



NetReach – Wi-Fi Extender Accelerated Network Management System

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Accelerated NetReach

Accelerated NetReach Wi-Fi Extender

- » Powerful Wi-Fi Access Point – Integrated w/ the AT&T VPN Gateway and AT&T's OSS
- » 802.11b/g/n Certified - 400mW variable transmit power - Coverage 100 to 300 feet
- » Centralized Configuration and Remote Management thru AT&T Service Manager
- » Monitoring, Reporting and Alerts thru Accelerated Network Management System
- » 2 VLANs / NetReach in any combination of Public and/or Private Wi-Fi networks
- » Class of Service to manage Wi-Fi and non Wi-Fi traffic
- » Splash Page for custom end-user agreement and/or authentication
- » Security:
 - ▶ 64/128-bit WEP, WPA, WPA2 TKIP/AES encryption, WPA or WPA2 w/ RADIUS
 - ▶ MAC rogue detection
 - ▶ PCI Certified by Trustwave
- » Simplified Installation
 - ▶ Remote power with Passive PoE
 - ▶ Up to 4 NetReach devices can be wirelessly interconnected using Wireless Distribution System (WDS)



Integration with AT&T Service Manager

Full integration with AT&T Service Manager allows Central Control and Management of thousands of remote NetReach Wi-Fi Extenders

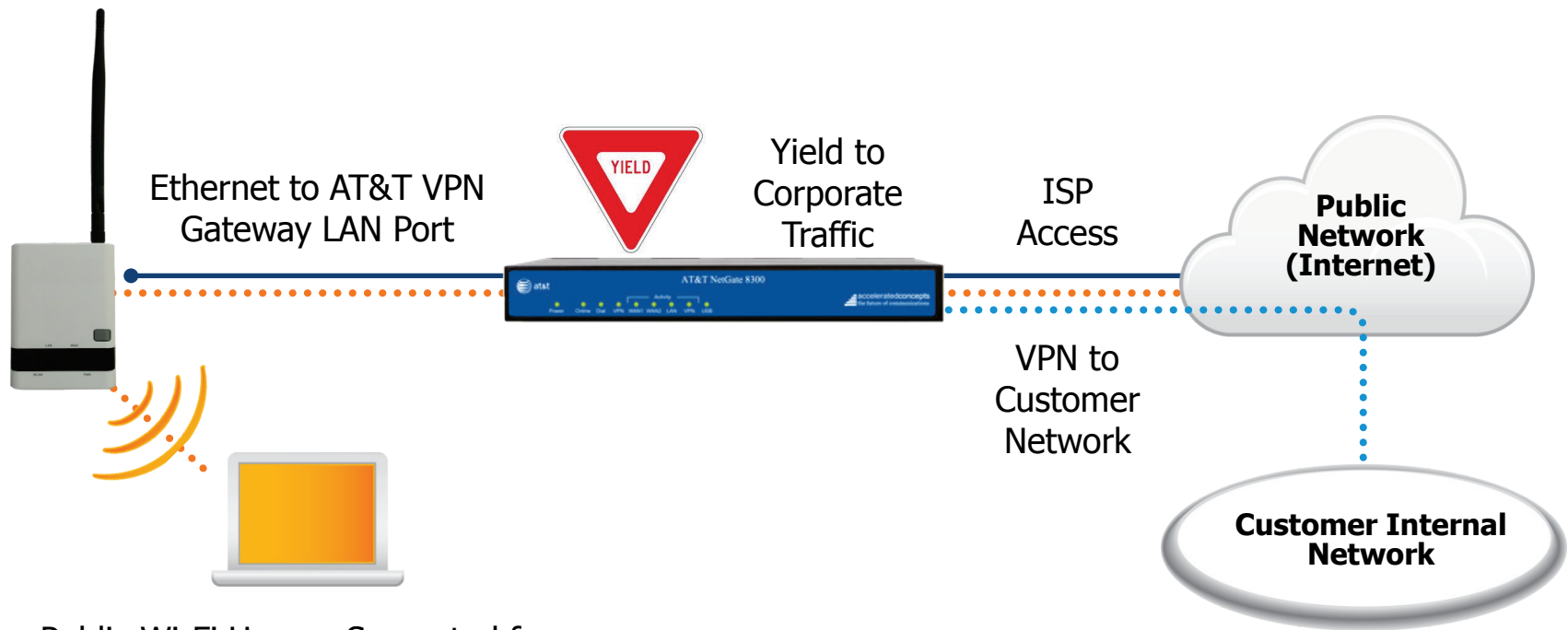
Information

- LAN IP Address
- NetReach Hardware Model
- NetReach Software Level
- Primary Connection Type
- AT&T VPN Gateway Partner Device
- Device Status
- Customer Contact Info

