TAIT COMMUNICATIONS TRUNKED RADIO PROGRAMMING GUIDE

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7. TeamTalk ActionNet - T3000 Handportables

8. TeamTalk ActionNet - 5000 Series and Tait Orca Series

9. Summary of TeamTalk ActionNet Parameters

10. Other Equipment Manufactures Summary

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.

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1. Changes Made Since Last Programming Guide

<u>**T2000 Trunked Radios**</u>:

1. **Reset On Error** 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.

2. **Auto Register at Power On,** this field needs to be **Enabled**.

This will force the radio to register onto the system every time the radio is switched on. This eliminates the need to hold the PTT in while turning on to force the radio to register onto the system

3. **Unit Miscellaneous Controls**:   **Single Press PTT Call**   **Enabled**

When this field is disabled a separate press of the PTT button is needed after a call is initiated before the user can begin to talk.

4. **Unit Miscellaneous Controls**:   **Join Busy Group**   **Enabled**

Some networks send repeat go-to-channel messages. On such networks, a radio can make a call to a group it is not subscribed to and if a group call is already in progress, the radio will be directed to the allocated traffic channel. When the Join Busy Group field is enabled, the radio will be able to join busy groups.
Note that on some trunked radio networks group call amalgamation will occur automatically regardless of what this field is set to.

<u>**Tait Orca 5000 Series Radios**</u>

1. **Reregister on Power-up** this field needs to be **Enabled**.

This will force the radio to register onto the system every time the radio is switched on. This eliminates the need to hold the PTT in while turning on to force the radio to register onto the system

2. **Audio Noise Reduction**, this field needs to be **Enabled.**

When the Audio Noise Reduction field is checked, weak signals such as background noise are reduced when the mute is open and nobody is talking on the channel. This applies to all channels.

2. TeamTalk TaitNet - T2000 Mobiles

The following are settings for the TeamTalk TaitNet 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)

Economiser: 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.

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.

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.

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.

Auto Register at Power On: This field needs to be **Enabled.**

This will force the radio to register onto the system every time the radio is switched on. This eliminates the need to hold the PTT in while turning on to force the radio to register onto the system.

Unit Identity Page:	**Control Category**	**A**
Unit Dialing Facilities:	**Data Calls**	**Enabled**
Unit Miscellaneous Controls:	**Single Press PTT Call**	**Enabled**
	Join Busy Group	**Enabled**
Own Fleet Parameters:	**Dialing Scheme**	**MPT1343**
	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 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

NETWORK SETTING - NETWORK IDENTITY

NETWORK SETTING - NETWORK PARAMETERS

NETWORK SETTINGS - HUNTING PARAMETERS

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

UNIT - DATA PARAMETERS

3. TeamTalk TaitNet - T3000 Handportables

Unit Identity Page: **Control Category**   **A**
                                     Call Queuing   **Unanswered**

Own Fleet Identity: **Dialing 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**

UNIT AQUISITION DATA

```
┌─────────────────────────────────────────────────────────────────────┐
│ ▬              Unit - Acquisition Data                          ▲    │
│ Print                                                                │
│                                                                      │
│   ┌──────────────────────────┐    ┌──────────────────────────────┐  │
│   │ Acquisition Authorisation│    │      NDD Preference Data     │  │
│   │ (maximum of 8 definitions)│   │    (maximum of 4 definitions)│  │
│   │    Type        Code      │    │ Field Length   Priority  Value│ │
│   │                          │    │                              │  │
│   │  [I!]   [▼]  [!]         │    │    [!]          [!]      [!] │  │
│   │                          │    │                              │  │
│   │                          │    └──────────────────────────────┘  │
│   │                          │                                       │
│   │                          │                                       │
│   │                          │                                       │
│   │                          │                                       │
│   └──────────────────────────┘                                       │
│                                                                      │
│       Home Zone          [0]                                         │
│                                                                      │
│                                                                      │
└─────────────────────────────────────────────────────────────────────┘
```

