

www.thalesliberty.com

Thales Liberty™ Multiband Land Mobile Radio (LMR)

2012 Overview

THALES







Thales Communications

"MADE IN THE USA"

Designed, Manufactured, and Supported at our Factory in Clarksburg, Maryland

Engineering

- Electrical, mechanical, and software engineering ensures integrated design
- On-site model shop for quick prototyping

Manufacturing

- Complete robotics-type factory
- Customer Support
 - Technical support free to all product users
 - Full warranty and repair facility
 - Stay up-to-date with free manuals and firmware on www.thalescomminc.com



CMMI Level 3 ISO 9001:2008



Field-proven Thales 25 VHF conventional radio

- First Project 25 radio to receive DOI Fire approval
- DOI's most rugged and immersible VHF portable radio
- Customers include mostly Federal Agencies NIFC, BLM, USFWS, USMS, and NPS amongst others
- Liberty[™] Multiband Land Mobile Radio (LMR) portable radio
 - Merges multiband experience (AN/PRC-148) and LMR experience (Thales 25) into a single radio optimized for Public Safety Interoperability





Thales 25



Liberty LMR





Existing solutions did not work for:

- Oklahoma City Bombing
- World Trade Center 9/11/2001
- Hurricane Katrina
- Minnesota Bridge Collapse (I-35W)
- Everyday communications with nearby agencies



Interoperability issues caused by First Responders' radios operating on:

- Different frequency bands: VHF, UHF, 700/800 MHz
- Different modes: Legacy analog. Project 25 digital, trunking and conventional



The Root Cause for Interoperability Issues Remains the Same......Multiple Users in Different Frequency Bands Using Different Waveforms

| Frequency | 136 - | 380 - | 402 - | 450 - | 700 | 800 | Analog | Project | Future |
|-----------|-------|-------|-------|-------|-----|-----|--------|---------|--------|
| Bands | 174 | 400 | 420 | 512 | MHz | MHz | FM | 25 | ??? |
| Waveforms | MHz | MHz | MHz | MHz | | | | | |

| Federal Agencies | | |
|----------------------------|--|--|
| State and Local Government | | |
| DoD LMR | | |



Liberty Multiband LMR Portable Radio

Liberty Capabilities

Multiband full coverage in DoD and Public Safety frequency bands

- VHF: 136-174 MHz
- UHF: 380-520 MHz
- 700 MHz
- 800 MHz

Multi-Mode

- Project 25 conventional and trunking
- Full encryption AES/OFB-DES with OTAR
- Legacy analog 25/12.5 kHz channel spacing
- CTCSS/CDCSS/DTMF/MDC 1200



Interoperability in the palm of your hand



Specifications and Capacities

Single band radio performance across all bands

Specifications: Assured reliable communications

- Project 25 Class A specs across all bands
- Analog Class A specs across all bands
- Trunked systems protected by hardware system key

• Environmental Specs: Tough radio for a tough mission

• Full MIL-SPEC metal housing submersible to 2 meters

Capacities: Facilitate wide area roaming

- 30 trunking / conventional systems
- 2608 channels / talkgroups any combination
- 175 zones (groups of 16 channels)
- 10 banks (groups of zones)
- Encryption keys 64, any combination

Reliable communications ... region-wide/nation-wide



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Project 25 Certifications

Certifications

Performance / Emissions

- FCC Part 15 / 90 : FCC ID: OKC-4102023501
- Industry Canada (IC) ID: 473C-4102023501

Project 25 Compliance – P25 CAP Testing

- Trunking Interoperability
 - Motorola, Harris, Cassidian (EADS), Raytheon, Tait
- Performance: P25 Performance CAP test TIMCO Labs
- Factory Mutual Intrinsic Safe: FM Labs
- DoD J/F-12 Certified
- NTIA Redbook Approval



Tested P25 interoperability with multiple infrastructure providers



Tough Aluminum Case

 Designed to stand up to harsh operating environments

Rugged – Meets MIL-STD 810 C/D/E/F

High reliability = Fewer repairs

Immersible – IP68 to 2 Meters

No worries if it gets wet in rain or fighting fires



Tough Mission . . . Tough Radio!



Same HMI and feature set that users expect in a traditional single-band LMR

- Software can be customized for individual user needs
 - Simple 3 channel radio:
 - Channel 1: VHF P25 digital encrypted
 - Channel 2: UHF conventional analog
 - Channel 3: 800 MHz P25 trunked talkgroup
 - 2600 channel nationwide roaming configuration with custom banks for each region
 - Each bank contains multiple: Trunking system IDs, encryption keys, conventional repeater channels
- Scan across all bands with custom Scan-Lists
- Multi-mode receive with Talk-Back

Simplicity is the ultimate sophistication



THALE

You can set transmit to VHF and receive to UHF or any other frequency band for a single channel

Defeats local scanners

RF power adjustable down to 0.1W

• SWAT team operations free of interference or detection

Single button covert mode

• Immediately disables all tones, lights, LEDs for surveillance

Color coded channel/TG and zone display

• Quick status recognition in high stress situations

Password protection enables/prohibits access

- Radio Lock, Keypad Lock, Softkey disable
- Keypad programming allowed on a per channel basis



HAL

The secret is in the software

Liberty Radio Controls and Displays





Easy Access "Cell Phone" Menu Structure

| <th></th> | |
|--|--|
| BANKS: ZONES: CHAN LIST: TONES: | Bank01 VHF - PERF 174AN *No Tone* |
| EXIT | |

| CHANNEL 155D | | | | | | | | | | |
|-----------------|------------|--|--|--|--|--|--|--|--|--|
| MULTI-MODE | NORMAL | | | | | | | | | |
| DISPLAY | NORMAL | | | | | | | | | |
| | | | | | | | | | | |
| TYPE | P25 | | | | | | | | | |
| RX FREQ | 155.000000 | | | | | | | | | |
| TX FREQ | 155.000000 | | | | | | | | | |
| RXSQMOD | SELECTIVE | | | | | | | | | |
| RX NAC | 293 | | | | | | | | | |
| TX NAC | 293 | | | | | | | | | |
| RX TG | 00001 | | | | | | | | | |
| TX TG | 00001 | | | | | | | | | |
| EXIT | SAVE BKSP | | | | | | | | | |

| GL | OBALS | < |
|--|--|---|
| TX INHIBIT BACKLIGHT CHANNEL: KEYPAD: ALERTS: FONT SIZE DATE: TIME: | ALWAYS ON NAME SILENT AUDIBLE | |
| EXIT | | |

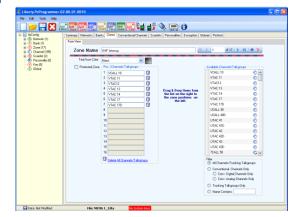
| 0 | | |
|---|------------|---------------|
| | UT | ILITY |
| Ŧ | RADIO | 010049 |
| + | SW VerSW | 00.00.14.0347 |
| + | FEATURES | |
| + | TRANSCEIVE | ER |
| + | BASEBAND | |
| + | KEYPAD | GGGGGGGG |
| | ELAPSED TI | ME |
| | 28 hr: 0 i | min |
| | SUPPORT | |
| | 1-800-91 | 4-0303 |
| | | |
| | EXIT | |

| LO PWR | 1.0W |
|-----------|-------------|
| HI PWR: | 5.0W |
| SCANLIST | Scanlist001 |
| AUTOSCAN | OFF |
| TLKRND | ON |
| TONE PICK | OFF |
| SECURE | SELECT |
| KEY | None |
| | |
| | |
| | |
| EXIT | SAVE |



PC Programmer

- Minimal training required
- Channel programming information all on one screen
- Drag-and-drop channel assignments to zones
- Firmware and feature upgrades
- Excel inport/export
- Built to last
 - High reliability = Fewer repairs
- Stable performance alignments
 - Less time aligning radios = more time to get other things done







Cache Radio Features and Benefits

Perfect radio for cache

- Will support any standard P25 or analog FM radio system
- Front panel programming (conventional) channels only)
 - Enables rapid programming without the need for a PC or AC power
- All mutual aid channels to be pre-loaded
 - Deployed cache radios work right out of the box
- Radio-to-radio cloning
 - Allows new channel sharing without a PC
- Deploy quickly and hand out radios
- **Operate with or without infrastructure**







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THALE

Example – Tornado response

April 2010 – Massive tornado ravages Tuscaloosa, AL

- City of Tuscaloosa VHF
- Outside Agencies responding 800 MHz trunked
 - University of Alabama has Liberty radio.
 - Help from Illinois arrives with 800 MHz radios.
 - Liberty radio front panel programmed with 800 MHz mutual aid channels already programmed in Illinois radios.
 - Communications bridge set up in minutes no infrastructure required.