Settings

- Service Manager Model
- RF Power
- Time
- Description / Comments
- NetReach Admin Access
- NetReach Admin User ID
- NetReach Password
- Syslog Enabled
- WDS Mode Fields
- SSID #1
- SSID #2
- VLAN ID #1
- VLAN ID #2
- Network Mode
- Device Mode
- Advertise SSID
- Security Type
- Pass Phase Type
- Pass Phase
- Country Code
- Channel Range
- Channel Region
- WEP Key Length
- WPA-WPA2 Cipher
- WPA-WPA2 Enterprise Fields (RADIUS)

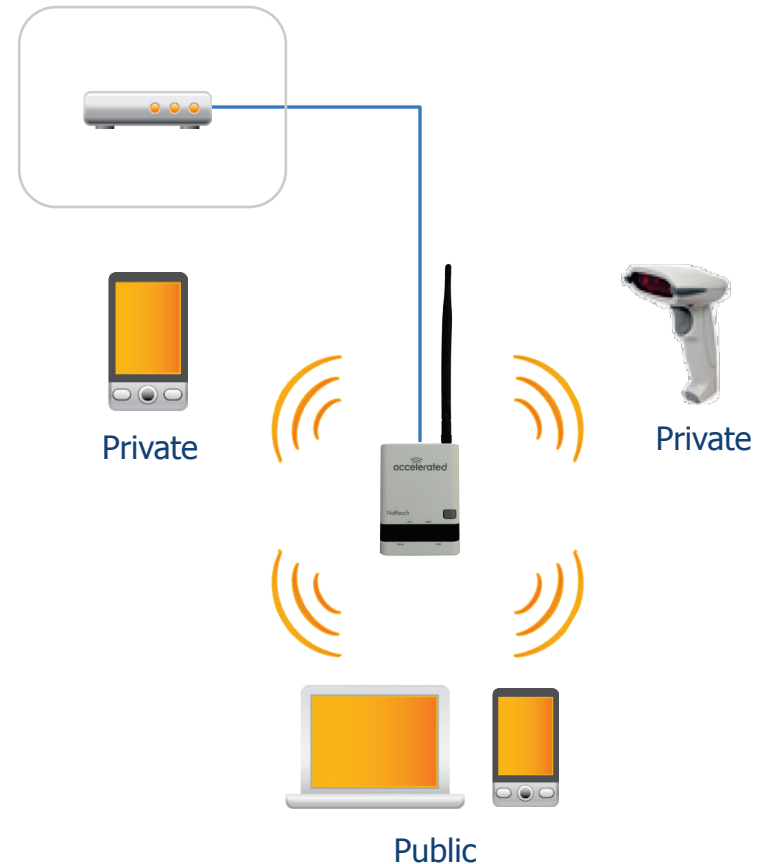
Class of Service to Control Public Wi-Fi



Public Wi-Fi Users - Separated from Corporate Traffic using Stateful firewall and VLAN; utilizes elastic bandwidth on ISP connection and does not affect speed of corporate traffic

