

ACEview 4.0.1

User Guide



SIERRA
WIRELESS

4112458
Rev 2

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Contact Information

International Contact Information

AirLink Sales	airlinksales@sierrawireless.com
AirLink Support*	support@sierrawireless.com
AirLink RMA Repairs*	repairs@sierrawireless.com
AirLink Online Support Knowledgebase	www.sierrawireless.com/Support/SupportCenter
AirLink Software Downloads	www.sierrawireless.com/Support/Downloads
Corporate Web Site	www.sierrawireless.com

* If you have purchased your product from an AirLink Distributor or Reseller, please contact them for first line technical support.

Sierra Wireless Headquarters Contact Information

Sales Headquarters:	Phone:	+1-604-232-1488
	Hours:	8:00 AM to 5:00 PM Pacific Time
Post:	Sierra Wireless 13811 Wireless Way Richmond, BC Canada V6V 3A4	

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>> ACEview

ACEview is a small utility for viewing the status and monitoring the connection state of a Sierra Wireless AirLink™ device with ALEOS™.

POWERED BY:



ALEOS

ALEOS, the embedded core technology of the Sierra Wireless AirLink products, simplifies installation, operation and maintenance of any solution, and provides an always-on, always-aware intelligent connection for mission-critical applications. ALEOS enables:

- Persistent Network Connectivity
- Over-The-Air (OTA) Upgrades
- Wireless Optimized TCP/IP
- Real-Time Notification
- Real-Time GPS Reporting
- GPS Store and Forward
- Extensive Machine Protocols
- Packet Level Diagnostics
- Device Management & Control
- Protocol Spoofing

Obtaining and Installing ACEview

ACEview is offered by Sierra Wireless for free. To download the appropriate version for your operating system, go to: www.sierrawireless.com/Support/Downloads.aspx, select your device from the drop-down list, and follow the links to the downloads page.

Operating System	Install
Windows® XP® (32 bit) and Windows 7 (32 bit)	ACEview_x32
Windows 7 (64 bit)	ACEview_x64

Note: ACEview requires the Microsoft® .NET 2.0 Framework and Microsoft Windows XP (32 bit), or Windows 7 (32 or 64 bit). If you are connected to the Internet, .NET 2.0 automatically downloads and installs from Microsoft.

Tip: You can obtain the Microsoft .Net Framework, Microsoft Internet Explorer, and/or the latest ActiveX updates for Internet Explorer from Microsoft at: www.microsoft.com.

Connecting to Your Device

You can use ACEview to connect to your device, provided your device is connected directly to your computer's Ethernet port, serial port with a Dial-Up Networking (DUN) connection, or configured as USB/net.

1. Start > All Programs > Sierra Wireless > ACEView > ACEView.exe

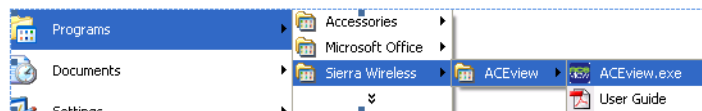


Figure 1: Start ACEView



Figure 2: Opening Screen

When ACEview first opens, it tries to establish a connection with your device using the last connection settings used. If this is the first time you use ACEview, it looks for your device using the default local Ethernet IP address.

Caution: While you can use ACEview to connect over-the-air (OTA) to some AirLink devices such as the Raven and PinPoint, it is not recommended. ACEview updates frequently and connecting OTA to a remote device could result in high usage charges.

2. If you are not using the default IP address, or if you need to connect to the device using DUN, right-click the ACEview window or click the Menu button to open the menu and select settings.