SOLUTION – Instant communications with out-of-town responders

THALES

Law Enforcement and Fire Features

Fire

Loud audio

• Hear the radio over engines and other fire noise

Loud speaker mic with large PTT

• Find the PTT when you need to most

Rugged and immersible

• Not damaged in harsh fire conditions

Law Enforcement

- Encryption 256-bit multi-key AES and OFB DES with P25 OTAR
 - Secure comms with easy key delivery over the air
- Manual key load from KVL 3000/4000
- Audio adapter with 6-pin Hirose
 - Use existing surveillance kits and audio accessories





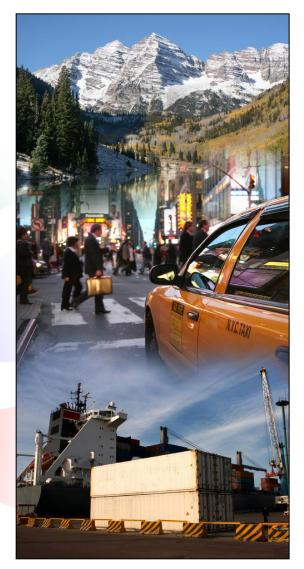


Best Band for Propagation

Take full advantage of mutual aid channels in all bands 136-869 MHz

- Choose the band with best RF performance for your application:
 - UHF for urban settings, container inspections
 - VHF for superior performance in rural, forests, and parks







- Seamless interoperability link for legacy conventional users and Federal agencies to State-wide/ Region-wide Project 25 trunking networks
- Trunking system users can have direct connect channels to legacy conventional systems that have not joined the trunking system.







Liberty Accessories

Full Public Safety Line of Accessories ...



- Standard Rechargeable Lithium-lon Battery
- Also available: High Capacity; Intrinsic Safe



AA Clamshell
12 AA Alkaline Cells



- Basic Single Slot Lithium-Ion Rechargeable Battery Charger
 - 120 V AC power



- Mobile Lithium-Ion Rechargeable Battery Charger
 - 12 V DC power; built to NFPA retention specifications



- Advanced Desktop/ Vehicle DC Lithium-Ion Charger Kit
 - Faster charge time; 120 V AC power for desktop use; 12 V DC adapter for vehicle charging; battery gauge charge status



Full Public Safety Line of Accessories ...



- Advanced 6-Slot Lithium-Ion Rechargeable Battery Charger
 - 120 V AC; faster charge time; battery gauge charge status



- Ruggedized Speaker Microphone
 - High temperature speaker, balanced audio, PTT switch, emergency button; also available: Intrinsic Safe



- Speaker Microphone
 - Balanced audio, PTT switch; emergency button; also available: Intrinsic Safe



- Audio/Programming
 Side Connector Adapter
 - Includes 6-pin Hirose connector for audio and keyfill, and USB for programming, cloning, and data transfer; universal connector for interfacing to the radio

THALES

Future Thales Liberty LMR Portable Features and Accessories

- Planned Software Releases
 - Continued firmware enhancements (free upgrades)
 - GPS
 - Data modes
 - P25 OTAP
 - Project 25 Phase 2

Accessories

- Bluetooth sidemate headsets / data / speaker mics
- Remote speaker/mic display and knob control





PC Programmer – Single Purchase Provides License

• No need to purchase multiple copies of software

Industry Standard Cables – Lowers Costs

- COTS USB cables connects to Side Adapter for programming
- Hirose 6-pin connector eliminates need to buy many new accessories

Free Upgrades for the Life of the Radio

- No subscription fees required
- Radio has Standard 3-year Warranty
 - Extendable to 5 years
 - Since it is rugged and waterproof, almost everything is covered
 - All accessories have 1-year warranty

a is covered

HALE

Predictable costs make budget planning easier



Our Customer Support Commitment to You

Customer Support Website: www.thalescomminc.com

- Free software updates for life of radio
- Free updates for radio and PC Programmer software
- Free updated manuals



Customer Support Call Center: 1-800-914-0303

- 24/7 Call Center availability
- Contact information on website
- Technical assistance
- Repairs and warranty service
- Sales
- Calls routed for fastest assistance



Conclusion

The Thales Liberty Multiband radio is the right interoperability solution for Federal, State, and **Local agencies**

- Creates flexible/deployable Interoperability between State and Local Government First Responders, and Federal Agencies
- A true Public Safety Grade LMR portable with P25 Trunking and Conventional, AES Encryption (OTAR) and legacy analog operation
- Allows use in all 3 Public Safety frequency bands including VHF, UHF, 700/800 MHz
- <u>P25 open standard</u>: No proprietary modes or features
- Free software upgrades for the life of the product: Lower Product Life Cycle Cost
- Easy to use: PC programmer and radio keypad interface

Liberty demo radios available today





ΤΗΛΙΕ

Contact Us

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DACOM

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Tough Mission ... Tough Radio!



Add Add Bank Zone

Summary

Add Add Add View Scan Pers Lev Global

File Edit Tools Help

■ ItyConfig (N) Network (0)



PcProgrammer

Easy to navigate format

Can create a codeplug from scratch No need to read a radio first

| Bank (0) Zone (0) Channel (0) Scanlist (0) Personality (0) Global | <u>Open an</u> | Next Steps e a new Configuration file existing Configuration file. paration data from Liberty radio | | Can No |
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| 🖃 📘 ItyConfig | ^ | Summary Networks Banks Z | ones Conventional Channels | Scanlists Personal | ties Secure Settings | Globals | Picklists | |
| Network (1) | | | | | | | | |
| Network001 | | | | | | | | |
| 🖻 🖲 Bank (1) | | | | | | | | |
| -(B) NIFOG 1_4 | | | | | | | | |
| 🖃 🔁 Zone (19) | | | | | | | | |
| Z VHF INTEROP | | | | | | | | |
| UHF INTEROP | | | | | | | | |
| 2 700 INTEROP 1 | | | | | | | | |
| 700 INTEROP 2 | | | | | | | | |
| Z 700 COMMON 1 | | | | | | | | |
| 2 700 COMMON 2 | | | | | This configuration | Contains | | 6 |
| 2 800 MHz REB | | | | 1 Networ | - | | | |
| 2 800 MHz PRE-REB | | | | TNEWOF | < | Auuai | new Network | |
| Z VHF IR | | | | 1 Bank | | Add a | new Bank | |
| Z UHF IR | | | | I Ddfik | | Aug al | | |
| Z VHF LE | | | | 19 Zones | | e bhA | new Zone | |
| (Z) UHF LE | | | | 10 20100 | | <u>Had a</u> | | |
| ARINE | | | | 214 Char | nels | Add a i | new Channel | |
| - Z VHF W MUT AID | | | | | | | | |
| - Z VHF N MUT AID | | | | 1 Scanlis | | Add a i | new Scanlist | |
| (Z) UHF MED WB | | | | | | | | |
| (Z) UHF MED NB1 | | | | 0 Person | alities | Add a i | new Personality | |
| (Z) UHF MED NB 2 | | | | | | | | |
| Z WEATHER | | | | | | | | |
| 🖃 🤇 Channel (214) | | | | | | | | |
| C VCALL10 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| C VTAC13 | | | | | | | | |
| C VTAC14 | | | | | | | | |
| | | | | | | | | |
| C VTAC34 | | | | | | | | |
| C VTAC35 | | | | | | | | |
| C VTAC36 | | | | | | | | |
| C VTAC37 | | | | | | | | |
| C VTAC38 | | | | | | | | |
| C VTAC17 | | | | | | | | |
| VTAC17D | | | | | | | | |
| C UCALL40 | | | | | | | | |
| C UCALL40 | | | | | | | | |
| UTAC41 | | | | | | | | |
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| | - | 🖥 Data: Not Modified | System Key Found | File: NIFOG 1_4_F | 2.lty | | | |
| | | | | | | | | |