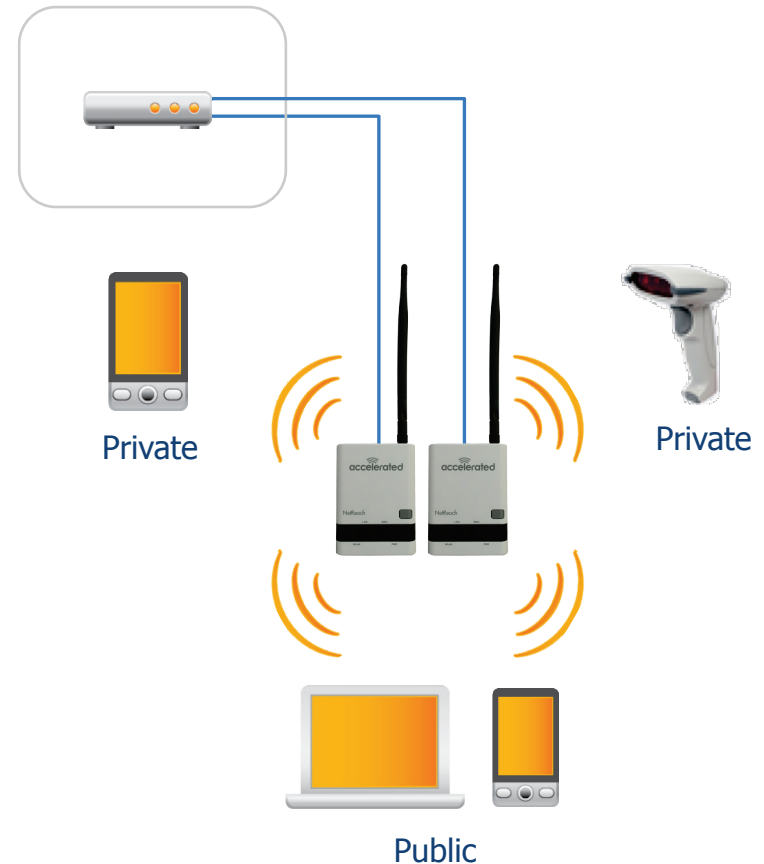
Single NetReach – Typical Configuration

- » Most common configuration
- » Centralized configuration and remote control
- » Powerful 400mW variable transmit radio covers typical retail space
 - ▶ Indoor Coverage 100 to 300 feet
- » 2 VLANs per NetReach in any combination of Public and/or Private Wi-Fi networks with prioritization
- » Remote power with Passive PoE to simplify installation

