Experiences with Using a COMMERCIAL HANDHELD *for* AMATEUR RADIO

Awesome

or

Irksome?

Commercial Handheld

Why do this?

What to get?

How to use?

What results?

Burning Man 2019

Volunteered with the Art Department

Photo by DigitalGlobe

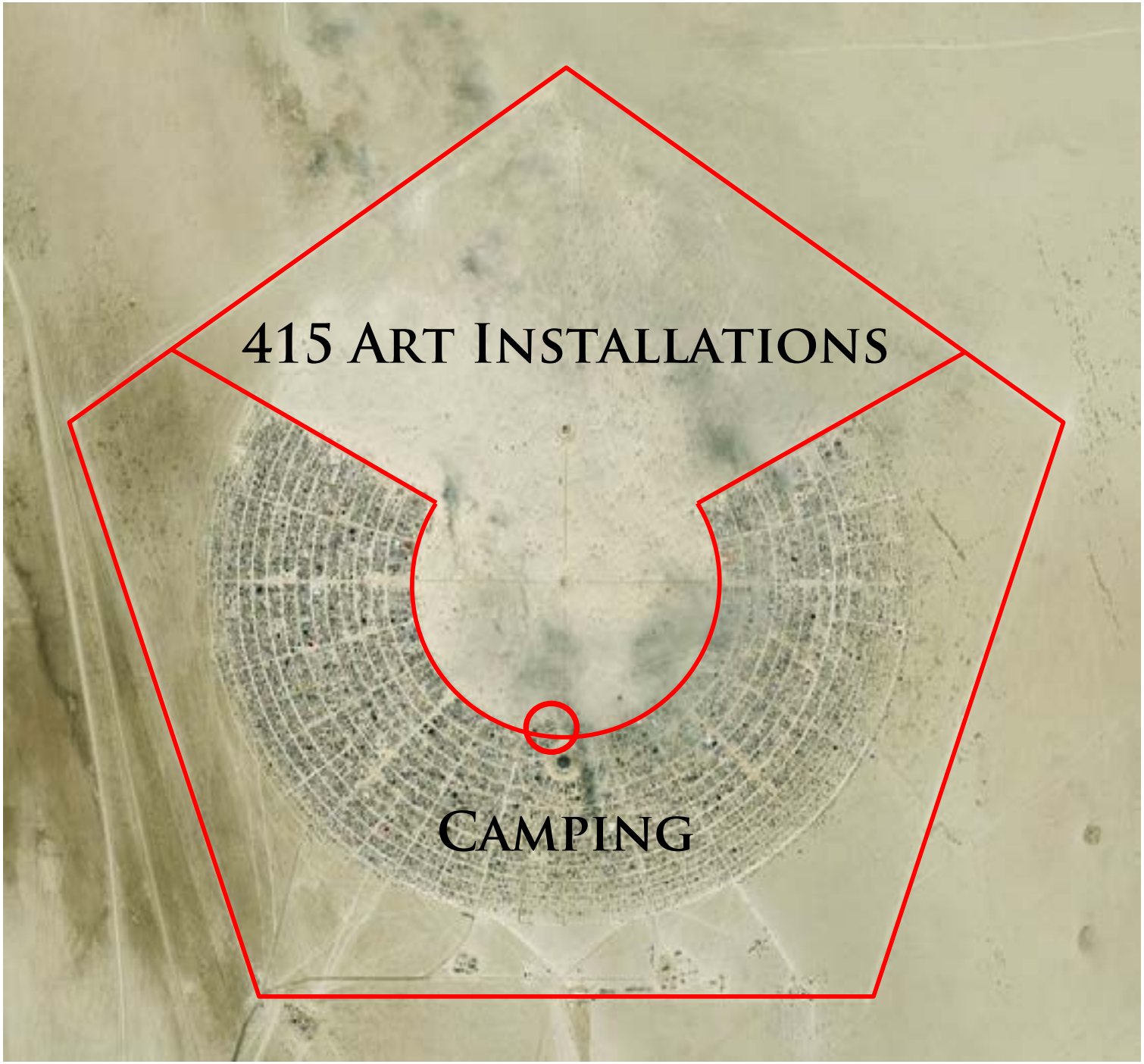