PcProgrammer

Summary Screen:

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Quick overview of codeplug

Tree view allows you direct access to any codeplug element





| Liberty PcProgrammer-06.00.00.0042 | |
|------------------------------------|--|
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| Ξ | 🧮 ItyConfig | Summary | Networks | Banks Z | ones | Conventional Char | nnels Sc | anlists | Personalities | Secure Settings | Globals | Picklists |
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| | 😑 🕦 Network (1) | Form Vi | | | | | | | | | | |
| | Mutual Aid | | | | | | | | | | | |
| | ■ 10 Bank (1) | Net | work Na | ame | | | | | | | | |
| | B NIFOG 1_4 | Mutu | ial Aid | | | | | | I | 1 | of 1 🗼 |) I |
| | Zone (19) Zone (19) VHF INTEROP | Netw | ork | | _ | | _ | | | | _ | |
| | 2 UHF INTEROP | | pabilities | V Convent | tional | 🔽 Trunking 🛛 🔽 | OTAR | | | | | TimeOut T |
| | 700 INTEROP 1 | - Paran | neters | | | | | | | | | |
| | 2 700 INTEROP 2 | | | Fermilian i on | T I D | | | | | | | |
| | -2 700 COMMON 1 | Lon | ventional | [runking] 01 | | | | | | | | |
| | Z 700 COMMON 2 2 800 MHz REB | WA | CN ID (Hex |) 1 | * | Console Patch K | | | * | | | |
| | Z 800 MHz PRE-REB | Sys | tem ID (Hex |) 1 | * | Lonsole Match N | vey inone | e | × | | | |
| | - Z VHF IR | B | SS ID (Hex | 1 | A V | | | | | | | |
| | UHF IR | | | | | | | | | | | |
| | VHF LE | l | Jnit ID (Dec |] | × | | | | | | | |
| | | Sys | . Modulation | n Simulcast | t 🗸 | | | | | | | |
| | -(Z) MARINE -(Z) VHF W MUT AID | | | | | | | | | | | |
| | (z) VHF N MUT AID | | | | | | | | | | | |
| | (Z) UHF MED WB | Co | ntrol Channe | el List Chan | nel Ide | ntifier List Site Lis | st 🛛 Full Sp | pectrum S | Scan | | | |
| | (Z) UHF MED NB1 | | 4 4 1 | 0 of 1 | lo I 🕨 |) + X | | | | | | |
| | Z UHF MED NB 2 | | | _ | 1. | | | | | F 0.01.) | | |
| | Z WEATHER | | _ | Freq (MHz) | | | | | | (Freq (MHz) | | |
| | 🖃 🔘 Channel (214) | | 01 136 | 6.000000 | | | | | 13 | 7.000000 | | |
| | C VCALL10 C VTAC11 | | 02 136 | 6.000000 | | | | | 13 | 7.000000 | | |
| | VTAC12 | | 03 136 | 6.000000 | | | | | 13 | 7.000000 | | |
| | C VTAC13 | | 04 136 | 6.000000 | | | | | 13 | 7.000000 | | |
| | C VTAC14 C VTAC33 | | 05 136 | 6.000000 | | | | | 13 | 7.000000 | | |
| | -C VTAC34 | | 06 13 | 6.000000 | | | | | 13 | 7.000000 | | |
| | C VTAC35 | | 07 136 | 6.000000 | | | | | 13 | 7.000000 | | |
| | -C VTAC36 -C VTAC37 | | 08 136 | 6.000000 | | | | | 13 | 7.000000 | | |
| | C VTAC37 | | 09 136 | 6.000000 | | | | | 13 | 7.000000 | | |
| | C VTAC17 | | | | | | | | | | | |
| | -Č VTAC17D | | | | | | | | | | | |
| | -Ō UCALL40 | | | | | | | | | | | |
| | C UCALL40D | | | | | | | | | | | |
| | C UTAC41 | | | | | | | | | | | |

🔚 Data: Modified

File: NIFOG 1_4_R2.lty

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TimeOut Timer (Secs) 60

-Roaming

Inter WACN Roaming Intra WACN Roaming Inter RFSS Roaming V Full Spectrum Scan

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PcProgrammer

Network Screen:

Easy access and entry of both conventional and trunked system information in one place.

Touch to see Trunking Tab

Touch to see Conventional Tab



System Key Found



| H | lihorty | DeDrog | rammer-0 | 6 00 | 00.0 | 14.1 |
|----|---------|--------|------------|------|-------|------|
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| - Ň Mutual Aid | | I |
| 🖻 📵 Bank (1) | | Bank |
| - (B) NIFOG 1_4 | | NIFOG |
| 🖃 😰 Zone (19) | | |
| VHF INTEROP | | 🗹 🗹 Defa |
| UHF INTEROP | | |
| 2 700 INTEROP 1 | | - Special |
| 2 700 INTEROP 2 | | Llaws |
| 2 700 COMMON 1 | | Home |
| 2 700 COMMON 2 | | |
| Z 800 MHz REB | | |
| 800 MHz PRE-REB | | |
| VHF IR | | |
| | | |
| VHF LE | | |
| | | |
| - Z MARINE | | |
| VHF W MUT AID | | |
| VHF N MUT AID | | |
| (Z) UHF MED WB | | |
| UHF MED NB1 UHF MED NB 2 | | |
| Z WEATHER | | |
| E C Channel (214) | | |
| C VCALL10 | | |
| C VTAC11 | | |
| VTAC12 | | |
| VTAC13 | | |
| VTAC14 | | |
| VTAC33 | | |
| C VTAC34 | | |
| -C VTAC35 | | |
| C VTAC36 | | |
| - C VTAC37 | | |
| VTAC38 | | |
| C VTAC17 | | |
| C VTAC17D | | |
| C UCALL40 | | |
| C UCALL40D | | |
| C UTAC41 | | |
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|) Aid | Summary Networks Banks Zones Conventional Channels Scanlists Personalities Secure Settings Globals Picklists Form View Bank Name |
|-------------------|---|
| 1_4 | NFOG 1_4 Use Default Y |
| 1_4 | Bank Name NF0G1_4 Image: Default Bank Special Channels Home Cores in this Bank - 19 WHF IN TEROP WHF IN MUT AD UHF IN TEROP UHF INTEROP TOO INTEROP 1 TOO INTEROP 2 TOO INTEROP 2 |
| .40 .40D #1 | |
| 11n 💌 | Data: Modified System Very Found File: NTFOG 1 4, 82 lty |



Bank Screen:

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The use of Banks allow greater flexibility in navigation of up to 175 Zones and 2608 Channels

