



Icom America Inc.

Quick Reference Tutorial



▲ IC-F3161DT/T

▲ IC-F4161DS/S

iDAS
ICOM DIGITAL ADVANCED SYSTEM

DIGITAL FEATURES

*Programming for **Select Call**
using Individual IDs*



Before You Program

Desired Action:

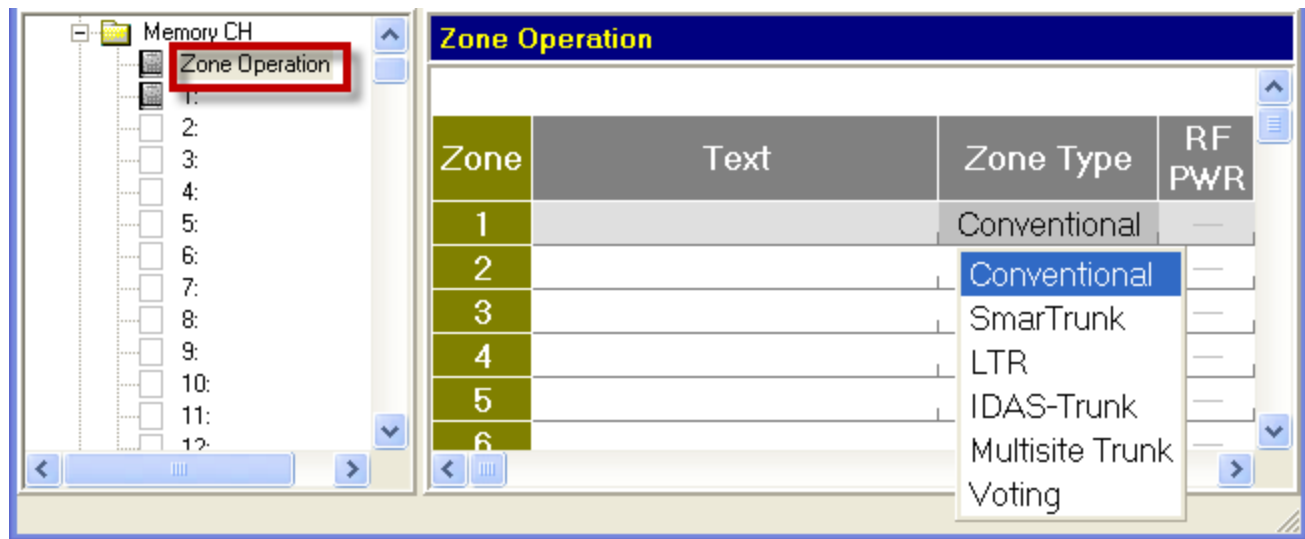
- Individual IDs allow you to call a particular radio, excluding any others that are on the same frequency.

Assumptions:

- Proper frequencies are entered
- Proper RAN codes are entered
- Proper squelch is set
- Radio is 6.25kHz capable (UT-119H/126H).
- Radio is upgraded to the latest firmware (Main and DSP).
If used with a repeater, the repeater must also be firmware upgraded.

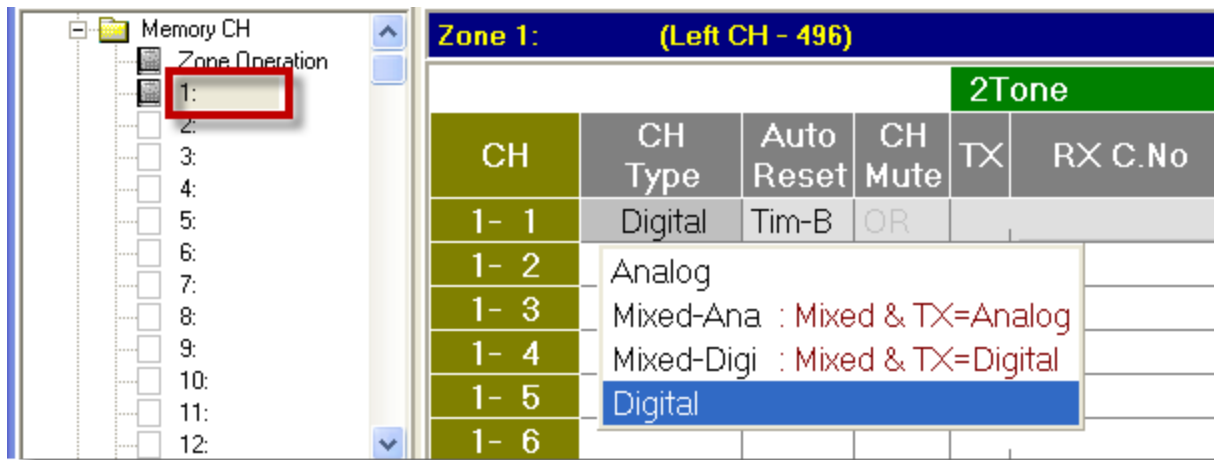
Programming Select Call

Go to **Zone Operation**, set **Zone Type** to **Conventional**.