Photo by DigitalGlobe

The ARTery Volunteers

Photo by David Hill

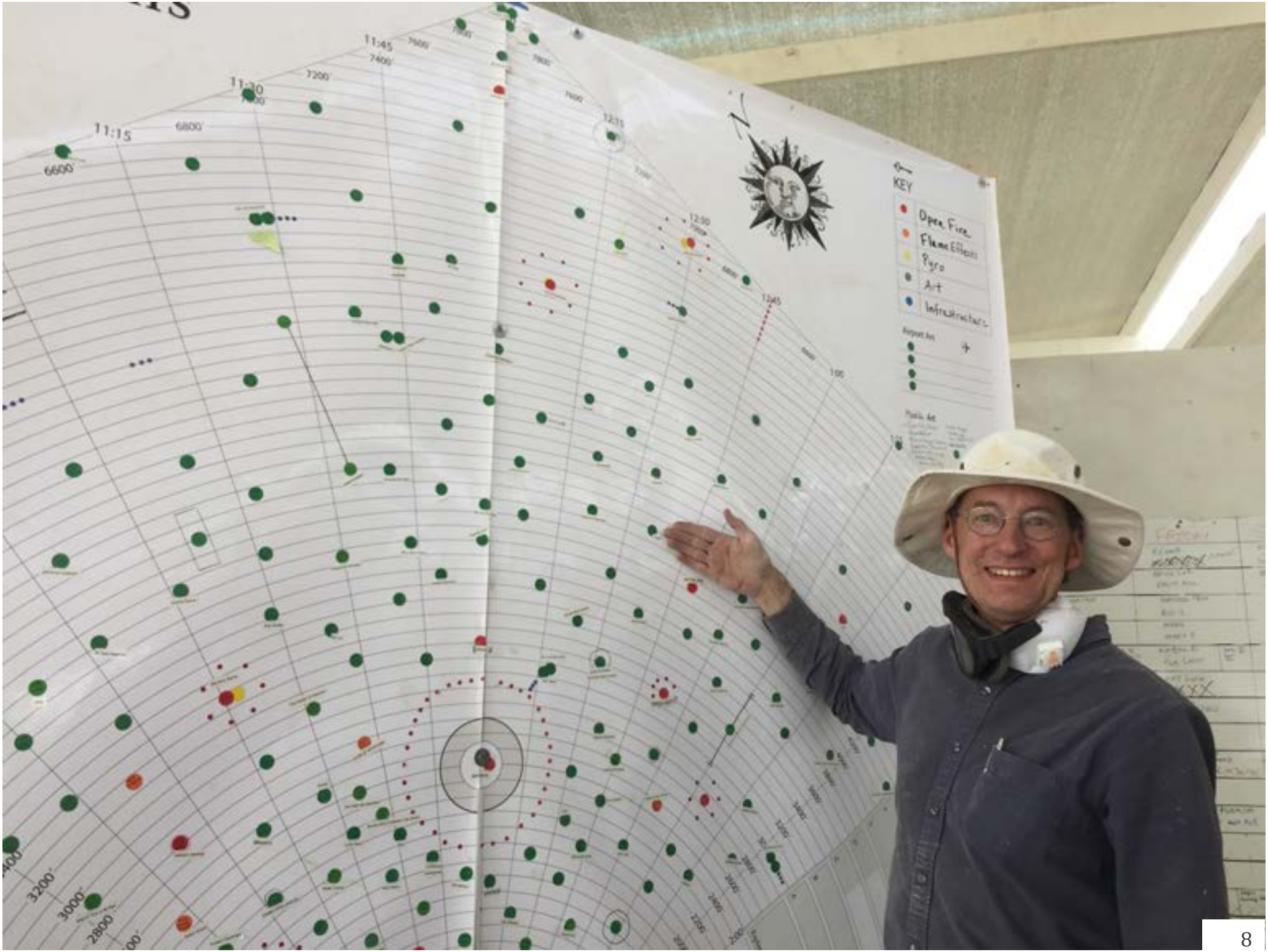
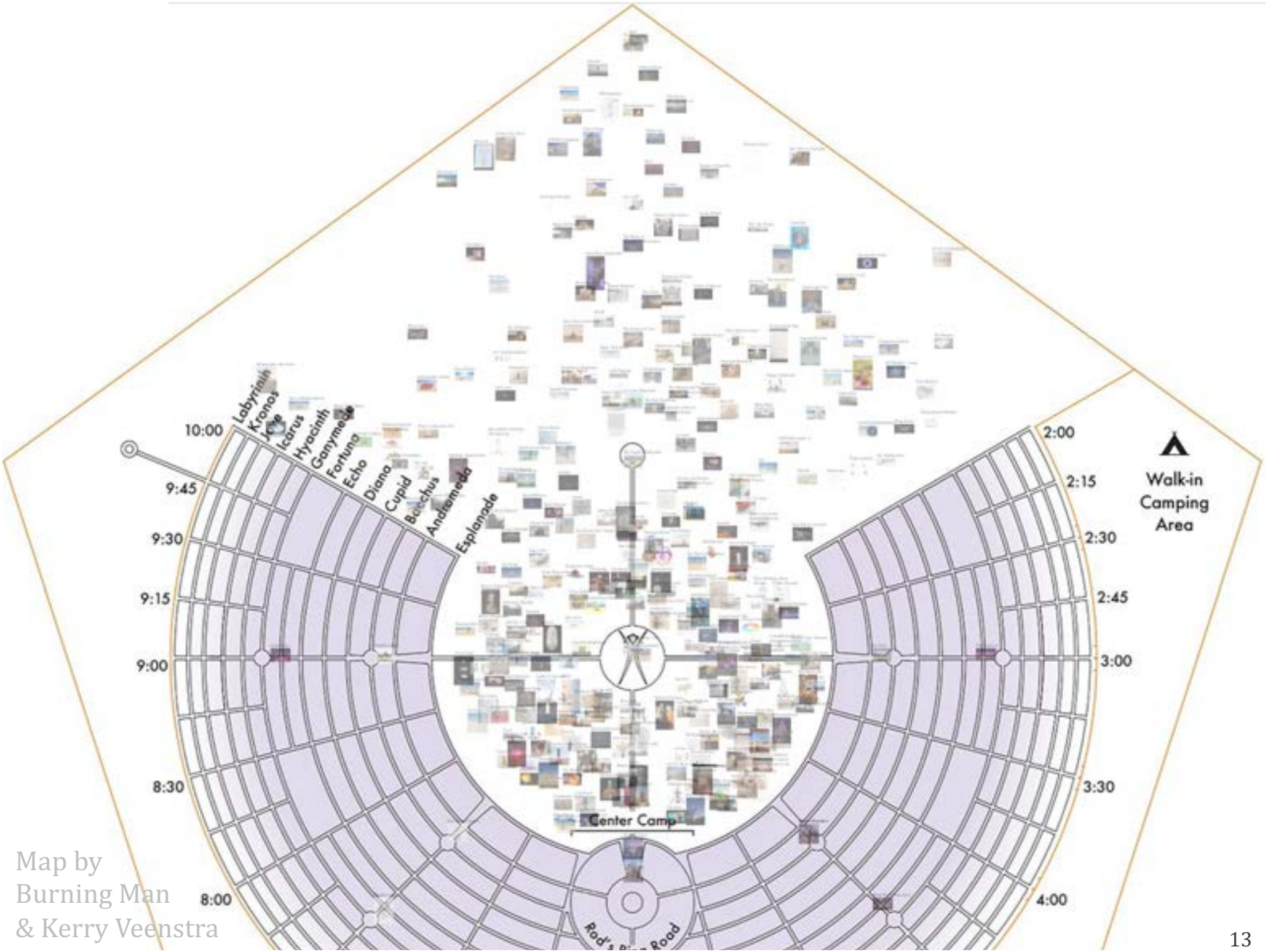