Up to 10 banks

Each bank can have it's own Home Channel





| | liborty | Debrog | rammer | .06.0 | 0 00 | 0040 |
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Add Add Add Add Add Add Pers Add View Add I was a long to the second terms of terms

| 🖃 🛅 ItyConfig | ^ | Summary Networks | Banks 4 | Zones | Conventional Channe | els Scanlist | s Personalities Secure Se | ttings | Globals Picklists | | |
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| 🖃 Ň Network (1) | | Form View | | | | | | | | | |
| -N Mutual Aid | | | | | | | | | | | |
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| | | VHF INTEROP | | | | | I (1 | of 19 |) 🕨 👌 🖓 | Use Default | - X |
| (Z) VHF INTEROP | | | | _ | | | | _ | | | |
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| (z) 700 INTEROP 1 | - | Protected | 7 | | hannels/Talkgroups | | | | Available Channels/T | alkarauna | |
| (Z) 700 INTEROP 2 | | | | | | - | | 6 | VCALL10 | | |
| - (2) 700 COMMON 1 | | | 1 | 100 | ALL10 | Û | | | | 6 | 0 |
| -(Z) 700 COMMON 2 | | | 2 | VT/ | AC11 | Û | | | VTAC11 | | |
| 2 800 MHz REB | | | 3 | VT/ | AC12 | 0 | | | VTAC12 | | Ð |
| 2 800 MHz PRE-REB | | | 4 | VT/ | AC13 | 0 | Drag & Drop Items fro | | VTAC13 | (| 9 |
| -(z) VHF IR -(z) UHF IR | | | 5 | i VTA | \C14 | 0 | the list on the right to | | VTAC14 | (| 0 |
| | | | e | | \C17 | ŏ | the zone positions or | ۱ | VTAC33 | | 9 |
| | | | 7 | | AC17D | ŏ | the left. | | VTAC34 | | 9 |
| Z MARINE | | | 8 | 110 | | Ŭ | | | VTAC35 | | 0 |
| - 🗵 VHF W MUT AID | | | | 110 | AC33 | | | | VTAC36 | | 5 |
| - Z VHF N MUT AID | | | 9 | 110 | \C34 | Û | | | | | |
| UHF MED WB | | | | 0 VTA | | Û | | | VTAC37 | | 9 |
| (2) UHF MED NB1 (2) UHF MED NB 2 | | | | 1 VT/ | | Û | | | VTAC38 | (| |
| (Z) WEATHER | | | 1 | 2 VT/ | AC37 | 0 | | | VTAC17 | | Ð |
| □ Channel (214) | | | 1 | 3 VTA | \C38 | Û | | | VTAC17D | (| D |
| C VCALL10 | | | 1 | 4 | | | | | UCALL40 | (| 9 |
| - C VTAC11 | | | 1 | 5 | | | | | UCALL40D | (| Ð |
| C VTAC12 | | | 1 | 6 | | | | | UTAC41 | | |
| C VTAC13 | | | 6 | <u> </u> | | | | L | Filter | | |
| C VTAC14 C VTAC33 | | | C | Dele | ete All Channels/Talkgr | oups | | | Network All | 1 | |
| C VTAC33 | | | | | | | | | | | |
| C VTAC35 | | | | | | | | | All Channels/Tru | | 3 |
| VTAC36 | | | | | | | | | Conventional Ch | | |
| C VTAC37 | | | | | | | | | 🔘 Conv. Digita | | |
| -C VTAC38 | | | | | | | | | Conv. Analo | | |
| C VTAC17 | | | | | | | | | Trunking Talkgro | oups Unly | _ |
| C VTAC17D | | | | | | | | | 🔘 Name Contains | | |
| -C UCALL40 -C UCALL40D | | | | | | | | | | | |
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| | - | 🖥 Data: Modified | | Syste | m Key Found | File: NIFO |)G 1_4_R2.lty | | | | |



Liberty Multiband Portable



Zone Screen:

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Up to 175 Zones of 16 Channels

Easy drag and drop from Channel list to Zone

Channel list can be filtered to allow easy location of channels

THALES

E Province Chan Add Add Add Add Add Add Add Add Contraction and Chan Add Add Add Contraction and Chan Add Contraction and Cont