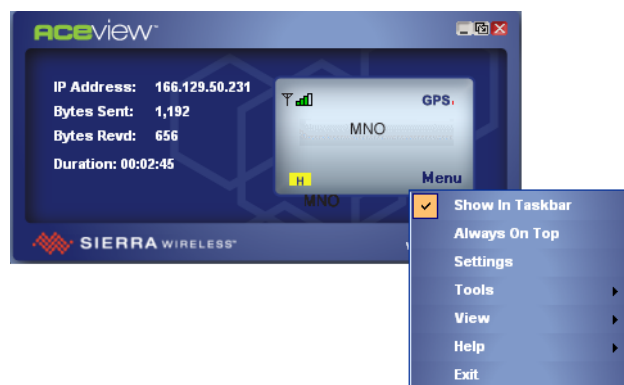


Figure 3: Menu

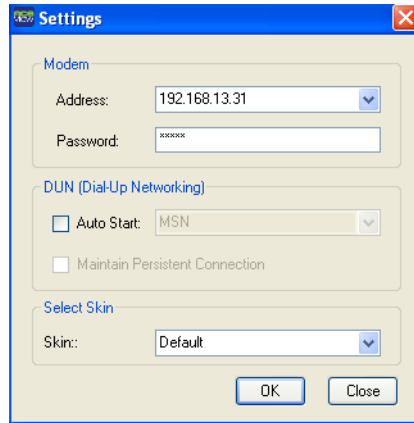


Figure 4: Connection Settings

3. Enter the AirLink device IP address. The default local IP address for Ethernet is 192.168.13.31.

Tip: If you have used ACEview to connect to a device in the past, the connection you used is available from the drop-down menu. Select the IP address you need.

4. Enter the password. Default password: **12345**.
5. If your device has a serial port and is connected directly to your computer with a serial cable, you can use a Dial-Up Networking (DUN) connection to connect to the device using PPP.
 - a. Select Auto Start, and then from the drop-down menu, select the desired DUN connection. (The DUN connection must already be installed on your computer.) You may only have one selection that is pre-selected for you.

Note: When using the DUN connection, make sure the IP Address is set to the local PPP IP address of the device.

6. If desired, select Maintain Persistent Connection.
When this option is selected, ACEview continually checks the DUN connection to ensure it is not down. If it is down, ACEview attempts to re-connect.

Tip: If DUN is not installed on your computer for your device, refer to the Dial-Up Networking installation directions.

7. Select the desired Skin:
 - Default



- Light



8. Click OK.

ACEview connects to your device.

ACEview Interface Features

Some of the display elements change depending on your device.

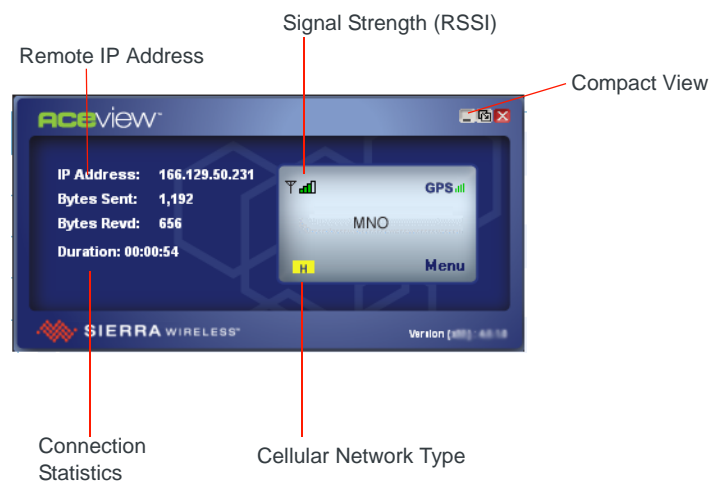


Figure 5: Example of ACEview Interface

- Signal Strength:** The strength of the cellular signal is indicated by the number of bars. For one (red) and two (yellow) bars, the signal is minimal. Three to four bars is in the preferred signal range.

Tip: Hover your mouse over the signal bars to display the RSSI value. RSSI is expressed in reverse notation as a negative number. The closer the RSSI is to zero, the better the signal.