Programming Select Call

In Memory Channel 1, set **CH Type** to **Digital**.



Memory CH

- Zone Operation
- 1: ☐
- 2: ☐
- 3: ☐
- 4: ☐
- 5: ☐
- 6: ☐
- 7: ☐
- 8: ☐
- 9: ☐
- 10: ☐
- 11: ☐
- 12: ☐

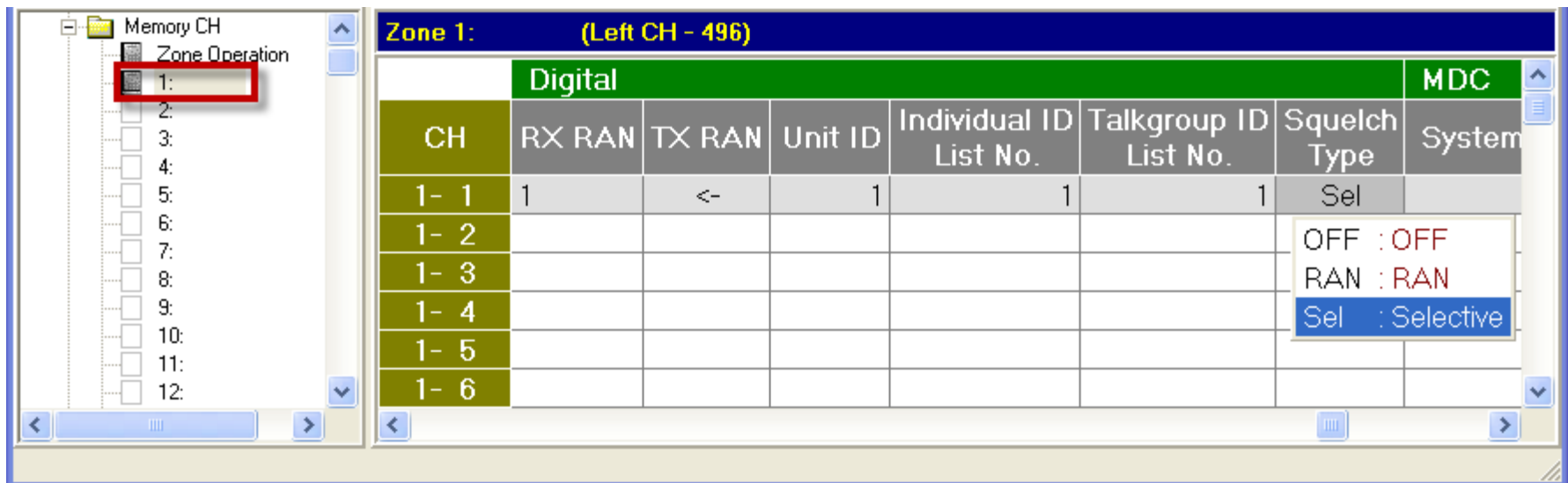
Zone 1: (Left CH - 496)

2Tone

CH	CH Type	Auto Reset	CH Mute	TX	RX C.No
1- 1	Digital	Tim-B	OR		
1- 2	Analog				
1- 3	Mixed-Ana : Mixed & TX=Analog				
1- 4	Mixed-Digi : Mixed & TX=Digital				
1- 5	Digital				
1- 6					

Programming Select Call

1. At **Unit ID**, enter your radio ID.
2. Set **Squelch Type** to **Sel** (Selective), if you want the squelch to open with the proper RAN *and* Talk Group or Individual ID.



