

## smartBridges airPoint<sup>2</sup> Nexus PRO sB3221 Firmware Release Notes

Last Firmware Version: v1.00.00

New Firmware version: v1.02.06

Date: 30 Nov 2006

### Bug Fixes

1. Not able to manage Web Interface/SNMP after running for a few days
2. Not able to support alphanumeric WPA/WPA2 keys
3. RSSI showing the same value for all WDS clients in AP mode

### Known Issues

1. WEP shared key encryption might not be compatible with some brands of clients. There is no workaround at this time.
2. Radio channel 14 in MKK Domain can not be set. There is no workaround at this time.
3. Channels in the France domain do not work. A workaround is to use channels in the Spain domain.
4. Link test page
  - a. The UDP test in the link test page will not work with Nexus airClient version 1.00.06
  - b. The bandwidth test will not start automatically on the airClient for TCP bandwidth measurement. The user will have to start the Receive on the airClient manually before doing Transmit from the airPoint and vice versa. This problem is related to airClient version v1.00.06.
5. Issues with Transparent Bridge mode of operation, while using the airClient Nexus in Bridge mode. The fully transparent bridge implementation uses WDS mode of the IEEE 802.11 specification. There are certain implementation limitations resulting in the following minor issues. We are working towards resolving some of these issues.

- a. Devices will associate with each other even if the SSID is configured differently.

In WDS mode only the MAC address and channel information are used for link association. There are no known operational limitations because of this anomaly.

- b. WDS capable client (e.g. airClient in Bridge mode) does not work with WPA or Radius authentication. There is no work around at this time.
  - c. The maximum no. of WDS clients is 8. There is no workaround at this time.
  - d. Third party WDS client will not work with WEP enabled. There is no workaround at this time.
  - e. A complete compatibility confirmation with third party WDS implementations is not available at this time.
- 6. DHCP relay in Remote Router/NAT mode does not work with Microsoft DHCP server with multiple IP pools allocation. This appears to be due to a compatibility issue of the RFC compliant DHCP implementation. There is no workaround at this time. It is expected to affect only a very few network implementations using this special feature of the Microsoft DHCP server. We will address this issue in a future firmware release.
  - 7. PPPOE relay does not behave properly if the PPPOE client lies beyond two routers/NAT. For example, the PPPOE Client is behind an airClient in Router/NAT (PPPOE relay) which is behind an airPoint in Router/NAT mode (PPPOE relay) --- (PPPOE Concentrator). There is no workaround at this time.
  - 8. The Nexus unit can not supply power to second tier daisy chained units. Nexus unit (A) with direct POE connection can properly supply power to one more device (B) connected to the second Ethernet port. When the user tries to connect one more device (C) to the B device, the voltage drop in the long cables may cause intermittent low voltage brown out, which in turn triggers all the units to go into a zombie state. Please keep daisy chaining to a maximum of one unit.
  - 9. Instability in AP NAT mode with security mode set to WEP shared/Auto.

This instability occurs when there is a static route set on the AP to allow a PC from a non-NAT network (from wired side) to reach a PC or client in a NAT wireless network.

Furthermore, the above issue only happens when a wireless client tries to associate with a wrong shared key and then tries to re-

associate with the right shared key. The instability will only occur when the PC from the NAT network is sending traffic towards the client behind another NAT network, i.e. using the static route.

This issue was simulated in only 10% of the cases when the AP was in the above state.

This issue happens only in WEP Shared/Auto modes. There is no issue in other security modes. There is no workaround at this time.

#### **New Features**

1. Allows DNS propagation in NAT mode and Router mode when DHCP is enabled
2. Sputnik captive portal has been included
3. VLAN Tagging support in NAT mode and Router mode
4. Profile Download Manager for backup, reuse and restoration of profile
5. VLAN based QoS/SLA features
6. IP/PORT forwarding in NAT mode
7. DFS support
8. Read Only User login for viewing of configurations only
9. Download/Upload ACL List
10. Remote RSSI display in Association table
11. Configurable AP redundancy option