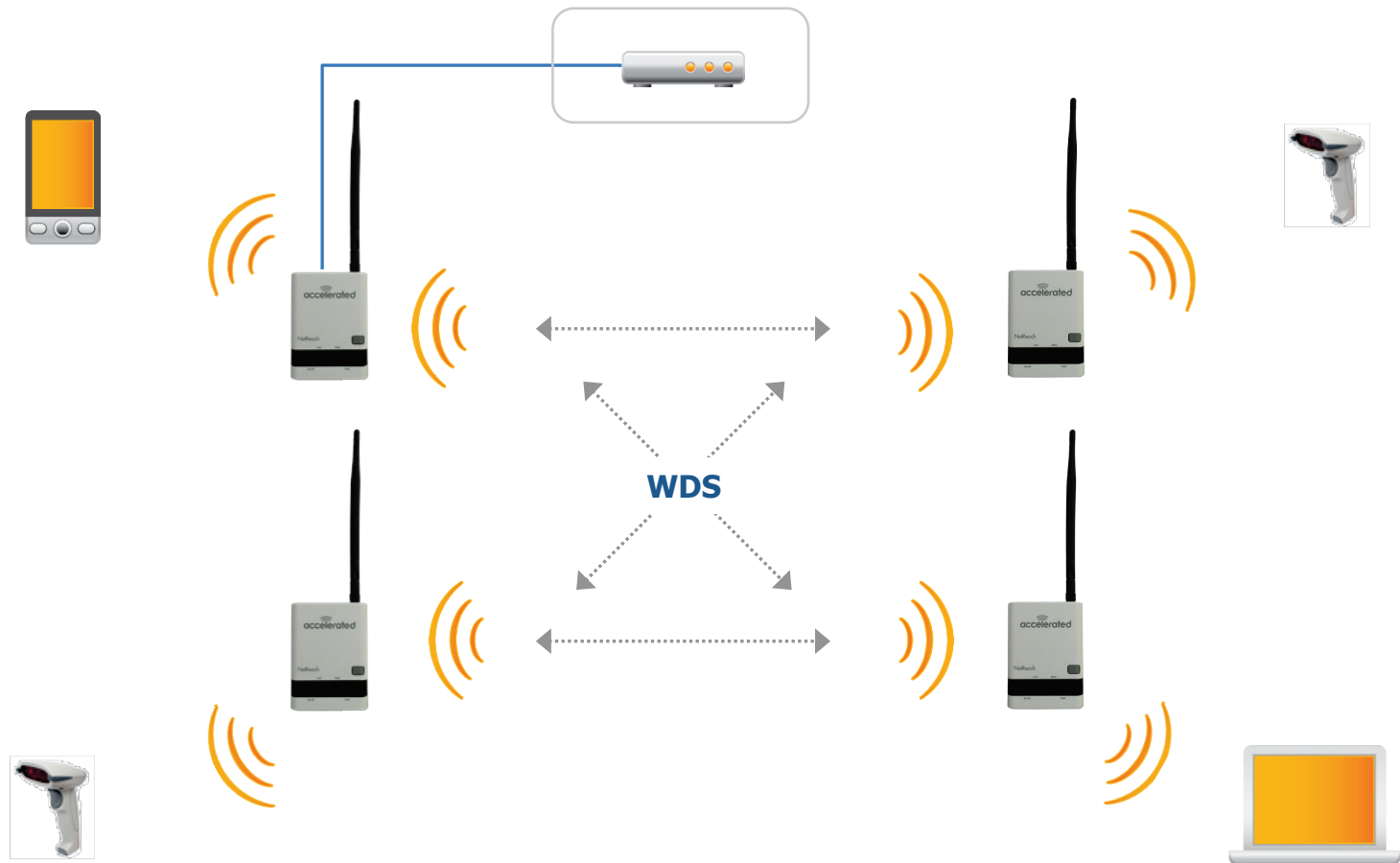


Redundant NetReach Devices

- » Redundant NetReach devices with automatic failover for mission critical applications
- » Centralized configuration and remote control
- » Powerful 400mW variable transmit radio covers typical retail space
 - ▶ Indoor Coverage 100 to 300 feet
- » 2 VLANs per NetReach in any combination of Public and/or Private Wi-Fi networks with prioritization
- » Remote power with Passive PoE to simplify installation



Additional NetReach Devices with WDS



- » Additional NetReach devices installed via WDS in difficult wire situations
- » Four NetReach devices connected via WDS for maximum Wi-Fi coverage

Accelerated Network Management System (ANMS)

Accelerated Network Management System

- » Monitor & Remotely Control - AT&T VPN Gateway, Accelerated NetBridge Cellular Routers and NetReach Wi-Fi Extender
 - ▶ Centralized Configuration changes, Firmware updates & Reboots
 - ▶ Reporting on over 50 items regarding the availability, performance, configuration and location of your NetBridge Cellular Routers
 - ▶ Alerts can be sent to e-mail or SMS
- » Powerful user interface that allows sorting and searching in order to improve productivity and identify problem patterns
 - ▶ Dashboard view identifies all devices in alert status
 - ▶ Mapping function provides a helpful visual of network status
- » Standard and Ad Hoc Reports
- » Automatic inventory control of devices

