



ACEview

User Guide



SIERRA
WIRELESS

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>> ACEview

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

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



Figure 0-1: Powered by ALEOS

Obtaining and Installing ACEview

ACEview is offered for free. You can obtain the most recent version of ACEview from the Sierra Wireless web site, <http://www.sierrawireless.com/support/AirLink/ACEview.aspx>.

Note: ACEview requires the Microsoft .NET 2.0 Framework and Microsoft Windows 98, Windows 2000, Windows XP, or later. If you are connected to the internet, .NET 2.0 will automatically download and install 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: <http://www.microsoft.com/>.

Connecting to your modem

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

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



Figure 0-2: Start ACEView



Figure 0-3: Opening Screen

When ACEview first opens, it will try to establish a connection with your modem using the last connection settings used. If this is the first time you use ACEview, it will be looking for your modem using the default local Ethernet IP address.

Caution: It is possible to connect to an ALEOS device remotely with ACEview; however since ACEview updates frequently, connecting to a remote device could result in a high usage charges.

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

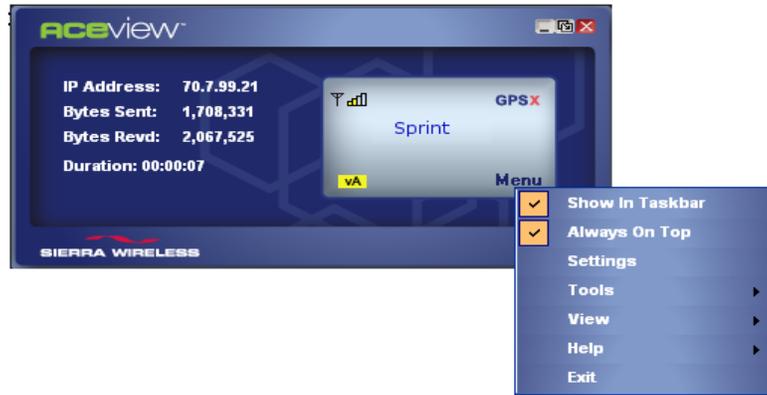


Figure 0-4: Menu

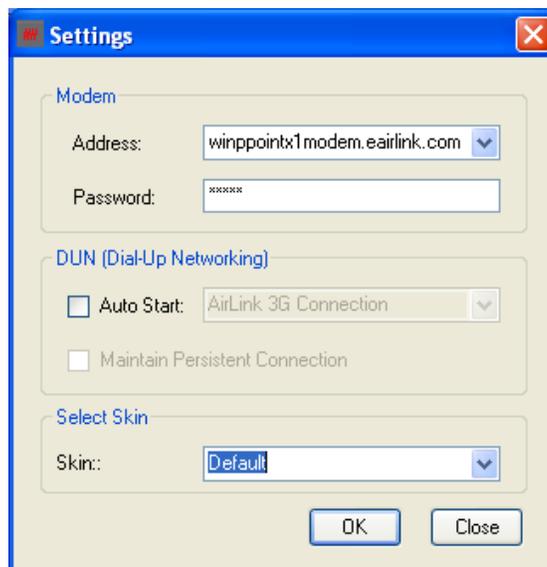


Figure 0-5: Connection Settings

Address: Enter the IP address of the device to connect to it. The default local IP address for Ethernet is 192.168.13.31.

Tip: If you have used ACEview to connect to a modem in the past, the connection you used will be available with the drop down menu for your convenience. Select the IP address you need.

Password: Enter the password for the modem. Default password: **12345**.

DUN - Auto Start: 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 modem using PPP. Select the DUN connection you have already installed on your computer from the drop down menu once you select Auto Start. You may only have 1 selection which would be preselected for you.

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

DUN - Maintain Persistent Connection: When checked, ACEview will continually check the DUN connection to ensure it is not down. If so, ACEview will attempt to connect again.

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

Select Skin - Default or Light: Set to either Default for darker interface settings or Light for lighter interface settings.

Once you have configured the connection settings, click OK. ACEview will connect to your modem.

DUN with Windows 98 and Windows NT

The direct DUN connection from ACEview is not available in Windows 98 or Windows NT. You will need to establish a Dial-Up Networking connection first and then use the local IP address as above.

