KENWOOD

NEXEDGE®

DMR Auto Slot Select

NX-5000 Firmware V2.4 or later
NX-3000 Firmware V1.2 or later

1   Outline

The "DMR Auto Slot Select" function in the NX-5000 V2.4 and NX-3000 V1.2 allows the subscriber unit (SU) to automatically switch when used with a DMR repeater. This functionality allows for efficient slot usage without the user to having to change channels to use a different slot on said repeater.   The same Color Code (CC) must be applied to both Slot #1 and Slot #2.

NOTE: DMR Auto Slot Select functions in repeater mode only. DMR Auto Slot Select cannot be programed on a channel configured for Direct mode operation. In the case of the use of the talk around function the channel with the Auto Slot Select programming, the SU is fixed on Slot #1.

2   Transmit Behavior

After power on or Zone-Channel change, the SU uses Slot #1 for transmitting. If Slot #1 is busy, it switches to Slot #2. If the SU receives a call on Slot #2 before starting TX, Slot #2 becomes the Revert Channel and starts TX on Slot #2. In case both slots are busy, the SU is restricted by the Busy Channel Lockout (BCL) configuration.

NOTE:
1)   DMR Auto Slot Select behavior does not apply to the transmission of an acknowledgement for calls that require acknowledgement such as an Individual Status Call or Individual Call with acknowledgement. An acknowledgement is always transmitted on the last called Slot.

2)   The Call Interruption such as Interrupt (ALL/Emergency/Message) CALL whose trigger is the call initiation is executed before the Auto Slot Select behavior.

3   Receive Behavior

When a SU is configured for "Auto" in Slot selection programming, the SU may receive a call from either repeater time slot. Upon receiving a call, it will automatically switch to the slot on which the call occurred. If calls occur on both slots, then the call that started first will capture the SU and that slot will be used. If a higher priority call, as noted in the following table, starts on another slot during call activity, the SU will automatically change slots to receive the priority call.

For example: Slot #1 is an All Call and Slot #2 is a Group Call; The SU receiving the Group Call on Slot #2 will automatically switch to Slot #1 since the All Call has a higher priority than a Group Call.
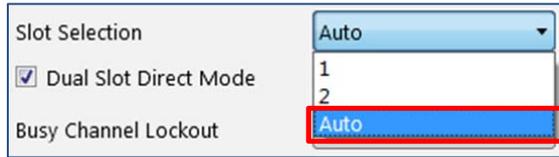
Priority Level	Communication Service
1 (highest level)	Remote Stun/ Revive/ Kill
2	Emergency Call, Emergency Alarm
3	Individual Call, Paging Call, All Call
4 (Low level)	Unaddressed Call, Group Call, Broadcast Group Call, Status Call, Short Data Call, Remote Monitor, Radio Check, Send the GPS Data, Emergency Status

NOTE:
During the Auto Reset Timer periods, the SU is operating on the Last Called Slot.　If it detects a call on the other Slot of higher priority than the Last Called, the SU will switch slots.

4　　　Configuration

Select "Auto" from the Slot Selection on Personality configuration.