NETWORK IDENITY

```
┌─────────────────────────────────────────────────────────────────────┐
│ ▬                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        [ 20 ]        [ 6 ]        NZ1      [ 1 ]                     │
│                                                                           │
│   NC2        [ 15 ]        [ 54 ]       NZ2      [ 3 ]                     │
│                                                                           │
│   NV         [ 1 ]         [ 1 ]        TS       [ 5 ]     seconds         │
│                                                                           │
│   NX1        [ 15 ]        [ 2 ]                                          │
│                                                                           │
│   NX2        [ 10 ]        [ 3 ]                                          │
│                                                                           │
│                                                                           │
│  (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      [ 2 ]    Slots      LM2   [ 6 ]   dB                            │
│                                                                           │
│   NS      [ 2 ]               LM3   [ 3 ]   dB                            │
│                                                                           │
└─────────────────────────────────────────────────────────────────────────┘
```

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        │   │ Non Applicable Channels  ││
│   │  (Maximum of 32 channels)    │   │ (Maximum of 10 blocks)   ││
│   │    Channel      Type         │   │   From          To       ││
│   └──────────────────────────────┘   └──────────────────────────┘│
│     ┌─────┐  ┌────────────┐ ┌┐     ┌──────────────────────────┐  │
│     │ 121 │  │ Continuous │ │↑│    │ [!]         [!]          │  │
│     ├─────┤  ├────────────┤ ├┤     │                          │  │
│     │ 123 │  │ Continuous │ │ │    │                          │  │
│     ├─────┤  ├────────────┤ │ │    │                          │  │
│     │ 124 │  │ Continuous │ │ │    │                          │  │
│     ├─────┤  ├────────────┤ │ │    │                          │  │
│     │ 125 │  │ Continuous │ │ │    │                          │  │
│     ├─────┤  ├────────────┤ │ │    │                          │  │
│     │ 127 │  │ Continuous │ │ │    │                          │  │
│     ├─────┤  ├────────────┤ │ │    │                          │  │
│     │ 129 │  │ Continuous │ │ │    │                          │  │
│     ├─────┤  ├────────────┤ │ │    │                          │  │
│     │ 133 │  │ Continuous │ ├┤     │                          │  │
│     ├─────┤  └────────────┘ │↓│    └──────────────────────────┘  │
│     │ 134 │                 └┘                                    │
│     └─────┘                                                       │
└─────────────────────────────────────────────────────────────────┘
```

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

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   │  │
│   └──┘    └─────┘  └──────┘  └──────────┘  └──────────┘  └─────────┘  │
│                                                                       │
│                                                                       │
│                                                                       │
│                                                  ▷                    │
│                                                                       │
└─────────────────────────────────────────────────────────────────────┘
```

4. TeamTalk TaitNet - 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 Identity:	Dialing Scheme	MPT1343
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
Call Options:	Call Queuing	Unanswered
	Unanswered Call Timer	10 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

