 4-2 Partition name

#### 4.2 Define a New Partition

To define a new partition:

- 1. Click "Define New."
- **2.** Enter a descriptive name for the partition in the pop-up text field. The name can be up to 63 characters.
- 3. Click "Create."

The first partition will be created starting with an ID of "1." Additional partitions will be created with sequentially increasing IDs.

#### 4.3 Assign Devices to a Partition

The create and assign partition field displays all devices in the system and allows them to be added and removed from partitions. Each device can be assigned to up to four partitions, so they can be managed separately. For instance, a door contact transmitter mounted on the door to a pharmacy in a supermarket might be assigned to both a "pharmacy" and a "building" partition. That way one could manage the pharmacy separately from the rest of the building, or manage the entire building as a whole.

To assign devices to a partition:

- **1.** Click the checkbox next to all devices you wish to assign to the partition.
- 2. Select the partition to which you wish to assign the devices.
- **3.** Click the "Assign to Partition" button.

#### 4.4 Remove Devices from a Partition

To remove devices from a partition:

- 1. Click the checkbox next to all devices you wish to remove from a partition.
- 2. Select the partition from which you wish to remove the end devices.
- **3.** Click the "Remove from Partition" button.

#### 4.5 Update a Partition

The name of an assigned partition may be edited. To edit an existing partition:

- **1.** Click the partition you wish to update.
- 2. Click "Edit."
- **3.** Edit the name of partition in the pop-up text field.
- 4. Click "Update."

Once edited, the ID number assigned when the partition was created will remain the same.

#### 4.6 Delete a Partition

All devices must be removed from a partition before it can be deleted. To delete a partition:

- **1.** Click the partition you wish to delete.
- 2. Click "Delete."
- **3.** Click "OK" to confirm deletion.

# Chapter 5

### **Wireless Setup**

#### 5.1 Wireless Setup

The wireless setup tab is used to set up the network id (NID) of the EchoStream network. The NID is used by the network of high-power repeaters and two-way end devices to keep messages in separate EchoStream networks from overlapping. It is only accessible to admin level users.

IIIUVUIIICS
Home ACG Setup Wireless Setup Partitions Device Setup Logs File Management
Devices in Alarm 0
Network Coordinator Administration
Network ID (NID): 14 💌
uppate Cancel

Figure 5-1 Wireless setup screen

#### 5.1.1 Update the NID

To update the NID.

1. Select a NID from the "Network ID (NID)" dropdown menu. Make sure the NID you select is different from that of any other EchoStream systems that might interfere with yours.

**Caution:** Use of a non-0 NID value is recommended for best EchoStream network performance and is required for compliance with UL2560. Make sure the NID you pick is greater than 0.

- **2.** Click "Update" to change to the new NID.
- 3. The following displays. Click "Update" to continue.



Figure 5-2 Repeater reset warning message

**4.** A list of repeaters registered to the system will display in a pop-up window.

The network ID was updated successfully on the EN6080. The following repeaters will display a check mark once the EN6080 starts receiving communication from them.							
	7848859	Repeater Terminal 5					
	9151017	Repeater 2					
	_	Abort					

Figure 5-3 Registered repeaters

- **5.** Reset the repeater closest to the EN6080 area control gateway in your system.
  - If attempting to change the NID on repeaters that have already been installed in a previously operating system with a different NID, Inovonics recommends the following:
    - a. Put the repeater into broadcast messaging mode before resetting the repeater.
    - b. Reset the repeater.
    - c. Put the repeater back into directed messaging mode.

**Note:** For information on setting the repeaters into broadcast or directed messaging mode, see the *EN5040/EN5040-T/EN5040-20T High Power Repeater with Transformer Installation and Operation Manual.* 

**Note:** To ensure the network builds outwards, you will want to reset the repeaters closest to the EN6080 area control gateway first and move towards the repeaters that are furthest away. You can also achieve the same goal by resetting all repeaters before they are installed and are close to the EN6080.

- **6.** Wait ten seconds.
- **7.** Make sure a check displays next to the repeater you just reset in the window shown in Figure 5-3. If not, reset the repeater again, making sure to wait ten seconds before replacing the cover; if so, reset the next repeater.
- **8.** Moving outward so that the repeaters closes to the EN6080 are reset first and those furthest away are reset last, repeat for each repeater.
- **9.** Once all repeaters are reset, Click "Close" on the reset checkbox window. All repeaters are now registered.
- **10.** Navigate to the home screen and ensure all repeaters are shown as active.