11:45
11:30
11:15
6600'
6800'
7200'
7400'
12:15
12:30
12:45
KEY
Open Fire
Flame Effects
Pyro
Art
Infrastructure
3200'
3000'
2800'

Photo by DigitalGlobe

Photo by
Kerry Veenstra

Photo by
Kerry Veenstra

Photo by DigitalGlobe



Map by
Burning Man
& Kerry Veenstra

Burning Man 2019

Volunteered with the Art Department

and was issued a

Motorola XPR 7550

Burning Man 2019

Volunteered with the Art Department

and was issued a

Motorola XPR 7550e?

Photos by radiodepot.com and motorolasolutions.com

Photo by radiodepot.com

Push to Talk

Zone Select

Photo by radiodepot.com

Amazing Radio

The XPR 7550e was Excellent

Robust Build Quality

Fantastic Audio Quality

Ridiculously Long Battery Life

Note: This is true for <u>both</u> digital and analog modes.

Amazing Radio

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Fantastic Audio Quality

Ridiculously Long Battery Life

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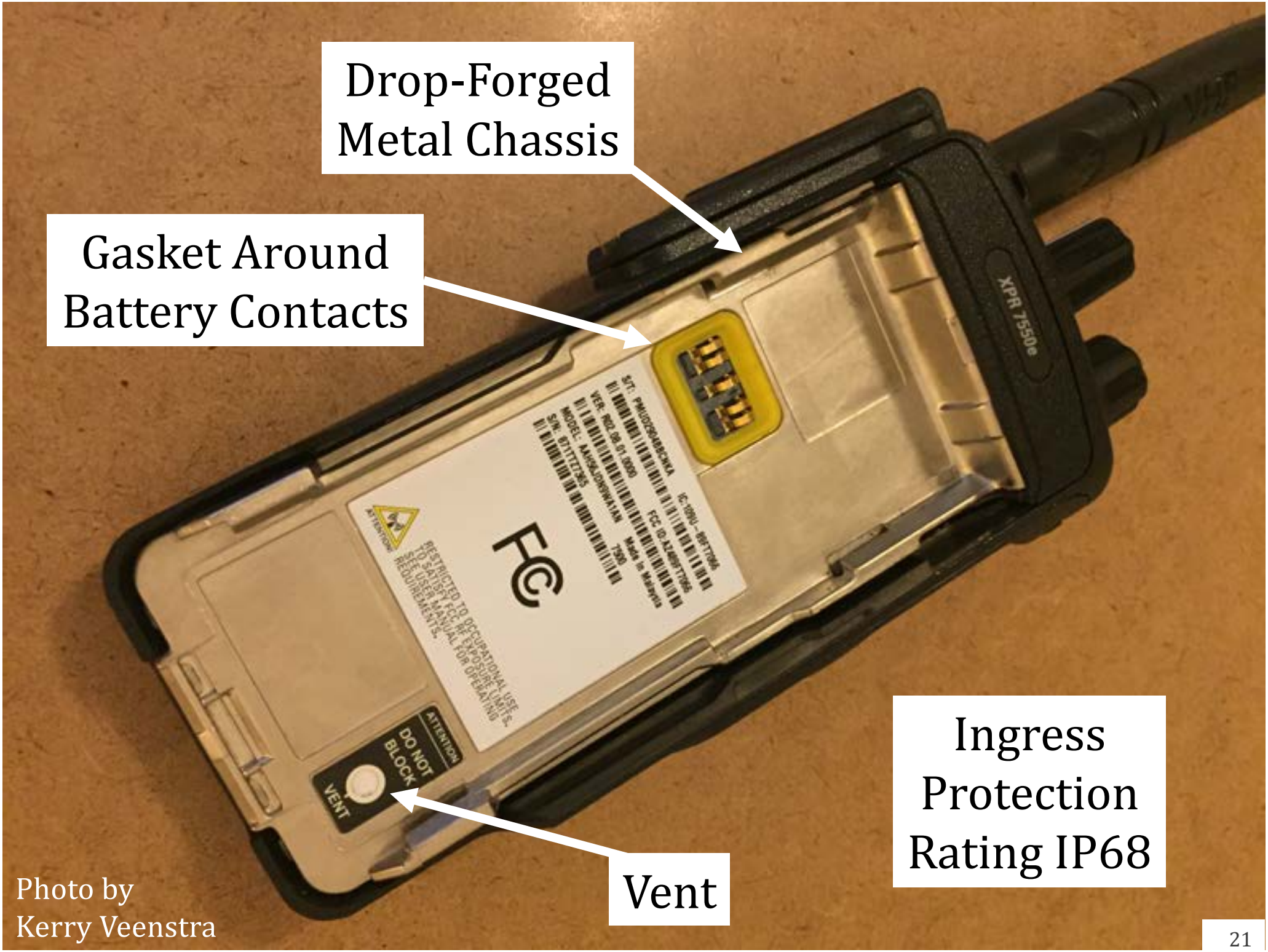
Drop-Forged
Metal Chassis
Gasket Around
Battery Contacts
Ingress
Protection
Rating IP68
Vent
Photo by
Kerry Veenstra

Amazing Radio

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Robust Build Quality

Fantastic Audio Quality

Ridiculously Long Battery Life

Note: This is true for <u>both</u> digital and analog modes.

- **Estimated battery life (Digital/Analog)**

Digital/Analog Battery Life, High Capacity 2250 mAh Battery:
XPR 7550e VHF: 22.0/16.5 hours
XPR 7550e UHF: 21.0/16.0 hours
XPR 7580e 800/900: 21.0/17.5 hours
XPR 7350e VHF: 22.0/16.5 hours
XPR 7350e UHF: 21.0/16.0 hours
XPR 7380e 800/900: 22.0/16.5 hours

5/5/90 profile
5% → 1 hour TX
5% → 1 hour RX
90% → 19 hours standby

Digital /Analog Battery Life, Low Voltage 3000 mAh Battery:
XPR 7550e VHF: 29.0/22.0 hours
XPR 7550e UHF: 28.0/21.5 hours
XPR 7580e 800/900: 28.0/23.0 hours
XPR 7350e VHF: 29.0/22.0 hours
XPR 7350e UHF: 28.0/21.5 hours
XPR 7380e 800/900: 28.0/23.0 hours

- **Estimated battery life (Digital/Analog)**

Digital/Analog Battery Life, High Capacity 2250 mAh Battery:
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XPR 7580e 800/900: 21.0/17.5 hours
XPR 7350e VHF: 22.0/16.5 hours
XPR 7350e UHF: 21.0/16.0 hours
XPR 7380e 800/900: 22.0/16.5 hours

