

TAIT COMMUNICATIONS TRUNKED RADIO **PROGRAMMING GUIDE**

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- 10. ActionNet - 5000 Series and Tait Orca Series**
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Please visit

<http://support.taitworld.com/>

There is a software matrix that lists the latest versions of programming software and radio firmware that are available.

**PLEASE NOTE:
TAIT RECOMMEND THAT EACH TIME YOU READ A
RADIO OR LOAD A DATA FILE, ALL PARAMETERS
ARE CHECKED BEFORE THE RADIO IS
PROGRAMMED.**

1. New Parameter Changes

TeamTalk have recommended the Fleetlink Network parameters be modified to improve the radios the performance under certain conditions.

The following Parameters have now changed for both Fleetlink Mobile and Handportables.

The new settings that have changed are

Continuous

NC 1 = 40

NC 2 = 30

NX 1 = 8

NX 2 = 8

Time-Shared Settings

NC1 = 40

NC2 = 30

NX1 = 8

NX2 = 8

On the portable radios NZ2 needs to set 6.

2. TeamTalk Fleetlink TM8255 Mobiles

NETWORK SETTINGS - TRUNKED CHANNEL BLOCKS

Database Version: 0016 Last action: Opened file 'TM8200 - Fleetlink Master File Map27.m82p'

Start	Stop	Start Rx Freq	Rx Sig	Rx Spacing	Start Tx Freq	Tx Sig	Tx Spacing	Tx Power	Bandwidth
1	480	414.012500	None	12.500	406.012500	None	12.500	High	12.5

Buttons: Add, Insert, Repeat, Delete

Signal Quality options:

- Noise Blanking
- Automatic Noise Reduction
- Pre-emphasis
- Companding

NETWORK SETTINGS - NETWORK IDENTITY

Database Version: 0016 Last action: Opened file 'TM8200 - Fleetlink Master File Map27.m82p'

Network Label: Fleetlink

Signalling Type: National

Network Identity Code
0

Buttons: Add, Delete

Network Options:

- SYNC Sequence: C4D7
- Area Field Length: 7
- Zone Field Length: 3
- SIL Field Length: 0
- Pressel On Messages: 1
- Pressel Off Messages: 1
- Multiple Registration:
- Value of Info in RQR: 0

NETWORK SETTINGS NETWORK PARAMETERS

The screenshot shows the 'Network Params' window in the TM8200 Programming Application. The interface includes a menu bar (File, Edit, Radio, Features, Tools, Help), a toolbar with icons for Radio, Read, Interrogate, and Program, and a 'Radio Model' dropdown set to 'TM8200'. On the left is a tree view of settings categories: Network Settings, Fleet Settings, Radio Unit, Radio Calls, and Customise Radio. The main area is divided into four sections:

- Control Channel Acquisition/Retention:** Contains two columns: 'Continuous' and 'Time-shared'. Parameters include NZ1 (1), NC1 (40), TZ (40), NZ2 (2), NC2 (30), TN (10), TS (5), NV (1), TT (60), NX1 (8), NX2 (8), and TD (60).
- Timing Parameters:** Contains parameters TJ (60), TA (60), TN (10), TB (2), TT (60), TC (60), TP (5), and TW (60).
- Background Hunt Parameters:** Contains parameters TL (min) (2), TL (sec) (0), TH (2), LM1 (6), NS (2), LM2 (6), LM3 (6), and LM4 (3).
- Signalling Parameters:** Contains parameters NT (103), ND2 (5), NW (4), NE (16), ND1 (3), and NR (8).

At the bottom, the status bar shows 'Database Version: 0016', 'Min: 1', 'Max: 14', and 'Last action: Opened file 'TM8200 - Fleetlink Master File1.m82p''.

NETWORK SETTINGS - HUNTING PARAMETERS

The screenshot shows the 'Hunting Params' window in the TM8200 Programming Application. The interface is similar to the previous screenshot, with the 'Radio Model' set to 'TM8200'. The left tree view highlights 'Hunting Params'. The main area is divided into three sections:

- Normal Hunt Channels:** A table listing channels and their types. The table is as follows:

Channel	Type
121	Continuous
123	Continuous
124	Continuous
125	Continuous
127	Continuous
129	Continuous
133	Continuous
134	Continuous
135	Continuous
140	Continuous
201	Continuous
203	Continuous
204	Continuous
205	Continuous
207	Continuous
- Non Applicable Channels:** An empty table with 'From' and 'To' columns, and 'Add' and 'Delete' buttons below it.
- Parameters:** Contains several checkboxes and dropdowns:
 - Background Hunt:
 - Hunt Upon Expiry of NE or NR: Preferential (dropdown)
 - Comprehensive Hunt:
 - Site Select and Resuming Hunt:
 - Nokia TS Channel Support:
 - Auto Register at Power On:
 - Act On Vote Now Advice BCASTs: Don't use NDD (dropdown)
 - Vote Now Advice Margin: 6 (text box)
 - Vote Now Samples: 2 (text box)
 - Control Category: A (dropdown)
 - Control Channel Display:

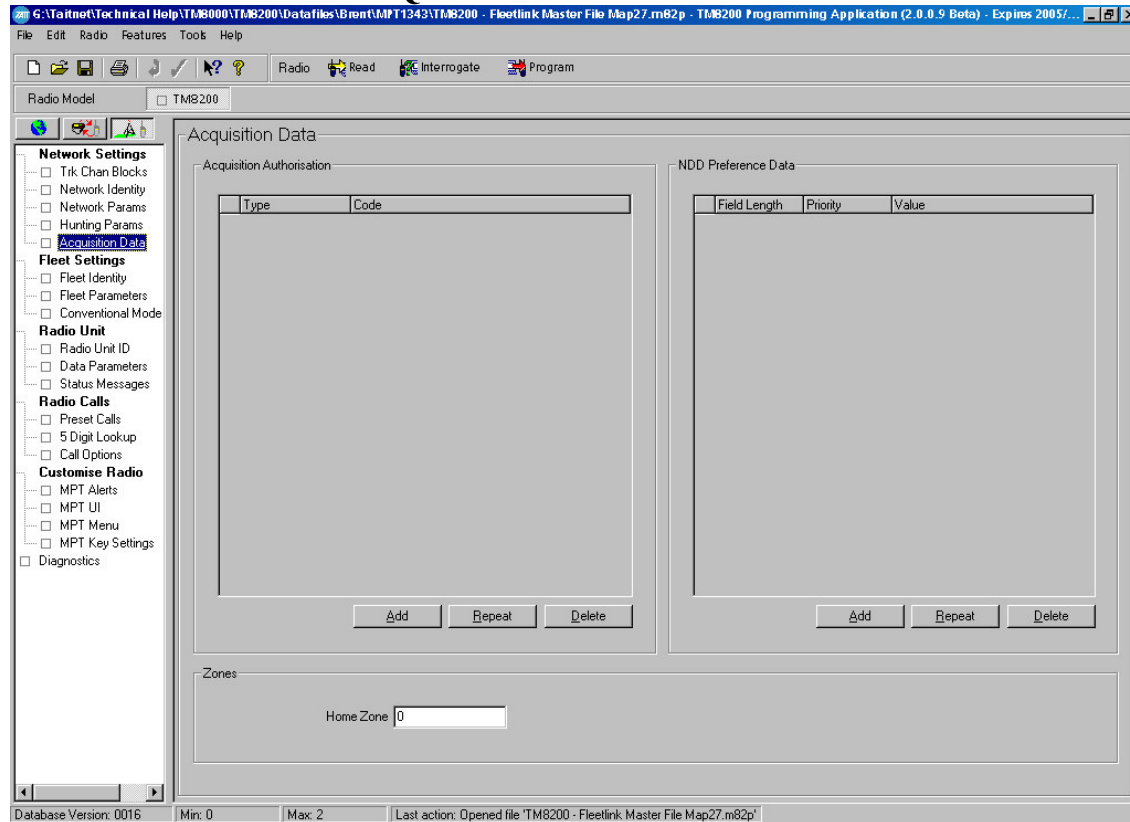
At the bottom, the status bar shows 'Database Version: 0016', 'Min: 1', 'Max: 1023', and 'Last action: Saved to file 'TM8200 - Fleetlink Master File.m82p''.

Normal Hunt Channel List:

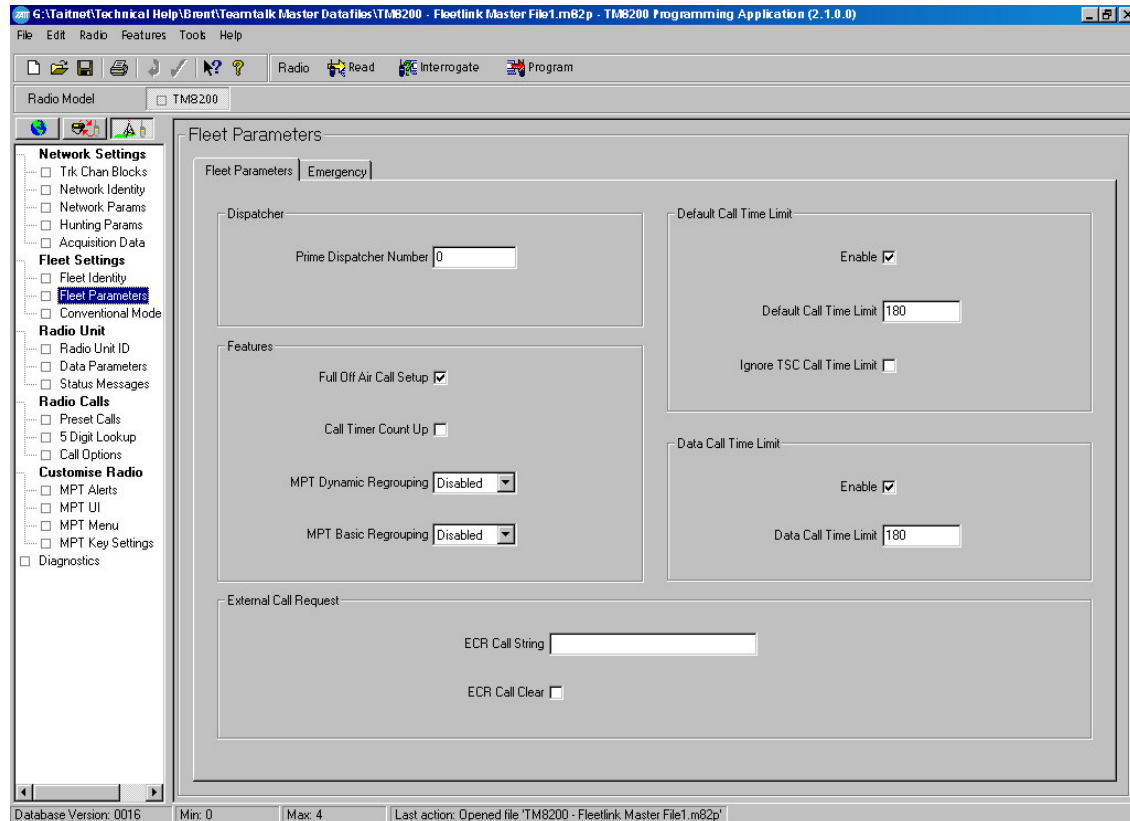
121, 123, 124, 125, 127, 129, 133, 134, 135, 140, 201, 203, 204, 205, 207, 209, 213, 214, 215, 220, 301, 303, 304, 305, 307, 309, 310, 311, 312, 313, 314, 315

