



**IndustrialPro™ Routers (SN and RAM Series)
EnterprisePro™ IP/V Routers (A/M/R D-Series)
Wireless Modems**

Release Notes
Through Version 3.09

June 2011

IndustrialPro™ Routers (SN Series)

Release Notes

CHANGE HISTORY

Version	Date	Description
3.09	June 24, 2011	Release 3.09
3.08	March 16, 2011	Release 3.08
3.07	January 11, 2011	Release 3.07
3.06	October 12, 2010	Release 3.06
3.05	October 5, 2010	Release 3.05
3.04	May 8, 2010	Release 3.04 – Pre Release



IndustrialPro™ Routers (SN Series)

Release Notes

Sixnet Wireless Firmware Release 3.09

- Release Date: 6/24/2011

Release Summary

- Added support for ModBus protocol (RAM edition only)
 - Added IO DB kernel module for storage of register information (Industrial Pro Plus Only)
 - Added Command Line Interface for ModBus Configuration (Industrial Pro Plus Only)
 - Added Base Station ID and GPS Lat/Long coordinates to Sixview Manager Check-In information
 - Added Support for SN/BT units push button reset to factory default, if held for 3 sec. on power-up.
 - Added leftsourceip option to IPsec tunnels.
 - Updated contact information on Web Interface
 - Updated OpenSSL Libraries to latest version 0.9.8r
 - Optimized Web Interface to decrease GUI page load times
 - Lightbar v1.45 - fix for Wireless DoD mode (double strobe)
 - Added integration between gwlnx protocol converter and GUI engine to improve screen load times.
 - Updated Status screen display for IP Transparency mode
 - Added Private IP option to IP Transparency mode to pass more local addresses to the world.
 - Added vsftp to expert mode
 - Added ntpd to expert mode
 - Updated OpenVPN to v2.1.4
 - Changed default SixViewManager ports from 48080 to 18080
 - Changed default SixViewManager servers to server1.sixviewmanager.com/server2.sixviewmanager.com
 - Added Status screen display of wireless/cellular uptime.
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- Detection Support for the Vodafone/Huawei K4505 GSM cellular modem

Bugfixes

- Corrected IPSEC configuration of "Road Warrior Mode" to function properly when Remote IP address is empty/unknown
- Fixed firewall parsing of Filter Rules section to allow multiple filters on a interface pair.
- Fixed firewall General Setting [IPsec?](#) Allow option to allow [IPsec?](#) interfaces to be untrusted/external interfaces.
- Fixed firewall [IPsec?](#) option to allow Filter Rules to restrict traffic on internal [IPsec?](#) connections.
- Fixed OOB raw mode to ignore all combinations with ~ chars during TCP mode.
- System Startup date will be Jan 1, 2011 if clock is before 2011.



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IndustrialPro™ Routers (SN Series)

Release Notes

Sixnet Wireless Firmware Release 3.08

- Release Date: 3/16/2011

Release Summary

- Added robust connectivity handling for SixView Manager client
- Added user-level support for rewriting U-Boot environmental variables
- Additional SNMP variables for GSM carriers
- Optimized cron to handle date changes
- Added SNTP server support
- Added VSFTP for SDK use
- Updated DNS to allow more than one search host
- Added support for Sierra MC5725 provisioning
- Added support for Bell Mobility MC5727/MC5728 provisioning
- Added support for Cellcom MC5728 provisioning
- Added VRRP Status file for runtime statistics
- Added support for Cellular Roaming control from GAU
- Added GSM Provisioning capability to GAU, displays additional information
- Optimized support for Remote Reflashing for all models

- Added support for new aircards
 - AT&T USBConnect Shockwave HSPA+ USB modem
 - Verizon Pantech UML290 4G LTE USB modem (beta)

Bugfixes

- OpenSwan Ipsec Nat-T loop bug
- IPtrans's DHCPD fails when DHCPD already running
- IPSEC routes get out of order when default interface is reconfigured
- Fix jbmupdate gatherconfigs import behavior
- Modify PowerDownCellModem.pl to not kill all pppd processes
- IPIP tunnel page bugs
- Repaired GAU Menu option to include USB Port network configuration



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IndustrialPro™ Routers (SN Series)