5/5/90 profile
48 minutes TX
48 minutes RX
14 hours 24 minutes standby

Digital /Analog Battery Life, Low Voltage 3000 mAh Battery:
XPR 7550e VHF: 29.0/22.0 hours
XPR 7550e UHF: 28.0/21.5 hours
XPR 7580e 800/900: 28.0/23.0 hours
XPR 7350e VHF: 29.0/22.0 hours
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XPR 7380e 800/900: 28.0/23.0 hours

Amazing Radio

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Robust Build Quality
Fantastic Audio Quality
Ridiculously Long Battery Life

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Amazing Radio

The XPR 7550e was Excellent

Robust Build Quality

Fantastic Audio Quality

Ridiculously Long Battery Life

Can Get with a Ham Radio

Note: This is true for both digital and analog modes.

"Larger" Battery

$25.94

prime FREE Same-Day

& FREE Returns

FREE delivery: **Today**

Order within 3 hrs and 9 mins

Details

Deliver to Kerry - Concord 94518

In Stock.

Qty: 3

Add to Cart

Buy Now

Photo by amazon.com

Amazing Radio

The XPR 7550e was Excellent

Robust Build Quality

Fantastic Audio Quality

Ridiculously Long Battery Life

Only with a Commercial Radio

Note: This is true for both digital and analog modes.

Commercial Handheld

Why do this?

What to get?

How to use?

What results?

What To Get?

Motorola XPR 7550e

- Audio Quality
- Receiver Sensitivity

What To Get?

Motorola XPR 7550

😄 Audio Quality

😢 Receiver Sensitivity

What To Get?

Motorola XPR 6550

😢 Audio Quality

😢 Receiver Sensitivity

https://www.youtube.com/watch?v=yyfLcQt6jlI

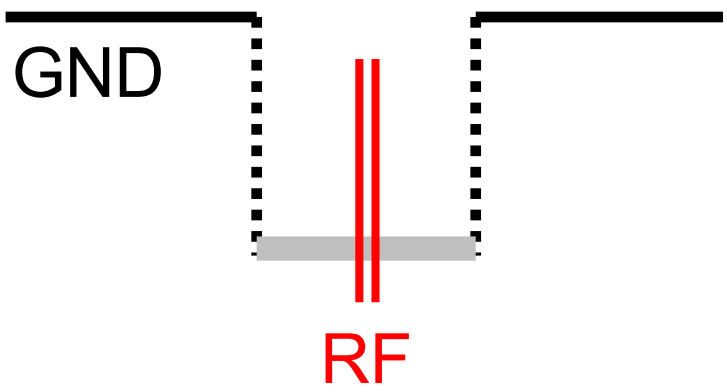
What To Get?

Motorola XPR 7550e

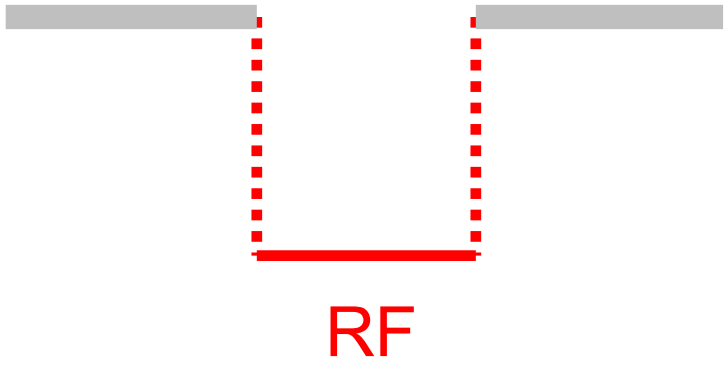
What To Get?

What To Get?

RF Connectors



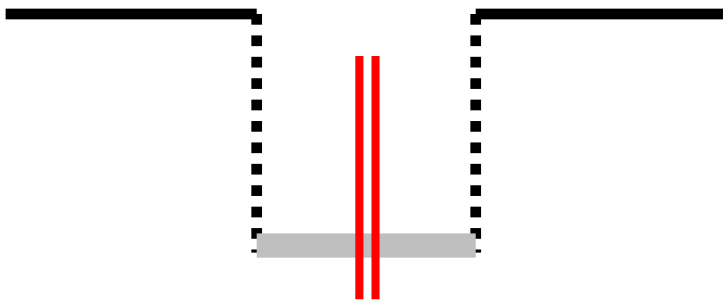
Coaxial



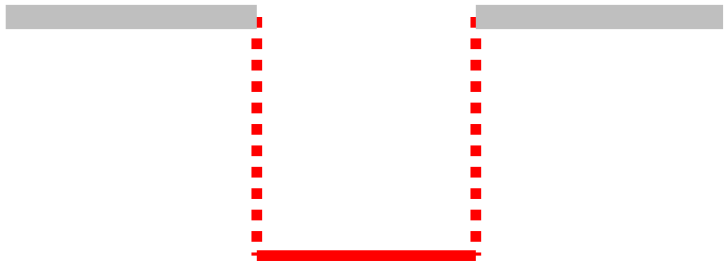
Antenna

What To Get?