TeamTalk Fleetlink TM8255 Mobiles

NETWORK SETTINGS - ACQUISITION DATA

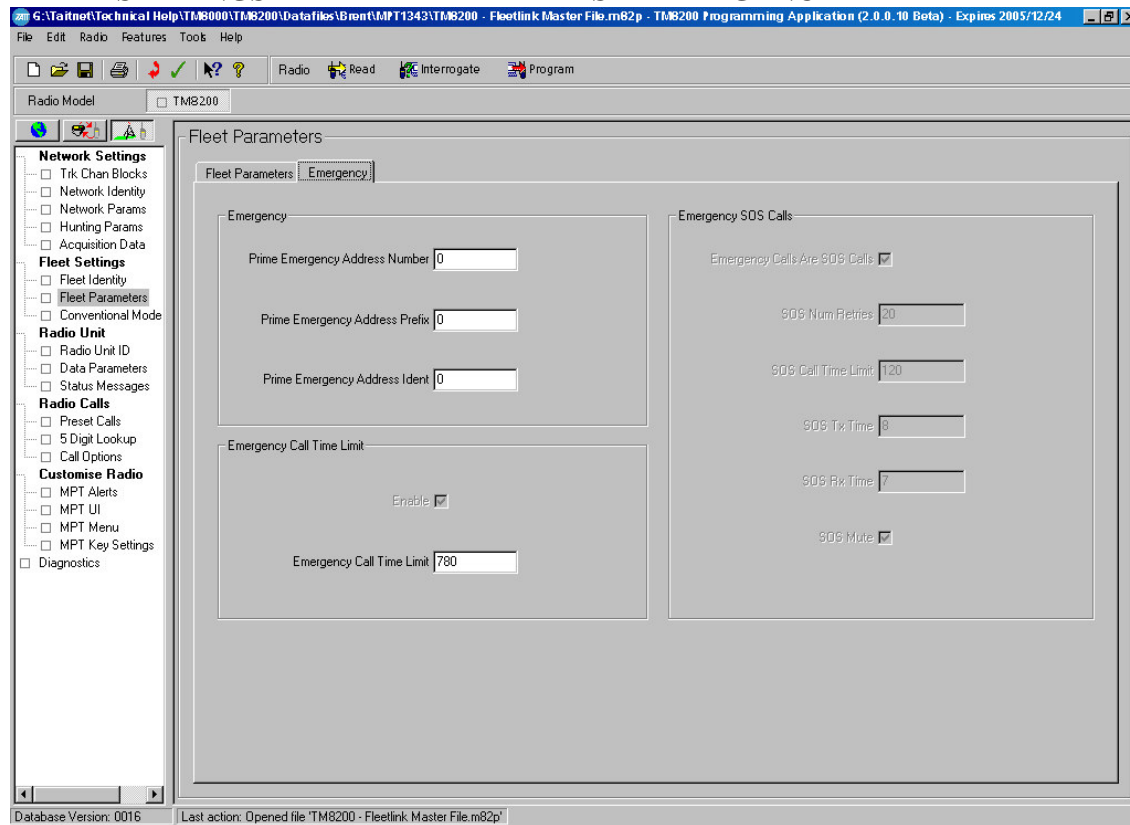


FLEET SETTINGS - FLEET PARAMETERS – FLEET PARAMETERS



TeamTalk Fleetlink TM8255 Mobiles

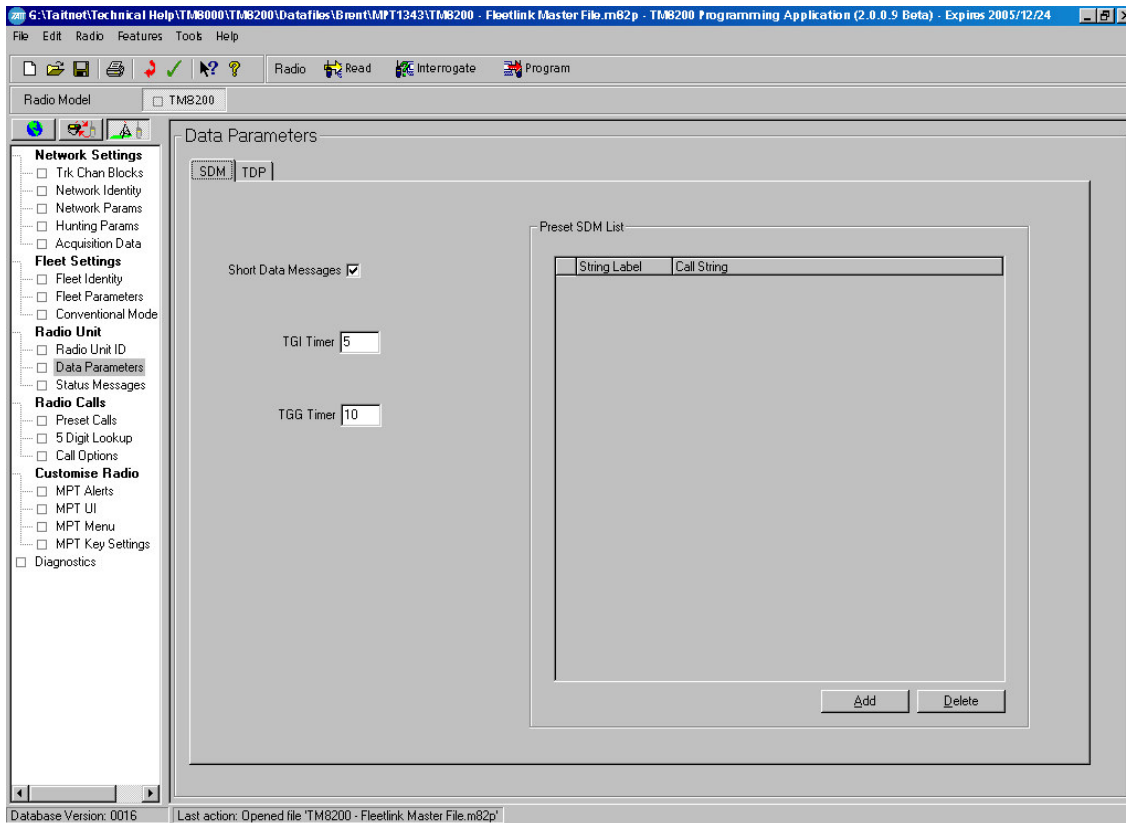
FLEET SETTINGS - FLEET PARAMETERS – EMERGENCY



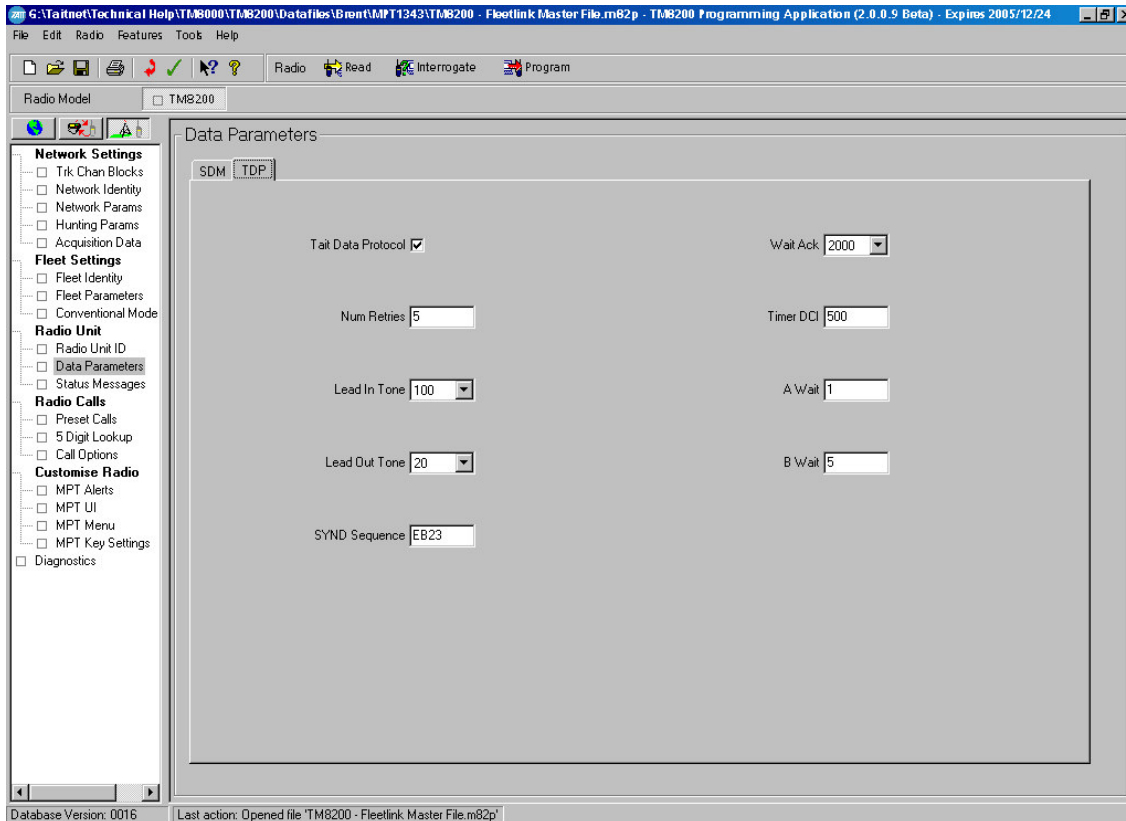
TeamTalk Fleetlink TM8255 Mobiles

RADIO UNIT - DATA PARAMETERS SDM

TeamTalk Programming Guide 27/07/05 V6.00



RADIO UNIT - DATA PARAMETERS TDP



3. TeamTalk Fleetlink - T2000 Mobiles

The following are settings for the TeamTalk Fleetlink network.

Noise Blanker: This should be **Disabled** in all radios

All UHF T2000 trunk radios operating on the TaitNet system should have the noise blanker disabled. Radios that have had the noise blanker disabled can be identified by checking the radio type number. T20xx-523-Cxx = noise blanker disabled. Refer to TN-609, which describes how to perform this modification. (Remove R133)

Radio Unit Power - Power Saving: This should be set to **15 minutes or longer**.

There are certain versions of firmware in radios where the economiser cannot be disabled. The programming software will automatically set this to 10 seconds, and this will cause calls to be dropped when they should not be cleared down.

To stop this from occurring the power saving should be enabled and set to 15 minutes or longer.

Network Setting - Network Identity - Multiple Registration: This should be set to **Disabled**

Whenever a radio is read or a datafile is loaded, this setting is always set to enable by the programming software, when it should be disabled.

Whenever a radio is read or a datafile is loaded, this should be checked before the radio is programmed.

Radio Calls - Call Options - Call Queuing: This should be set to **Unanswered**.

The only exception is for radios that are connected to a data despatch package. Call queuing needs to be disabled; otherwise there will be problems with 'Not Homes' occurring when the status queue is full.

Customise Radio - Interface Options - Reset on Error: This should always be set to **Enabled**.

This field needs to be checked every time a radio is programmed that it is enabled.

To access this field in the T203X DOS programming software **TECHNICIAN** needs to be entered instead of **K1W1** when the programming software is started. This option is in the Unit-Diagnostics page.

Fleet Settings - Fleet Identity:	Dialling Scheme	MPT1343
Fleet Settings - Fleet Parameters:	Full Off Air Call Set up	Allowed
	Call Counter Time up	Disabled
	Default Call Time Limit	Enabled
	Default Call Time	180 Seconds
	Emergency Call Time Limit	Enabled
	Emergency Call Time	780 Seconds
	Data Call Time Limit	Enabled
	Data Call Time	180 Seconds
	Ignore TSC Call Time limit	Disabled
Radio Unit - Radio Unit ID:	Control Category	A
Radio Calls - Call Options:	Data Calls	Enabled
Customise Radio - Interface Options:	Auto Register on Power on	Enabled
	Single Press PTT call	Enabled
	Tone on Emergency Calls	Disabled
	Tone on Speech Calls	Enabled
	Tone on Data Calls	Disabled
	Tone on Group Calls	Disabled
	Tone on Individual Calls	Disabled
	Tone on Include Calls	Disabled
	Tone on Status Calls	Disabled
	Reset After Error	Enabled

TeamTalk Fleetlink T2000 Mobiles

The table below indicates what radio firmware version supports the features listed.

If the radio firmware version is greater than in the table then it supports that feature.
 E.G. For the T2040 if the firmware is above V5.20 then it supports the vote now feature.