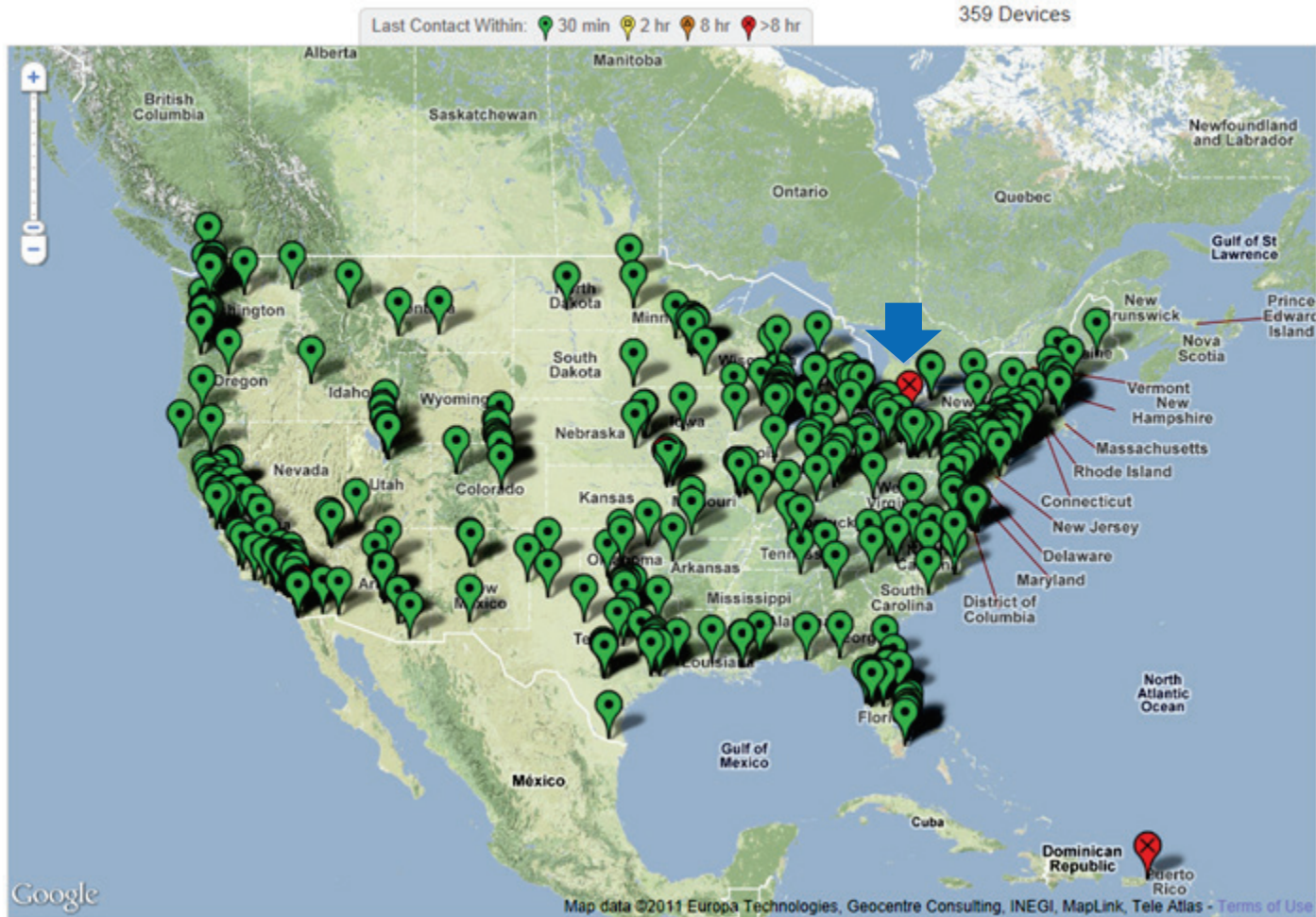
ANMS – User Interface

The screenshot shows the ANMS User Interface. At the top, there is a navigation bar with links for 'Dashboard', 'AT&T VPN Gateway', 'NetReach (Wi-Fi)', 'NetBridge (Cellular)', 'User Accounts', and 'Logout'. Below the navigation bar, the 'AT&T VPN Gateway' section is active. It features a 'View Map' button, an 'Export CSV' button, and a filter for 'Last Contact Within' with options: 30 min, 2 hr, 8 hr, and >8 hr. A search bar is also present. The main content is a table with the following data:

Status ▼	MAC Address	IP Address	Description	City	State	Zip	Last Probe
●	00D0CF178EFA	74.0.63.187	155	SCHAUMBURG	IL	60173	2011-09-15 11:25:50 EDT
●	00D0CF159D03	71.138.214.226	26	BAKERSFIELD	CA	93304	2011-09-14 19:15:21 EDT
●	00D0CF15B71B	66.166.21.58	62	CITRUS HEIGHTS	CA	95610	2011-09-14 17:19:47 EDT
●	00D0CF178798	66.134.104.82	141	ALBUQUERQUE	NM	87110	2011-09-14 16:55:27 EDT

1. The Accelerated Network Management System supports the AT&T VPN Gateway, NetReach and NetBridge devices from a single system
2. All fields can be sorted, for example sort by city, state or zip code to determine if a problem is localized
3. All fields can be search (i.e. show all devices in California)
4. All online views can be exported to create ad hoc reports
5. View Map shows all devices or only devices in alert status