**Note:** All repeaters should be shown as active within three to four minutes. However, an extremely large system may take considerably longer.

# Chapter 6

### **Device Setup**

The device setup tab is used to register, replace and manage the Inovonics devices and repeaters that make up your system. It is only accessible to admin level users.

There are three ways to register the Inovonics end devices and repeaters that make up your security system:

- Manually, by inputting device information
- · Automatically, with a reset button push
- By uploading a .csv file with all registration information stored in the file

Up to 3000 Inovonics end devices and 500 repeaters can be added to a single EN6080 area control gateway, depending on the type of license purchased.

#### 6.1 Manual Administration

The manual administration screen is used to register, unregister and manage devices and repeaters by directly inputting transmitter information.

All columns are sortable; simply click on any column header to sort in ascending or descending order. The search field can be used to locate specific devices; it covers data in all fields, and accepts letters and numbers, but no wildcard characters.

		100001		Device Setup	
ome		ACG Setup VV	Partitions	Logs	File Management
			Manual Administration	Automatic Administration   Upload A	<u>Administration</u>
					Devices
			Manual Admi	nistration	
			manadi / talii	151 41011	
			Register a	Device	
		TX ID:	Description:	Type:	•
			Supervision Win	low: (s)	
			e ap of the fort i think		
			Register	Clear	
			Register	Clear	
Incinte	14 register	d of 25 allowed	Register	Clear	Search
Ipoints	14 register	d of 25 allowed	Register Registered	Clear	Search:
Ipoints	14 register	ed of 25 allowed	Register Registered Type ENEGRA ACC	Clear Devices Description base receiver	Search: Supervision (s) 3600
	ID 1	ed of 25 allowed <b>TX ID</b> 7034665 1009716	Register Registered Type EN6080 ACG EN1223S	Clear Devices Description base receiver loss office	Search: Supervision (s) 3600 7200
	IL register	ed of 25 allowed <b>TX ID</b> 7034665 1009716 1050958	Register Registered Type EN6080 ACG En1228S En1249	Clear Devices Description base receiver joes office all team	Search: Supervision (s) 3600 7200 7200
	I register ID 1 2 3 4	d of 25 allowed <b>TX ID</b> 7034665 1009716 1050958 1059246	Register Registered Type EN6080 ACG En1223S En1249 En1249 EN1215W	Clear Devices Description base receiver joes office all team lab area	Search: Supervision (s) 3600 7200 7200 7200 7200
	14 register ID 1 2 3 4 5	d of 25 allowed TX ID 7034665 1069716 1059988 1059937	Register           Type           EN6080 ACG           En1228S           En1249           EN1216W           EN5040	Clear Devices Description base receiver joes office all team lab area repeater	Search: Supervision (s) 3600 7200 7200 7200 7200 7200 7200
	14 register ID 1 2 3 4 5 6	d of 25 allowed TX ID 7034665 1009716 1050958 1050958 1059937 1289716	Register           Type           EN6080 ACG           En1228S           En1249           EN1249           EN1215W           En5040           EN1242	Clear Devices Description base receiver joes office all team lab area repeater hallway	Search: Supervision (s) 3600 7200 7200 7200 7200 7200 7200 7200
	14 register ID 1 2 3 4 5 6 7	td of 25 allowed <b>TX ID</b> 7034665 1009716 1059246 1059247 1289716 1664246	Register Registered Type EN6080 ACG En1223S En1249 EN1245W En5040 EN1242 EN1240	Clear Devices Description base receiver joes office all team lab area repeater haltway board room	Search: Supervision (s) 3600 7200 7200 7200 7200 7200 7200 7200 7200
	14 register ▲ ID 1 2 3 4 5 6 7 8	d of 25 allowed <b>TX ID</b> 7034665 1009716 1050958 1059937 1289716 1664246 6398191	Register           Type           EN6080 ACG           En1223S           En1249           En1249           EN1215W           En5040           EN1242           EN1240           En5040           En5040	Clear Devices Description base receiver joes office all team lab area repeater hallway board room Meeting Rm #129	Search: Supervision (s) 3600 7200 7200 7200 7200 7200 7200 3400
	14 registerr D 1 2 3 4 5 6 7 8 9	d of 25 allowed TX ID 7034665 1009716 1050958 1050937 1289716 1664246 6398191 6398206	Register           Type           EN6080 ACG           En12285           En1249           EN1245           EN5040           EN1242           EN1240           EN1240           EN1240           EN1240           En5040	Clear Devices Description Dase receiver joes office all team lab area repeater halway board room Meeting Rm #129 Near Enc's Office	Search: Supervision (s) 3600 7200 7200 7200 7200 7200 7200 3400 3400
	14 register           1           2           3           4           5           6           7           8           9           10	d of 25 allowed TX ID 7034665 1009716 1050938 1059246 1059937 1289716 1664246 6398191 6398206	Register           Type           EN6080 ACG           En1223S           En1249           EN1240           EN5040           EN1242           EN1240           En5040           En5040           En5040           En5040           En5040           En5040	Clear Devices Description base receiver joes office all team lab area repeater hallway board room Meeting Rm #129 Near Eric's Office Thom R's Office	Search: Supervision (s) 3600 7200 7200 7200 7200 7200 7200 3400 3400 3400