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**

TRUNKED CHANNEL BLOCKS
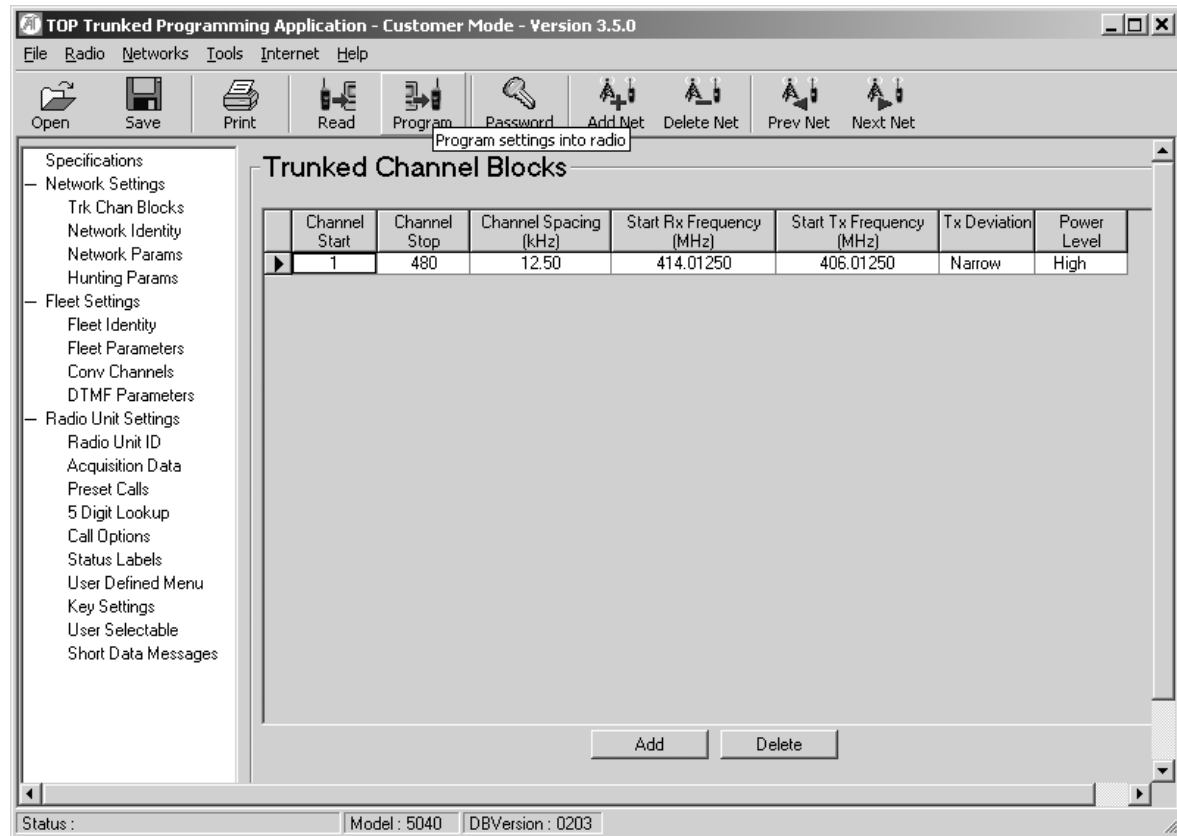
TOP Trunked Programming Application - Customer Mode - Version 3.5.0

File Radio Networks Tools Internet Help

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

Program settings into radio

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
    Acquisition Data
    Preset Calls
    5 Digit Lookup
    Call Options
    Status Labels
    User Defined Menu
    Key Settings
    User Selectable
    Short Data Messages

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

Add   Delete

Status :   Model : 5040   DBVersion : 0203
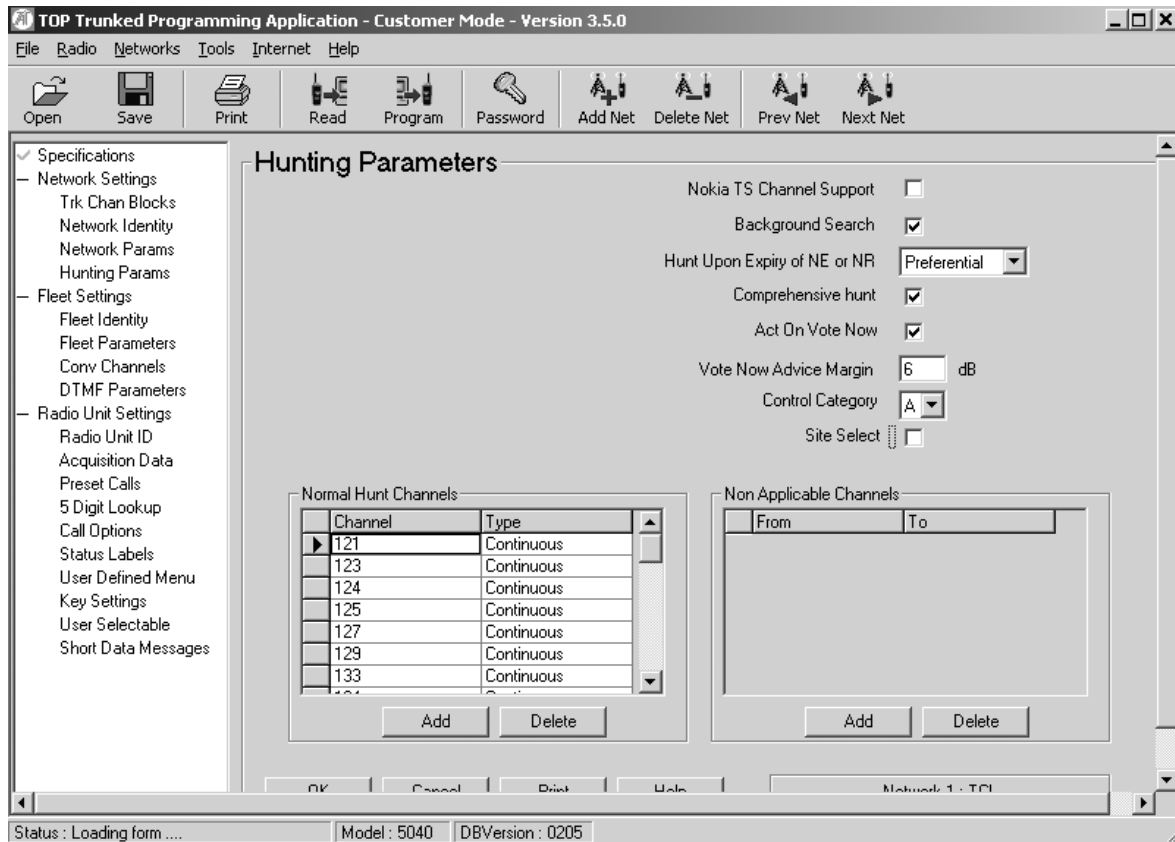
NETWORK IDENTITY