Release Notes

Sixnet Wireless Firmware Release 3.07

- Release Date: 1/11/2011

Release Summary

- Support for SN/BT-64xx models
- Improved support and help info for flashing low memory (32Meg BT) units, particularly through the GUI
- New modems supported:
 - Franklin U600
 - Improved ZTE MF668? support
 - Cinterion MC75?
- IPSec? VPN Server mode support
- IPSec? VPN X.509 Certificate support
- SIM PIN Unlock support
- GSM/HSPA International RF Band selection
- IP Transparency Router Mode - Provides advanced routing features while presenting simple configuration for connected devices
- Additional Sixnet rebranding changes
- Ping Alive - Supports new options for connection testing

Bugfixes

- Fixed various GUI reflashing problems with low memory units
- rxidle value changed back to 150 from 0 in previous release
- DNSMasq? updated to latest version which solves some DNS resolution problems
- CDC/ACM detection error solved which was preventing the device from recognized certain modems on boot up
- VRRP Screen - handle multiple VRRP instances much better
- Network Interface VLAN settings simplified and streamlined



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IndustrialPro™ Routers (SN Series)

Release Notes

Sixnet Wireless Firmware Release 3.06

- Release Date: 10/12/2010

Release Summary

- Improved support and help info for flashing low memory (32Meg BT) units, particularly through the GUI
- Improved support for preserving unit configuration across reflashing
- Improved provisioning support:
 - Added SIP option for Sprint and Verizon, required for Sprint LAC/LNS support.
 - Provisioning screen now updates page with progress of provisioning process and module status
 - Added Sprint datalink provisioning support for 250U (3G mode only).

Bugfixes

- Fixed GUI reflashing problems with v3.05
- Fixed GUI Display issue for Verizon provisioning screen
- This release replaces v3.05



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IndustrialPro™ Routers (SN Series)

Release Notes

Sixnet Wireless Firmware Release 3.05

- Release Date: 10/05/2010

Release Summary

- New aircards/modules supported:
 - Sierra USB 308
 - Sierra Aircard 503
- Sierra 250U (3G support only)
 - ZTE MF668
 - ZTE K3805-Z
 - Option GlobeTrotter HSUPA
 - Option ICON 542
 - LG USB Connect Turbo
 - Pantech UMW190
 - <http://sixnet.com/content/aircard-86.cfm> for a complete list
- OpenSSL updated to version 0.9.8o, which fixes multiple security issues in previous versions
- Significantly improved bootup times due to modification to hotplug
- Smaller firmware image size
 - Removed DHCP Relay.
- Support for PRL information in SixView Manager client updates
- Support for restoring a device configuration after a firmware update
- Supports firmware updates through SixView Manager
- New "Router Mode" option for IP transparency
 - Will route traffic to the cellular network, bypassing NAT/PAT.
 - Used with SIP mode for Sprint LAC/LNS
- Support for many VRRP instances (up to 10)
- IPSec now supports X.509 certificate
- VLAN configuration supported through GUI interface
- Default RxIdle changed to 0 to disable feature by default
- TCP Socket test added to Status options screen (uses telnet to probe remote ports)

Bugfixes

- Firewall configuration for Filter Rules fixed
- Connection Tracking bug found with gianfar ethernet driver on D-Series
- IP Fallback improvements to prevent leaking packets after switching interfaces.



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IndustrialPro™ Routers (SN Series)

Release Notes

Sixnet Wireless Firmware Release 3.04

- Release Date: 7/19/2010

Release Summary

- New aircards/modules supported:
 - o Sierra 888 Compass GSM
 - o Sierra MC5725 embedded EVDO module
 - o Sierra USB 306 (Telus)
 - o Sierra USB 305 Lightning
 - o Huawei USB E182 GSM
 - o Huawei USB E168C CDMA
 - o C-motech (Franklin Wireless) Sprint U301 (3G mode only)
- Greatly improved support for VLAN configurations
- Adds serial TTY support for SN (BlueTree) models
- Adds firewall whitelisting support
- Adds support for Wifi models
- Adds support for USB ethernet device to SN (BlueTree) models
- Adds support for restoring device configuration after firmware upgrade
- Adds support for D005 4-port RS232 daughtercard
- Adds new "routing mode" option to IP transparency
- Adds SIP support for Sierra Sprint Aircards - Sprint LAC/LNS support
- Adds support for running multiple instances of VRRP
- Adds support for user access controls in the GAU
- Adds ECIO value reporting for Novatel modems
- GAU interface rebranded with Sixnet colors and logos

Bugfixes

- Fixed OpenSWAN bug: "waiting for ppp0 to become free. Usage count = -1"
- Fixed firewall redirect rules for local redirect
- Fixed GAU bug preventing entry of illegal XML characters (in password fields).



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