Background Hunt	T2030 ≥ V3.XX	T2035 ≥ V3.XX	T2040 ≥ V5.XX
Vote Now	T2030 ≥ V3.10	T2035 ≥ V3.10	T2040 ≥ V5.20
NDD preference	T2030 ≥ V3.XX	T2035 ≥ V3.XX	T2040 ≥ V4.XX
Join Busy Group	Not Available	T2035 ≥ V3.53	T2040 ≥ V5.65
Auto Register on Power on	T2030 ≥ V3.30	T2035 ≥ V3.51	T2040 ≥ V5.63
Single Press PTT	T2030 ≥ V3.29	T2035 ≥ V3.51	T2040 ≥ V5.63

NETWORK SETTING - TRUNKED CHANNEL BLOCKS

Database Version: 0507 | Last action: Opened file 'T2040 Tait Comms Brent.t2t'

NETWORK SETTING - NETWORK IDENTITY

Database Version: 0507 | Last action: Opened file 'T2040 Tait Comms Brent.t2t'

NETWORK SETTING - NETWORK PARAMETERS

G:\Taitnet\Technical Help\Brent\Teamtalk Master Datafiles\T2040 - Fleetlink Master File.t21 - T2000 Trunked Programming Application (2.50.00)

File Edit Radio Network Tools Help

Radio Model T2030 T2035 T2040

Network: 1

Specifications

- Network Settings
 - Trix Chan Blocks
 - Network Identity
 - Network Params
 - Hunting Params
 - ANN Interfleet
- Fleet Settings
 - Fleet Identity
 - Fleet Parameters
 - Conv Channels
- Radio Unit
 - Radio Unit ID
 - Acquisition Data
 - CCI Setup
 - Data Parameters
 - Status Messages
 - Power Saving
- Radio Calls
 - Preset Calls
 - 5 Digit Lookup
 - External Calls
 - Call Options
- Customise Radio
 - External Alert
 - Key Settings
 - Interface Options

Network Params

Control Channel Acquisition/Retention

	Continuous	Time-shared
NZ1	1	
NC1	40	40
NZ2	2	
NC2	30	30
TS	5	
NV	1	1
NX1	8	8
NX2	8	8

Signalling Parameters

NT	103	TJ	60
NW	4	TN	10
ND1	3	TT	60
ND2	5	TA	60
NE	16	TB	2
NR	8	TP	5
NI	4	TW	60
TC	60	TI	2
TD	60		

Background Hunt Parameters

TL (min)	2	TL (sec)	0
TH	2	LM1	6
NS	2	LM2	6
		LM3	3

Database Version: 0507 | Min: 0 | Max: 255 | Last action: Opened file 'T2040- Fleetlink Master File.t21'

NETWORK SETTINGS - HUNTING PARAMETERS

Specifications

- Network Settings
 - Trik Chan Blocks
 - Network Identity
 - Network Params
 - Hunting Params
 - ANN Interfleet
- Fleet Settings
 - Fleet Identity
 - Fleet Parameters
 - Conv Channels
- Radio Unit
 - Radio Unit ID
 - Acquisition Data
 - CCI Setup
 - Data Parameters
 - Status Messages
 - Power Saving
- Radio Calls
 - Preset Calls
 - 5 Digit Lookup
 - External Calls
 - Call Options
- Customise Radio
 - External Alert
 - Key Settings
 - Interface Options

Hunting Params

Normal Hunt Channels

Channel	Type
121	Continuous
123	Continuous
124	Continuous
125	Continuous
127	Continuous
129	Continuous
133	Continuous
134	Continuous
135	Continuous
140	Continuous
201	Continuous
203	Continuous

Non Applicable Channels

From	To
------	----

Parameters

Nokia TS Channel Support

Background Hunt

Comprehensive Hunt

Act On Vote Now Advice BCASTs

Vote Now Advice Margin

Site Select And Resuming Hunt

Database Version: 0607 | Last action: Opened file 'T2040 Tail Comms Brent.t2t'

Normal Hunt Channel List:

121, 123, 124, 125, 127, 129, 133, 134, 135, 140, 201, 203, 204, 205, 207, 209, 213, 214, 215, 220, 301, 303, 304, 305, 307, 309, 310, 311, 312, 313, 314, 315

FLEET SETTINGS - FLEET PARAMETERS

Specifications

- Network Settings
 - Trik Chan Blocks
 - Network Identity
 - Network Params
 - Hunting Params
 - ANN Interfleet
- Fleet Settings
 - Fleet Identity
 - Fleet Parameters
 - Conv Channels
- Radio Unit
 - Radio Unit ID
 - Acquisition Data
 - CCI Setup
 - Data Parameters
 - Status Messages
 - Power Saving
- Radio Calls
 - Preset Calls
 - 5 Digit Lookup
 - External Calls
 - Call Options
- Customise Radio
 - External Alert
 - Key Settings
 - Interface Options

Fleet Parameters

Dispatcher

Prime Dispatcher Number

Enable

Time

Emergency

Prime Emergency Number

Prime Emergency Address Prefix

Prime Emergency Address Ident

Emergency Call Time Limit

Enable

Time

Features

Full Off Air Call Setup

Call Timer Count Up

Data Call Time Limit

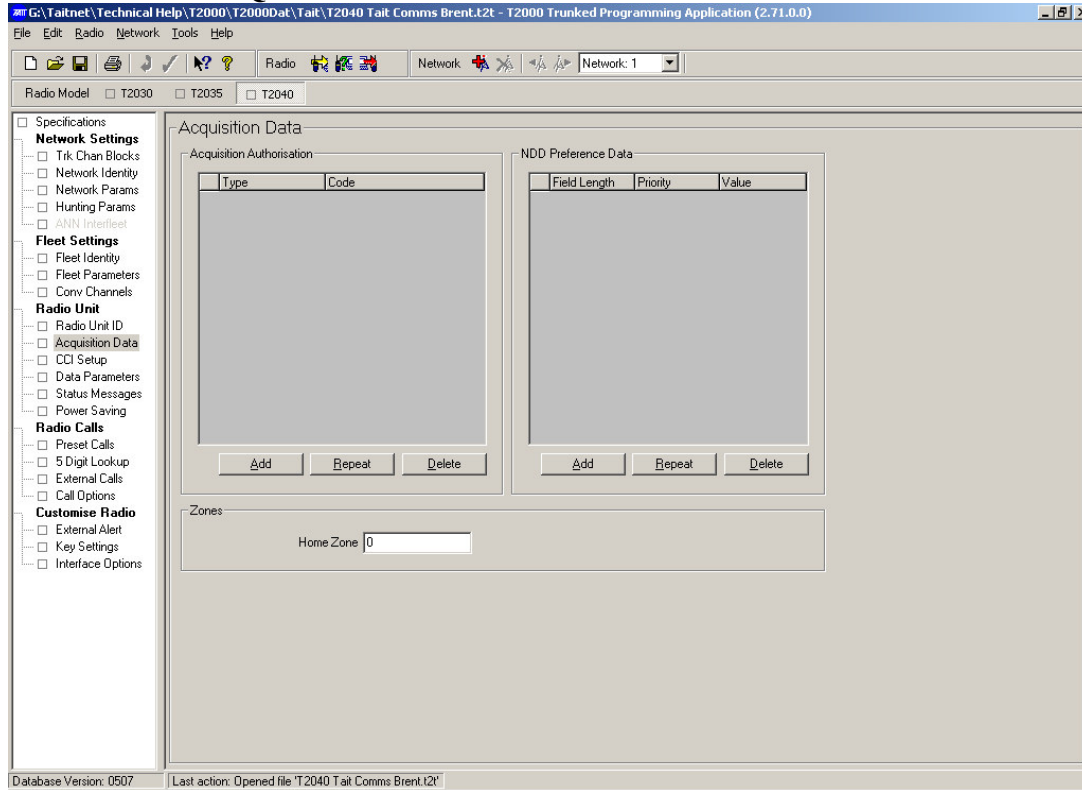
Enable

Time

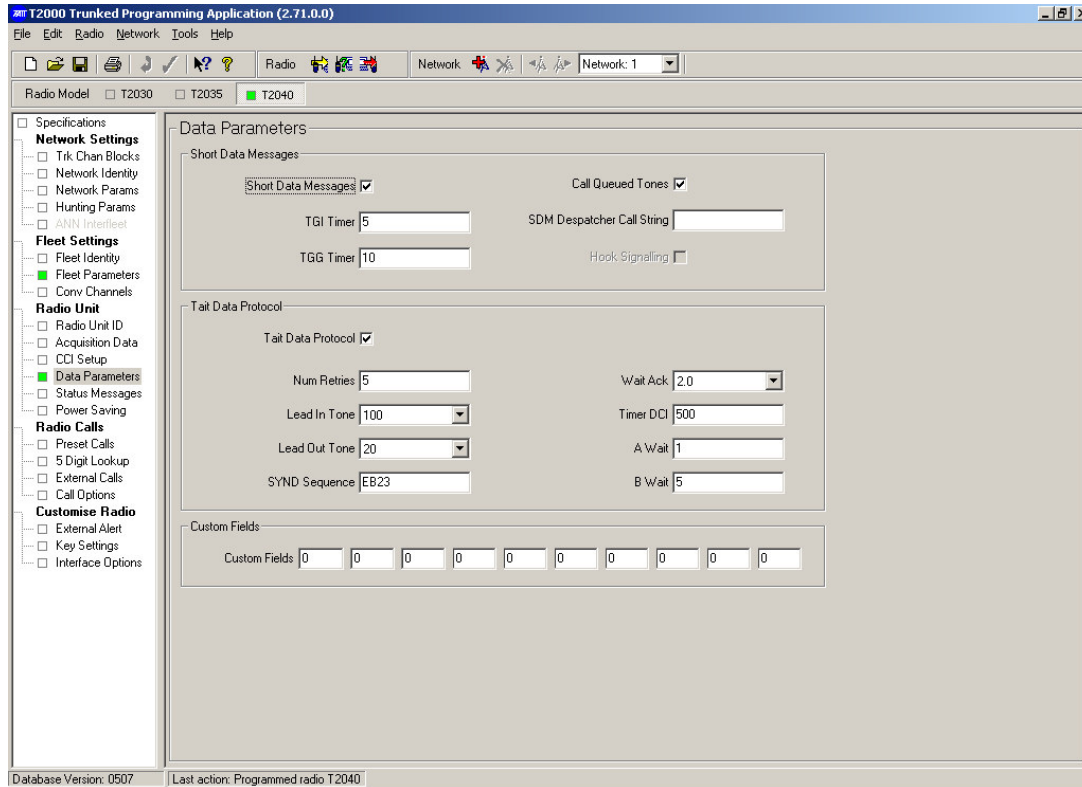
Ignore TSC Call Time Limit

Database Version: 0607 | Last action: Opened file 'T2040 Tail Comms Brent.t2t'

RADIO UNIT – AQUISION DATA



RADIO UNIT – DATA PARAMETERS



4. TeamTalk Fleetlink - T3000 Handportables

Unit Identity Page:	Control Category	A
	Call Queuing	Unanswered
Own Fleet Identity:	Dialling Scheme	MPT1343
Own Fleet Parameters:	Full Off Air Call Set up	Allowed
	Default Call time limit	180 Secs
	Emergency Call time limit	780 Secs
	Call timer Count up	Disabled
	Ignore TSC Call Time limit	Disabled

The table below indicates what radio firmware version supports the features listed.
 If the radio firmware version is greater than in the table then it supports that feature.
 E.G. For the T3040 if the firmware is above V2.21 then it supports the vote now feature.

Background Hunt	T3030 ≥ V2.XX	T3035 ≥ V2.XX	T3040 ≥ V2.XX
Vote Now	T3030 ≥ V2.11	T3035 ≥ V2.12	T3040 ≥ V2.21
NDD preference	T3030 ≥ V2.XX	T3035 ≥ V2.XX	T3040 ≥ V2.XX

NETWORK TRUNKED CHANNEL BLOCKS

Network - Trunked Channel Blocks

Print

F2 to Insert a Row : F3 to delete a Row

(maximum of 30 blocks)

CHANNEL		RECEIVER		TRANSMITTER	
Start	Stop	Spacing	Frequency	Frequency	Power
		KHz	MHz	MHz	
1	480	12.50	414.01250	406.01250	High

NETWORK HUNT PARAMETERS

Network - Hunt Parameters

Print

Nokia TS Channel Support: Disabled

Background Hunt: Enabled

Hunt Upon Expiry of NE or NR: Preferential

Comprehensive Hunt: Enabled

Act On Vote Now: Enabled

Vote Now Advice Margin: 6 dB

Normal Hunt Channels (Maximum of 32 channels)	
Channel	Type
121	Continuous
123	Continuous
124	Continuous
125	Continuous
127	Continuous
129	Continuous
133	Continuous
134	

Non Applicable Channels (Maximum of 10 blocks)	
From	To
!	!