	RSSI <= -100
	RSSI <= -90
	RSSI <= -80
	RSSI <= -70
	RSSI <= -60
	Error
	Device is not on the air; no signal or RSSI <= -110 or <= -125, depending on the technology

Figure 6: Signal Strength and bars

- **Cellular Network Type:** The Network type (for example, LTE)

vA	Ev	1x	LTE
EV-DO Rev A	EV-DO Rev 0	CDMA/1x	LTE
H	U	E	E
HSPA	UMTS	EDGE	GPRS

- **Connection Statistics:**
 - **Bytes Sent and Recvd:** The total bytes sent to and received from the cellular network for the current connection.
 - **Connection Duration:** The duration of the connection between ACEview and the device.

Note: The Connection Duration does not indicate the duration of the current cellular connection. It only indicates the current duration of the connection between ACEview and your device.

- **Remote IP Address:** The IP Address assigned to your device by your mobile network operator.
- **GPS Signal (All AirLink product lines except Raven):** The strength of the GPS signal is indicated by the number of bars. This icon is greyed out on the product lines without GPS features.

Tip: Hover your mouse over the GPS signal bars to display the number of GPS satellites fixes acquired. Four satellites is considered a minimum for effective GPS reception.

- **Compact View:** The compact view option is located next to the minimize window button at the top menu bar.



Figure 7: Compact View

Wi-Fi Client Mode

This feature applies only to GX4x0 devices with a Wi-Fi X-Card installed.

If the device is set to Wi-Fi Client mode¹, and is connected to ACEview, a Wi-Fi icon appears in the bottom of the ACEview window. Mouse-over the icon to view the connection status.

1. Refer to the ACEmanager User Guide for information on setting Wi-Fi Client mode.



Figure 8: ACEview Interface with Wi-Fi icon



Wi-Fi Available



Wi-Fi Not Available

Note: The data usage information (bytes sent and bytes revd) is not updated in Wi-Fi client mode.

In ACEmanager, you can configure Wi-Fi Client mode to be Automatic or Manual. (Refer to the ACEmanager User Guide for details.)

If Wi-Fi Client mode is set to Manual, the window is extended to include additional Wi-Fi information and a Connect / Disconnect button.



Figure 9: ACEview Interface in Wi-Fi Client mode (manual)

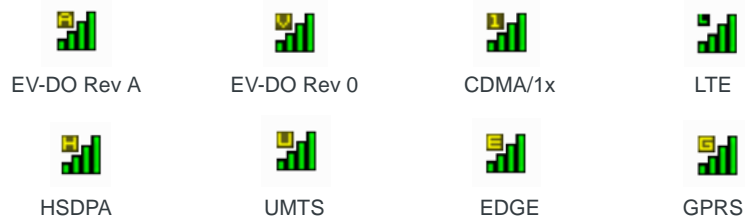
System Tray Icon

While ACEview is running, a quick reference icon appears in the system tray (the area near the clock, opposite the Start button).



Figure 10: Example of an HSDPA Tray Icon

The icon's bars denote the signal strength. The symbol above the bars denotes the connection type (the symbols below have been expanded for visibility).



Hover your mouse over the Tray Icon to display basic information: device type, online status, RSSI, and network IP address.

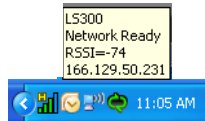


Figure 11: Tray Icon — Mouse Over

If the ACEview window is minimized, double-click the tray icon to restore it.

ACEview Menu Options

Show in Taskbar

To view ACEview on your taskbar, right-click Menu, and select the Show in Taskbar option.


Always on Top

If you want the ACEview window to always show on your desktop, in front of other windows that may be open, right-click and select Always On Top from the menu. You can still minimize the window, but when you display the ACEview window, it returns to being in front.



Figure 12: Always On Top

Minimized View

Click the  Minimize button to hide the window. Only the System tray Icon is visible.