NETWORK PARAMETERS

HUNTING PARAMETERS

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

ACQUISITION DATA
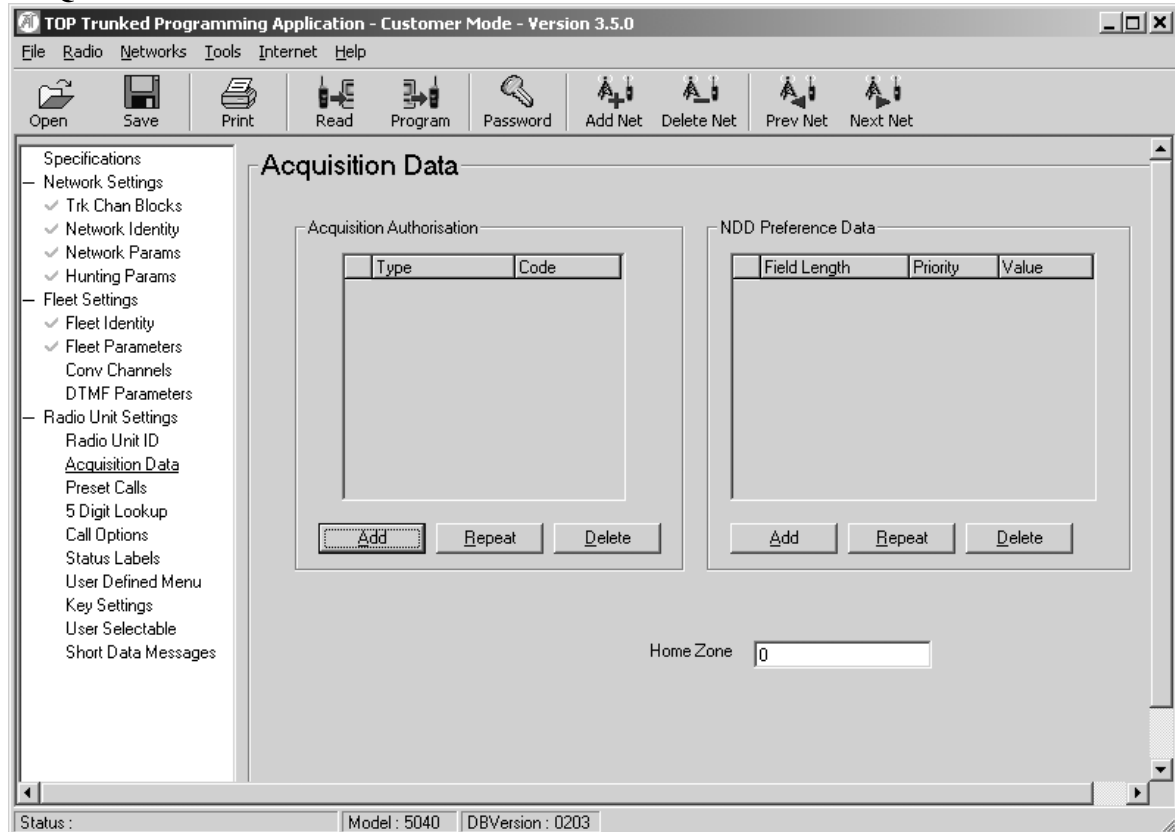
5. Summary of TeamTalk TaitNet Parameters

