

# NCB-3220/NOC3220 Changelog

Release Date January 31, 2007

Firmware : 1.39.06	HW Version : 1.1.0
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## New Features

- Add MAC layer ack timeout.
- Add Turbo mode only support AP mode G band.
- Add QoS (WMM) wlan driver v1.12 support.(20070105\_2, 20070105\_3, 20070105\_4, 20070105\_5, 20070105\_6, 20070105\_7, 20070105\_8, 20070105\_9, 20070105\_10, 20070108\_1, 20070108\_2, 20070108\_3, 20070108\_4)

## Changed

- When Site survey connect to AP display message "Encryption Type Mismatch" redirecting to wlwpa.asp .
- Modify login GUI show mode name.
- Remove CR mode network type and channel.
- Modify DHCP client retry time 60 sec to 10 sec.
- Modify transparent bridge Key word length.(20061124\_1)
- Changed auth to v1.7f solve WPA2 unstable issue.
- SNMP trap support cold start warm start.
- Solve CR mode can't use WPA/WPA2 HEX function.
- Modify Client Route mode WLAN interface web page can set WLAN access and WLAN ping, default enable.(20061228\_2)
- SENA0 enterprise OID change from 332 to 14125.
- SystemSetting -> "operationMode" item of Senao Private MIB change from RWRITE to RONLY, because MIB Browser can not change this item.
- Modify security web page can't entering ">" and ""issue.(20061228\_24, 20061228\_25)
- Change mode to CB/CR set STP to disable.(20061228\_22)
- Change mode to CR set DHCP server to enable.(20061228\_1)
- Remove accessControlList OID because no list entry to configure.(20061228\_5)
- Re-definition Coldstart and WarmStart trap. The ColdStart should be used when the wireless device has been rebooted. The WarmStart should be used when re-enabling the trap demon.(20061228\_19, 20061228\_20)
- Up to 32 characters can be input in desiredSSID via SNMP.(20061228\_11, 20061228\_14)
- Up to 29 characters can be input in deviceName.(20061228\_13)
- Modify the MIB file description of WEP 、 deviceName 、 desiredSSID 、 IPAddress and Subnet Mask OID.(20061228\_4, 20061228\_6, 20061228\_7, 20061228\_8, 20061228\_12)
- Fix SNMPD crash bug when set blank SSID via SNMP.(20061228\_9)
- Fix SNMP bug when key in #1 in deviceName and desiredSSID OID.(20061228\_10, 20061228\_12)
- Remove unknow trap OID.(20061228\_15, 20061228\_16)
- Add null value to NAS-ID.(20061228\_23)
- When change mode to CB/CR mode remove 11g Protection selection.
- DHCP client send discover packet to DHCP server every 20 sec.(20061228\_3)

## Release Date October 31, 2006

Firmware : 1.38	HW Version : 1.1.0
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### New Features

- Modify BAND & Rate can select with CB mode.
- Added B mode Output power control.
- Modify kernel support Excel flash ES29LV320DB 、 ES29LV160DB & spansion flash S29JL064H.
- Boot code:
  - - Support Excel flash ES29LV320DB 、 ES29LV160DB & spansion flash S29JL064H(4M)

### Problems Resolved

- Update WPA daemon(auth) to version v1.7b for the following changes:
  - - Add security log.
  - - Reset new allocated memory to fix the connection unstable problem when for 2nd or later STA to associate with AP.
  - - Fix a memory leak issue when WPA authentication was failed.
- Update wlan driver to version v1.11 for the following changes:
  - - Add support for external LNA.
  - - Add log for ACL.
  - - Find tune rate adaptive mechanism.
  - - Fix bug of G-only client mode to associate to BG AP.
  - - Fix AP+WDS encryption problem. When AP is set to WPA or WPA2, WDS channel may not work if WDS security is enabled.
- Modify init.sh remove Setup WAN interface.

### Changed

- Change AP mode wlan led type = 7 (Enable/tx/rx), CB mode = 5 (link/tx/rx) .
- Edit SNMP webpage "Support WebAdmin Control" to "SNMP Daemon:" .
- When reload seting to device show 18 Sec to count down.
- Modify reboot webpage show 50 Sec to count down.
- If setting to AdHoc mode remove Transparent bridge function.
- Modify use SNMP get current auto TX rate issue.
- Modify CB mode on webpage show signal level and noise level of current AP.
- Boot code:
  - - Modify SDRAM clock for stability.

## Release Date July 20 , 2006

Firmware : 1.37	HW Version : 1.0.0
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### New Features

- Add nuttcp appilication default with server mode.