| O Week 11 O Ward Ad | 🖃 🧮 ItyConfig | Summary Networks Banks Zones Conventional Channels Sca | anlists Personalities Secure Settings Globals Pi | oklists |
|---|---------------------------------------|--|--|---------------------|
| | | Form View | | |
| ● WF05114 ● WF05111 ● WF051111 ● WF051111 ● WF051111 ● WF051111 ● WF051111 ● WF051111 ● WF0511111 ● WF0511111 ● WF111111111111111111111111111111111111 | | | | |
| ● O Zore (19) Charrel Options ● O WHENEERDP ● UNITERDP1 ● O ZOUNTERDP1 Feed (1) Core ● O ZOUNTERDP1 Scoriat ● O ZOUNMON 1 Scoriat ● O ZOUNMON 2 Feed (1) Core ● O ZOUNMON 1 Scoriat ● O ZOUNMON 1 Scoriat ● O ZOUNMON 2 Feed (1) Core ● O WHE RE P25 Eod Math ● O WHE RE Prore ● WHE RE Prore ● VHE RE | | Conv. Ch. Name | | |
| Overver MUTERDP | | VCALL10 | 📢 🖣 1 of 214 🕨 🕅 | 🕂 🔁 Use Default 💽 🗙 |
| O WHY INCEDED O WHY INCEDED O TOU INTERDED O TOU INTERDED O TOU INTERDED O TOU INTERDED O TOU OMMON 1 O TOU OMMON 2 O TOU INTERDER O TOU OMMON 2 O TOU INTERDER O TOU OMMON 2 O TOU OMMON 2 O TOU OMMON 2 O TOU NAME READ O WHY IR P OF UHF IE Phore O WHY INT ADD O WHY | | - Channel Options | | |
| Contracted Hed Contract | | | | |
| Pointerpop 2 P | · · · · · · · · · · · · · · · · · · · | Text/Icon Color Red | Multi Mode Multi Mode | Keceive Unly |
| Image: Construction of the construc | | | Primary Channel Settings | |
| Control Contro Control Control Control Control Control Control Control Control Co | \sim | Network Mutual Aid 👻 | | |
| BOUMH2 REB OWH2 REFREE OWH2 REFREFREE OWH2 REFREE OWH2 RE | | | | |
| ⁰ 800 MHz PRE REB ⁰ VHF IR ⁰ VHF IR ⁰ VHF IR ⁰ VHF IR ⁰ VHF WIT AD ⁰ VHF WUT AD ⁰ Tak. Accord Enabled ⁰ VHF MED NB1 ⁰ Otarnel [2/4] ⁰ VHF MED NB1 ⁰ Otarnel [2/4] ⁰ VTAC13 ⁰ VTAC34 ⁰ VTAC35 ⁰ VTAC37 ⁰ VTAC37 ⁰ VTAC37 ⁰ VTAC37 ⁰ VTAC37 ⁰ VTAC37 ⁰ VTAC477 | \sim | Scanlist Scanlist 1 | Rx | Tx |
| • WHF IR • UHF IR | | | Freq (MHz) 155.752500 | 155.752500 |
| ⁰ UHF IR ⁰ WHF LE ⁰ WHF LE ⁰ WHF LE ⁰ WHAINE ⁰ UHF MED ¹ WH AND ⁰ WHAINE ⁰ WHAINE ⁰ WHAINE ⁰ WHAINE ⁰ WHAINE ¹ Tak Anound Enabled ⁰ GPS Enabled ¹ Tak Anound Enabled ¹ Tak Anound Enabled ⁰ GPS Enabled ¹ Tak Anound Enabled ¹ CPS Status Message ⁰ WEATHER ⁰ WEATHER ⁰ WEATHER ¹ Toren Picklat ¹ Toren Picklat ¹ Taronni MDCID ¹ Taronni Power (Wats) | | P25 Individual Call Tx Unlimited 🗸 🗸 | | |
| • 0 UHF IR • 0 UHF IE • 0 | | | Squeich Mode 🛛 CSQ 🔍 🗸 | CTCSS V |
| C UHF LE Marke Marke WHF W MUT AD WHF W MUT AD WHF M M M M M M M M M M M M M M M M M M M | | P25 Call Alert Disabled | | |
| ● WHAINE ● WHF W MUT AD ● WHF MUT AD ● WHF MUT AD ● WHF MUT AD ● UHF MED NB1 ● UTACI3 ● VTACI4 ● VTAC34 ● VTAC35 ● VTAC36 ● VTAC37 ● VTAC37 ● VTAC38 ● VTAC41 ● UCALL400 ● UCALL400 | \checkmark | Phone | Squeich Value 3 🗸 🗸 | 156.7 Hz 5A 🗸 |
| ⁰ VHF W MUT AD ⁰ UHF MED WB ⁰ VEATHER ⁰ UHF MED NB1 ⁰ UHF MED NB 2 ⁰ VEATHER ⁰ Torre Pickist ⁰ VTAC11 ⁰ VTAC13 ⁰ VTAC13 ⁰ Imegency Mode Amend Cell ⁰ VTAC14 ⁰ Imegency Channel Ciner# ⁰ VTAC13 ⁰ Imegency Channel Ciner# ⁰ VTAC34 ⁰ Imegency Channel Ciner# ⁰ VTAC35 ⁰ VTAC34 ⁰ VTAC34 ⁰ Imegency Mode Amend Cell ⁰ VTAC35 ⁰ VTAC34 ⁰ VTAC37 ¹ Imegency Mode Amend Cell ⁰ VTAC38 ⁰ VTAC37 ⁰ VTAC37 ⁰ VTAC400 ⁰ UTAc410 | \smile | Disabled 🗸 | | |
| ⓐ VHF N MUT AID ⓐ UHF MED WB ⓑ UHF MED WB ⓐ UHF MED NB1 ⓑ UHF MED NB1 ⓑ UHF MED NB1 ⓑ UHF MED NB2 ⓑ WEATHER ⓑ WTAC13 ⓑ VTAC14 ⓑ VTAC33 ⓑ VTAC34 ⓑ VTAC34 ⓑ VTAC34 ⓑ VTAC35 ⓑ VTAC37 ⓑ VTAC44 ⓑ VTAC37 ⓑ VTAC44 ⓑ VTAC37 ⓑ VTAC37 ⓑ VTAC44 ⓑ VTAC37 ⓑ VTAC37 ⓑ VTAC44 ⓑ VTAC37 ⓑ VTAC47 | | | | |
| Image: Constraint of the constraint o | | Talk Around Enabled GPS Enabled | Course Coultab | K N |
| C UHF MED NB1 B UHF MED NB 2 C WEATHER C OTAR C VTAC14 C VTAC13 C VTAC14 C VTAC34 C VTAC35 C VTAC36 C VTAC37 C VTAC38 C VTAC37 C VTAC38 C VTAC37 C VTAC38 C VTAC17 C VTAC38 C VTAC17 C VTAC38 C VTAC17 C VTAC38 C VTAC17 C VTAC30 C UTAL10 | | Kowad Pros Looked | | |
| Image: Construction | \sim | | Llear 🗸 | None 🗸 |
| WEATHER Image: Constraint of the second se | | Tone Picklist AutoScan | | |
| Channel (214) Image: Transmit MDC ID VTAC11 VTAC12 VTAC13 Emergency VTAC14 Image: Transmit Power (Watts) VTAC35 VTAC36 VTAC37 Image: Transmit Power (Watts) High 50 Lo VTAC170 UCALL40 ULCALL400 VTAC41 | ¥ | 🔲 OTAR 📃 Surveillance Strap | | |
| C Channel (214) Image: construction C VTAC11 Emergency C VTAC13 Emergency Mode Marm and Cell Image: construction C VTAC13 Emergency Mode C VTAC13 Emergency Channel C VTAC33 Emergency Channel C VTAC34 Image: construction C VTAC35 Image: construction C VTAC37 Image: construction C VTAC17 Image: construction C UCALL400 Image: construction C UTAC41 Image: construction | | Transmit MDC ID | Name VCALL10* | |
| Image: Constraint of the second state of the second st | | | Type Drained 25 | |
| © VTAC12 © VTAC13 © VTAC14 © VTAC33 © VTAC34 © VTAC35 © VTAC35 © VTAC37 © VTAC177 © VTAC177 © UCALL400 © UCALL400 © UTAC41 WINDOWN (Watts) WINDOWN (Watts) Wat | | | Flojeci 25 | |
| ○ VTAC12 ○ VTAC13 ○ VTAC33 ○ VTAC33 ○ VTAC34 ○ VTAC35 ○ VTAC36 ○ VTAC37 ○ VTAC38 ○ VTAC37 ○ VTAC38 ○ VTAC37 ○ VTAC38 ○ VTAC17 ○ VTAC170 ○ UCALL400 ○ UTAC41 | | - Emergency | Rx | Tx |
| C VTAC14 C VTAC33 C VTAC34 C VTAC35 C VTAC36 C VTAC37 C VTAC37 C VTAC38 C VTAC17 C VTAC170 C UCALL40 C UCALL400 C UTAC41 C | | | P25 NAC (Hex) 292 | 202 |
| © VTAC33 © VTAC34 © VTAC35 © VTAC35 © VTAC36 © VTAC37 © VTAC37 © VTAC38 © VTAC17 © VTAC170 © UCALL40 © UCALL40 © UCALL40 © UTAC41 © UTAC41 © UTAC41 | | Emergency Mode Alarm and Call 🗸 🗸 | | 233 |
| Image: Strate of the strat | | | Squelch Mode 🛛 Monitor 🛛 🗸 🗸 | |
| © VTAC35 © VTAC36 © VTAC37 © VTAC37 © VTAC38 © VTAC17 © VTAC177 © UCALL40 © UCALL40 © UCALL400 © UTAC41 ♥ IHTAC410 | | Emergency Channel Current | Talk Group (Dec) | 1 |
| ● VTAC36 High 5.0 Lo 1.0 Secure Switch Key Name ● VTAC37 ● VTAC38 ● VTAC17 ● VTAC17 ● VTAC17D ● UCALL40 ● UCALL40 ● UTAC41 ● UTAC41 ● UTAC41 | | Transmit Power (Watts) | | |
| ● VTAC37 ● High 5.0 Lo 1.0 ● Clear None ● VTAC38 ● VTAC17 ● UCALL40 ● UCALL40 ● UCALL40D ● UTAC41 ● UTAC41 ● UTAC41 ● UTAC41 | | · · · | Secure Switch | Key Name |
| | | High 5.0 🗸 Lo 1.0 🗸 | | |
| | | | cieal 💌 | None |
| ○ VTAC17D ○ UCALL40 ○ UCALL40D ○ UTAC41 ○ UTAC41 | | | | |
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| 🚽 Data: Modified System Key Found File: NIFOG 1_4_R2.lty | | 🔒 Data: Modified System Key Found File: I | NIFOG 1_4_R2.lty | |

PcProgrammer

Conventional Channel Screen:

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Simple layout with all Conventional information on once screen

Channel name can be up to 32 characters and 8 different colors

Multimode allows mixed mode Rx and Tx Analog and P25

- 2 Different CTCSS/CDCSS/NAC 2 Different encryption keys
- Many other combinations