RF Connectors



SMA
XPR 7550



Proprietary
XPR 7550E

What To Get?

SMA to BNC adapter for 6550 & 7550 <u>not</u> 7550E

Photo by
motorolasolutions.com

What To Get?

Motorola XPR 7550e

😄 Audio Quality

😄 Receiver Sensitivity

😢 Antenna Connector

What To Get?

Motorola XPR 7550

- 😄 Audio Quality
- 😢 Receiver Sensitivity
- 😄 Antenna Connector

What To Get?

Motorola XPR 6550

Audio Quality

Receiver Sensitivity

Antenna Connector

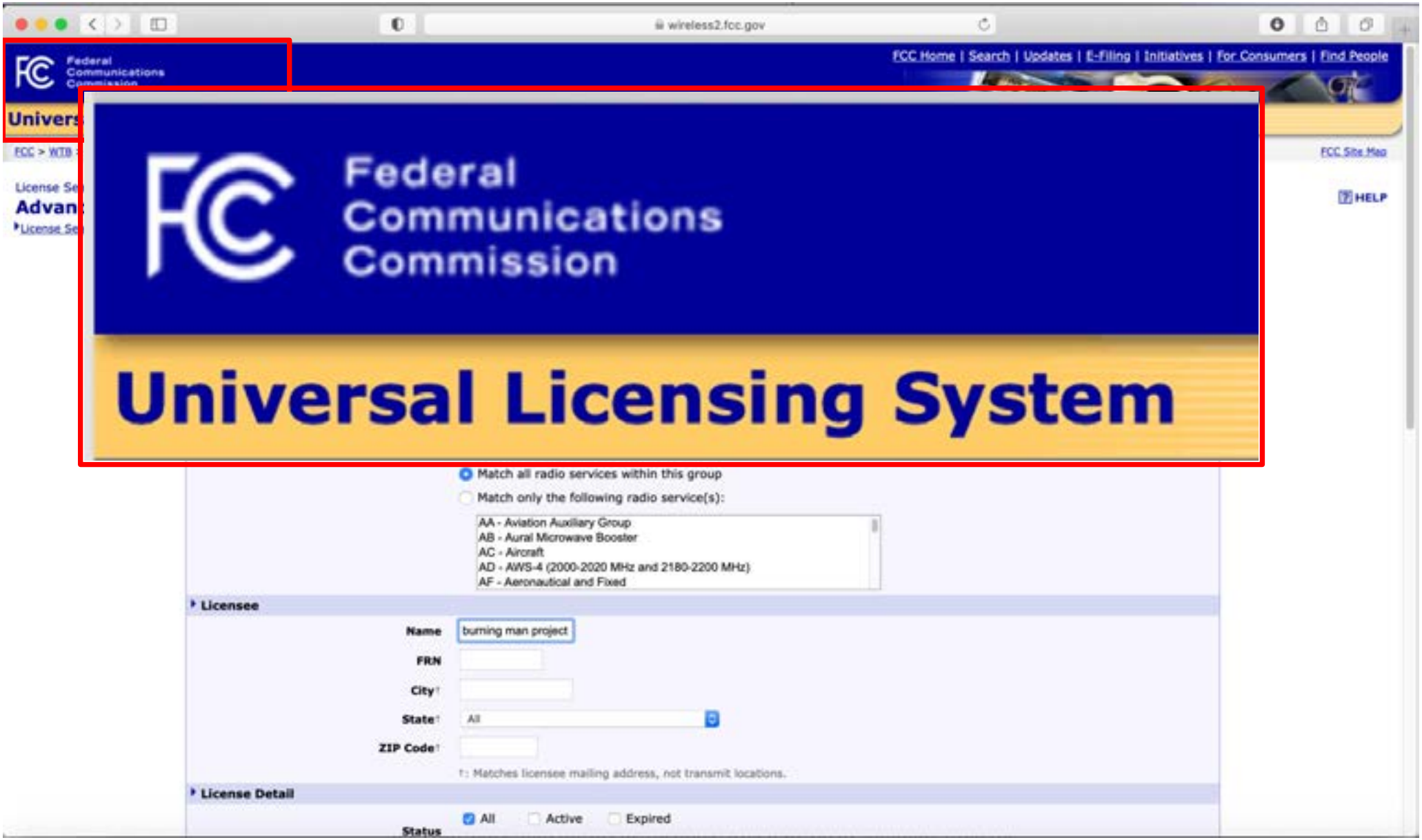
What To Get?