Zone 1: (Left CH - 496)

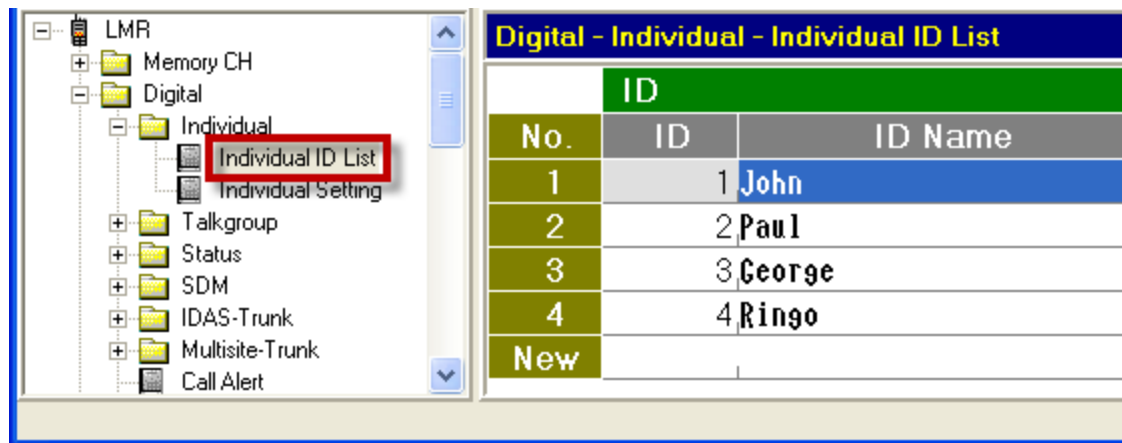
CH	RX RAN	TX RAN	Unit ID	Individual ID List No.	Talkgroup ID List No.	Squelch Type	MDC System
1- 1	1	<-	1	1	1	Sel	
1- 2							
1- 3							
1- 4							
1- 5							
1- 6							

Squelch Type dropdown menu options:

- OFF : OFF
- RAN : RAN
- Sel : Selective

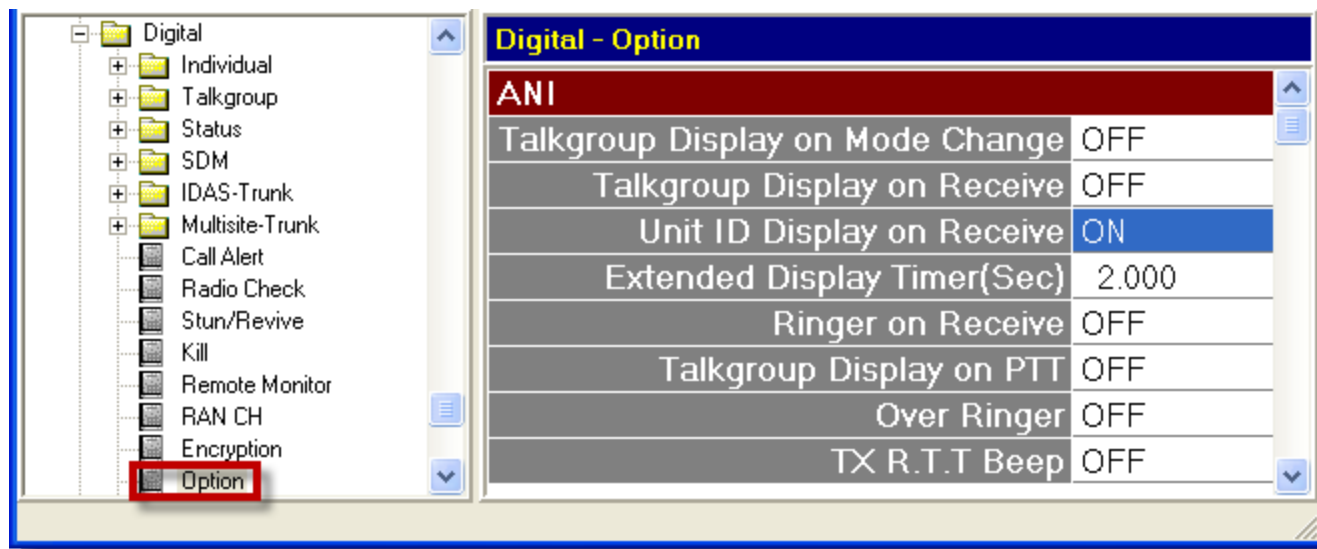
Programming Select Call

1. Go to **Digital -> Individual -> Individual ID List**.
2. Enter all Individual ID Names and numeric IDs of the other radios in the system you wish to contact. This alias list is used when selecting other radios for Selective Calling, Call Alerts, etc.