Normal Hunt Channel List: 121, 123, 124, 125, 127, 129, 133, 134, 135, 140, 201, 203, 204, 205, 207, 209, 213, 214, 215, 220, 301, 303, 304, 305, 307, 309, 310, 311, 312, 313, 314, 315

Vote now advice Margin 6 dB

T3000 Trunked radios with following version of firmware have a known problem where they vote incorrectly if set to 6 dB. Please ensure these radios have the vote now margin set to 5 dB for this parameter.

T3035 radios with V2.12 firmware should be set to 5 dB

T3040 radios with V2.21 firmware should be set to 5 dB

UNIT AQUISITION DATA

Unit - Acquisition Data▲

Print

Acquisition Authorisation
(maximum of 8 definitions)

Type	Code
!	!
▼	

NDD Preference Data
(maximum of 4 definitions)

Field Length	Priority	Value
!	!	!

Home Zone0

NETWORK IDENTITY

Network - Identity
▲

Print

Network Type	National
Network Identity Code	0
SYNC Sequence	C4D7
Area Field Length (LA)	7
Zone Field Length (LZ)	3
SIL Field Length (LSIL)	0
Number of Pressel On Messages (NPON)	
	1
Number of Pressel Off Messages (NPOFF)	
	1
Pre-Emphasis	Other
Transmit Slot Timing	
	MPT

NETWORK PARAMETERS

Network - Parameters
▲

Print

(1) Control Channel Aquisition/Retention

	Continuous	Time-shared		
NC1	40	40	NZ1	1
NC2	30	30	NZ2	2
NU	1	1	TS	5
NX1	8	8		seconds
NX2	8	8		

(2) Signalling Parameters

NW	4	TC	60	seconds	TA	60	seconds
ND1	3	TD	60	minutes	TB	2	seconds
ND2	5	TJ	60	seconds	TP	5	seconds
NE	16	TN	10	seconds	TW	60	seconds
NR	8	TT	60	seconds			

Background Search Sequence Parameters

TL	120	seconds	LM1	6	dB
TH	12	Slots	LM2	6	dB
NS	2		LM3	6	dB

5. TeamTalk Fleetlink - 5000 Series and Tait Orca Series

Dynamic Power: This feature should be **Disabled**.

Dynamic Power needs to be removed from the user menu, function key menu, and also the dynamic power, initial setting needs to be disabled as this can reduce the overall performance of the radio by reducing the radio coverage.

Low Power: This feature should be **Disabled**.

Low Power needs to be removed from the user menu, function key menu, and also the low power initial setting needs to be disabled as this can reduce the overall performance of the radio by reducing the radio coverage.

Fleet Settings - Fleet Identity:	Dialling Scheme	MPT1343
Fleet Settings - Fleet Parameters:	Full Call Off Air Setup	Enabled
	Default Call time limit	180 Secs
	Default Emergency Call time limit	780 Secs
	Call Timer Count up	Disabled
	Ignore TSC Call timer limit	Disabled
Radio Unit Settings - Call Options: Call Queuing		Unanswered
	Unanswered Call Timer	10 Seconds
	Join Busy Group	Enabled
Radio Unit Settings - User Defined Menu:	User Setting Dynamic Power Option	Disabled
	User Setting Low power Option	Disabled
Radio Unit Settings - User Selectable:	Initial Dynamic Power Setting	Disabled
	Initial Low power Transmit Setting	Disabled
	Auto Noise Reduction	Enabled
	Register On Power Up	Enabled

The table below indicates what radio firmware version supports the features listed.
If the radio firmware version is greater than in the table then it supports that feature.
E.G. For the Excel if the firmware is above V3.XX then it supports the vote now feature.

Background Hunt	Elan ≥ V2.00	Excel ≥ V3.XX	50XX ≥ V4.XX
Vote Now	Elan ≥ V2.00	Excel ≥ V3.XX	50XX ≥ V4.XX
NDD preference	Elan ≥ V2.00	Excel ≥ V3.XX	50XX ≥ V4.XX

NETWORK SETTINGS - TRUNKED CHANNEL BLOCKS

TOP Trunked Programming Application - Factory Mode - v4.02.00

File Radio Networks Tools Internet Help

Open Save Print Read Program Password Add Net Delete Net Prev Net Next Net

Specifications

- Network Settings
 - Trk Chan Blocks
 - Network Identity
 - Network Params
 - Hunting Params
- Fleet Settings
 - Fleet Identity
 - Fleet Parameters
 - Conv Channels
 - DTMF Parameters
- Radio Unit Settings
 - Radio Unit ID
 - Selective Scan
 - Acquisition Data
 - Preset Calls
 - 5 Digit Lookup
 - Call Options
 - SOS Options
 - Status Labels
 - User Defined Menu
 - Key Settings
 - User Selectable
 - Short Data Messages

Trunked Channel Blocks

General		Sub-Audible				
Channel Start	Channel Stop	Channel Spacing [kHz]	Start Rx Frequency [MHz]	Start Tx Frequency [MHz]	Tx Deviation	Power Level
1	480	12.50	414.01250	406.01250	Narrow	High

Add Delete Override Overlap Validations

OK Cancel Print Help Network 1 : FLEETLNK

Status: Model: 5040 DBVersion: 0207

NETWORK SETTINGS - NETWORK IDENTITY

TOP Trunked Programming Application - Factory Mode - v4.02.00

File Radio Networks Tools Internet Help

Open Save Print Read Program Password Add Net Delete Net Prev Net Next Net

Specifications

- Network Settings
 - Trk Chan Blocks
 - Network Identity
 - Network Params
 - Hunting Params
- Fleet Settings
 - Fleet Identity
 - Fleet Parameters
 - Conv Channels
 - DTMF Parameters
- Radio Unit Settings
 - Radio Unit ID
 - Selective Scan
 - Acquisition Data
 - Preset Calls
 - 5 Digit Lookup
 - Call Options
 - SOS Options
 - Status Labels
 - User Defined Menu
 - Key Settings
 - User Selectable
 - Short Data Messages

Network Identity

Network

Network Type: National

Network Identity Code: 0

Add Delete

Network Options

SYNC Sequence: C4D7

Area Field Length (LA): 7

Zone Field Length (LZ): 3

SIL Field Length (LSIL): 0

Number of Pressel On Messages (NPON): 1

Number of Pressel Off Messages (NPOFF): 1

Pre-Emphasis: Other

Multiple Registration: Disabled

Value of INFO in RQR: 0

OK Cancel Print Help Network 1 : FLEETLNK

Status: Model: 5040 DBVersion: 0207

NETWORK SETTINGS - NETWORK PARAMETERS

Network Parameters

Control Channel Acquisition/Retention

	Continuous	Time-Shared
NZ1	40	40
NZ2	30	30
TS	1	1
L1	8	8
NC1	40	40
NC2	30	30
NV	1	1
NX1	8	8
NX2	8	8

Background Search Parameters

TL	120 sec	6 dB
TH	2 slots	6 dB
NS	2	3 dB
LM1	6 dB	
LM2	6 dB	
LM3	3 dB	
LM4	3 dB	

Signalling Parameters

Nw	4
ND1	3
ND2	5
NE	16
NR	8
TC	60 sec
TD	60 min
TJ	60 sec
TN	10 sec
TT	60 sec
TA	60 sec
TB	2 sec
TP	5 sec
TW	60 sec
ST	42

Network 1: FLEETLNK

NETWORK SETTINGS - HUNTING PARAMETERS

Hunting Parameters

Nokia TS Channel Support

Background Search

Hunt Upon Expiry of NE or NR

Comprehensive hunt

Act On Vote Now

Vote Now Advice Margin dB

Control Category

Site Select

Normal Hunt Channels

Channel	Type
121	Continuous
123	Continuous
124	Continuous
125	Continuous
127	Continuous
129	Continuous
133	Continuous

Non Applicable Channels

From	To

Status: Model: 5040 DBVersion: 0207

Hunt Channel List: 121, 123, 124, 125, 127, 129, 133, 134, 135, 140, 201, 203, 204, 205, 207, 209, 213, 214, 215, 220, 301, 303, 304, 305, 307, 309, 310, 311, 312, 313, 314, 315

RADIO UNIT - ACQUISITION DATA

TOP Trunked Programming Application - Factory Mode - v4.02.00

File Radio Networks Tools Internet Help

Open Save Print Read Program Password Add Net Delete Net Prev Net Next Net

Specifications
Network Settings
Trk Chan Blocks
Network Identity
Network Params
Hunting Params
Fleet Settings
Fleet Identity
Fleet Parameters
Conv Channels
DTMF Parameters
Radio Unit Settings
Radio Unit ID
Selective Scan
Acquisition Data
Preset Calls
5 Digit Lookup
Call Options
SDS Options
Status Labels
User Defined Menu
Key Settings
User Selectable
Short Data Messages

Acquisition Data

Acquisition Authorisation

Type	Code
------	------

NDD Preference Data

Field Length	Priority	Value
--------------	----------	-------

Home Zone:

OK Cancel Print Help Network 1: FLEETLNK

Status: Model: 5040 DBVersion: 0207

6. Summary of TeamTalk Fleetlink Parameters

TeamTalk Fleetlink Network Parameters 21 May 2001 For Tait Radios						
Variable Name		Mobile	Portable			
NC1	CONTIN	40	40		Lowest Chan	1
NC2	CONTIN	30	30		Highest Chan	480
NX1	CONTIN	8	8			
NX2	CONTIN	8	8			
NZ1		1	1	Comprehensive hunt		On
NZ2		2	6	Background Hunt		On
ND1		3	3			
ND2		5	5	Network type		National
NE		16	16	Network ID		0
NI		4	4	Dialling Scheme		MPT1343
NR		8	8	Control category		A
NT		103	103	Full off air call set up		Yes
NW		4	4	Default call time limit		180 sec
TA		60	60	Emg call time limit		780 sec
TB		2	2	Data call time limit		180 sec
TC		60	60	Call timer count up		No
TD		60	60	Ignore TSC call time limit		No
TI		2	2	Nokia TS support		No
TJ		60	60	Act on vote now		Yes
TN		10	10			
TP		5	5	Freq Range start channel	1	
TS		5	5	Freq Range stop channel	480	
TT		60	60			
TW		60	60			
TL		2 m	120 secs	RX	414.01250	
TH		2	2	TX	406.01250	
NS		2	2			
NV		1	1			
LM1		6	6			
LM2		6	6			
LM3		3	3			
NPON		1	1			
NPOFF		1	1			
LA		7	7			
LZ		3	3			
LSIL		0	0			
VOTE NOW LEVEL		6	6			
HOME ZONE		0	0			
N VOTE		1	1			
T VOTE		10	10			
LM VOTE		6	6			

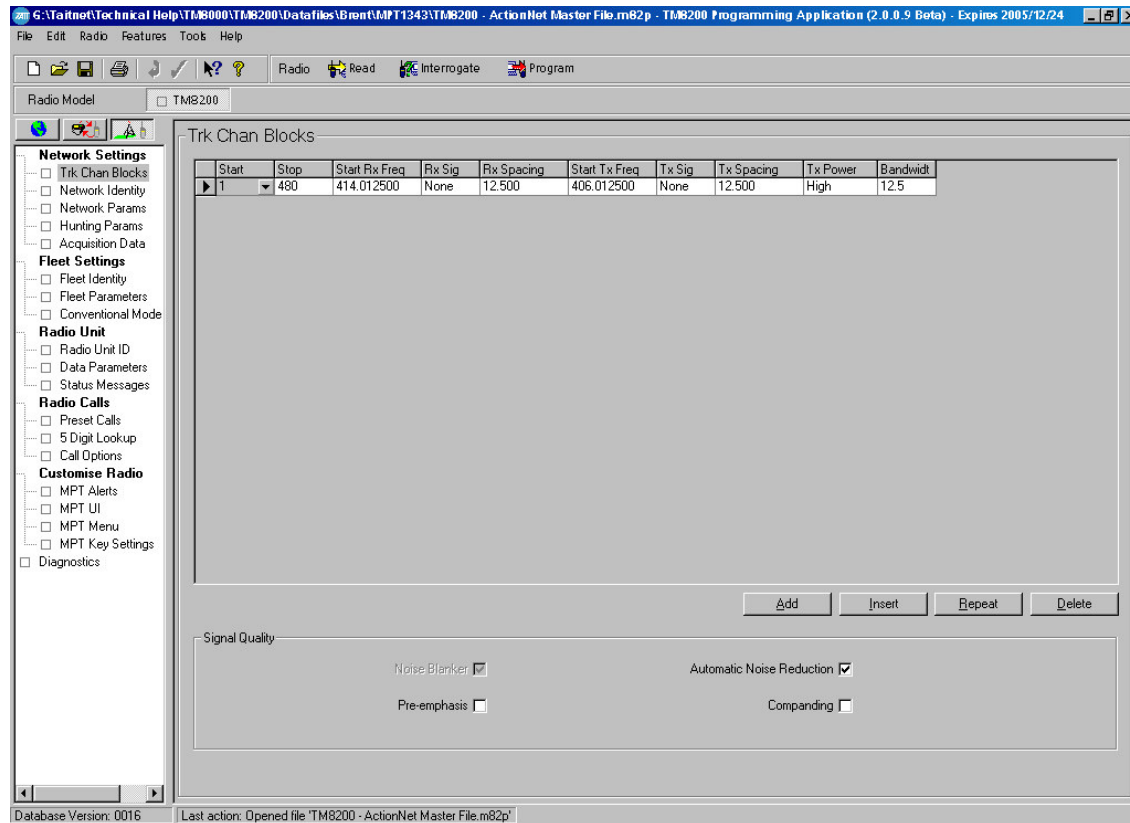
Channels (Control)

