

# Setting the Carrier Sense Threshold from NetSpan

- Log on to the NetSpan server
- From the **Base Station Profiles** drop-down select **BS Custom Configuration**
- In the List select the profile in use (Software Lab Test in this example) and click the **Edit** button

The screenshot shows the NetSpan web interface with the following components:

- Header:** "Netspan AIR005415 User: pjohnson Started: 10/10/2007 11:02:52 - Windows Internet Explorer" and the URL "http://10.0.35.243/Netspan/Startup/Home.htm".
- Navigation Menu (Left):**
  - Main
  - Configuration Management
  - Topology
  - Service Profiles
  - Base Station Profiles** (Expanded)
    - Burst Profiles
    - Ofdm Channel
    - 802.16 Protocol
    - Private Key Management
    - BS Custom Configuration
    - SubChannelisation
    - VoIP QoS
  - Software Management
  - Fault Management
  - Performance Management
  - Server
- Network Status (Bottom Left):**
  - Services: 8 5 0
  - BSs: 63 10 13
  - Sectors: 61 60 1
  - SSs: 258 20 228
  - Alarms: 268 0 268
- Main Content Area:**
  - Title:** "Base Station Custom Configuration Profiles"
  - Layout:** Default Save
  - Table:**

	Name	Target Hardware Category	Range Backoff Start	Range Backoff End	Rebroadcast Backoff Start	Rebroadcast Backoff End	Link Update Period	Link Update Size
1	Software Lab Test	(not defined)	2	4	2	4	1000	5
2	Yozaan 10MHz 4ms	(not defined)	2	4	2	4	1000	5
3	Sample of BS Custom Configuration old	(not defined)	2	4	2	4	1000	5
4	Yozaan 5MHz 10ms iss 2	(not defined)	2	4	2	4	1000	5
5	Software Lab Test 1.75MHz	(not defined)	2	4	2	4	1000	5
6	Yozaan 5MHz 10ms 50-50 iss 4 - midam	(not defined)	2	4	0	4	1000	5
7	Yozaan 10MHz 4ms 60-40 iss 4 - midam	(not defined)	2	4	0	4	1000	5
8	Yozaan 10MHz 4ms 60-40 iss 4 - no mid	(not defined)	2	4	0	4	1000	5
9	Yozaan 5MHz 10ms 50-50 iss 4 - no mid	(not defined)	2	4	0	4	1000	5
10	Yozaan 5MHz 4ms 60-40 iss 4 - midambi	(not defined)	2	4	0	4	1000	5
11	Yozaan 10MHz 10ms 50-50 iss 4 - mid	(not defined)	2	4	0	4	1000	5
12	Software Lab Test Multiburst	(not defined)	2	4	2	4	1000	5
13	Yozaan 5MHz 10ms 50-50 iss 4 - midam	(not defined)	2	4	0	4	1000	5
14	Yozaan 10MHz 4ms 60-40 iss 4 - midam	(not defined)	2	4	0	4	1000	5
15	Yozaan 5MHz 10ms 40-60 iss 4 - midam	(not defined)	2	4	0	4	1000	5
16	Yozaan 5MHz 4ms 60-40 iss 4 - midambi	(not defined)	2	4	0	4	1000	5
17	Yozaan 5MHz 20ms 50-50 iss 4 - midam	(not defined)	2	4	0	4	1000	5
18	Yozaan 5MHz 10ms 50-50 iss 4 - ma 0 -	(not defined)	2	4	0	4	1000	5
19	Yozaan 5MHz 10ms 60-20 iss 4 - midam	(not defined)	2	4	0	4	1000	5
20	temp pb	(not defined)	2	4	2	4	1000	5
  - Footer:** "Total Database Items: 60 Total Loaded Items: 60 Prev Next 1 of 3" and "Paged Size 20".

- Scroll down to the **OFDM Channel** and enter the required value in the **Carrier Sense Threshold** edit box and click **OK** (e.g. -60 dBm in this example)

The screenshot shows a web browser window titled "Netspan@AIR005415 User: pjohnson Started: 10/10/2007 11:18:56 - Windows Internet Explorer". The address bar shows "http://10.0.35.243/Netspan/Startup/home.htm". The main content area is titled "Edit Base Station Custom Configuration Profile".

On the left side, there is a navigation menu with the following items:
 

- Main
- Configuration Management
- Topology
- Service Profiles
- Base Station Profiles (selected)
  - Burst Profiles
  - Ofdm Channel
  - 802.16 Protocol
  - Private Key Management
  - BS Custom Configuration
  - SubChannelisation
  - VoIP Qos
- Software Management
- Fault Management
- Performance Management
- Server

At the bottom left, there is a "Network" status bar showing:
 

Services	0	0	0
BSs	63	10	53
Sectors	61	60	1
SSs	266	20	226
Alarms	266	0	266

The main configuration area is divided into sections:
 

- General Settings:**
  - Downlink Max Allocation Size: 32000 byte
  - Midamble Repetition Interval: After Every 8 Symbols
  - Timing Source: Internal
  - Transmission Frame Gap: 660 P<sub>s</sub>
- OFDM Channel:**
  - Fast Power Control: Off
  - Duplex: TDD
  - Min Frequency Offset: -1000000
  - Max Frequency Offset: 1000000
  - Min Timing Offset: -1
  - Max Timing Offset: 1
  - SNR Change For UI Burst Profile: 8
  - Min Subchannel Req Region Full Tx Opp: 0 1/s
  - Channel Bandwidth: 5 MHz
  - Carrier Sense Threshold: -60 dBm
  - Carrier Sense Backoff Frames: 1
  - STC Number of Frames Between Shifts: 0
  - STC Min Shift: 0 symbols
  - Earliest STC Minimum Shift: 8 symbols
  - Minimum Req To STC Gap: 5 symbols
- Application:**
  - Allow Insecure SS: Yes

At the bottom of the configuration window, there are four buttons: **OK**, **Cancel**, **Validate**, and **Reload**.