TeamTalk TaitNet Network Parameters 21 May 2001						
For Tait Radios						
Variable Name		Mobile	Portable			
NC1	CONTIN	20	20		Lowest Chan	1
NC2	CONTIN	15	15		Highest Chan	480
NX1	CONTIN	15	15			
NX2	CONTIN	10	10			
NZ1		1	1	Comprehensive hunt		On
NZ2		3	3	Background Hunt		On
ND1		3	3			
ND2		5	5	Network type		National
NE		16	16	Network ID		0
NI		4	4	Dialing 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

6. 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)

Economiser: 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.

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.

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.

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

Auto Register at Power On: This field needs to be **Enabled.**

This will force the radio to register onto the system every time the radio is switched on. This eliminates the need to hold the PTT in while turning on to force the radio to register onto the system

Unit Identity Page:	**Control Category**	**A**
Unit Preset Calls:	**TeamTalk Helpdesk 202,2001,200**	**Number 9**
Unit Dialing Facilities:	**Data Calls**	**Enabled**
	ALLI calls	**Disabled**
	Network Operator Service Calls	**Disabled**
	Technician Calls	**Disabled**
Unit Miscellaneous Controls:	**Single Press PTT Call**	**Enabled**
	Join Busy Group	**Enabled**
Own Fleet Parameters:	**Dialing Scheme**	**MPT1343**
	Full Off Air Call Set up	**Allowed**
	Default Call time limit	**0 Secs**
	Default Emergency Call time limit	**0 Secs**
	Default Data Call time limit	**180 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 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

NETWORK SETTINGS - NETWORK IDENTITY

NETWORK SETTINGS - NETWORK PARAMETERS

NETWORK SETTINGS - 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

FLEET SETTINGS - FLEET PARAMETERS

RADIO UNIT - DATA PARAMETERS

7. TeamTalk ActionNet - T3000 Handportables

Unit Identity Page:	**Control Category**	**A**
	Call Queuing	**Unanswered**
Unit Preset Calls	**TeamTalk Help Desk 2022001200**	**Number 9**
Unit Dialing Facilities	**ALLI Calls**	**Disabled**
	Network Operator Service Calls	**Disabled**
	Technician Calls	**Disabled**
Own Fleet Identity:	**Dialing 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 ──────────────────┬─┐
│▬│                                                                      │▲│
├─┴──────────────────────────────────────────────────────────────────────┤
│ Print                                                                    │
│                                                                          │
│   ┌─ Acquisition Authorisation ──┐    ┌─── NDD Preference Data ──────┐  │
│   │   (maximum of 8 definitions)  │    │   (maximum of 4 definitions) │  │
│   │      Type        Code         │    │ Field Length   Priority  Value│ │
│   │  ┌──────┬──┐  ┌──┐            │    │   ┌──┐        ┌──┐     ┌──┐   │ │
│   │  │ ▐▌   │▼ │  │! │            │    │   │! │        │! │     │! │   │ │
│   │  └──────┴──┘  └──┘            │    │   └──┘        └──┘     └──┘   │ │
│   │                               │    │                              │  │
│   │                               │    └──────────────────────────────┘  │
│   │                               │                                       │
│   │                               │                                       │
│   └───────────────────────────────┘                                       │
│        Home Zone       ┌────┐                                             │
│                        │ 0  │                                             │
│                        └────┘                                   �k         │
│                                                                           │
└───────────────────────────────────────────────────────────────────────────┘
```

NETWORK IDENTITY