121,123,124,125,127,129,133,134,135,140,201,203,204,205,207

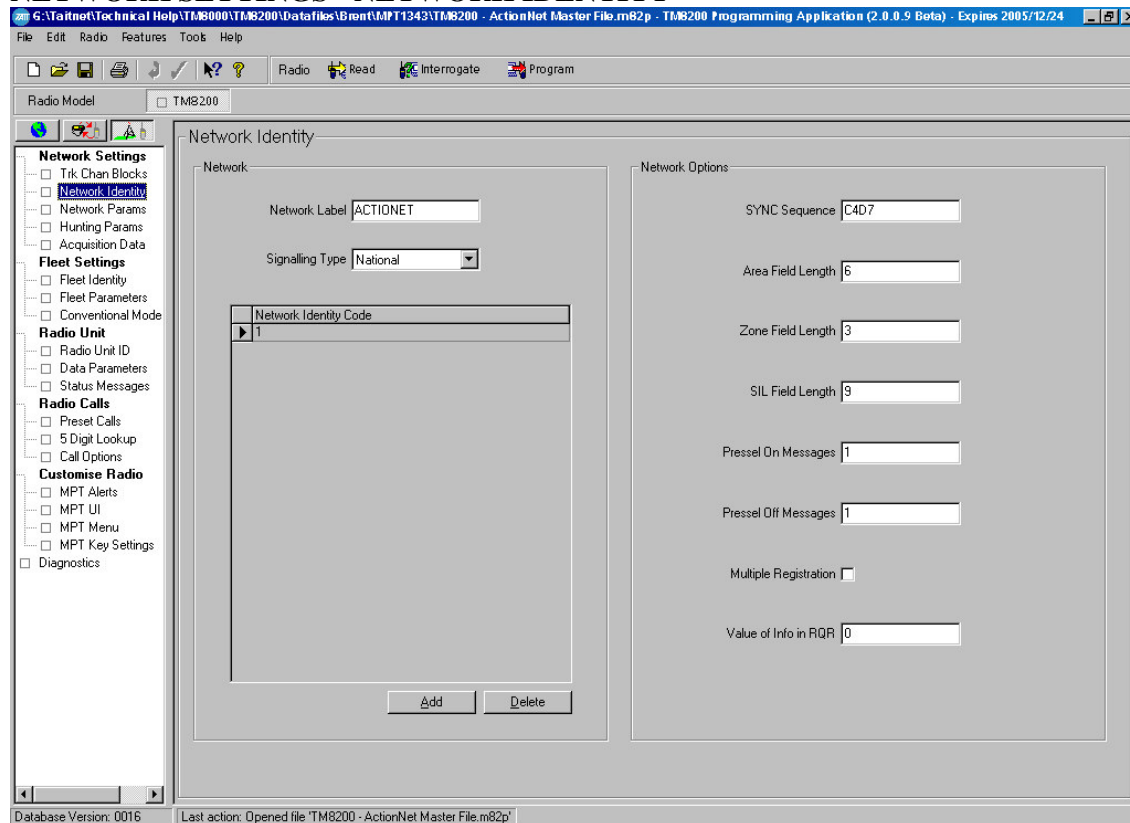
209,213,214,215,220,301,303,304,305,307,309,310,311,312,313,314,315

7. TeamTalk ActionNet – TM8255 Mobiles

NETWORK SETTINGS – TRUNKED CHANNEL BLOCKS



NETWORK SETTINGS - NETWORK IDENTITY



NETWORK SETTINGS - NETWORK PARAMETERS

Database Version: 0016 Min: 10 Max: 60 Step: 10 Unit: seconds Last action: Saved to file 'TM8200 - ActionNet Master File1.m82p'

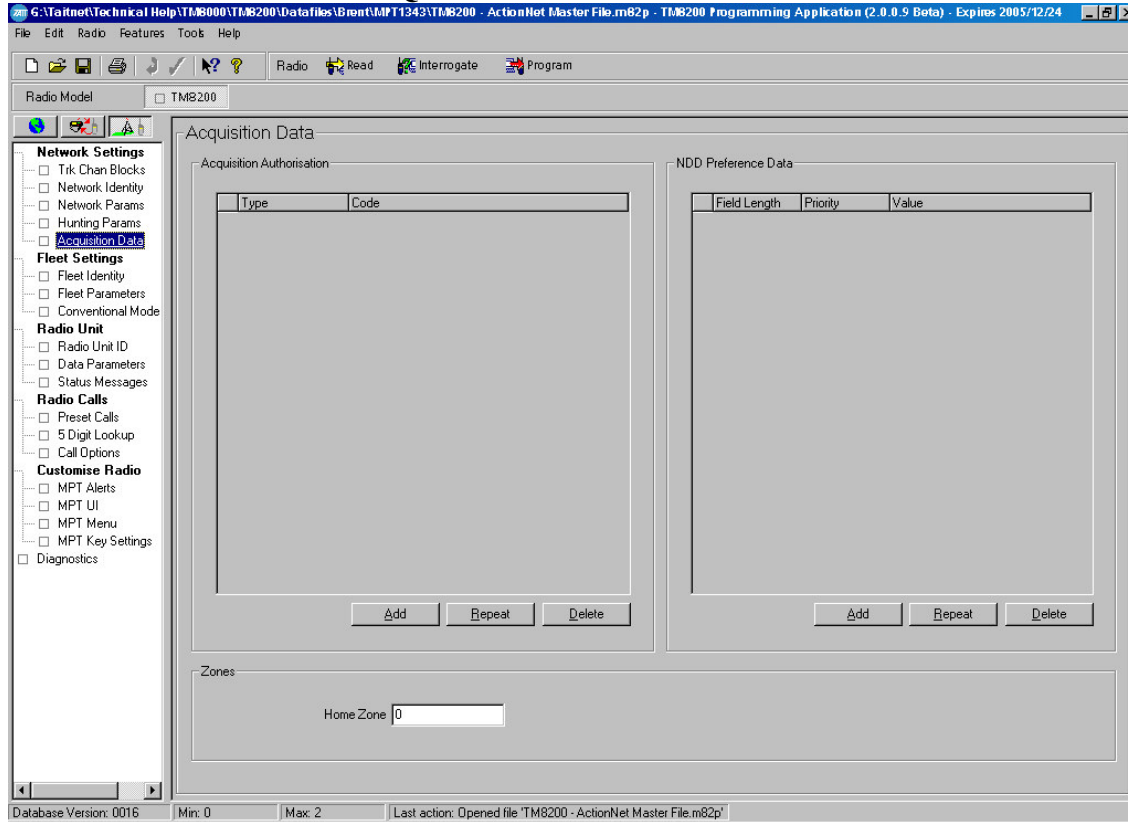
NETWORK SETTINGS - HUNTING PARAMETERS

Database Version: 0016 Min: 0 Max: 1 Last action: Saved to file 'TM8200 - ActionNet Master File.m82p'

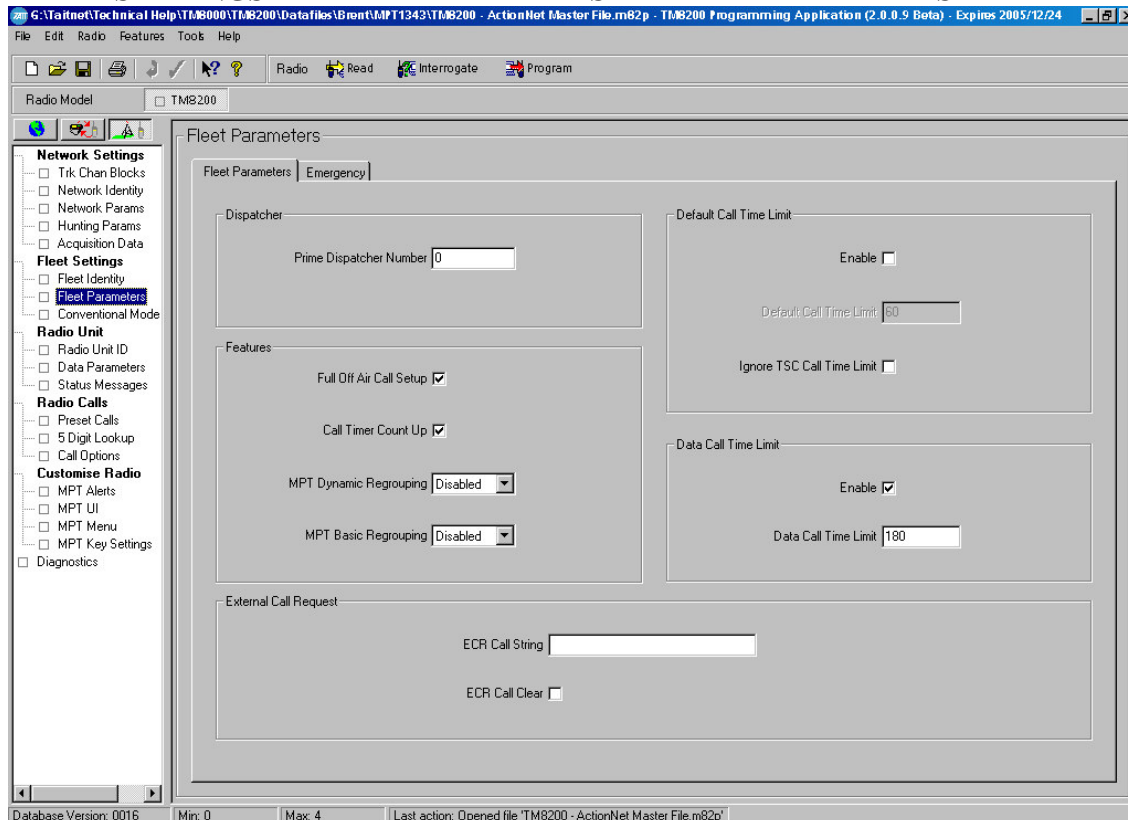
Channel	Type
22	Continuous
26	Continuous
28	Continuous
36	Continuous
37	Continuous
38	Continuous
39	Continuous
122	Continuous
126	Continuous
128	Continuous
136	Continuous
137	Continuous
138	Continuous
139	Continuous
202	Continuous

Normal Hunt Channel List: 22, 26, 28, 36, 37, 38, 39, 122, 126, 128, 136, 137, 138, 139, 202, 206, 208, 216, 217, 218, 219, 302, 306, 308, 316, 317, 318, 319, 321, 361, 453, 478