Figure 6-1 Manual administration screen

#### 6.1.1 Manually Register a Device

1. Enter the transmitter number of the Inovonics device to be registered in the "TX ID" field. The TX ID label is usually found on the printed circuit board of the device, or in the case of some devices, such as panic buttons, on the external housing.



Figure 6-2 TX ID label on a printed circuit board

- **Note:** The TX ID consists of the initial two smaller digits and the following six larger digits. Enter all digits. In the example shown in Figure 6-2, for instance, you would enter "07155450".
  - 2. Enter a 31 character or less text description of the device in the "Description:" field. Typically, this is a brief indication of where the device is used, or, in the case of a mobile device, the name of the person to whom it is assigned.
  - **3.** Choose the Inovonics part number of the device from the "Type:" dropdown menu.

**Note:** If the exact product match is not available, choose the closest part number. E.g., "EN5040" may be selected for "EN5040-20T."

**Note:** The EN1243 wireless smoke/heat detector is supported by the EN6080 area control gateway. To select the EN1243 wireless smoke/heat detector, select EN1242 from the drop-down menu.

**4.** In the "Supervision Window:" field, enter a supervision window for the device in seconds.

- **Note:** The supervision window is the period of time during which the EN6080 must hear a check-in message from the device or consider it inactive. For instance, if a device is set with a supervision window of 540 seconds and 540 seconds elapses without the EN6080 hearing a check-in message, then the device will be considered inactive. A good rule of thumb is to set the supervision window at a minimum of ten times the device's check-in rate.
  - 5. Click "Register" to complete registration of the device.

#### 6.1.2 Unregister a Registered Device

To unregister a registered device:

- **1.** Click the checkbox next to the registered device you wish to unregister.
- 2. Click "Unregister."
- **3.** Click "OK" to confirm.

#### 6.2 Automatic Administration

The automatic administration screen is used to discover Inovonics end devices and repeaters by the push of a reset button. Once the EN6080 area control gateway is set into discovery mode, a push of a transmitter's reset button will automatically populate the transmitter's identification number and product type. All columns are sortable; simply click on any column header to sort in ascending or descending order. The search field can be used to locate specific devices; it covers data in all fields, and accepts letters and numbers, but no wildcard characters.



Figure 6-3 Automatic administration screen

#### 6.2.1 Start Discovery

**Note:** The EN1243 wireless smoke/heat detector is supported by the EN6080 area control gateway. However, when an EN1243 wireless smoke/heat detector is registered, it will display as EN1242.

To discover devices by automatic administration:

- Click "Start Discovery" to start discovery mode. During discovery mode, all unregistered end devices from which a reset message is heard will populate in the discovered devices field.
  - The system log will show this event as "Enter Registration Mode."
- 2. Press the reset button on all devices which you wish to register.

- **Note:** If a device is already registered, it will not appear in the list of discovered devices when its reset button is pressed.
- **Note:** For specific information about the location of device's reset button, refer to the installation instructions for the device you are registering. All installation instructions are available at www.inovonics.com.
  - **3.** When you have discovered all the devices to be registered, click the "Stop Discovery" button.
    - · The system log will show this event as "Exit Registration Mode."

#### 6.2.2 Edit and Register the Devices

Once devices are discovered, they must be registered to include a description and supervision window.

- **4.** All of the devices discovered in the last session will be highlighted in green, indicating they are ready to be registered. If you do not wish to register a device at this point, click anywhere in the device's field to deselect it.
- 5. Click the "Edit" button.
- **6.** Enter a text description (31 characters or less) of the end device in the "Description:" field. Typically, this is a brief indication of where the end device is used, or, in the case of a mobile device such as a panic button, the name of the person to whom it is assigned.
- **7.** In the "Supervision Window:" field, enter a supervision window for the end device in seconds.