Liberty PcProgrammer-06.00.00.0042

File Edit Tools Help

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| 🖃 🗄 ItyConfig 🛛 🔺 | Summary Networks Banks Zones Conventional C | hannels Scanlists Personalities | Secure Settings | Globals F | Picklists | |
|-----------------------------------|---|---------------------------------|-----------------|-----------|----------------------------------|-----|
| 🗉 🕦 Network (1) | Form View | | | | | |
| Mutual Aid | | | | | | |
| ■ Bank (1) | Scanlist Name Scanlist 1 | | 1 | of 2 | 🕨 👌 🕂 💠 Use Default | • X |
| (€) NIFOG 1_4 =- (2) Zone (19) | | | | _ | | |
| (Z) VHF INTEROP | | CScanlist Items (11) | | - | Available Conventional Channels- | |
| (z) UHF INTEROP | | VCALL10 | Q | Ċ | VCALL10 | G.A |
| | Scan Type 🛛 Conventional 🛛 🗸 | | | | | |
| (Z) 700 INTEROP 2 | Trunked Network | UCALL40 | © | | VTAC11 | |
| - Z 700 COMMON 1 | | 7CALL50 | © | | VTAC12 | Ô |
| 2 700 COMMON 2 | Scan Hold Timer (Secs) 2 | 7CALL70 | Ô | | VTAC13 | © |
| 2 800 MH2 REB | | 8CALL90 | Ô | | VTAC14 | Ô |
| 2 800 MHz PRE-REB | Monitor Timer (Secs) Off 🗸 🗸 | ICALL | Ô | < | VTAC33 | © |
| VHF IR | Est. Scan Time (Secs) | NC1 | õ | | VTAC34 | Ő |
| | | NC 2 | © © | > | VTAC35 | Ő |
| | Talkback Enabled 📃 | LEA | | | VTAC36 | |
| (z) MARINE | | | Ô | | | © |
| Z VHF W MUT AID | | LE B | Ô | | VTAC37 | Ô |
| (Z) VHF N MUT AID | | MARINE 16 | Ô | | VTAC38 | © |
| 2 UHF MED WB | | | | | VTAC17 | © |
| UHF MED NB1 | - Scanlist Priority | | | | VTAC17D | © |
| UHF MED NB 2 | · · · · · · · · · · · · · · · · · · · | | | | UCALL40 | © |
| C WEATHER | Priority 1 VCALL10 | | | | UCALL40D | Ő |
| ⊡© Channel (214) ©, VCALL10 | P1 Locked | | | | UTAC41 | Ő |
| C VTAC11 | Priority 2 8CALL90 | | | | | |
| C VTAC12 | | | | | UTAL4ID | |
| VTAC13 | P2 Locked | Scanlist Locked | Clear Scanlist | | | |
| VTAC14 | | | CICCI JUCI IIN | | | |
| -C VTAC33 | | | | | | |
| C VTAC34 | | | | | | |
| C VTAC35 | | | | | | |
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| -C VTAC37 | | | | | | |
| -C VTAC38 -C VTAC17 | | | | | | |
| C VTAC17D | | | | | | |
| UCALL40 | | | | | | |
| UCALL40D | | | | | | |
| -Ö UTAC41 | | | | | | |
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| | Data: Modified System Key Found | File: NIFOG 1_4_R2.lty | | | | |
| | | | | | | |



Liberty Multiband Portable



PcProgrammer

Scanlist Screen:

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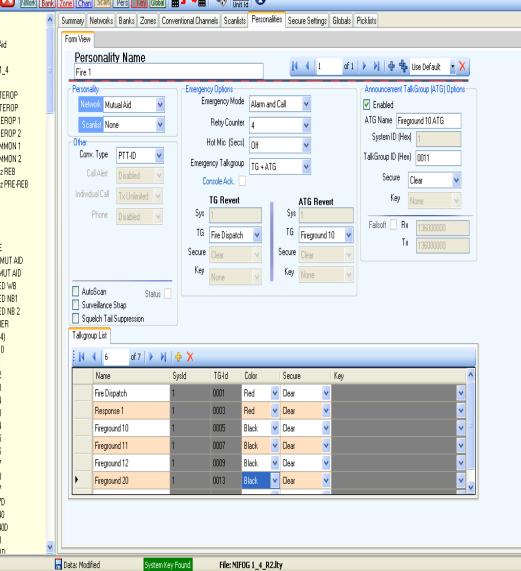
Naming of scanlists allows for easy user navigation

Both conventional and trunked scan

Drag and drop of scan list members

🗆 🔚 ItuConfia

| i iyooniig |
|---------------------|
| 🖹 Ň Network (1) |
| 🔣 Mutual Aid |
| 🖨 🛞 Bank (1) |
| B NIFOG 1_4 |
| 😑 🔽 Zone (19) |
| (Z) VHF INTEROP |
| (Z) UHF INTEROP |
| (Z) 700 INTEROP 1 |
| (Z) 700 INTEROP 2 |
| -(Z) 700 COMMON 1 |
| (Z) 700 COMMON 2 |
| (Z) 800 MHz REB |
| (Z) 800 MHz PRE-REE |
| (Z) VHF IR |
| (Z) UHF IR |
| (Z) VHF LE |
| (Z) UHF LE |
| Z MARINE |
| (Z) VHF W MUT AID |
| (Z) VHF N MUT AID |
| (Z) UHF MED WB |
| (Z) UHF MED NB1 |
| (Z) UHF MED NB 2 |
| (Z) WEATHER |
| 🖃 🔘 Channel (214) |
| CALL10 |
| C VTAC11 |
| C VTAC12 |
| C VTAC13 |
| C VTAC14 |
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| C VTAC35 |
| C VTAC36 |
| C VTAC37 |
| VTAC38 |
| VTAC17 |
| VTAC17D |
| UCALL40 |
| |
| UTAC41 |
| |





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PcProgrammer

Personality Screen:

Naming of Personalities allows for easy codeplug development

All information for Personality on one screen

Talkgroup name can be up to 32 characters and 8 colors





| 🧏 Liberty PcProgrammer-06.00.00.0042 | |
|--------------------------------------|---|
| File Edit Tools Help | PcProarammer |
| | |
| | PcProgrammer Secure Screen: Simple layout of all encryption parameters Up to 64 keys in any combination of DES-OFB or AES-256 |
| | |
| C UTACA1 | |
| | 4 |





Add^{*} Add^{*} Bank

| 🖃 🧮 ItyConfig | ^ | Summary |
|---|----------|---------------------|
| Network (1) | | Genera |
| Mutual Aid | | |
| ⊜ (B) Bank (1) | | <u> </u> <u>G</u> |
| | | |
| C Zone (19) | | |
| | | |
| | _ | |
| 2 700 INTEROP 1 | | |
| -(2) 700 INTEROP 2 -(2) 700 COMMON 1 | | |
| (Z) 700 COMMON 2 | | |
| (Z) 800 MHz REB | | |
| (Z) 800 MHz PRE-REB | | |
| (Z) VHF IR | | |
| | | |
| (Z) VHF LE | | |
| | | |
| (Z) MARINE | | |
| (Z) VHF W MUT AID | | |
| (Z) VHF N MUT AID | | ſ |
| (Z) UHF MED WB | | |
| (Z) UHF MED NB1 | | |
| (Z) UHF MED NB 2 | | |
| (Z) WEATHER | | |
| 🖃 🔘 Channel (214) | | |
| C VCALL10 | | (c |
| C VTAC11 | | |
| -C VTAC12 | | |
| -C VTAC13 | | |
| -Ō VTAC14 | | |
| C VTAC33 | | |
| -C VTAC34 | | ll r |
| C VTAC35 C VTAC36 | | |
| -C VTAC36 | | |
| -Ö VTAC37 | | |
| VTAC38 | | |
| C VTAC17 | | |
| C VTAC17D | | |
| C UCALL40 | | |
| C UCALL40D | | |
| C UTAC41 | ~ | |
| | <u> </u> | _ |