Restoring the Window

1. Right-click the ACEview system tray icon.



Figure 13: Drop-down list

2. Click the Restore menu. This displays the ACEview window.
3. Optional: Check the “Always on top” Menu to keep the ACEview Main window on top of other windows on your desktop.

Tools

This menu item only applies to PinPoint X devices with model numbers:

- V4321-V
- V4321-S

and Raven X devices with the model numbers:

- V4221-V
- V4221-S

To check for updated files, select Tools in the ACEview menu.

Check for Updates

1. To download the latest PRL files, select Menu > Tools > Check for Updates.

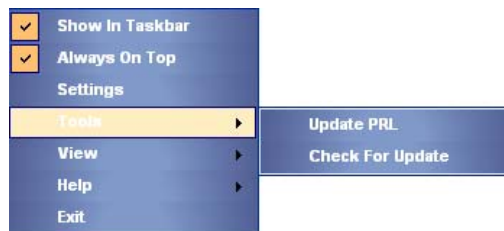


Figure 14: Tools: Check for Update

2. Select the PRL files check box and click the download button to download the latest files from the Sierra Wireless server.

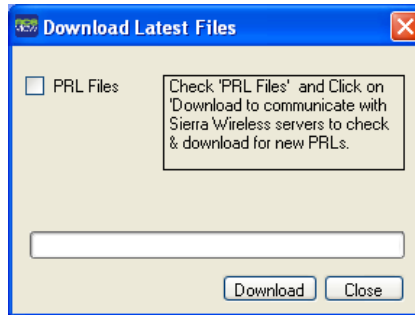


Figure 15: Check for Update screen

PRL Update

Note: You can only update the Preferred Roaming List (PRL) on certain Raven X and PinPoint X devices. See [Tools](#) on page 16 for details.

1. To update the PRL, select Menu > Tools > Update PRL.

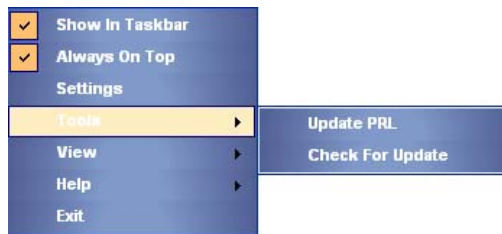


Figure 16: Tools: Update PRL

2. Enter the privileged mode password (AirLink1).



Figure 17: Tools: Enter Password screen

3. Depending on your mobile network operator, you may need to enter a Master Subsidy Lock (MSL)¹, and then click “Update” to start the Update PRL.

View

The View menu option provides two additional windows for GPS and Power features that are available on all AirLink devices except the Raven line.

1. The MSL is a password that enables you to configure parameters that are not normally accessible. Contact your mobile network operator for more information and to obtain an MSL, if one is required.

GPS

ACEview can place the coordinates of a GPS enabled device on a map.

Note: You must have an active Internet connection to use the map feature. The speed of the map drawing depends on your connection speed.

1. To view the GPS information, select Menu > View > GPS.



Figure 18: View: GPS

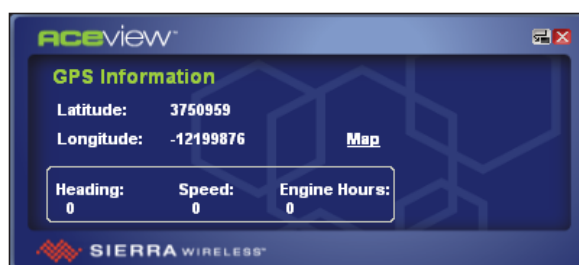


Figure 19: GPS Information

2. Click the Map link to view the current location on the Google™ Map. Using the compass arrows or slider bar in the window, you can move the viewable map or change the zoom level. Hover your mouse over the location icon to display the GPS coordinates of the device.