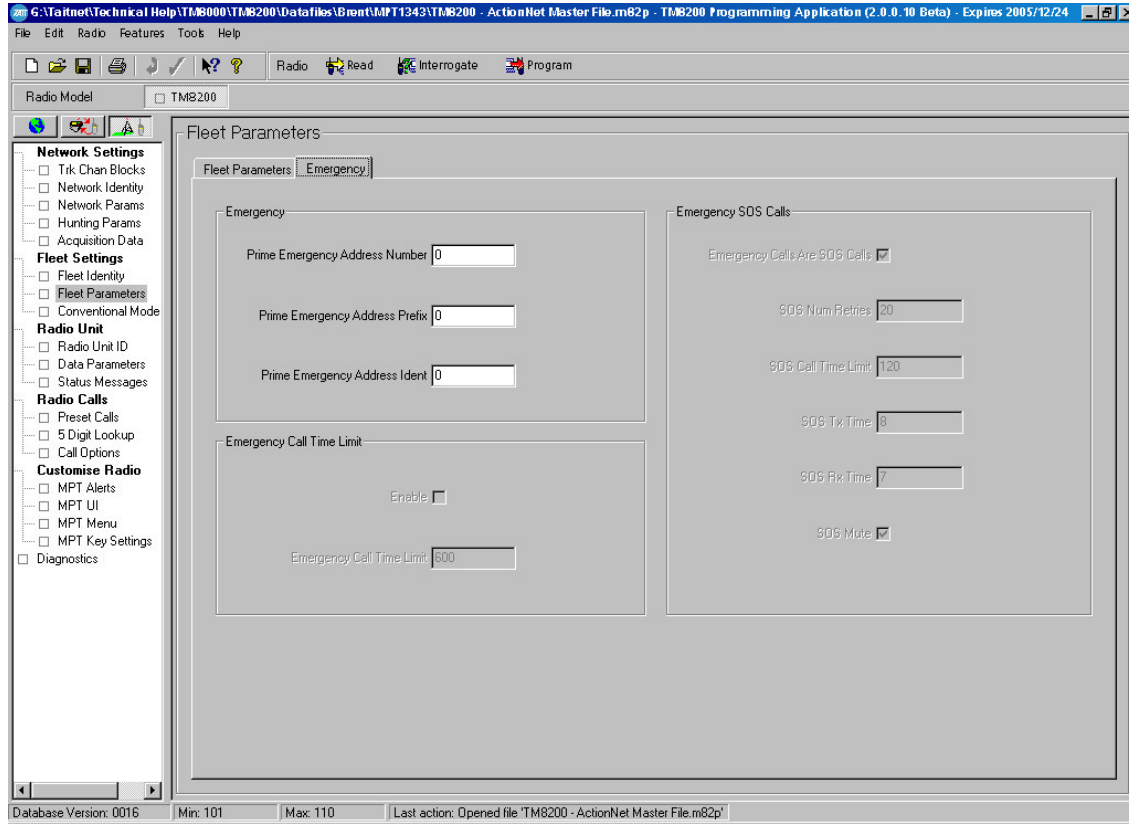
NETWORK SETTINGS - ACQUISITION DATA



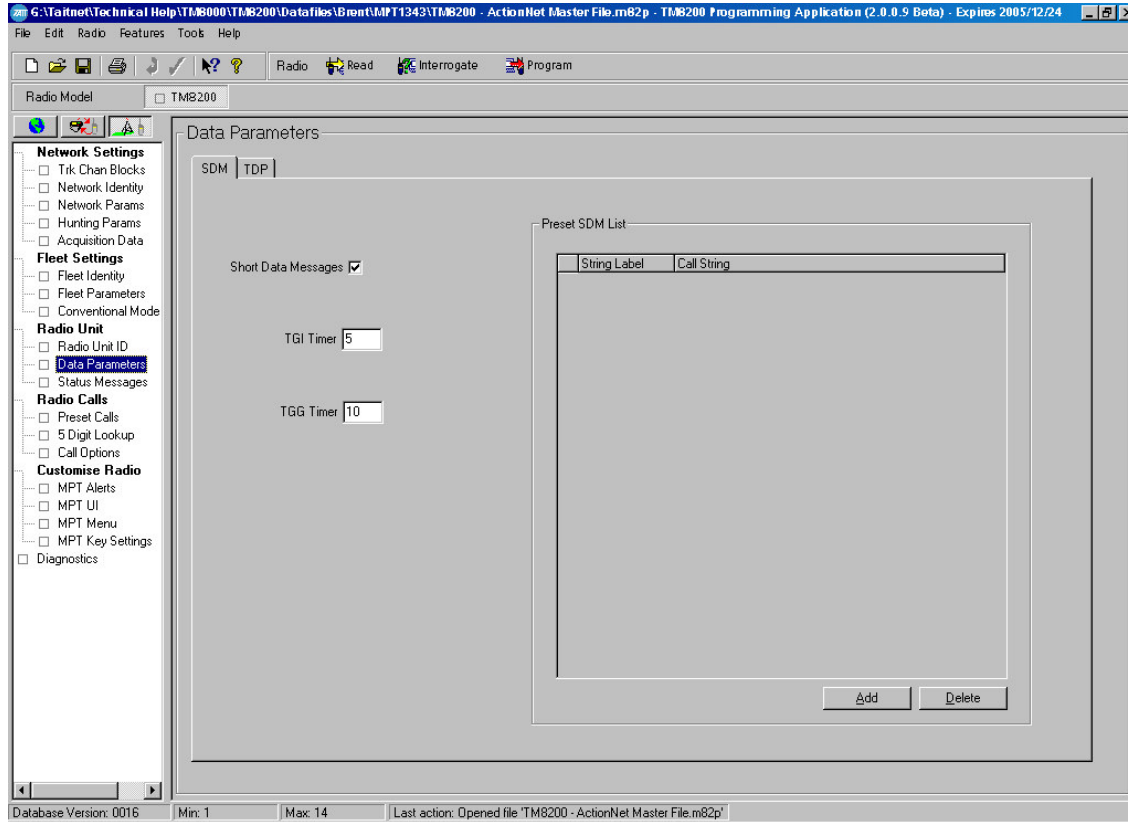
FLEET SETTINGS - FLEET PARAMETERS – FLEET PARAMETERS



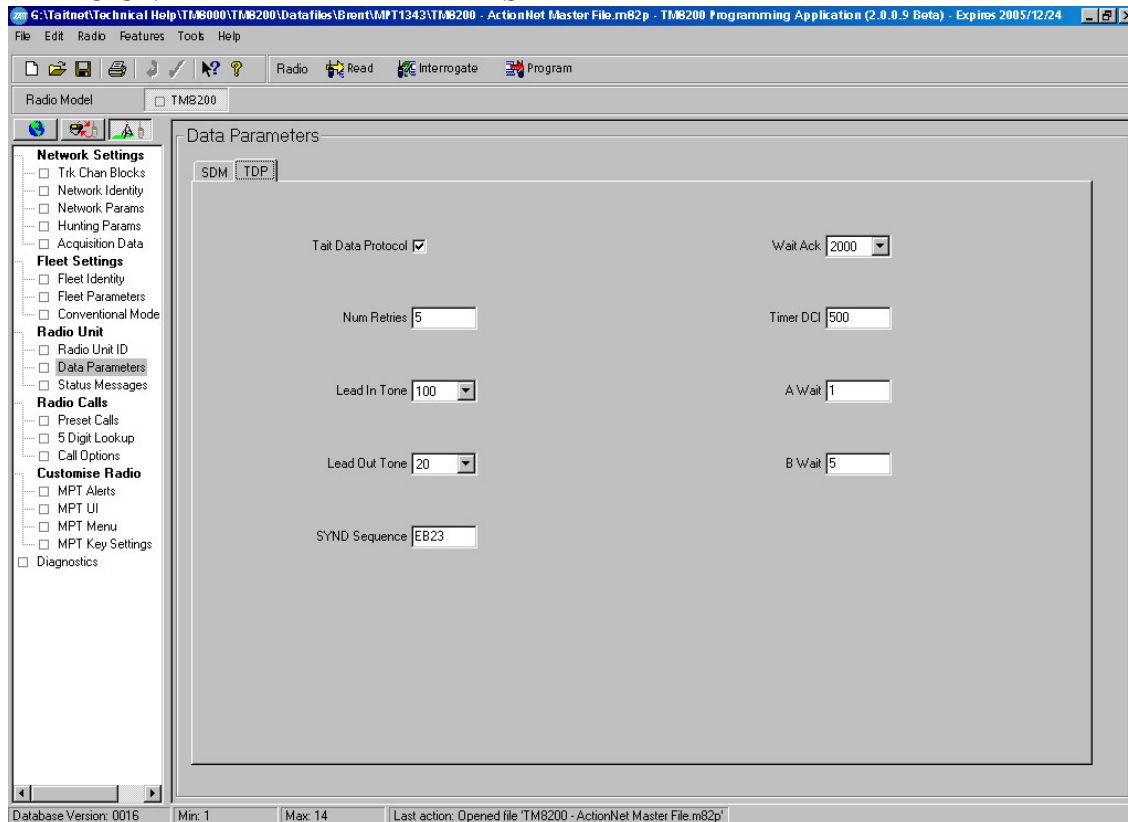
FLEET SETTINGS - FLEET PARAMETERS – FLEET PARAMETERS



RADIO UNIT - DATA PARAMETERS SDM



RADIO UNIT - DATA PARAMETERS TDP



8. TeamTalk ActionNet - T2000 Mobiles

The following are settings for the TeamTalk ActionNet network.

Noise Blanker: This should be **disabled** in all radios.

All UHF T2000 trunk radios operating on the TaitNet system should have the noise blanker disabled. Radios, which have had the noise blanker disabled can be identified by checking the radio, type number. T20xx-523-Cxx = noise blanker disabled. Refer to TN-609, which describes how to perform this modification. (Remove R133)

Radio Unit - Power Saving: This should be set to **15 minutes or longer**.

There are certain versions of firmware in radios where the economiser cannot be disabled. The programming software will automatically set this to 10 seconds, and this will cause calls to be dropped when they should not be cleared down. To stop this from occurring the Economiser should be enabled and set to 15 minutes or longer.

Network Setting - Network Identity - Multiple Registration: This should be set to **Disabled**.

Whenever a radio is read or a datafile is loaded, this setting is always set to enabled by the programming software, when it should be disabled.

Whenever a radio is read or a datafile is loaded, this should be checked before the radio is programmed.

Radio Calls - Call Options - Call Queuing: This should be set to **Unanswered**.

The only exception is for radios that are connected to a data despatch package. Call queuing needs to be disabled; otherwise there will be problems with 'Not Homes' occurring when the status queue is full

Customise Radio - Interface Options - Reset on Error: This should always be set to **Enabled**.

This field needs to be checked every time a radio is programmed that it is enabled.

To access this field in the T203X programming software **TECHNICIAN** needs to be entered instead of **K1W1** when the programming software is started.

This option is in the Unit-Diagnostics page.

TeamTalk ActionNet T2000 Mobiles

Fleet Settings - Fleet Identity	Dialling Scheme	MPT1343
Fleet Settings - Fleet Parameters	Full Off Air Call Set up	Allowed
	Call Counter Time up	Enabled
	Default Call time limit	Disabled
	Default Call time limit	0 Secs
	Emergency Call time limit	Disabled
	Emergency Call time	0 Secs
	Data Call time limit	Enabled
	Data Call time	180 Secs
	Ignore TSC Call Time limit	Disabled
Radio Unit - Radio Unit ID:	Control Category	A
Radio Calls - Preset Calls:	TeamTalk Helpdesk 202,2001,200	Number 9
Radio Calls - Call Options:	Data Calls	Enabled
	ALLI calls	Disabled
	Network Operator Service Calls	Disabled
	Technician Calls	Disabled
	Join Busy Group	Enabled
Customise Radio – Interface Options	Auto Register on Power on	Enabled
	Single Press PTT call	Enabled
	Tone on Emergency Calls	Disabled
	Tone on Speech Calls	Enabled
	Tone on Data Calls	Disabled
	Tone on Group Calls	Disabled
	Tone on Individual Calls	Disabled
	Tone on Include Calls	Disabled
	Tone on Status Calls	Disabled
	Reset After Error	Enabled

The table below indicates what radio firmware version supports the features listed.
If the radio firmware version is greater than in the table then it supports that feature.

E.G. For the T2040 if the firmware is above V5.20 then it supports the vote now feature.

