

## smartBridges airClient Nexus PRO TOTAL sB3412 Firmware Release Notes

Last Firmware Version: v1.00.00

Date: 20 July 2006

sB3412 Firmware v1.02.02 (for units currently running on v1.00.00)

### **Bug Fixes**

1. Throughput Link test need to be performed on both end
2. Site Survey highlights airHaul root devices.
3. SNMP agent responds only from LAN IP in case of router/Nat mode

### **Known Issues**

1. Radio channel 14 can not be set. There is no workaround at this time.
2. Issues with Transparent Bridge mode of operation

The fully transparent bridge implementation uses WDS mode of the IEEE 802.11 specification. There are certain implementation limitations resulting in following minor issues. We are working towards resolving some of these issues. Please note that the Remote Router or NAT mode of the device does not have these issues.

- 2.1 airClient in Bridge mode will associate only with airPoint Nexus devices. This is mainly because a thorough compatibility study with third party WDS devices has not been done as of yet.
- 2.2 Site survey in Bridge mode shows only devices on the same channel as it's own setting. A work around is to manually change channel on the airClient Bridge and repeat the site survey. There are no known operational limitations because of this anomaly.
- 2.3 airClient Bridge may take longer time to associate as compared to airClient Router/NAT. In WDS mode the association detection algorithm performs additional checks to prevent false information. Hence it may take up to 5 minutes for data traffic to start. There are no known operational limitations because of this anomaly.
- 2.4 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

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are no known operational limitations because of this anomaly.

- 2.5 Two units configured as airClient bridge will associate each other. The airClient Bridge will associate with another airClient Bridge. This is just another anomaly with the WDS. There are no known operational limitations because of this anomaly.
3. DHCP relay in airClient Router mode does not work with Microsoft DHCP server with multiple IP pools allocation. This appears due to compatibility issue of RFC compliant DHCP implementation. There is no workaround at this time. It is expected to affect only very few network implementations using this special feature of the Microsoft DHCP server. We will address this issue in future firmware release.
4. Nexus unit can not supply power to 2nd tier daisy chained units. Nexus unit (A) with direct POE connection can properly supply power to one more device (B) connected to the 2nd Ethernet port. When user tries to connect one more device (C) to the B device, voltage drop in 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 chain to maximum one unit.
5. WPA2-radius using AES/TKIP has been tested with SB3212 AP models. We still need to test them with other third party access points that are capable of WPA2. (WPA-radius using AES/TKIP have been tested to be working well with various third party APs capable of WPA.)

### **New Features**

1. Port forwarding
2. Robust flash protection in place to prevent flash corruption
3. Allows user to add static routes in NAT/Bridge mode
4. Allows ASCII input for WPA-PSK key
5. Auto WEP authentication type for automatic selection between Shared Key or Open Systems
6. Allows user to disable/enable RIP in Router mode
7. Improves radio outage detection and recovery time
8. ETH A LED will blink during entire bootup sequence to signify power is on.
9. DNS Propagation feature is optionally available when DHCP is enabled in Router/NAT mode.