```
┌─┬────────────────────────── Network - Identity ──────────────────────┬─┐
│▬│                                                                      │▲│
├─┴──────────────────────────────────────────────────────────────────────┤
│ Print                                                                    │
│                                                                          │
│   Network Type                          ┌──────────────┐                │
│                                         │   National   │                │
│   Network Identity Code                 ┌──────────┐                    │
│                                         │ 1        │                    │
│   SYNC Sequence                         │ C4D7     │                    │
│   Area Field Length (LA)                │ 6        │                    │
│   Zone Field Length (LZ)                │ 3        │                    │
│   SIL  Field Length (LSIL)              │ 9        │                    │
│                                                                          │
│   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         [ 10 ]       [ 10 ]         NZ1      [ 1 ]                    │
│  NC2         [ 21 ]       [ 21 ]         NZ2      [ 6 ]                    │
│  NV          [ 1 ]        [ 1 ]          TS       [ 5 ]    seconds         │
│  NX1         [ 2 ]        [ 2 ]                                            │
│  NX2         [ 5 ]        [ 5 ]                                            │
│                                                                           │
│                                                                           │
│  (2) Signalling Parameters                                                │
│  NW      [ 4 ]          TC   [ 60 ] seconds     TA   [ 30 ] seconds       │
│  ND1     [ 3 ]          TD   [ 10 ] minutes     TB   [ 2 ]  seconds       │
│  ND2     [ 5 ]          TJ   [ 20 ] seconds     TP   [ 5 ]  seconds       │
│  NE      [ 16 ]         TN   [ 7 ]  seconds     TW   [ 60 ] seconds       │
│  NR      [ 8 ]          TT   [ 60 ] seconds                               │
│                                                                           │
│  Background Search Sequence Parameters                                    │
│  TL      [ 70 ] seconds     LM1  [ 6 ] dB                  ▷              │
│  TH      [ 2 ]  Slots       LM2  [ 6 ] dB                                 │
│  NS      [ 2 ]              LM3  [ 6 ] dB                                  │
│                                                                           │
└─────────────────────────────────────────────────────────────────────────┘
```

NETWORK PARAMETERS

```
┌─────────────────────────────────────────────────────────────────────────┐
│ ■                    Network - Hunt Parameters                    ▲       │
│  Print                                                                    │
│                                                                           │
│                                                                           │
│      Nokia TS Channel Support              ┌──────────────────┐           │
│                                            │     Disabled     │           │
│      Background Hunt                        ├──────────────────┤          │
│                                            │     Enabled      │           │
│                                                                           │
│      Hunt Upon Expiry of NE or NR          ┌──────────────────┐           │
│                                            │   Preferential   │           │
│      Comprehensive Hunt                     ├──────────────────┤          │
│                                            │     Disabled     │           │
│                                                                           │
│      Act On Vote Now                       ┌──────────────────┐           │
│                                            │     Enabled      │           │
│      Vote Now Advice Margin                 │ 6 │       dB               │
│    ┌───────────────────────────────┐     ┌────────────────────────────┐  │
│    │    Normal Hunt Channels       │     │  Non Applicable Channels   │  │
│    │  (Maximum of 32 channels)     │     │  (Maximum of 10 blocks)    │  │
│    │    Channel      Type          │     │     From         To        │  │
│    └───────────────────────────────┘     └────────────────────────────┘  │
│      ┌──────┐  ┌───────────────┐ ▲         ┌────┐       ┌────┐             │
│      │  22  │  │  Continuous   │            │ !  │       │ !  │             │
│      │  26  │  │  Continuous   │                                          │
│      │  28  │  │  Continuous   │                                          │
│      │  36  │  │  Continuous   │                                          │
│      │  37  │  │  Continuous   │                                          │
│      │  38  │  │  Continuous   │                                          │
│      │  39  │  │  Continuous   │                                          │
│      │ 122  │  │               │ ▼                                        │
└─────────────────────────────────────────────────────────────────────────┘
```

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             │  │
│   │                                                                   │  │
│   │   Start  Stop      Spacing   Frequency     Frequency     Power    │  │
│   │                      KHz        MHz           MHz                 │  │
│   └─────────────────────────────────────────────────────────────────┘  │
│   ┌─────────────────────────────────────────────────────────────────┐  │
│   │ ┌───┐  ┌─────┐   ┌──────┐  ┌─────────┐  ┌─────────┐  ┌─────────┐  │ ◁│
│   │ │ 1 │  │ 480 │   │ 12.50│  │414.01250│  │406.01250│  │  High   │  │  │
│   │ └───┘  └─────┘   └──────┘  └─────────┘  └─────────┘  └─────────┘  │  │
│   │                                                                   │  │
│   │                                                                   │  │
│   │                                                                   │  │
│   │                                                                   │  │
│   │                                                                   │  │
│   │                                                                   │  │
│   │                                                                   │  │
│   │                                                                   │  │
│   │                                                                   │  │
│   └─────────────────────────────────────────────────────────────────┘  │
│                                                                         │
└─────────────────────────────────────────────────────────────────────────┘
```

