smartBridges airClient Nexus PRO TOTAL sB3412 Firmware Release Notes

Last Firmware Version: v1.02.02/v1.02.04

Date: 13 Jun 2007

sB3412 Firmware v1.04.00

Bug Fixes

1.   Preamble selection is missing

2.   Subnet mask 255.255.255.252 not configurable

3.   Radio driver showing errors in WDS mode while passing high volume
      of traffic

4.   Disappearing of static route

5.   Memory Leak occuring for models which support remote RSSI feature

6.   Radio hanging at approx 2 million second after reboot.

Known Issues

1.   Radio channel 14 can not be set.

      There is no workaround at this time. We will address this issue in
      future firmware release.

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 mode of the device does not have these issues.

      2.1. Site survey in Remote Bridge mode shows only devices on the
           same channel as its own setting. A work around is to
           manually change channel on the Remote Bridge and repeat the
           site survey. There are no known operational limitations
           because of this anomaly.

      2.2. Bridge may take longer time to associate as compared to
           Remote Router. In WDS mode the association detection
           algorithm performs additional checks to prevent false
           information. Usually this takes place within 1 minute but
           may take up to 5 minutes in rare cases for association or
           passing data. There are no known operational limitations
           because of this anomaly.

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2.3. 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.

2.4. Both units configured as Root or Remote will associate each other. The Root Bridge will associate with another Root bridge or a Remote Bridge will associate with another Remote Bridge. This is just another anomaly with the WDS. There are no known operational limitations because of this anomaly.

3. DHCP relay in Remote Router mode does not work with Microsoft DCHP 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.

New Features

1. Management and Datapath VLAN support

2. Watchguard can be enabled/disabled

3. Syslog server can be enabled/disabled

4. Configurable Control frame rate for better IP/MAC Multicast throughput