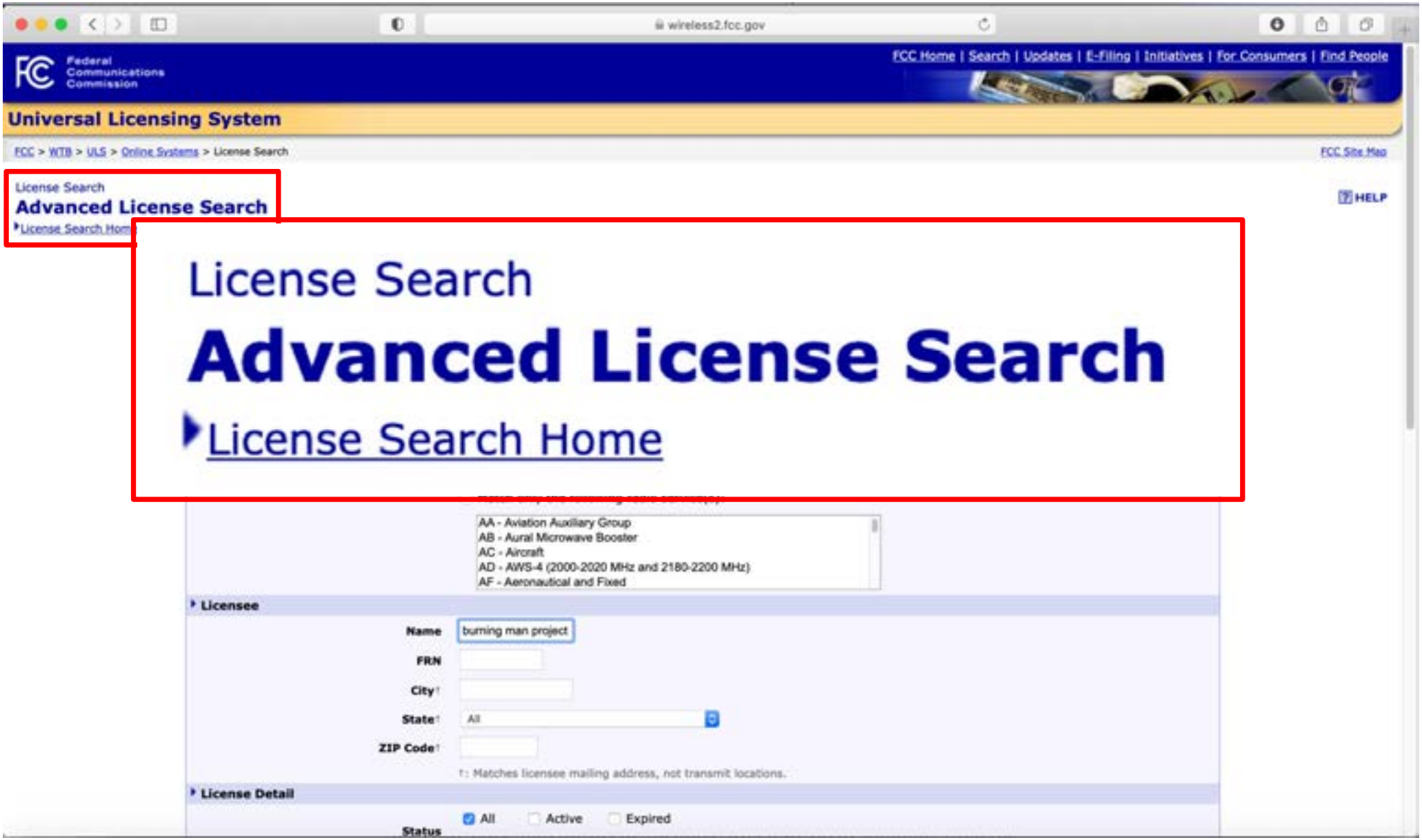
Motorola XPR 7550e

What To Get?