Background Hunt	T2030 ≥ V3.XX	T2035 ≥ V3.XX	T2040 ≥ V5.XX
Vote Now	T2030 ≥ V3.10	T2035 ≥ V3.10	T2040 ≥ V5.20
NDD preference	T2030 ≥ V3.XX	T2035 ≥ V3.XX	T2040 ≥ V4.XX
Join Busy Group	Not Available	T2035 ≥ V3.53	T2040 ≥ V5.65
Auto Register on Power on	T2030 ≥ V3.30	T2035 ≥ V3.51	T2040 ≥ V5.63
Single Press PTT	T2030 ≥ V3.29	T2035 ≥ V3.51	T2040 ≥ V5.63

TeamTalk ActionNet T2000 Mobiles

NETWORK SETTING - TRUNKED CHANNEL BLOCKS

Database Version: 0507 | Last action: Opened file 'T2040 Tait Comms Actionnet 19_12_03.i2k'

NETWORK SETTINGS - NETWORK IDENTITY

Database Version: 0507 | Last action: Opened file 'T2040 Tait Comms Actionnet 19_12_03.i2k'

TeamTalk ActionNet T2000 Mobiles

NETWORK SETTINGS - NETWORK PARAMETERS

The screenshot shows the 'NETWORK PARAMETERS' configuration window. The 'Network Params' section is expanded, showing three sub-sections:

- Control Channel Acquisition/Retention:**

	Continuous	Time-shared
NZ1	1	20
NZ2	2	15
TS	5	1
NC1	20	20
NC2	15	15
NV	1	1
NX1	4	4
NX2	4	4
- Signalling Parameters:**

NT	103	TJ	20
NW	4	TN	7
ND1	3	TT	60
ND2	5	TA	30
NE	16	TB	2
NR	8	TP	5
NI	4	TW	60
TC	60	TI	2
TD	10		
- Background Hunt Parameters:**

TL (min)	1	TL (sec)	10
TH	2	LM1	6
NS	2	LM2	6
		LM3	6

NETWORK SETTINGS - HUNTING PARAMETERS

The screenshot shows the 'HUNTING PARAMETERS' configuration window. The 'Hunting Params' section is expanded, showing three sub-sections:

- Normal Hunt Channels:** A table listing channels and their types.

Channel	Type
22	Continuous
26	Continuous
28	Continuous
36	Continuous
37	Continuous
38	Continuous
39	Continuous
122	Continuous
126	Continuous
128	Continuous
136	Continuous
137	Continuous
- Non Applicable Channels:** An empty table with 'From' and 'To' columns.
- Parameters:**
 - Nokia TS Channel Support:
 - Background Hunt:
 - Comprehensive Hunt:
 - Act On Vote Now Advice BCAS Ts:
 - Vote Now Advice Margin:
 - Site Select And Resuming Hunt:

Normal Hunt Channel List: 22, 26, 28, 36, 37, 38, 39, 122, 126, 128, 136, 137, 138, 139, 202, 206, 208, 216, 217, 218, 219, 302, 306, 308, 316, 317, 318, 319, 321, 361, 453, 478

TeamTalk ActionNet T2000 Mobiles

FLEET SETTINGS - FLEET PARAMETERS

G:\Taitnet\Technical Help\T2000\T2000Dat\Tait\T2040 Tait Comms Actionnet 19_12_03.t2t - T2000 Trunked Programming Application (2.71.0.0)

File Edit Radio Network Tools Help

Radio Model T2030 T2035 T2040

Specifications

- Network Settings
 - Trik Chan Blocks
 - Network Identity
 - Network Params
 - Hunting Params
 - ANN Interfleet
- Fleet Settings
 - Fleet Identity
 - Fleet Parameters
 - Conv Channels
- Radio Unit
 - Radio Unit ID
 - Acquisition Data
 - CCI Setup
 - Data Parameters
 - Status Messages
 - Power Saving
- Radio Calls
 - Preset Calls
 - 5 Digit Lookup
 - External Calls
 - Call Options
- Customise Radio
 - External Alert
 - Key Settings
 - Interface Options

Fleet Parameters

Dispatcher

Prime Dispatcher Number

Default Call Time Limit

Enable

Time

Emergency

Prime Emergency Number

Prime Emergency Address Prefix

Prime Emergency Address Ident

Emergency Call Time Limit

Enable

Time

Features

Full Off Air Call Setup

Call Timer Count Up

Data Call Time Limit

Enable

Time

Ignore TSC Call Time Limit

Database Version: 0507 | Last action: Opened file 'T2040 Tait Comms Actionnet 19_12_03.t2t'

RADIO UNIT - DATA PARAMETERS

G:\Taitnet\Technical Help\T2000\T2000Dat\Tait\T2040 Tait Comms Actionnet 19_12_03.t2t - T2000 Trunked Programming Application (2.71.0.0)

File Edit Radio Network Tools Help

Radio Model T2030 T2035 T2040

Specifications

- Network Settings
 - Trik Chan Blocks
 - Network Identity
 - Network Params
 - Hunting Params
 - ANN Interfleet
- Fleet Settings
 - Fleet Identity
 - Fleet Parameters
 - Conv Channels
- Radio Unit
 - Radio Unit ID
 - Acquisition Data
 - CCI Setup
 - Data Parameters
 - Status Messages
 - Power Saving
- Radio Calls
 - Preset Calls
 - 5 Digit Lookup
 - External Calls
 - Call Options
- Customise Radio
 - External Alert
 - Key Settings
 - Interface Options

Data Parameters

Short Data Messages

Short Data Messages

TGI Timer

TGG Timer

Call Queued Tones

SDM Dispatcher Call String

Hook Signalling

Tait Data Protocol

Tait Data Protocol

Num Retries

Lead In Tone

Lead Out Tone

SYND Sequence

Wait Ack

Timer DCI

A Wait

B Wait

Custom Fields

Custom Fields

Database Version: 0507 | Last action: Opened file 'T2040 Tait Comms Actionnet 19_12_03.t2t'

9. TeamTalk ActionNet - T3000 Handportables

Unit Identity Page:	Control Category	A	
	Call Queuing		Unanswered
Unit Preset Calls	TeamTalk Help Desk 2022001200	Number 9	
Unit Dialling Facilities	ALLI Calls		Disabled
	Network Operator Service Calls		Disabled
	Technician Calls		Disabled
Own Fleet Identity:	Dialling Scheme		MPT1343
Own Fleet Parameters:	Full Off Air Call Set up		Allowed
	Default Call time limit		0 Secs
	Emergency Call time limit	0 Secs	
	Call timer Count up		Enabled
	Ignore TSC Call Time limit		Disabled

The table below indicates what radio firmware version supports the features listed.
 If the radio firmware version is greater than in the table then it supports that feature.
 E.G For the T3040 if the firmware is above V2.21 then it supports the vote now feature.

Background Hunt	T3030 ≥ V2.XX	T3035 ≥ V2.XX	T3040 ≥ V2.XX
Vote Now	T3030 ≥ V2.11	T3035 ≥ V2.12	T3040 ≥ V2.21
NDD preference	T3030 ≥ V2.XX	T3035 ≥ V2.XX	T3040 ≥ V2.XX

UNIT ACQUISITION DATA

Unit - Acquisition Data

Acquisition Authorisation
(maximum of 8 definitions)

Type	Code
!	!

NDD Preference Data
(maximum of 4 definitions)

Field Length	Priority	Value
!	!	!

Home Zone

NETWORK IDENTITY

Network - Identity

Print

Network Type

Network Identity Code

SYNC Sequence

Area Field Length (LA)

Zone Field Length (LZ)

SIL Field Length (LSIL)

Number of Pressel On Messages (NPON)

Number of Pressel Off Messages (NPOFF)

Pre-Emphasis

Transmit Slot Timing

NETWORK PARAMETERS

Network - Parameters

Print

(1) Control Channel Acquisition/Retention

	Continuous	Time-shared		
NC1	<input type="text" value="10"/>	<input type="text" value="10"/>	NZ1	<input type="text" value="1"/>
NC2	<input type="text" value="21"/>	<input type="text" value="21"/>	NZ2	<input type="text" value="6"/>
NU	<input type="text" value="1"/>	<input type="text" value="1"/>	TS	<input type="text" value="5"/> seconds
NX1	<input type="text" value="2"/>	<input type="text" value="2"/>		
NX2	<input type="text" value="5"/>	<input type="text" value="5"/>		

(2) Signalling Parameters

NW	<input type="text" value="4"/>	TC	<input type="text" value="60"/> seconds	TA	<input type="text" value="30"/> seconds
ND1	<input type="text" value="3"/>	TD	<input type="text" value="10"/> minutes	TB	<input type="text" value="2"/> seconds
ND2	<input type="text" value="5"/>	TJ	<input type="text" value="20"/> seconds	TP	<input type="text" value="5"/> seconds
NE	<input type="text" value="16"/>	TN	<input type="text" value="7"/> seconds	TW	<input type="text" value="60"/> seconds
NR	<input type="text" value="8"/>	TT	<input type="text" value="60"/> seconds		

Background Search Sequence Parameters

TL	<input type="text" value="70"/> seconds	LM1	<input type="text" value="6"/> dB
TH	<input type="text" value="2"/> Slots	LM2	<input type="text" value="6"/> dB
NS	<input type="text" value="2"/>	LM3	<input type="text" value="6"/> dB

NETWORK PARAMETERS

Network - Hunt Parameters

Print

Nokia TS Channel Support

Background Hunt

Hunt Upon Expiry of NE or NR

Comprehensive Hunt

Act On Vote Now

Vote Now Advice Margin dB

Normal Hunt Channels (Maximum of 32 channels)	
Channel	Type
22	Continuous
26	Continuous
28	Continuous
36	Continuous
37	Continuous
38	Continuous
39	Continuous
122	

Non Applicable Channels (Maximum of 10 blocks)	
From	To
!	!

Normal Hunt Channel List: 22, 26, 28, 36, 37, 38, 39, 122, 126, 128, 136, 137, 138, 139, 202, 206, 208, 216, 217, 218, 219, 302, 306, 308, 316, 317, 318, 319, 321, 361, 453, 478

Vote now advice Margin 6 dB

T3000 Trunked radios with following version of firmware have a known problem where they vote incorrectly if set to 6 dB. Please ensure these radios have the vote now margin set to 5 dB for this parameter.

T3035 radios with V2.12 firmware should be set to 5 dB
T3040 radios with V2.21 firmware should be set to 5 dB

NETWORK TRUNKED CHANNEL BLOCKS

Network - Trunked Channel Blocks

Print

F2 to Insert a Row : F3 to delete a Row

(maximum of 30 blocks)

CHANNEL		RECEIVER	TRANSMITTER		Power
Start	Stop	Spacing	Frequency	Frequency	
		KHz	MHz	MHz	
1	480	12.50	414.01250	406.01250	High

9. TeamTalk ActionNet - 5000 Series and Tait Orca Series

Dynamic Power: This feature should be **Disabled**.

Dynamic Power needs to be removed from the user menu, function key menu, and also the initial setting of the dynamic power needs to be disabled as this can reduce the overall performance of the radio

Low Power: This feature should be **disabled**.