ACEview Interface Features

Some of the display elements will change depending on your device.

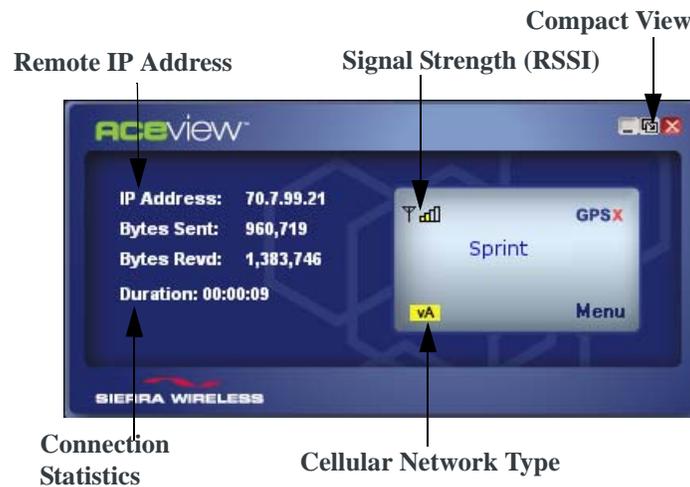


Figure 0-6: Example of ACEview Interface

- **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. There are different signal strength values that triggers the numbers of bars.

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 number is to zero, the better the signal.*

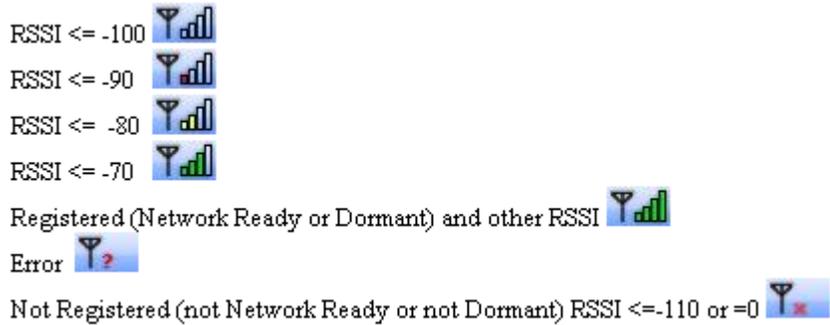
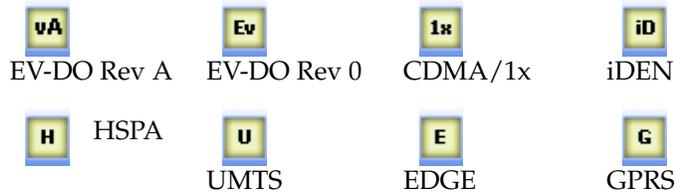


Figure 0-7: Signal Strength and bars

- **Cellular Network Type:** The Network type (example: 1x) will be indicated by one or two letters.



- **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 cellular provider.
- **GPS Signal (PinPoint and MP line only):** 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 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 0-8: Compact View

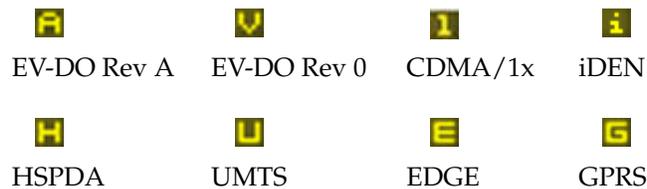
System Tray Icon

While ACEview is running, a quick reference icon will be displayed in the system tray (the area near the clock, opposite the “Start” button).



Figure 0-9: 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: Modem type, Online status, RSSI, and network IP address.



Figure 0-10: 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 on Menu and then select the Show in Taskbar option.

Always on Top

If you want the ACEview window to always show on your desktop, over 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 will return to being on top.

