



## Configuration Guide for Airlink Pinpoint Modems

Initial configuration of Pinpoint modems is done using Sierra Wireless' AceManager. This can be downloaded from their website <http://www.sierrawireless.com/>. Once connected to the modem the user will have access to each setting for the operation of the device with the primary settings relating to Track Star being in the "Pinpoint" section.

The screenshot shows the Sierra Wireless AceManager interface. The title bar indicates the connection to 192.168.13.30. The menu bar includes File, Modem, Template, Tools, and Help. The toolbar contains icons for Connect, Refresh, Refresh All, Disconnect, Write, Reset, Load, Save, Copy, Clear, and Update PRL. The status bar shows the template path: "C:\Documents and Settings\guthrie\Desktop\Customer Files\TrackStarPinpoint\Demo.xml".

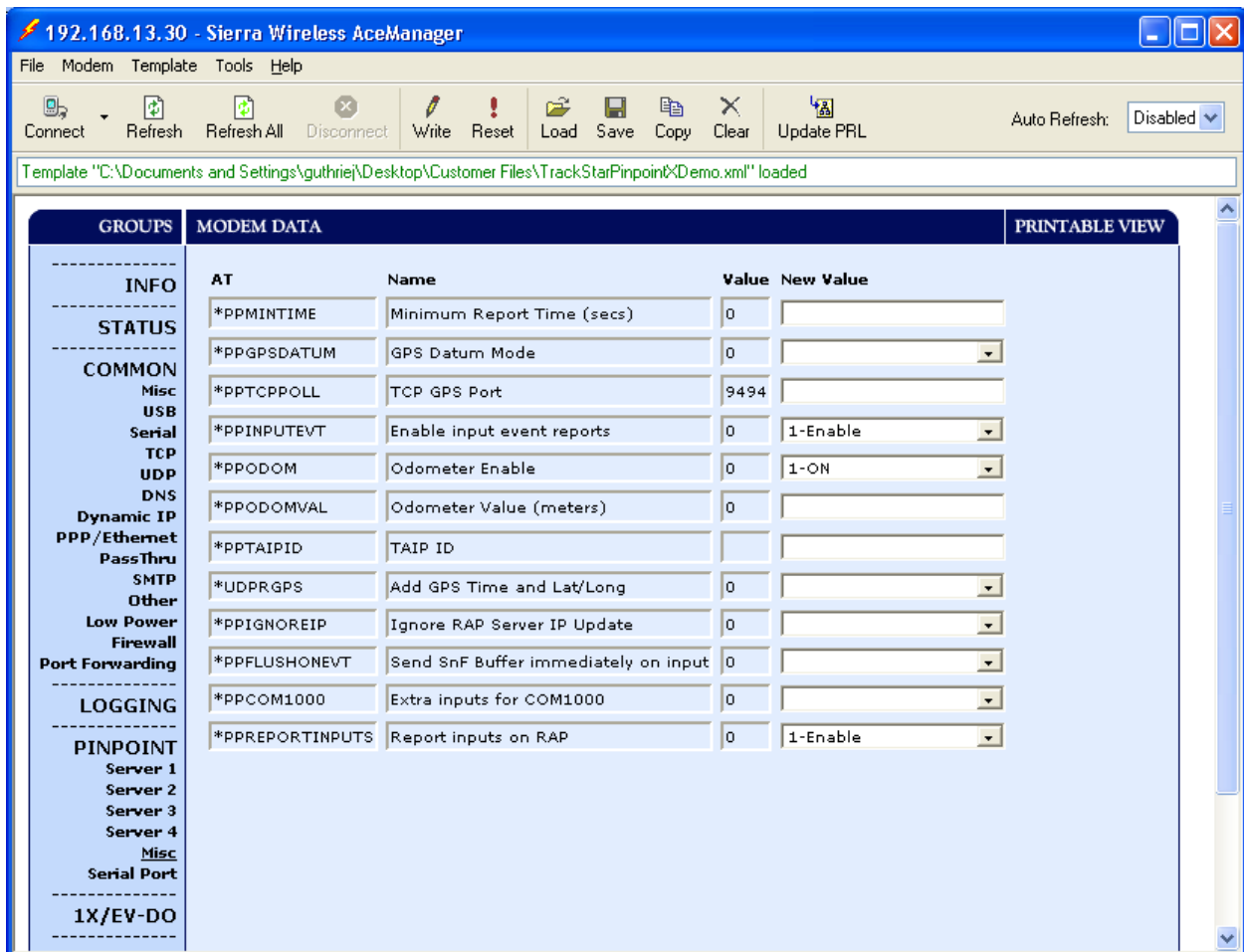
The main window displays a table of modem data with columns for AT, Name, Value, and New Value. The settings are organized into groups on the left-hand side.

