



Technical Note TN-699

How to use Group Select on a Tait Orca Elan, Excel, 5030, 5035 or 5040.

11 March, 2002

Applicability

This Technical Note applies to the Tait Orca Elan, Excel, 5030, 5035 and 5040 portable MPT 1327 radios.

Purpose of Group Select

The Group Select feature enables the portable user to include or de-select themselves from any of the receive group list members that have been programmed into the portable radio.

Group definitions

Permanent: This group identity will **always** be received by the radio when this group call is generated. It can only be selected and de-selected by the PGM software.

User Selectable: This group identity will be received **only** when the user leaves the preset idle on this group number, therefore one of the 16 rotary preset locations must be earmarked for this group identity.

Scan: This group identity will **only** be received when the preset identity '***' is selected on the rotary preset.

User Selectable + Scan: This group identity will be received when the user leaves the rotary preset idle on this group identity, **or** in the '***' rotary preset location.

Dynamic: This group feature allows system Network Management Terminal (NMT) users to include certain radios into a group without user operation. It requires a HASP / security plug to program the radios and needs to be supported by the MPT system.

The first member in the group list of an Orca Elan or Excel **MUST** be set as Dynamic, even if no identity is entered.

User operation of an Orca Elan or Excel

The first identity of the Group Membership on the Radio ID page of the PGM software MUST be set to Dynamic, even if no identity is entered.

Once the portable radio has the required groups, and preset locations found on the Preset Calls page of the PGM, the user simply moves the rotary selector to the group identity required. The radio will give a single beep which indicates the radio is ready to receive group calls from both this identity or any listed as permanent.

This feature is supported by all versions of Orca MPT programming PGM from v2.0.0.

User operation of an Orca 5030, 5035 or 5040

The first identity of the Group Membership on the Radio ID page of the PGM software MUST be set to Permanent, even if no identity is entered. User Selectable group types can be assigned, but will only be acknowledged from the second member onwards.

Once the portable radio has the required groups, and preset locations found on the Preset Calls page of the PGM, the user simply moves the rotary selector to the group identity required. The radio will give a single beep which indicates the radio is ready to receive group calls from both this User Selectable identity, or any listed as permanent.

This feature is supported by all versions of Orca MPT programming PGM from v2.0.0.

Join Busy Group system requirements for the Orca

The Join Busy Group feature in the Orca range of radios relies on the MPT system sending repeat Go-To-Channel (GTC) broadcasts on the control channel.

The Queue For Busy Ident on the system must also be switched off.

Join Busy Group setup

The Join Busy Group tick box in the Call Options page dictates what the radio will do if a valid group is already in use when a user attempts to setup a group call to this active group.

If the tick box is enabled (but the radio is not a member of this particular group) the radio will be allowed to migrate to the valid group traffic channel when the user sets up the call to that group identity. NOTE: The migration will occur at the *next* GTC broadcast from the system.

If the tick box is disabled the radio will display ENGAGED in response to the group call setup.

Late Entry to Groups

The MPT system **must** support repeat Go-To-Channel (GTC) broadcasts on the control channel for this feature to work.

Normally, if a user returns to the control channel after a valid group call has already been set up the radio (and user) will be unaware of the call.

If the system has repeat GTC set up, the radio will automatically be migrated to the current group call traffic channel (at the *next* GTC broadcast) and becomes a valid member of the call. No user operation is required.

NOTE: This will happen automatically if the group identity is Permanent or if the user has already selected User Selectable or Scan with the rotary preset selector.

Compliance Issues

None.

Issuing authority

Name and position of issuing officer

Graham Brenchley

Customer Support Engineer