

smartBridges airPoint² Nexus Pro sB3221 Firmware Release Notes

Firmware version 1.00.00 (First initial release)

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Known Issues:

1. DFS a subset of 802.11h is not implemented at this time

This feature will be future upgradeable.

2. WEP shared key encryption might not be compatible with some brand of clients.

There is no workaround at this time.

3. Radio channel 14 and 165 can not be set.

There is no workaround at this time.

4. Channels in France domain do not work.

A workaround is to use channels in the Spain domain.

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 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 (eg. airClient in Bridge mode) does not work with WPA-PSK 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 Link 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.

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6. DHCP relay in Remote 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.

7. Secondary Radius server does not work when security is set to "External ACL (Radius)& Internal ACL". This works only for WPA-Radius.

There is no workaround at this time.

8. PPPOE relay does not behave properly if the PPPOE client lies beyond two routers/NAT. ie. PPPOE Client --- airClient in Router/NAT(PPPOE relay)---airPoint in Router/NAT mode(PPPOE relay)---(PPPOE Concentrator)

There is no workaround at this time.

9. 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.

10. AP NAT mode has some instability issues when user tries to pass traffic before client associates.

The above issue will be resolved in future releases

Special Notes:

1. There is a limitation in SB3221 to do radio specific radio recovery action, so if one radio is down or has no client association, the recovery action will involve reinitializing the other working radio as well causing all clients to disassociate momentarily. Customer is advised to disable the radio which is not in use to avoid false detection by the WatchGuard.

2. When Bandwidth Control is enabled for the clients and bi-directional TCP traffic is passed concurrently, the lower value of the configured Bandwidth Control (upload/download) will be applied. If passing only uni-directional TCP traffic in both directions, bandwidth Control will work with the configured value. This is because of the TCP ACKs not getting enough bandwidth when the upload and download bandwidth are completely utilized. This behaviour is limited to TCP traffic only.