8. 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:	**Dialing 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**

TRUNKED CHANNEL BLOCKS

NETWORK IDENTITY

NETWORK PARAMETERS

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

ACQUISITION DATA
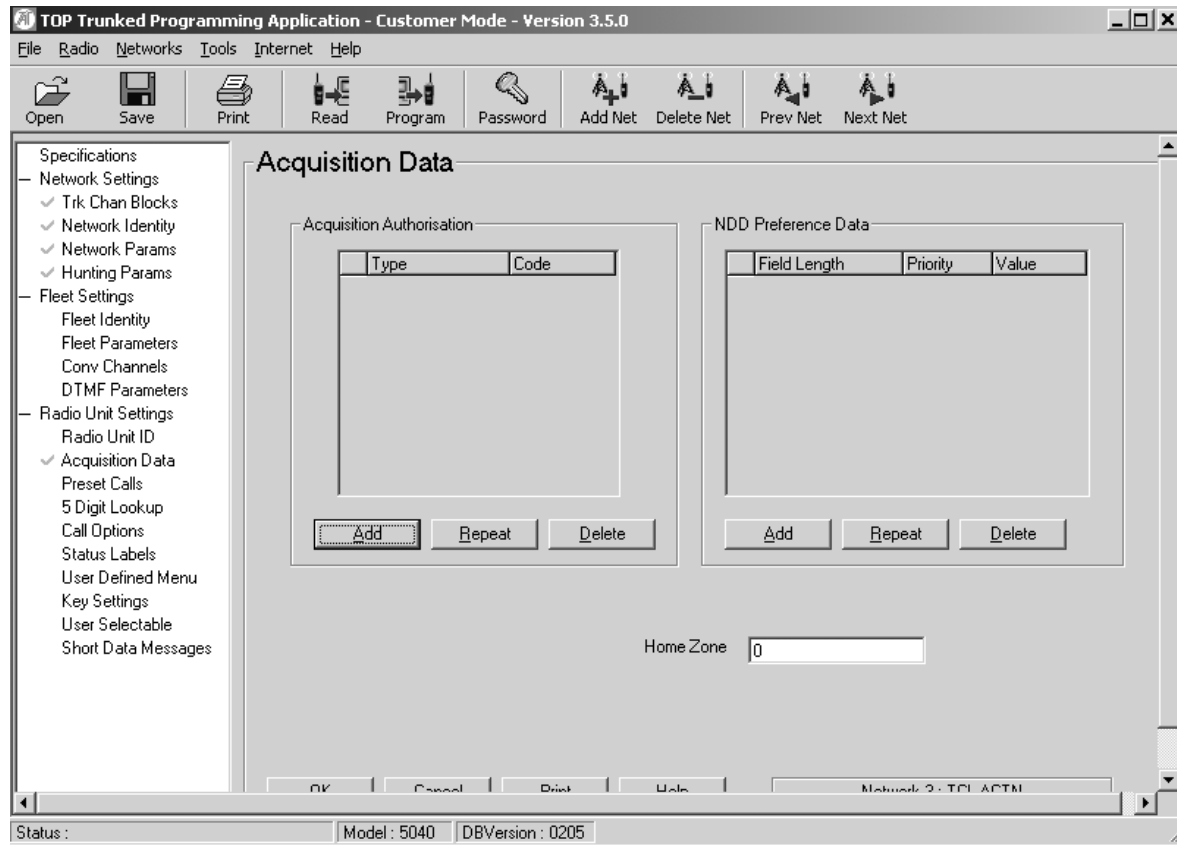
9. Summary of TeamTalk ActionNet Parameters

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 <u>COMPREHENSIVE HUNT TURNED ON</u> TO STOP RADIOS LOGGING OFF WHEN THEY CAN NOT FIND A SITE IN THE NORMAL HUNT LIST

10. Other Equipment Manufactures Summary

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	Dialing 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	*Freq Range start channel 1*		
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			

TeamTalk TaitNet Network Parameters 21 May 2001
For other Manufactures Equipment

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