Programming Select Call

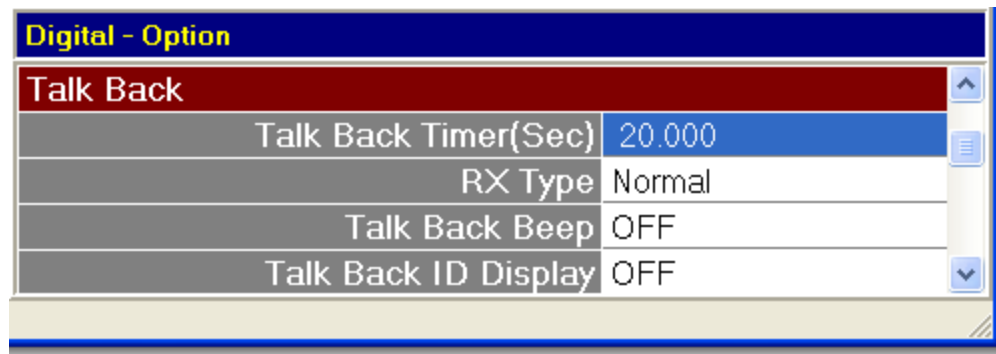
1. Go to **Digital -> Option -> ANI**.
2. Set **Unit ID Display on Receive** to **ON**.



Select Call: Talk Back Timer

Add time to the **Talk Back Timer**. The **Talk Back Timer** is for the following *receive* functions only:

- Radio response for Mixed CH Type (mixed analog or mixed digital only)
- Radio response for Individual or Talkgroup calls

A screenshot of a software interface titled "Digital - Option". It features a "Talk Back" section with four settings: "Talk Back Timer(Sec)" set to "20.000", "RX Type" set to "Normal", "Talk Back Beep" set to "OFF", and "Talk Back ID Display" set to "OFF". The interface includes a blue header bar, a red bar for the section title, and a list of settings with a scroll bar on the right.

Digital - Option	
Talk Back	
Talk Back Timer(Sec)	20.000
RX Type	Normal
Talk Back Beep	OFF
Talk Back ID Display	OFF

Select Call: Talk Back Timer

TX mode for radio programmed as Mixed Mode (**Memory CH -> CH Type** field).

- If the response is during the **Talk Back Timer** interval, the response transmission will match the call type. For example, a digital call will be responded to in digital.
- If the **Talk Back Timer** has elapsed, the response will match the setting in the **CH Type** field. For example, if the **CH Type** is set to **Mixed Ana**, the response will default to analog regardless of whether the call is digital or analog.

Zone 1: (Left CH - 496)

CH	CH Type	Auto Reset	CH Mute	TX
1- 1	Analog	Tim-B	OR	
1- 2	Analog			
1- 3	Mixed-Ana : Mixed & TX=Analog			
1- 4	Mixed-Digi : Mixed & TX=Digital			
	Digital			

2Tone

Digital - Option

Talk Back	
Talk Back Timer(Sec)	20.000
RX Type	Normal
Talk Back Beep	OFF
Talk Back ID Display	OFF

Select Call: Talk Back Timer

Radio response for Individual or Talkgroup.

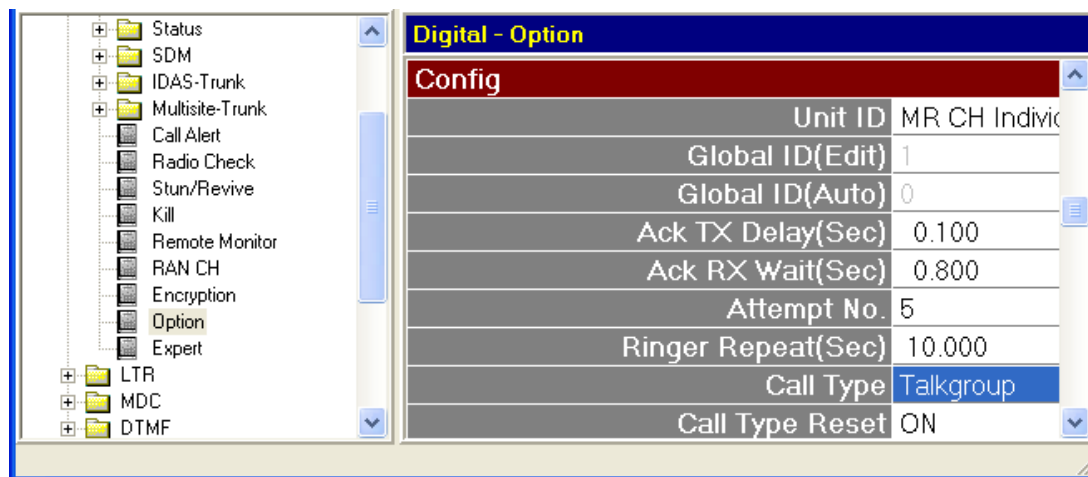
- If the response is during the **Talk Back Timer** interval, the response transmission will match the call; e.g. an individual call to this radio will be responded to as an Individual call.
- If the **Talk Back Timer** has elapsed, the response will default to the **Call Type** setting; e.g. if the Call Type is set to Talkgroup, the response will be a Talkgroup call.