🔚 Data: Modified

| Zone Ch | nan Scan P | ers Key Gi | obal 🔚 🌲 🎽 🖿 🖬 💦 🔧 | 📀 Unit la | | | | | |
|---------|--------------------------------|-----------------|-----------------------|-----------|--------------------------------|-------------------------------------|--------------------------------------|----------------|--|
| Summary | Networks E | Banks Zones | Conventional Channels | | | Secure Settings | Globals | Picklists | |
| Genera | Parameters | Programmable S | Soft Keys | | | | | | |
| G | ilobal Par | ameters | | | | | | | |
| ٢ | Keys And Switc | hes | | n ſ | Timers | | | | |
| | Side Button 1 | Monitor | × | | | Interval (Sec.) | 1.5 | * | |
| | Side Button 2 | Scan | ~ | | - C | mming Password- ogramming Author | izad | | |
| | Side Button 3 | Backlight | ~ | | Password Act | | 126U V |] | |
| | Toggle A/B/C | Zone Selec | t 🗸 | | Passw | ord ***** | | | |
| | | 🗹 Zone Se | elect Locked | | | Change Key | pad Progra | mming Password | |
| | Top Red Buttor Two Position | Lineigeney | ¥ ¥ | | Radio Access F Password Act | | ۷ |] | |
| | Transmit | | | | Password | ninin kinin kinin | | | |
| | Transmit Inhibit | Off | * | | | Change Rad | io Passwor | d | |
| | | | | | Surveillance | : | A 1927 | | |
| | | | | | | | Off Off | | |
| ٢ | Multi Mode Cha | nnel | | | | 0.00 | 🖲 Off | | |
| | Revert Mo | de Receive | d 🗸 | | Internal Spe | · · · · | 🖲 Off | | |
| | Delay (Se | ec) 10 | * | | Backlight Ho | | Off | | |
| ل ار | Lighting Control: | 8 | | | | | | | |
| | Displa | y Timer (Sec.) | 30 💌 | | | | | | |
| | Backlight on F | Rx Timer (Sec.) | 30 🗸 | | | | | | |
| | Backlight on T | x Timer (Sec.) | 30 🗸 | | | | | | |

File: NIFOG 1_4_R2.lty



Global Screen:

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Assignment of all button and switch parameters

Radio Access and Programming password management

Mutli-option Surveillance mode



System Key Found



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| 🖃 📘 ItyConfig |
|---|
| 😑 Ň Network (1) |
| 🗏 🕔 Mutual Aid |
| 🖨 🛞 Bank (1) |
| -(B) NIFOG 1_4 |
| 🚊 🔽 Zone (19) |
| Z VHF INTEROP |
| 🛛 📿 UHF INTEROP |
| 2 700 INTEROP 1 |
| 2 700 INTEROP 2 |
| -(Z) 700 COMMON 1 |
| -(Z) 700 COMMON 2 |
| 2 800 MHz REB |
| Z 800 MHz PRE-REE |
| Z VHF IR |
| Z UHF IR |
| -Z VHF LE |
| - 🖸 UHF LE |
| Z MARINE |
| -Z VHF W MUT AID |
| - Z VHF N MUT AID |
| Z UHF MED WB |
| Z UHF MED NB1 |
| C UHF INTEROP C 700 INTEROP C 700 INTEROP 1 C 700 INTEROP 2 C 700 COMMON 1 C 700 COMMON 2 C 800 MHz REB C 800 MHz PRE-REI C VHF IR C UHF IR C UHF IR C UHF IR C UHF LE C UHF LE C WARINE C VHF W MUT AID C VHF W MUT AID C UHF MED WB C UHF MED NB 2 C UHF MED NB 2 C WEATHER |
| |
| 😑 🔘 Channel (214) |
| - CALL10 |
| C VTAC11 |
| C VTAC12 |
| C VTAC13 |
| -C VTAC14 |
| C VTAC33 |
| VTAC34 |
| C VTAC35 |
| VTAC36 |
| -C VTAC37 -C VTAC38 |
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| © VTAC12 © VTAC13 © VTAC14 © VTAC33 © VTAC34 © VTAC35 © VTAC35 © VTAC37 © VTAC37 © VTAC37 © VTAC37 © VTAC37 © VTAC37 © VTAC172 © VTAC172 © UCALL40 |
| |
| C UCALL40 |

C UCALL40D C UTAC41 Tone Picklist

Tone Picklist

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| | Name | Analog f Sq. Moo | | Analog Rx S Value | q. | Analog T Sq. Mod | | Analog Tx S Value | q. | P25 Rx So Mode | 7. | P25 Rx NAC (Hex) | P25 Tx NAC (Hex) |
|---|----------|---------------------|---|----------------------|----|---------------------|---|----------------------|----|-------------------|----|------------------|------------------|
| - | North | CSQ | v | | ~ | | v | | ~ | | ~ | 293 | 659 |
| - | East | CSQ | ۷ | 1 | v | CTCSS | v | 69.3 Hz WZ | v | Monitor | ¥ | 293 | 825 |
| - | South | CSQ | ¥ | 1 | v | CTCSS | ۷ | 71.9 Hz XA | v | Monitor | v | 293 | 7D1 |
| | West | CSQ | ۷ | 1 | v | CTCSS | v | 74.4 Hz WA | v | Monitor | v | 293 | 9F5 |
| | Sector 1 | CSQ | ۷ | 1 | v | CTCSS | v | 67.0 Hz XZ | v | Monitor | v | 465 | 465 |
| - | Sector 2 | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 67.0 Hz XZ | ۷ | Monitor | ۷ | 290 | 290 |
| - | Sector 4 | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 82.5 Hz YZ | ۷ | Monitor | ¥ | F21 | F21 |
| | Sector 5 | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 85.4 Hz YA | ۷ | Monitor | ¥ | 9B3 | 9B3 |
| | State FD | CSQ | ۷ | 1 | v | CTCSS | ۷ | 88.5 Hz YB | v | Monitor | ¥ | AA2 | AA2 |
| | State PD | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 91.5 Hz ZZ | ۷ | Monitor | v | 676 | 676 |
| | State SD | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 94.8 Hz ZA | ۷ | Monitor | v | 349 | 349 |
| | Med 1 | CDCSS | ۷ | 023 | ۷ | CDCSS | ۷ | 023 | ۷ | Monitor | v | 002 | 002 |
| | Med 2 | CSQ | ۷ | 1 | ۷ | CDCSS | ۷ | 023 | ۷ | Monitor | Y | 536 | 536 |
| | Med 3 | CSQ | ۷ | 1 | ۷ | CDCSS | ۷ | 051 | ۷ | Monitor | ۷ | BB4 | BB4 |
| | Med 4 | CSQ | ۷ | 1 | v | CDCSS | ۷ | 165 | v | Monitor | v | 238 | 238 |
| | Med 5 | CSQ | ۷ | 1 | ۷ | CDCSS | ۷ | 245 | ۷ | Monitor | ۷ | 9BD | 9BD |
| | HAZMAT | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 100.0 Hz 1Z | ۷ | Monitor | ۷ | 222 | 222 |
| | USAR | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 103.5 Hz 1A | ۷ | Monitor | ۷ | 9B9 | 9B9 |
| | Water | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 107.2 Hz 1B | ۷ | Monitor | ¥ | AAA | AAA |
| | Нум | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 110.9 Hz 2Z | ۷ | Monitor | ۷ | AAB | AAB |
| | Health | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 131.8 Hz 3B | ۷ | Monitor | ۷ | AAC | AAC |
| | EMA | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 162.2 Hz 5B | ۷ | Monitor | ۷ | 834 | 834 |
| • | Interop | CSQ | ۷ | 1 | ۷ | CTCSS | ۷ | 156.7 Hz 5A | ۷ | Monitor | ¥ | F7E | 293 |

Summary Networks Banks Zones Conventional Channels Scanlists Personalities Secure Settings Globals Picklists



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PcProgrammer

Picklist Screen:

Up to 32 user selectable CTCSS/CDCSS/NAC

Each entry cover both analog and P25

Alphanumeric name for each entry



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| 🖃 🛅 ItyConfig | Unit Id | programming Table | | | | | |
|---|----------|--------------------------|---------------------|----------------------------|------------------|------------------|-----------------------|
| ■ (N) Network (12) ■ (N) Mutual Aid ■ (N) Johnson County ■ (N) Garrett County | | | Unit I | d Programming ⁻ | Table | | |
| Northern County Northern County Waterside City Northern City Portable Site N Portable Site N Amy Base N Elec Como | OTAR | dTable IRadio RSI 1 ♥ | | | Au | to Increment | Auto Increment Value |
| N Liec Lomp | | Network Name | Conv. UnitId (Dec.) | Trunking UnitId (Dec.) | MDC UnitId (Hex) | Increment Row | Decrement Row |
| (N) Federal Ops | 1 | Mutual Aid | 12007 | \$ 87642 | | + | |
| - Ň Statewide SYS | | | 13487 | ¢1 ¢ | | | |
| 🖹 🖲 Bank (1) | | Johnson County | | | | + | - |
| | | Garrett County | 34098 | € 1 € | | + | - |
| (Z) VHF INTEROP | | Northern County | 3458098 | ¢1 🗘 | | + | |
| Z UHF INTEROP | | Waterside City | 32498 | ‡ 1 ‡ | | + | |
| 2 700 INTEROP 1 | | Johnson City | 3354 | ¢1 \$ | | + | - |
| -2 700 INTEROP 2 2 700 COMMON 1 | | Portable Site | 76 | \$1 \$ | | + | - |
| 2 700 COMMON 1 2 700 COMMON 2 | | Army Base | 3032 | ¢1 ¢ | | + | - |
| Z 800 MHz REB | | Elec Comp | 7658789 | ¢1 \$ | | + | - |
| 2 800 MHz PRE-REB | | Marine | 3253465 | ¢1 \$ | | + | - |
| -(2) VHF IR -(2) UHF IR | | Federal Ops | 234908 | ¢1 \$ | | + | |
| VHF LE | | Statewide SYS | 324356 | \$ 99246 | | + | |
| | | | | | | | |
| (Z) VHF W MUT AID | | | | | | | |
| VHF N MUT AID | <u> </u> | | | | | Reset All Unit I | Ds to Factory Default |
| (2) UHF MED WB (2) UHF MED NB1 | | | | | | | |
| Z UHF MED NB 2 | | | | | | | |
| VEATHER | | | | | _ | | |
| 🖃 🔘 Channel (214) | | | | Close 🔰 | 2 | | |
| - C VCALL10 C VTAC11 | | | | 4 | | | |
| C VTAC12 | | | | | | | |
| C VTAC13 | | | | | | | |
| C VTAC14 | v 🗆 | | | | | | |
| | | ay Modified | und Gilar N | TEOC 1 / D2 Ity | | _ | |

PcProgrammer

Unit ID Screen:

- ª X

Single screen for management of all Radio ID's

Conventional P25 Trunking P25 MDC1200 OTAR RSI

Ability to auto increment entire page, single line or single ID





| Liberty PcProgrammer-0 | 5.00.00.0042 | | | | | | X | | | | | | | | | | | | | | | |
|------------------------------------|----------------------|-------------------------|------------------------|---------------------------------------|--------|----------|-------|------|--------------|----------------|------------------|---------------------|---------------------------|------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------|
| File Edit Tools Help | 💊 Liberty PcProgram | mer - Manage System | Keys | | | X | | | | | | | | | | | | | | | | |
| 🗌 🃂 📑 🔀 🕷 | System Keys | | | | 🔒 Save | 🤁 ReScan | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| i 🔚 ItyConfig È(N) Network (12) | System Key Summary D | aughter Key Programming | | | | | 5 | M, | Manac | Manago Si | Manago System | Managa System Kay | Manage System Key Scre | Manage System Key Screen: | Manage System Key Screen: | Managa System Kay Screen: | Manage System Key Screen: | Manage System Key Screen: | Managa System Kay Screen: | Managa System Key Screen: | Manage System Key Screen: | Managa System Kay Screen: |
| Nutual Aid | Master Keys | There is 1 Master | Koy Atteched | | | | 4 | IVIC | Manay | Manage Sy | wanaye System | Manage System Rey | Manage System Rey Scree | Manage System Key Screen. | Manage System Key Screen. | Manage System Rey Screen. | Manage System Key Screen. | Manage System Rey Screen. | Manage System Rey Screen. | Manage System Rey Screen. | Manage System Key Screen. | Manage System Key Screen. |
| - N Johnson County | Serial Number | WACN Id (Hex) | System Id (Hex) | Programmed On | | | | | D : 1 | D : 1 1 | D : 1 (1) | | | | | | | | | | | |
| | ► 0200 | WACHING (HEA) | System to (riex) | Wednesday, March 03, 2010 | | | | | | | | | | | | | | | | | | Displays both Master and Daughte |
| - Ň Waterside City | 0200 | | - | Weaterstay, March 03, 2010 | | | | Sy | Syster | System Ke | System Key | System Key | System Key | System Key | System Key | System Key | System Key | System Key | System Key | System Key | System Key | System Key |
| | | | | | | | | | | | | | | | | | | | | | | |
| -N Army Base | | | | | | | | Da | Daugh | Daughter k | Daughter Keys | Daughter Keys allow | Daughter Keys allow the a | Daughter Keys allow the addi | Daughter Keys allow the addition of |
| - 🕅 Elec Comp | | | | | | | | re | restric | restriction | restrictions: | restrictions: | restrictions: | restrictions: | restrictions: | restrictions: | restrictions: | restrictions: | restrictions: | restrictions: | restrictions: | restrictions: |
| -N Marine N Federal Ops | | | | | | | | | E | Expira | Expiration | Expiration date | Expiration date | Expiration date | Expiration date | Expiration date | Expiration date | Expiration date | Expiration date | Expiration date | Expiration date | Expiration date |
| 📉 Statewide SYS | | | | | | | | | | | | | | | | | | | | | | Limit by Radio Serial Number |
| Bank (1) | | | | | | | | | | | | | | | | | | | | | | Limit by P25 Trunking Radio II |
| INIFOG 1_4 Zone (19) | | | | | | | | | | | | | | | | | | | | | | |
| Z VHF INTEROP | | | | | | | | | | | | | | | | | | | | | | |
| UHF INTEROP TOO INTEROP 1 | | These is 1 Mature | l. Linnen in 1 Develu | | | | | | | | | | | | | | | | | | | |
| (z) 700 INTEROP 2 | Daughter Keys | | k Licenses in 1 Daught | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | | | | | | |
| 2 700 COMMON 1 | Serial Number | Wacn ID (Hex) | System ID (Hex) | Status | | | | | | | | | | | | | | | | | | |
| Z 700 COMMON 2 Z 800 MHz REB | • 01A7 | BEE00 | 001 | ОК | | | | | | | | | | | | | | | | | | |
| 2 800 MHz PRE-REE | | | | | | | | | | | | | | | | | | | | | | |
| - Z VHF IR | | | | | | | | | | | | | | | | | | | | | | |
| -(2) UHF IR -(2) VHF LE | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| - Z MARINE | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| (z) UHF MED WB | | | | | | | | | | | | | | | | | | | | | | |
| - Z UHF MED NB1 | | | | | | | | | | | | | | | | | | | | | | |
| UHF MED NB 2 | | | | | | | | | | | | | | | | | | | | | | |
| (2) WEATHER =(©) Channel (214) | | | | | | | | | | | | | | | | | | | | | | |
| - 🤤 VCALL10 | | | | | | | | | | | | | | | | | | | | | | |
| C VTAC11 | | | | | | | | | | | | | | | | | | | | | | |
| -C VTAC12 C VTAC13 | | | | | | | | | | | | | | | | | | | | | | |
| -C VTAC14 | | | | | | | | | | | | | | | | | | | | | | |
| | 🔚 Data: Modified | Custom Ke | v Found File Attra | 7C 1 4 D2 Hu | | | Ē | | | | | | | | | | | | | | | |
| | Data: Moulfied | System Ke | y round File: N1H |)G 1_4_R2.lty | | | | | | | | - | | | | | | | | | | |