ANMS – Map All Devices



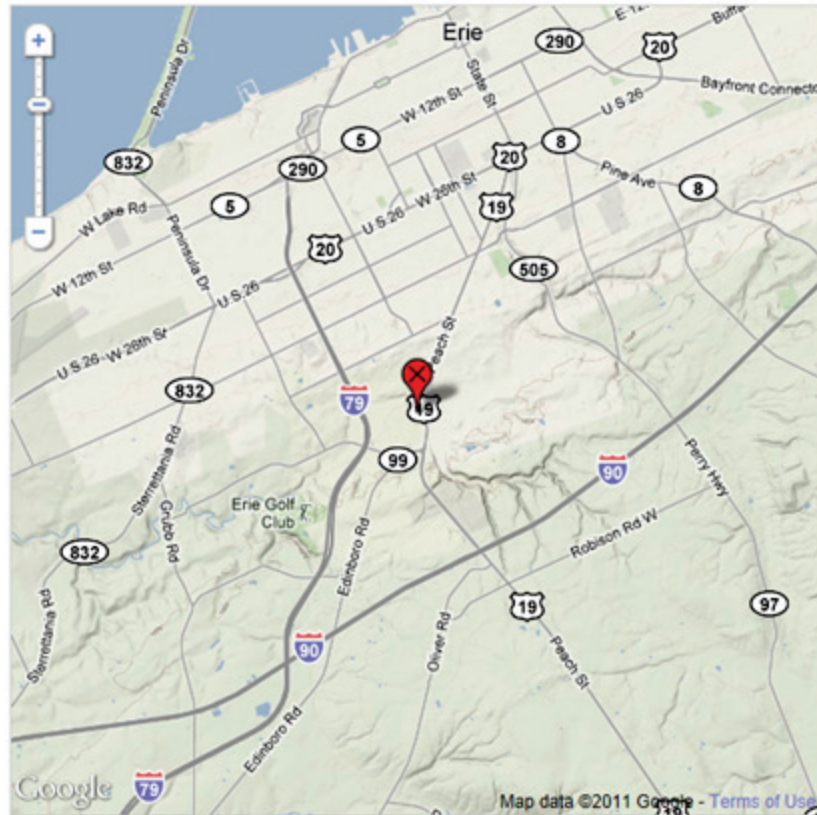
ANMS – AT&T VPN Gateway Device View

Reboot Update Probe Map



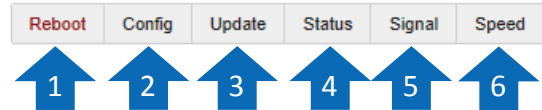
IP Address 108.11.135.x
MAC Address 00D0CF159Cxx
Last Probe Date 2011-09-22 03:00:03 EDT
Location Millcreek Mall, Erie, OH 16565

1. Reboot device
2. Update Firmware
3. Probe device for current status



ANMS – NetBridge Detail

NetBridge: 00C0CA49D0CC



Signal Strength	51%
Netbridge Unit Number	00C0CA49D0CC
Netbridge Status	●
Data Transmitted	345435
Data Received	342
Data Transmitted Last 30 min	5654
Data Received Last 30 min	34325
Modem ECIO	-6.0
Modem CNTI	HSDPAVHSUPA
CID	090DA3FF
LAC	0F94
Last Restart Date	2011-09-13 16:10:31 UTC
Last Restart Message	unmanaged
Last Update	2011-09-13 16:10:33 UTC

1. Reboot device
2. Configure device
3. Update Firmware
4. Probe device for current status
5. Probe device for current Signal Strength
6. Probe device for current speed
7. System Log

7 Syslog

```
Sep 1 15:50:49 00C0CA49D0CC status: cnt=5030~rx=744399~tx=671876~rx30=18~tx30=24~uptime= 06:10:02 up 17 days, 11:10, load av  
erage: 0.00, 0.00, 0.00  
Sep 1 15:55:49 00C0CA49D0CC status: cnt=5031~rx=744436~tx=671924~rx30=37~tx30=48~uptime= 06:15:02 up 17 days, 11:15, load av
```

About Accelerated Concepts

- » Founded in 2006
- » Led by former AT&T Executives
- » Focused on Fixed Cellular Data
- » Authorized EMI and NI partner
- » Authorized AT&T Dealer in the Industry and Mobility Alliance Program