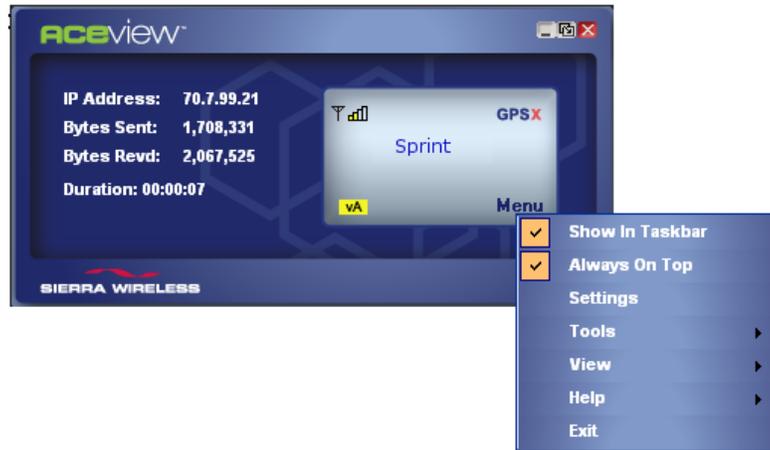


Figure 0-11: Always On Top

Minimized View

Clicking on the  Minimize button will hide the window. Only the System tray Icon will be visible.

Restoring the window

1. Right click on the ACEview system tray icon

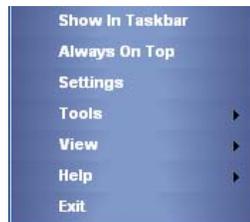


Figure 0-12: Drop-down list

2. Click on the Restore menu. This will display the ACEview window.

Note: Compact View > Minimize > Restore > Compact View

Check the "Always on top" Menu to keep the ACEview Main window as the Top most.

Tools

You can Update the PRL of 1x and EVDO devices only and check for updated files, using Tools in the menu.

PRL Update

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

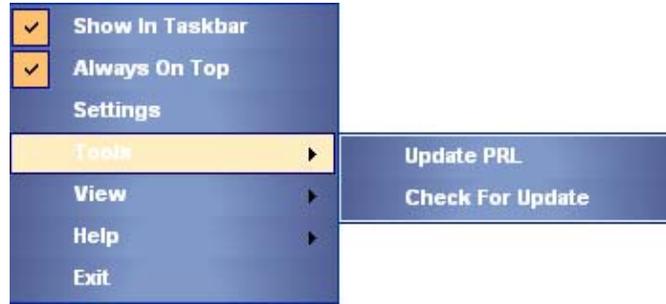


Figure 0-13: Tools: Update PRL

Enter the priveleged mode password



Figure 0-14: Tools: Enter Password screen

- a. Enter MSL (if required) and click on “Update” button to start the Update PRL.

Check for Updates

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

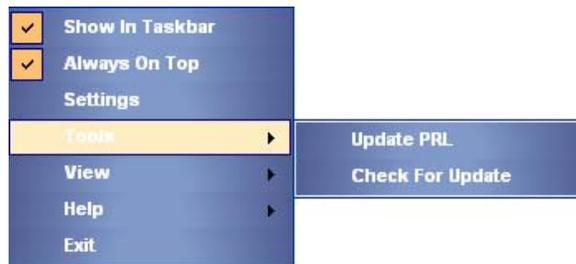


Figure 0-15: Tools: Check for Update

- a. Check the PRL files check-boxes and click on download button to download the latest files from Sierra Wireless server.

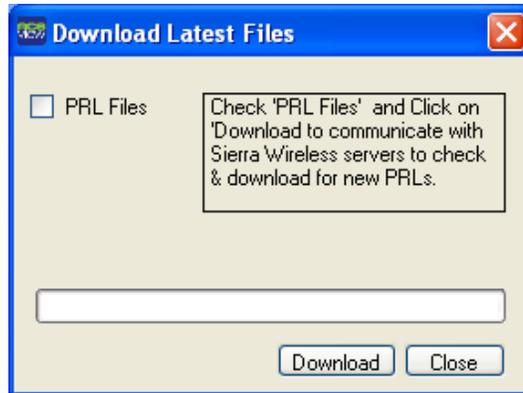


Figure 0-16: Check for Update screen

View

The View menu option provides two additional window displays for GPS and Power features available on PinPoint and MP line devices.