- **Note:** The supervision window is the period of time during which the EN6080 must hear a check-in message from the end device or consider it inactive. For instance, if a device is set with a supervision window of 540 seconds and 540 seconds elapses without the EN6080 hearing a check-in message, then the device will be considered inactive. A good rule of thumb is to set the supervision window at a minimum of ten times the device's check-in rate. Most Inovonics security products have a check-in time of three minutes, or 180 seconds.
- **Note:** When you enter the supervision time for the first listed device, it will automatically populate the supervision field for all other listed devices. If this is desirable, no further input for supervision time is needed. If not, you can overwrite devices with different supervision times.
  - 8. When you have edited all devices, click "Register."

#### 6.2.3 Unregister a Registered Device

To unregister a registered device:

- 1. Click the checkbox next to the registered device you wish to unregister.
- 2. Click "Unregister."
- 3. Click "OK" to confirm.

#### 6.3 Upload Administration

The upload administration screen is used to register Inovonics end devices and repeaters by uploading a spreadsheet with the transmitter information already entered. The file needs to be a comma delimited text file, and each device to be registered needs to be a separate line in the following format:

TX ID, Type, Description, Supervision Window, Reserved1, Reserved2, Reserved3

 TX ID is the unique transmitter ID number for each Inovonics end device. The TX ID number can usually be found on the printed circuit board of the end device.

- Type represents the Inovonics model number of the end device, including:
  - EN1210, EN1210-240, EN1210-60, EN1210EOL, EN1210W, EN1210W-60, EN1212, EN1212-60, EN1215, EN1215EOL, EN1215W, EN1215WEOL, EN1216, EN1221S-60, EN1222S-60, EN1223D EN1223D-15, EN1223S, EN1223S-15, EN1223S-60, EN1224, EN1224-ON, EN1233D, EN1233S, EN1235D, EN1235DF, EN1235S, EN1235SF, EN1235SF-15, EN1236D, EN1238D, EN1240, EN1241-60, EN1242, EN1243, EN1244, EN1244-60, EN1245, EN1245-60, EN1247, EN1249, EN1252, EN1260, EN1261HT, EN1262, EN1265, EN1751, EN1752, EN1941, EN1941-60, EN1941XS, EN3022

**Note:** The EN1243 wireless smoke/heat detector is supported by the EN6080 area control gateway. To select the EN1243 wireless smoke/heat detector, enter EN1242 as the type.

- Description is a 31 or fewer character string describing the device. Typically, this is a brief indication of where the end device is used, or, in the case of a mobile device such as a panic button, the name of the person to whom it is assigned.
- Supervision is a decimal number between 1 and 999999999, up to nine digits, representing the seconds to wait until a device is declared inactive.

The EN6080 area control gateway trims the extra spaces on the start and end, and they are case-insensitive. TX ID, Type, and Supervision are required fields. All other fields may be empty, but must have a comma.

Following is an example of a correctly formatted .csv file:

- 1050958, EN1249, all team, 7200,,,
- 1009716, EN1223S, joes office, 7200,,,
- 1289716,EN1242,hallway,7200,,,
- 1059246, EN1215W, lab area, 7200,,,
- 1664246, EN1240, board room, 7200,,,

Ċ	
-	INOVONICS
	Home ACG Setup Wireless Setup Partitions Device Setup Logs File Management
	Manual Administration   Automatic Administration   Upload Administration
_	Devices In Alarm: 1
	Upicad Administration
	Select a comma-separated (csv) file of devices to register:
	Browse_

Figure 6-4 Upload administration screen

#### 6.3.1 Upload a Spreadsheet of Devices to Register

- 1. Click "Browse."
- 2. Navigate to the .csv file of devices you wish to register.
- 3. Click "Open."
- **4.** Click the "Load" button.
- **5.** All devices that parse properly and are unregistered will be selected by default. Deselect any devices that you do not want to register.
- 6. Click "Register".

**Note:** You can also unregister devices by highlighting the devices you want to unregister and clicking "Unregister."

If there are lines that cannot be parsed due to formatting errors a red warning with the number of unparsed lines will display in the bottom left portion of the screen as shown in Figure 6-5. Hold the cursor over the warning message for details.



Figure 6-5 Formatting errors message

## Chapter 7

### Logs

#### 7.1 Logs

The EN6080 area control gateway stores logs of all events that impact the system. Each log displays the entries in chronological order from oldest to newest. Logs are stored in a circular buffer that overwrites the oldest entry when the log is full. The logs tab is only accessible to admin level users.

The EN6080 area control gateway logs events into three categories: alarm, system and trouble. Up to 3000 events can be stored.