## Problems Resolved

- Modify bridge mode security web page remove 802.1x function. When AP mode change to CB mode, USE1X=0 WPA\_AUTH=2
- Remove Turbo mode function, when use turbo mode, b mode Throughput will be down to 2-3 MB.
- Debug WLAN dhcp clinet can't work with bridge router mode.
- Remove WLAN clone MAC with bridge router mode.
- Add Clinet Route mode lan side show gateway(can use DHCP server get gateway ip).

## Changed

- change AP mode wlan led type = 6(enable), CB mode = 2(link).

## Release Date June 27 , 2006

Firmware : 1.36b	HW Version : 1.0.0
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## Problems Resolved

- Remove init.sh kill reload (HW reset) function.

## Release Date April 13 , 2006

Firmware : 1.36a	HW Version : 1.0.0
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## New Features

- Add User Isolation function.

## Problems Resolved

- When device reload driver kill reload process.
- Remove clinet router mode LAN default gateway.

## Changed

- Edit chage mode pop up windows message "Please change the IP Address in your web browser to (XXX.XXX.XXX.XXX)".
- Edit Upgrade firmware message to "Update successful (size = x bytes) Please wait while the device is rebooting."

## Release Date March 29, 2006

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Firmware : 1.36	HW Version : 1.0.0
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## New Features

- Add wlan “turbo” mode. When it is enabled, it will burst packet to get better performance when 3220 AP via Realtek wlan clients (i.e., 8185 PCI, 8187 USB or 8186 client).
- Web page add restart column.
- Add an option to save system log file to remote PC.

## Problems Resolved

- Fix an auto-channel issue that AP may not be able to detect other APs which broadcast SSID is disabled.
- Fix aWPA/WPA2 mixed mode issue in 802.1x daemon (auth) under AP mode.
- Fix a 802.1x daemon problem that 3220 client may not be able to connect to an AP in WPA2 TKIP.
- Fix bug of connection fail in Ad-hoc mode if hidden AP function is turned on.
- Fix a wlan hang up problem when auto channel selection is used under AP+WDS mode.
- Fix the problem that spanning tree protocol packet can't pass-through through Ethernet-wlan bridge in client mode.
- Fix a compatibility issue when 3220 client is set to B band only.
- Fix bug of client router can't work.

## Changed

- Modify the way of setting wlan mib from script file to binary data at one time (by flash utility) to reduce configuration time.
- Modify web server to response user update after configuration data has been updated into flash. It will not wait until the system is re-initialized.
- Replace 'reload.sh' script file with a daemon program (reload) to fix the performance degrade issue.
- Add Tx priority queue in wlan driver for Ethernet LAN priority packet. This option is disabled in default.
- Speedup roaming time when 3220 is configured as infrastructure client.
- Improve wlan rate adaptive mechanism.
- Reduce allocated memory for 802.1x daemon.
- Modify web server to allow user update f/w, including web-page+Linux+config-data.
- Use LZMA compression algorithm to compress Linux image to get better compression ratio.
- When fix rate selection is used b rate, can't select power.
- Date rate showed the different option with power level.

## Release Date March. 17, 2006

Firmware : 1.33	HW Version : 1.0.0
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## New Features

- Add Client router mode.
- Add transparent bridge daemon.(when transparent bridge enable, client bridge can't ping other client bridge)

- In client mode,add desired bssid column.
- In client router mode,delete "Enable Mac Clone" option.
- Add SNMP web page.

### Release Date March. 1, 2006

Firmware : 1.33 Beta	HW Version : 1.0.0
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#### New Features

- Add SNMP daemon.(always on) and Senao Private MIB

#### Changed

- Remove telnet Daeomon. (Since Telnet daemon which don`t support Authentication, so PM decide to remove it from v1.33)
- Remove Auto-Config daemon to reduce the size of Ramdisk.img.

### Release Date January. 20, 2006

Firmware : 1.32c	HW Version : 1.0.0
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#### Changed

- Regulatory Domain differentiation in manufacturing mode.
- Remove Wlan interface Disable item on Web Page.
- Take off B/G mode selection function in Client-Bridge mode.

### Release Date December. 28, 2005

Firmware : 1.32	HW Version : 1.0.0
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#### Changed

- Disable High Power Check(iwpriv wlan0 set\_mib HighPowerChk=0).
- Add Gateway and DNS Relay in AP mode.

### Release Date December. 4, 2005

Firmware : 1.31	HW Version : 1.0.0
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## New Features

- Add Tx Power Control.