Digital - Option	
Config	
Unit ID	MR CH Individual
Global ID(Edit)	1
Global ID(Auto)	0
Ack TX Delay(Sec)	0.100
Ack RX Wait(Sec)	0.800
Attempt No.	5
Ringer Repeat(Sec)	10.000
Call Type	Talkgroup

Digital - Option	
Talk Back	
Talk Back Timer(Sec)	20.000
RX Type	Normal
Talk Back Beep	OFF
Talk Back ID Display	OFF

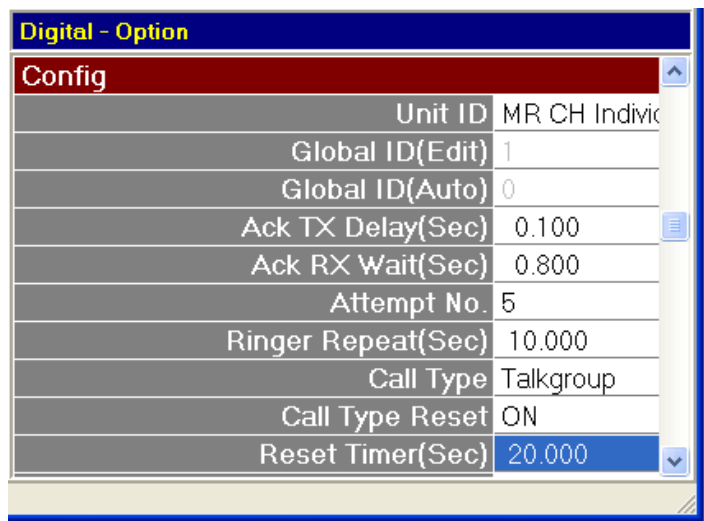
Programming Select Call

1. Set the **Call Type** to **Talkgroup**. All TX's will be in TalkGroup mode unless a select call is initiated.
2. Set the **Call Type Reset** to **ON**. This allows the radio to reset to the Call Type setting if an alternative type has been manually selected.



Programming Select Call

- Enter a time in **Reset Timer**.
- Sets how long the radio will stay in the *manually* selected Call Type of your transmission. After your call, the radio will revert to the **Call Type** programmed setting.
- The **Reset Timer** affects select calls started by the user only, not transmissions after received calls.
- If there is no time, or the timer elapses, the call will revert to the Call Type default.