• The alarm log includes alarm and alarm clear events for Inovonics end devices.

**Note:** Any data reported by the EN1941XS will appear in the Alarm Log as "Serial Data," regardless of the meaning of the data.

- The system log includes IP address changes, reboot requests, shutdowns and other system events.
- The trouble log includes non-alarm events for Inovonics devices, including repeater tampers and repeater resets.

#### 7.2 Alarm Logs

When the logs tab is clicked, the alarm logs screen displays. The alarm logs screen is used to view and save alarm events, as well as to access the system logs and trouble logs screens. All columns are sortable; simply click on any column header to sort in ascending or descending order. The search field can be used to locate specific logs; it covers data in all fields, and accepts letters and numbers, but no wildcard characters.

**Note:** The alarm logs screen will only refresh when the "Retrieve Logs" button at the bottom of the screen has been clicked. As a matter of course, it is a good idea to click "Retrieve Logs" upon viewing any logs screen.

INOVONI	CS°			C.		
Home ACG Setup	Wireless Setu	ip	Partitions	Device Setup	Logs	File Management
				Alarm Lo	gs   <u>System Logs</u>	Trouble Logs
						Devices In a
			Alarr	n Logs		Search:
Date and Time	Event	ID	TX ID	Туре	Description	Partitions
12/2/2014 17:40:06.744 -700	ALARM 1	7	7099079	EN1223S Pendant	Soft Pointer	
12/2/2014 17:40:08.456 -700	ALARM 1 CLR	7	7099079	EN1223S Pendant	Soft Pointer	
12/2/2014 17:50:33.222 -700	ALARM 1 CLR	6	15628128	EN1240 Activity	Long Term Motion 4	
12/2/2014 17:50:40.212 -700	ALARM 1	6	15628128	EN1240 Activity	Long Term Motion 4	
12/2/2014 18:58:36.034 -700	ALARM 1 CLR	2	15627591	EN1240 Activity	Long Term motion	
12/2/2014 19:13:45.495 -700	ALARM 1 CLR	4	15628015	EN1240 Activity	Long Term Motion 2	
12/2/2014 19:22:11.739 -700	ALARM 1 CLR	5	15628085	EN1240 Activity	Long Term Motion 3	
12/2/2014 19:51:09.381 -700	ALARM 1 CLR	6	15628128	EN1240 Activity	Long Term Motion 4	
12/2/2014 19:51:59.480 -700	ALARM 1	2	15627591	EN1240 Activity	Long Term motion	
12/2/2014 19:55:26.535 -700	ALARM 1	5	15628085	EN1240 Activity	Long Term Motion 3	
12/2/2014 19:56:09.244 -700	ALARM 1	4	15628015	EN1240 Activity	Long Term Motion 2	
12/2/2014 21:52:28.667 -700	ALARM 1 CLR	2	15627591	EN1240 Activity	Long Term motion	
12/2/2014 21:55:55.695 -700	ALARM 1 CLR	5	15628085	EN1240 Activity	Long Term Motion 3	
12/2/2014 21:56:38.282 -700	ALARM 1 CLR	4	15628015	EN1240 Activity	Long Term Motion 2	
12/3/2014 6:55:37.728 -700	ALARM 1	2	15627591	EN1240 Activity	Long Term motion	
12/3/2014 6:56:33.669 -700	ALARM 1	5	15628085	EN1240 Activity	Long Term Motion 3	
12/3/2014 6:56:37.381 -700	ALARM 1	4	15628015	EN1240 Activity	Long Term Motion 2	
12/3/2014 7:00:36.302 -700	ALARM 1	6	15628128	EN1240 Activity	Long Term Motion 4	
12/3/2014 8:56:06.645 -700	ALARM 1 CLR	2	15627591	EN1240 Activity	Long Term motion	
12/3/2014 8:57:02.763 -700	ALARM 1 CLR	5	15628085	EN1240 Activity	Long Term Motion 3	
12/3/2014 8:57:06.497 -700	ALARM 1 CLR	4	15628015	EN1240 Activity	Long Term Motion 2	
12/3/2014 8:57:37.860 -700	ALARM 1	2	15627591	EN1240 Activity	Long Term motion	
12/3/2014 8:58:06.027 -700	ALARM 1	4	15628015	EN1240 Activity	Long Term Motion 2	
12/3/2014 8:58:06 705 -700	ALARM 1	5	15628085	EN1240 Activity	Long Term Motion 3	

Figure 7-1 Alarm logs screen

#### 7.2.1 Retrieve and Save Logs

- 1. Click the "Retrieve Logs" button. All available alarm events will display.
- **2.** Click "Save Logs" to open the list of events as a comma separated file in your web browser.
- **3.** As desired, save the comma separated file as a text file to your computer.