GROUPS	MODEM DATA	PRINTABLE VIEW
INFO		
STATUS		
COMMON		
Misc		
USB		
Serial		
TCP		
UDP		
DNS		
Dynamic IP		
PPP/Ethernet		
PassThru		
SMTP		
Other		
Low Power		
Firewall		
Port Forwarding		
LOGGING		
PINPOINT		
Server 1		
Server 2		
Server 3		
Server 4		
Misc		
Serial Port		
1X/EV-DO		

### Pinpoint>>>Server 1

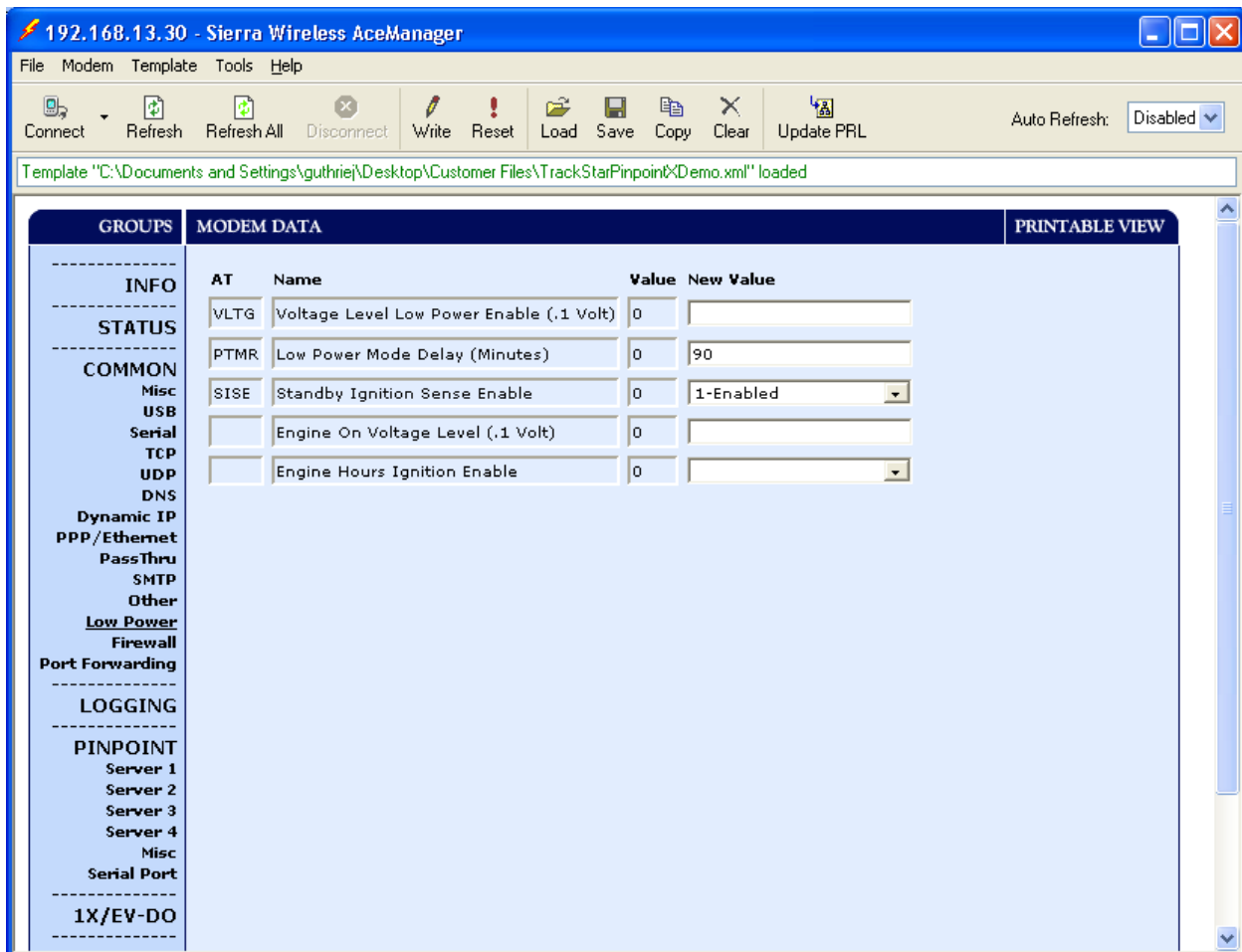
- \*PPIP = The IP Address of the AVLS Server. If the server is behind a firewall/router, this will be the external IP address assigned by your ISP.
- \*PPORT = The UDP port that AVLS Server is configured to listen for AVL data on. By default this is 249. If the server is behind a firewall/router, this UDP port will need to be forwarded to the server's internal IP address.
- \*PPTIME = The interval in seconds that the modem sends its location to the Track Star system. *(This setting can be used alone or in conjunction with PPDIST to determine the reporting frequency of the modem)*