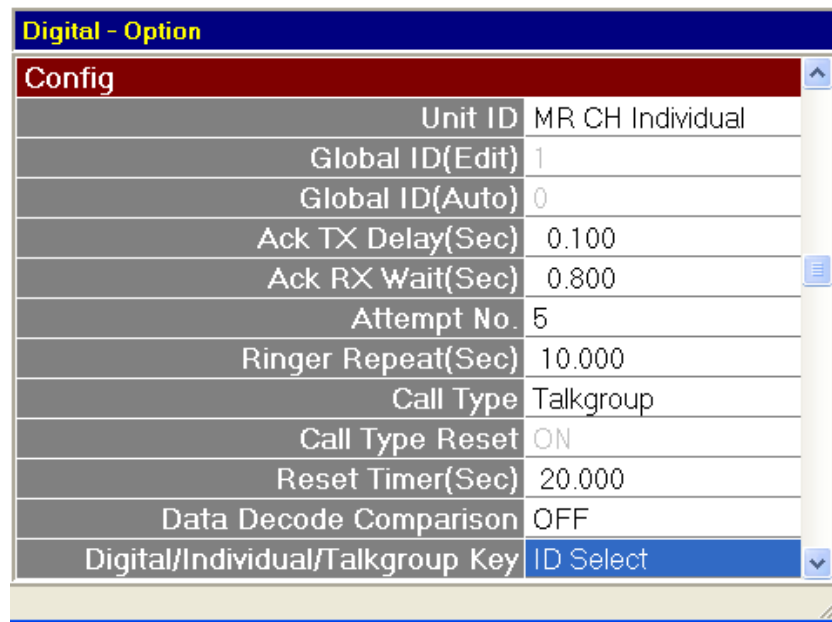


The screenshot shows a software interface for configuring digital options. The title bar is 'Digital - Option'. Below it is a 'Config' section with a list of settings. The 'Reset Timer(Sec)' setting is highlighted in blue and set to '20.000'.

Unit ID	MR CH	Indiv
Global ID(Edit)	1	
Global ID(Auto)	0	
Ack TX Delay(Sec)	0.100	
Ack RX Wait(Sec)	0.800	
Attempt No.	5	
Ringer Repeat(Sec)	10.000	
Call Type	Talkgroup	
Call Type Reset	ON	
Reset Timer(Sec)	20.000	

Programming Select Call

Set **Digital/Individual/Talkgroup Key** to **ID Select**. This puts the ID List on the Display when the Individual button is pressed.

A screenshot of a software interface titled "Digital - Option". It contains a "Config" section with a list of settings. The "Digital/Individual/Talkgroup Key" setting is highlighted in blue and set to "ID Select".

Digital - Option	
Config	
Unit ID	MR CH Individual
Global ID(Edit)	1
Global ID(Auto)	0
Ack TX Delay(Sec)	0.100
Ack RX Wait(Sec)	0.800
Attempt No.	5
Ringer Repeat(Sec)	10.000
Call Type	Talkgroup
Call Type Reset	ON
Reset Timer(Sec)	20.000
Data Decode Comparison	OFF
Digital/Individual/Talkgroup Key	ID Select

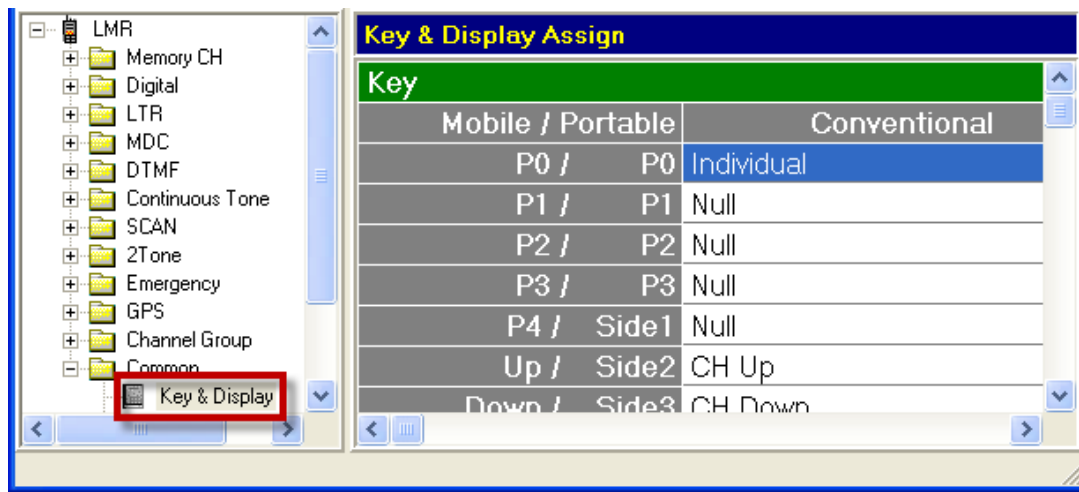
Programming Select Call

1. Go to **Digital -> Expert**.
2. Set TX All Call and RX All Call to **Enable**.



Programming Select Call

1. Go to **Common -> Key & Display** and assign **Individual** to one of the programmable keys.



2. Write the file into the radio.
3. The radio is now ready to do a Select Call.

Programming Select Call

To Make an Individual Select Call

1. Press the **Individual** key.
2. If the **Digital/Individual/Talkgroup Key** is set to **ID Select**, scroll to the desired radio ID by pressing the Up/Down keys, then press PTT.
3. If the **Digital/Individual/Talkgroup Key** is set to **Normal**, select **Individual** from the list of features using the up/down keys. Then select the Individual ID.
4. The Radio will return to the default Call Type when the Reset Timer expires.