#### 7.3 System Logs

The system logs screen is used to view and save system events. All columns are sortable; simply click on any column header to sort in ascending or descending order. The search field can be used to locate specific logs; it covers data in all fields, and accepts letters and numbers, but no wildcard characters.

**Note:** The systems logs screen will only refresh when "Retrieve Logs" has been clicked. As a matter of course, it is a good idea to click "Retrieve Logs" upon viewing any logs screen.

	Home ACG Set	up Wireless Setup Part	itions	Device Setup	Logs File Mana	gement
				Alarm Logs	System Logs   Trouble	Logs
						Devices In
			System Log	gs	Search	1:
	Date and Time	Event	TX ID	Туре	Description	Partition
	3/4/2013 9:56:54 -700	DEVICE FILES CLEARED	3237946	EN6080 Receiver	DELETED	
	3/4/2013 9:56:54 -700	FACTORY DEFAULTS RESTORED	3237946	EN6080 Receiver	DELETED	
	3/4/2013 9:56:55 -700	START SYSTEM LOG	3237946	EN6080 Receiver	DELETED	
1	3/4/2013 9:56:55 -700	REBOOT SUCCESSFUL	3237946	EN6080 Receiver	DELETED	
	3/4/2013 9:56:55 -700	BASE RECEIVER RESET	3237946	EN6080 Receiver	DELETED	
	3/4/2013 9:56:57 -700	DHCP INITIALIZING	3237946	EN6080 Receiver	DELETED	
	3/4/2013 9:57:09 -700	IP ADDRESS EXPIRED	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:16:03 -700	POWER ON	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:16:03 -700	BASE RECEIVER RESET	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:16:05 -700	DHCP INITIALIZING	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:16:45 -700	DHCP DOWN	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:17:08 -700	UNEXPECTED SYSTEM RESET:SEE LOG	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:17:41 -700	IP CONFIG CHANGE	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:17:41 -700	IP CONFIG CHANGE	3237946	EN6080 Receiver	DELETED	1
	3/4/2013 10:17:41 -700	STATIC IP	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:17:41 -700	REBOOT REQUESTED	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:17:41 -700	IP CONFIG CHANGE	3237946	EN6080 Receiver	DELETED	
3	3/4/2013 10:17:47 -700	WARNING: SHUTDOWN IMMINENT	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:17:51 -700	REBOOT SUCCESSFUL	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:17:51 -700	BASE RECEIVER RESET	3237946	EN6080 Receiver	DELETED	-
	3/4/2013 10:19:17 -700	TIME ADJUSTED: NTP	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:19:26 -700	IP CONFIG CHANGE	3237946	EN6080 Receiver	DELETED	
	3/4/2013 10:19:26 -700	IR CONFIG CHANGE	3237946	EN6080 Receiver	DELETED	1

Figure 7-2 System logs screen

#### 7.3.1 Retrieve and Save System Logs

- 1. Click the "Retrieve Logs" button. All available system events will display.
- **2.** Click "Save Logs" to open the list of events as a text file which can be saved to your computer.

#### 7.4 Trouble Logs

The trouble logs screen is used to view and save trouble events. All columns are sortable; simply click on any column header to sort in ascending or descending order. The search field can be used to locate specific logs; it covers data in all fields, and accepts letters and numbers, but no wildcard characters.

**Note:** The trouble logs screen will only refresh when "Retrieve Logs" has been clicked. As a matter of course, it is a good idea to click "Retrieve Logs" upon viewing any logs screen.