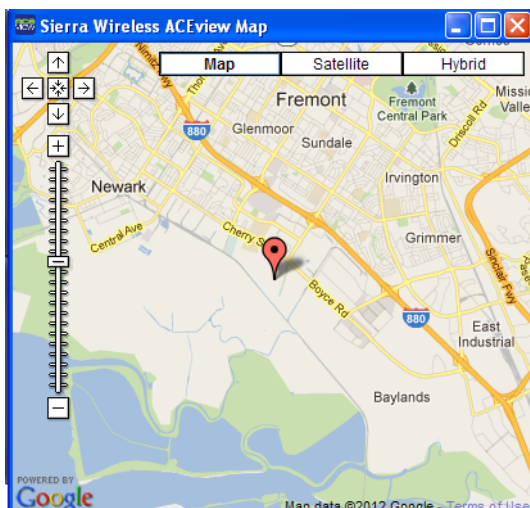


Figure 20: Map Link

Power Information

View > Power shows the power status (on or off). If a time delay has been configured in ACEmanager (Services > Low Power >Low Power Mode) ACEview shows the configured value. If no time delay is configured, ACEview shows zero.

Note: This is a static value and does not show time elapsed/remaining.

To view the Power information, select Menu > View > Power.

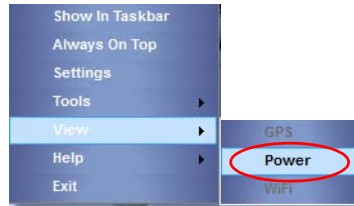


Figure 21: View: Power

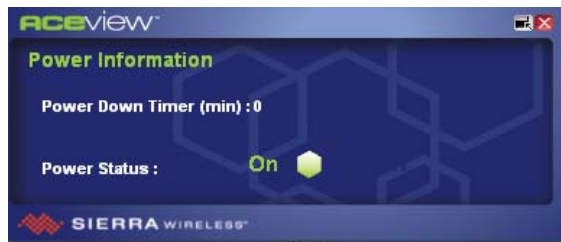


Figure 22: Power Information

About

To view details about ACEview and connected devices, select Menu > Help > About.

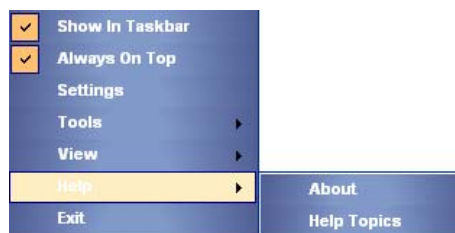


Figure 23: Help: About

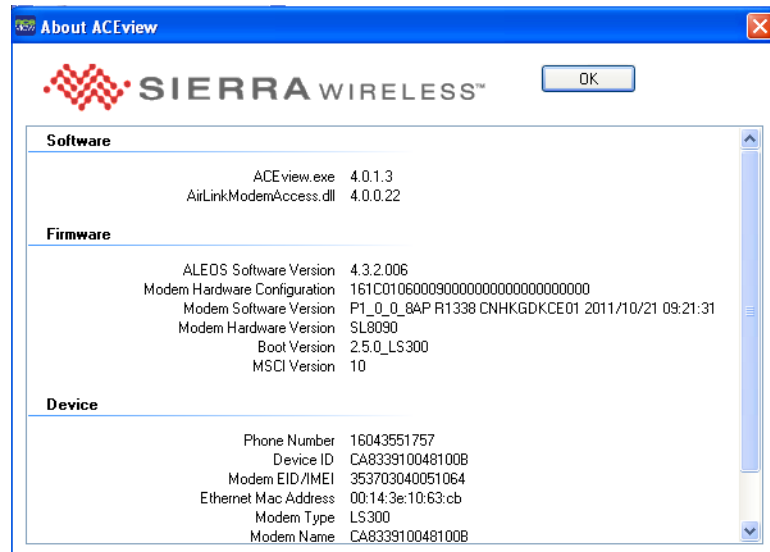


Figure 24: About ACEView

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