- \*PPDIST = The distance in 100's of meters where the modem will send its location to the Track Star system. *(This setting can be used alone or in conjunction with PPTIME to determine the reporting frequency of the modem)*
- \*PPTSV = The reporting interval in minutes that the modem uses when not moving. This setting is used to reduce the amount of data sent by the modem. When the vehicle begins moving again, it will automatically resume using the intervals set in \*PPTIME and \*PPDIST.
- \*PPGPSR = The message format the modem uses when communicating with the Track Star System. There are 3 message types that Track Star supports (12,13,14). Consult the Airlink documentation or contact Track Star to determine the best format for your needs.
- \*PPSNF = Store and Forward enable. Enabling this feature allows the modem and the Track Star system to sequentially number each packet sent and ensures that packets have not been lost due to communication problems. *(The option is not required but is highly recommended for data reliability)*
- \*PPDEVID = When enabled the Pinpoint appends the device's phone number to the beginning of each packet sent. This must be enabled unless the device has a static IP address assigned by the cellular carrier. When this option is set to 1 the Track Star system expects the phone number to be used as the Unique Device ID. When this option is set to 0 the Track Star system expects the device to have a static IP address and that IP address to be used as the Unique Device ID.
- \*PPSNR = The Pinpoint's Store and Forward feature has several different modes. Track Star recommends using Reliable Mode



## Pinpoint>>Misc

- \*PPINPUTEVT = By enabling this option the Pinpoint uses separate message event types for the state change of each input. This option must be enabled in order to receive input Notifications and for various other.
- \*PPODOM = Enables the Pinpoint to calculate the total distance traveled by the vehicle and append this distance to each packet sent.
- \*PPODOMVAL = The current total distance travelled by the vehicle. This value can be set to the vehicles actual odometer value to provide an estimate of the actual odometer value with each packet sent.
- \*PPREPORTINPUTS = This setting allows input status to be reported in each packet sent to the Track Star system.



## Low Power

While not required for the Track Star system, Track Star recommends that the Low Power Mode be configured in order to reduce the power consumed by the modem when the vehicle ignition is off. When the modem is in this low power state, it will not be able to send or receive any communications over the cellular network. If input status needs to be monitored while vehicle ignition is off, special care must be taken in configuration of this option.

VLTG = Vehicle voltage level where the modem switches to the low power mode. If the modem is not equipped with an ignition sense wire and you want the modem to switch to low power mode when the ignition is switched off, Track Star recommends setting this option between 130 and 135. This equal 13.0 – 13.5 VDC.

PTMR = This option allows the modem to delay switching to low power mode after the low power mode trigger has been sensed. The low power mode trigger can be set with either VLTG or SISE.

SISE = If the modem is equipped with an ignition sense wire, this setting allows it to be used to put the modem into low power mode.