	VUIII	LS						
Home	ACG Setup	Wireless Setup	F	Partitions	Device Setup	Logs	File Management	
					Alarm Logs	<u>System Logs</u>	Trouble Logs	
							Devie	es In
				Trouble L	ogs		Search:	
Date a	nd Time	Event	ID	TX ID	Type	Description	Parti	tions
12/3/2014 3:5	4:44.073 -700	DEVICE MISSING	2	15627591	EN1240 Activity	Long Term moti	ion	
12/3/2014 3:5	5:09.851 -700	DEVICE MISSING CLR	2	15627591	EN1240 Activity	Long Term moti	ion	
12/3/2014 10:	58:35.326 -700	DEVICE MISSING	5	15628085	EN1240 Activity	Long Term Motic	on 3	
12/3/2014 10:5	58:35.802 -700	DEVICE MISSING CLR	5	15628085	EN1240 Activity	Long Term Motic	on 3	
12/4/2014 14:0	7:47.368 -700	DEVICE MISSING	2	15627591	EN1240 Activity	Long Term moti	ion	
12/4/2014 14:0	08:16.174 -700	DEVICE MISSING CLR	2	15627591	EN1240 Activity	Long Term moti	ion	
12/5/2014 7:0	3:06.524 -700	DEVICE MISSING	6	15628128	EN1240 Activity	Long Term Motic	on 4	
12/5/2014 7:0	3:34.598 -700	DEVICE MISSING CLR	6	15628128	EN1240 Activity	Long Term Motio	on 4	
12/5/2014 17:2	29:18.000 -700	LOW BATTERY CLR	3	7098860	EN1223S Pendant	Long Term Penda	ant 1	
12/5/2014 17:3	80:20.587 -700	LOW BATTERY	3	7098860	EN1223S Pendant	Long Term Penda	ant 1	
12/6/2014 14:3	9:20.315 -700	DEVICE MISSING	4	15628015	EN1240 Activity	Long Term Motic	on 2	
12/6/2014 14:3	29:40.866 -700	DEVICE MISSING CLR	4	15628015	EN1240 Activity	Long Term Motic	on 2	
12/7/2014 14:	26:41.478 -700	DEVICE MISSING	2	15627591	EN1240 Activity	Long Term moti	ion	
12/7/2014 14:2	27:12.861 -700	DEVICE MISSING CLR	2	15627591	EN1240 Activity	Long Term moti	ion	
12/7/2014 16:0	06:33.542 -700	DEVICE MISSING	4	15628015	EN1240 Activity	Long Term Motic	on 2	
12/7/2014 16:0	6:53.592 -700	DEVICE MISSING CLR	4	15628015	EN1240 Activity	Long Term Motic	on 2	
12/7/2014 22:0	31:41.326 -700	DEVICE MISSING	6	15628128	EN1240 Activity	Long Term Motic	on 4	
12/7/2014 22:3	32:10.686 -700	DEVICE MISSING CLR	6	15628128	EN1240 Activity	Long Term Motic	on 4	
12/8/2014 2:1	1:04.010 -700	DEVICE MISSING	4	15628015	EN1240 Activity	Long Term Motic	on 2	
12/8/2014 2:1	1:33.195 -700	DEVICE MISSING CLR	4	15628015	EN1240 Activity	Long Term Motic	on 2	
12/8/2014 21:	57:31.246 -700	DEVICE MISSING	6	15628128	EN1240 Activity	Long Term Motic	on 4	
12/8/2014 21:5	57:51.357 -700	DEVICE MISSING CLR	6	15628128	EN1240 Activity	Long Term Motic	on 4	
12/8/2014 22:4	9:02.783 -700	DEVICE MISSING	5	15628085	EN1240 Activity	Long Term Motic	on 3	
12/8/2014 22:4	19:18.499 -700	DEVICE MISSING CLR	5	15628085	EN1240 Activity	Long Term Motic	on 3	

Figure 7-3 Trouble logs screen

#### 7.4.1 Retrieve and Save Trouble Logs

- 1. Click the "Retrieve Logs" button. All available trouble events will display.
- **2.** Click "Save Logs" to open the list of events as a text file which can be saved to your computer.

# **Chapter 8**

### **File Management**

#### 8.1 System and Configuration Files

When the file management tab is clicked, the system and configuration files screen displays. The system and configuration files screen is used to back up and restore configuration files. It is only accessible to admin level users.

Included in the configuration file are:

- All end device information
- All partition information
- · All site information
- · All user authorization information

1101110	ACG Setup	Wireless Setup	Partitions	Device Setup	Logs	File Manageme	ent
				System and Con	figuration Files	License Key	<u>Firmware</u>
			Destass Cash			<u>[</u>	evices In A
	Br	owse_ No file selected.					
		owse	Restor				
			Backup Confi	guration			

Figure 8-1 System and Configuration Files screen

#### 8.1.1 Back Up Configuration Files

To backup configuration files:

- **1.** Click the "Backup" button.
- 2. Follow the prompts from your web browser to save the file.

#### 8.1.2 Restore Configuration Files

To restore configuration files:

- **Note:** Passwords and IP configuration will not be restored from the file. The currently active passwords will remain active. This prevents the unintentional activation of an older, forgotten password or IP configuration.
  - **1.** Click the "Browse" button.
  - **2.** Navigate to the configuration backup file.