GPS

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

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

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



Figure 0-17: View: GPS



Figure 0-18: GPS Information

- a. Click on 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 modem.

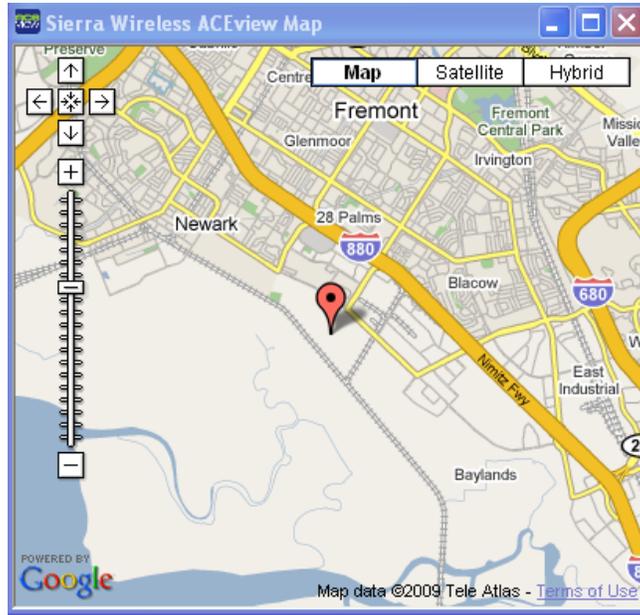


Figure 0-19: Map Link

Power Information

The Power View displays information for the power state of the device. The current power state will be marked. If there is a low power or power down timer starts, that will also be noted.

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



Figure 0-20: View: Power

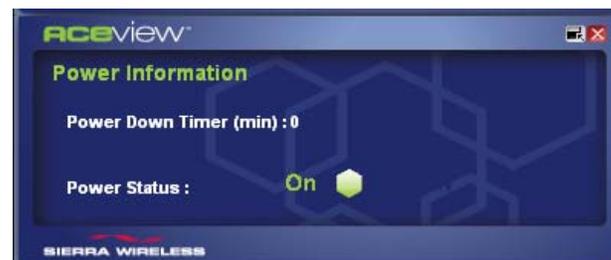


Figure 0-21: Power Information

About

To view the details about ACEview, select Menu > Help > About



Figure 0-22: Help: About



Figure 0-23: About ACEView

Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless AirLink MP are used in a normal manner with a well-constructed network, the Sierra Wireless AirLink MP should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless AirLink MP, or for failure of the Sierra Wireless AirLink MP to transmit or receive such data.

Safety and Hazards

Do not operate the Sierra Wireless AirLink MP in areas where blasting is in progress, where explosive atmospheres may be present, near medical equipment, near life support equipment, or any equipment which may be susceptible to any form of radio interference. In such areas, the Sierra Wireless AirLink MP **MUST BE POWERED OFF**. The Sierra Wireless AirLink MP can transmit signals that could interfere with this equipment.

Do not operate the Sierra Wireless AirLink MP in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the Sierra Wireless AirLink MP **MUST BE POWERED OFF**. When operating, the Sierra Wireless AirLink MP can transmit signals that could interfere with various onboard systems.

Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. Sierra Wireless AirLink MP may be used at this time.

The driver or operator of any vehicle should not operate the Sierra Wireless AirLink MP while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.

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5,515,013	5,629,960	5,845,216	5,847,553	5,878,2345,890,0575,929,8156,169,884
6,191,741	6,199,168	6,339,405	6,359,591	6,400,3366,516,2046,561,8516,643,501
6,653,979	6,697,030	6,785,830	6,845,249	6,847,8306,876,6976,879,5856,886,049
6,968,171	6,985,757	7,023,878	7,053,843	7,106,5697,145,2677,200,512D442,170
D459,303				

and other patents pending.

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Consult our website for up-to-date product descriptions, documentation, application notes, firmware upgrades, troubleshooting tips, and press releases:

www.sierrawireless.com

Revision number	Release date	Changes
1.x	2009	ALEOS 4.0 documentation draft created.
2.x	2010	User Guide rebranded to current standards.
1.x	2010	Created MP documentation with new template.



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