Low Power needs to be removed from the user menu, function key menu, and also the initial setting of the low power needs to be disabled as this can reduce the overall performance of the radio

Fleet Identity:	Dialling Scheme	MPT1343
Fleet Parameters: Full Call Off Air Setup		Allowed
	Default Call time limit	0 Secs
	Default Emergency Call time limit	0 Secs
	Call Timer Count up	Enabled
	Ignore TSC Call timer limit	Disabled
Call Options:	ALLI Calls	Disabled
	Network Operator Service Calls	Disabled
	Technician Calls	Disabled
	Call Queuing	Unanswered
	Unanswered Call Timer	20 Seconds
	Join Busy Group	Enabled
User Defined Menu:	User Setting Dyn Power Option	Disabled
	User Setting Low power Option	Disabled
User Selectable:	Initial Dynamic Power Setting	Disabled
	Initial Low power Transmit Setting	Disabled
	Auto Noise Reduction	Enabled
	Register On Power Up	Enabled
Preset Calls:	TeamTalk Helpdesk 202,2001,200	Number 9

NETWORK SETTINGS - TRUNKED CHANNEL BLOCKS

Trunked Channel Blocks

Channel Start	Channel Stop	Channel Spacing (kHz)	Start Rx Frequency (MHz)	Start Tx Frequency (MHz)	Tx Deviation	Power Level
1	480	12.50	414.01250	406.01250	Narrow	High

Buttons: Add, Delete

Status: Loading form Model : 5040 DBVersion : 0205

NETWORK SETTINGS - NETWORK IDENTITY

Network Identity

Network Type: National

Network Identity Code
1

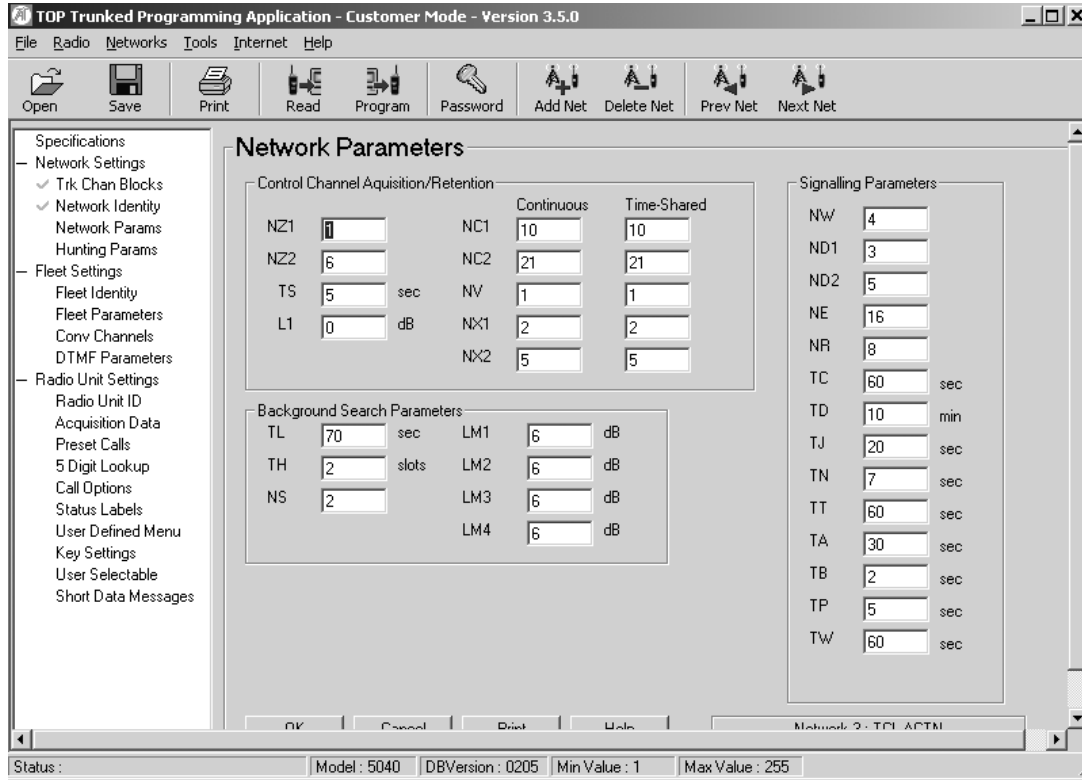
Buttons: Add, Delete

Network Options:

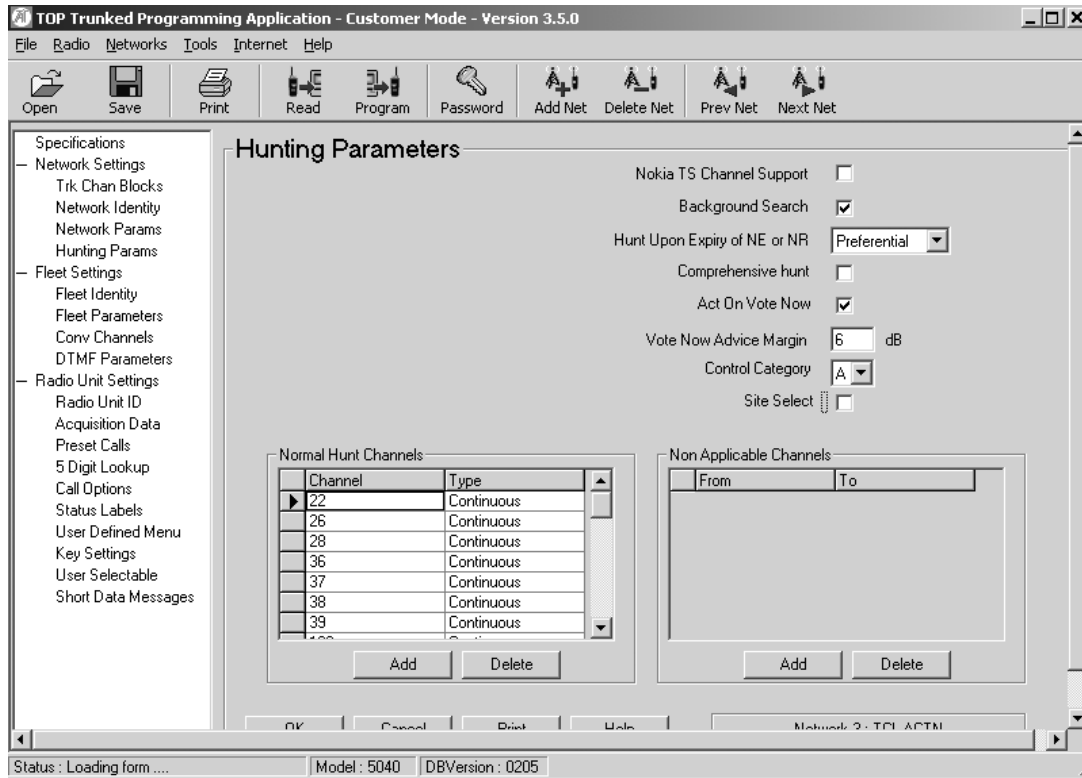
- SYNC Sequence: C4D7
- Area Field Length (LA): 6
- Zone Field Length (LZ): 3
- SIL Field Length (LSIL): 9
- Number of Press On Messages (NPON): 1
- Number of Press Off Messages (NPOFF): 1
- Pre-Emphasis: Other
- Multiple Registration: Disabled
- Value of INFO in RQR: 0

Status: Model : 5040 DBVersion : 0205

NETWORK SETTINGS - NETWORK PARAMETERS

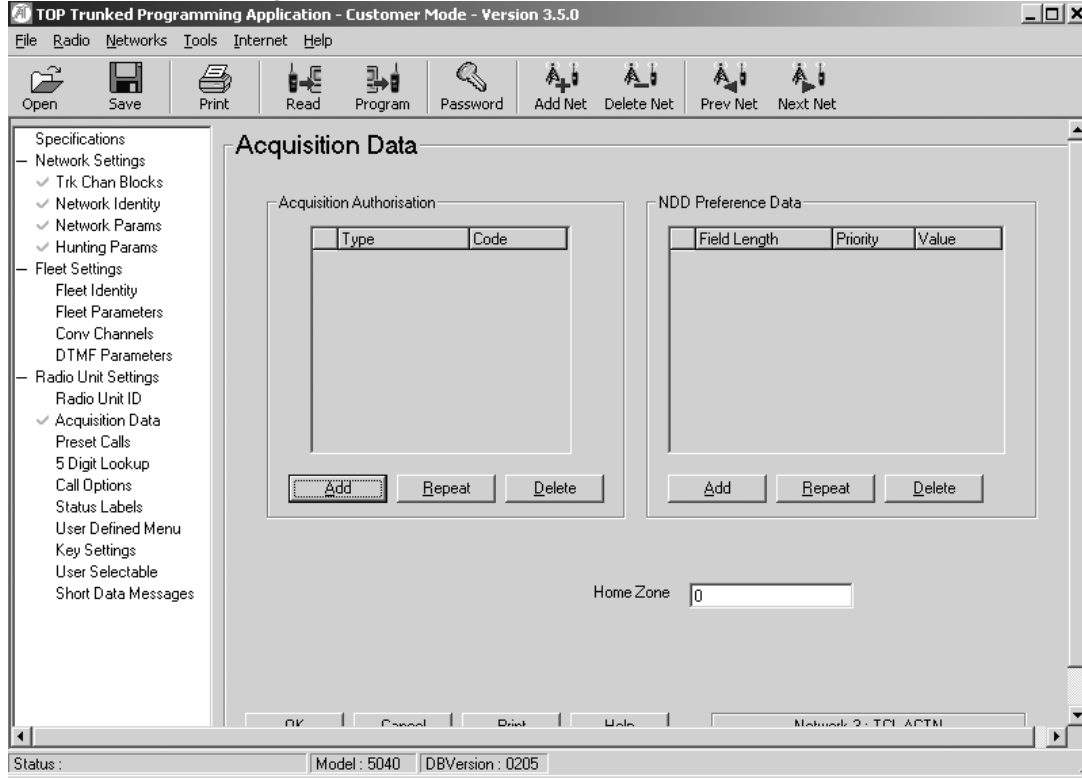


NETWORK SETTINGS - HUNTING PARAMETERS



Normal Hunt Channel List: 22, 26, 28, 36, 37, 38, 39, 122, 126, 128, 136, 137, 138, 139, 202, 206, 208, 216, 217, 218, 219, 302, 306, 308, 316, 317, 318, 319, 321, 361, 453, 478

RADIO UNIT - ACQUISITION DATA



11. Summary of TeamTalk ActionNet Parameters

VARIABLE		MOBILE	PORTABLE	
NC1	CONT	20	10	LOWEST CHANNEL 1
NC2	CONT	15	21	HIGHEST CHANNEL 480
NX1	CONT	4	2	
NX2	CONT	4	5	
NZ1		1	1	COMPREHENSIVE HUNT OFF
NZ2		2	6	BACKGROUND HUNT ON
ND1		3	3	VOTE NOW ON
ND2		5	5	
NE		16	16	
NI		4	4	
NR		8	8	
NT		103	103	
NW		4	4	
TA		30	30	
TB		2	2	
TC		60	60	
TD		10	10	
TI		2	2	
TJ		20	20	
TN		7	7	
TP		5	5	
TS		5	5	
TT		60	60	
TW		60	60	
TL		70	70	
TH		2	2	
NS		2	2	
NV		1	1	
LM1		6	6	
LM2		6	6	
LM3		6	6	
NPON		1	1	
NPOFF		1	1	
LA		6	6	
LZ		3	3	
LSIL		9	9	
VOTE NOW LEVEL		6	6	
HOME ZONE		0	0	
N VOTE		1	1	
T VOTE		10	10	
LM VOTE		6	6	

CHANNELS 22, 26, 28, 36, 37, 38, 39, 122, 126, 128, 136, 137, 138, 139, 202, 206, 208, 216, 217, 218, 219, 302, 306, 308, 316, 317, 318, 319, 321, 361, 453, 478

NOTE ALL TAIT T700 AND T500 RADIOS NEED TO HAVE COMPREHENSIVE HUNT TURNED ON TO STOP RADIOS LOGGING OFF WHEN THEY CAN NOT FIND A SITE IN THE NORMAL HUNT LIST

12. Other Equipment Manufactures Summary

TeamTalk TaitNet Network Parameters 21 May 2001 For other Manufactures Equipment						
Variable Name		Mobile	Portable			
NC1	CONTIN	30	25		Lowest Chan	7
NC2	CONTIN	20	20		Highest Chan	480
NX1	CONTIN	6	5		FPP	O
NX2	CONTIN	6	6		MEP	O
NZ1		1	1	Comprehensive hunt		On
NZ2		2	6	Background Hunt		On
ND1		3	3			
ND2		5	5	Network type		National
NE		16	16	Network ID		0
NI		4	4	Dialling Scheme		MPT1343
NR		8	8	Control category		A
NT		103	103	Full off air call set up		Yes
NW		4	4	Default call time limit		180 sec
TA		30	30	Emg call time limit		780 sec
TB		2	2	Data call time limit		180 sec
TC		60	60	Call timer count up		No
TD		10	10	Ignore TSC call time limit		No
TI		2	2	Nokia TS support		No
TJ		40	40	Act on vote now		Yes
TN		10	10	Ignore LAB sub filed		No
TP		5	5	<i>Freq Range start channel 1</i>		
TS		5	5	RX	414.01250	
TT		60	60	TX	406.01250	
TW		60	60			
TL		90	90			
TH		2	2			
NS		2	2			
NV		1	1			
LM1		6	6			
LM2		6	6			
LM3		6	6			
NPON		1	1			
NPOFF		1	1			
LA		7	7			
LZ		3	3			
LSIL		0	0			
VOTE NOW LEVEL		6	6			
HOME ZONE		0	0			
N VOTE		1	1			
T VOTE		10	10			
LM VOTE		6	6			

Channels

(control)

121,123,124,125,127,129,133,134,135,140,201,203,204,205,207

209,213,214,215,220,301,303,304,305,307,309,310,311,312,313,314,315