- **3.** Click the "Open" button.
- 4. Click "Restore."
- **5.** Once configuration is restored, click "Close." The EN6080 area control gateway will reboot, completing configuration.

#### 8.2 Firmware Update

The firmware update screen is used to update the EN6080 area control gateway firmware to the latest version. It is only accessible to admin level users.



Home	ACG Setup	Wireless Setup	Partitions	Device Setup	Logs	File Management	
Firmware Update				System and C	onfiguration Files	License Key	
						Devices	In Alarm: 1
			Firmware	Update			
	_						
			Warni	ing			
		The system will resta	nt after the update proces	e has been applied to co ss.	omplete the		
		It takes a	approximately < 3	3.5 minutes > to reboot	-		
			To start Firmwa	are update:			
		Click "Br	owse" or "Choose	File" to locate the file.			
		Click "S	tart Firmware Up	date" to begin update.			
	_			Province			
				biows	e		
		Current F/W Revision	ı _				
		0.62.69		Start Firmware Upd	ate		
			1				
L							

Figure 8-2 Firmware update screen

**Note:** All of the EN6080 area control gateway's logs will be reset during the firmware process. Ensure that any logs you need to save are updated to the host application before updating the firmware. For more information about logs, see "Logs" on page 40.

**Note:** The EN6080 area control gateway will not stream events while the update is in progress; no alarms will be processed while this update is occurring.

#### 8.2.1 Update Firmware

Inovonics will send you firmware update files as necessary. To update firmware:

- **1.** Click the "Browse" button.
- 2. Navigate to the firmware update file.
- 3. Click the "Start Firmware Update" button.
- **4.** Once the firmware update is complete, click the "Close" button. The EN6080 area control gateway will reboot, completing the update.

### Glossary

**Alarm message** The alarm message indicates an end device change of state, such as an open/close contact alarm.

**Broadcast Mode** This is a basic EchoStream wireless network operating mode. It is configured by a NID setting of 0. Broadcast mode is not recommended to be used or configured for EN6080 area control gateway system implementation, as the wireless EchoStream network is less efficient for location services and is not authorized for UL2560 certification.

**Check-in message** A check-in message is a supervisory message sent between EchoStream devices at set periods of time to ensure the device is functioning properly.

**Directed Mode** This is the preferred EchoStream wireless network operating mode. It is configured by a NID setting of 1 - 31. Directed mode is intended and recommended to be used in all EN6080 area control gateway system configurations, as the wireless Echo Stream network is more efficient for location services and required for UL2560 certification.

**Device** Any component in an EchoStream system, including end devices, repeaters, as well as the EN6080 area control gateway.

**End device** Any transmitter or transceiver used by an EchoStream system to send data. Also referred to as an endpoint.

**Mobile duress pendant** A pendant transmitter worn on a person, allowing them to send an alarm anywhere within the coverage area.

**NID/network ID** The NID is used by the network of high-power repeaters and two-way end devices for avoiding messages sent from overlapping EchoStream networks. The NID of the network coordinator is assigned a random value between 1 and 31 at the factory. The NID of one-way end devices is always zero and the NID of high-power repeaters and two-way end devices default to a value of zero from the factory but may be set to that of the network coordinator at time of registration in the system. Your application controller may also change the NID in the event that there is a nearby EchoStream network with the same NID.

**Noise floor** The running average of signal strength for each channel that is measured when a valid signal is not present on the channel.

**Partition** Partitions are a security term used to group devices together so they can be acted upon as one entity. In the context of the EN6080 area control gateway, partitions are assigned to devices and typically describe the physical location of the device. They are reported with the device's alarm.

**Point** A point is the programmable setting to which an end device is registered in the EchoStream system.

RF Radio frequency.

**Repeater** A line-powered device that intelligently amplifies transmission from any EchoStream series transmitter while ignoring background noise.

**Signal level** Signal strength of a message as measured in decibels, ranging from 0 to 99.

**Signal margin** The difference between the signal level of a message and noise floor of channel.

**Status message** A status message is a supervisory message that contains information on the status of the device, such as a low-battery condition.

**Supervision time** The interval of time in which at least one supervision message must be received from a device before the EN6080 area control gateway considers it inactive.

**Supervisory message** Either a check-in message sent by one device to another to verify a successful link between the devices, or a status message, sent to report a status change.

**TXID** Transmitter identification number. A unique identifier assigned to each device at the factory, primarily used for registration.

**Transmitter** A one-way end device that transmits RF messages outward through the repeater network to the EN6080 area control gateway.