Motorola XPR 7550e

VHF or UHF (not both)


wireless2.fcc.gov
Federal Communications Commission
FCC Home | Search | Updates | E-Filing | Initiatives | For Consumers | Find People
Federal Communications Commission
Universal Licensing System
FCC Site Map
HELP
Match all radio services within this group
Match only the following radio service(s):
AA - Aviation Auxiliary Group
AB - Aural Microwave Booster
AC - Aircraft
AD - AWS-4 (2000-2020 MHz and 2180-2200 MHz)
AF - Aeronautical and Fixed
Licensee
Name
burning man project
FRN
City†
State†
All
ZIP Code†
†: Matches licensee mailing address, not transmit locations.
License Detail
Status
All
Active
Expired


wireless2.fcc.gov
Federal Communications Commission
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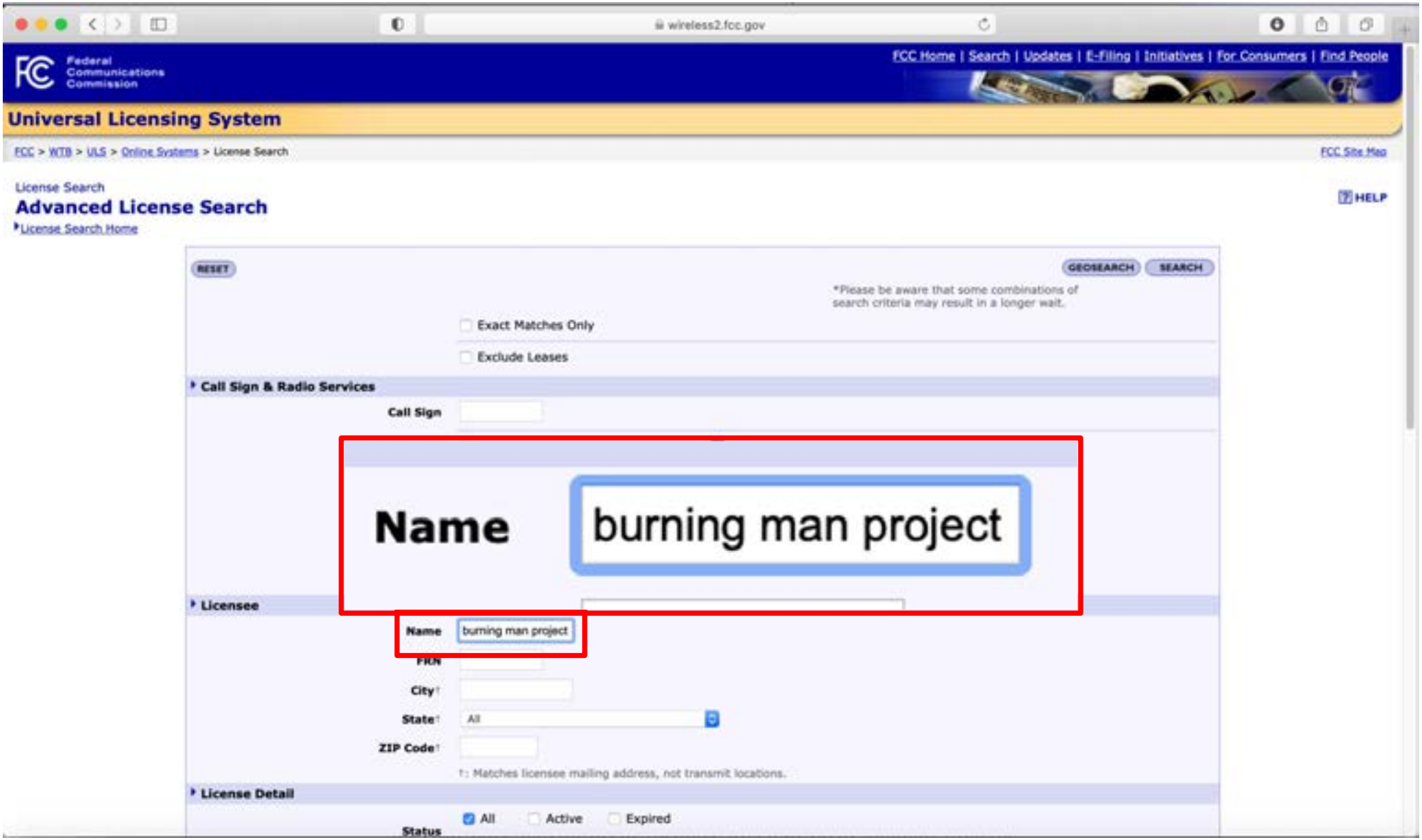
Universal Licensing System
FCC > WTB > ULS > Online Systems > License Search
FCC Site Map
License Search
Advanced License Search
License Search Home
HELP
License Search
Advanced License Search
License Search Home
AA - Aviation Auxiliary Group
AB - Aural Microwave Booster
AC - Aircraft
AD - AWS-4 (2000-2020 MHz and 2180-2200 MHz)
AF - Aeronautical and Fixed
Licensee
Name
burning man project
FRN
City†
State†
All
ZIP Code†
†: Matches licensee mailing address, not transmit locations.
License Detail
Status
All
Active
Expired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Federal Communications Commission
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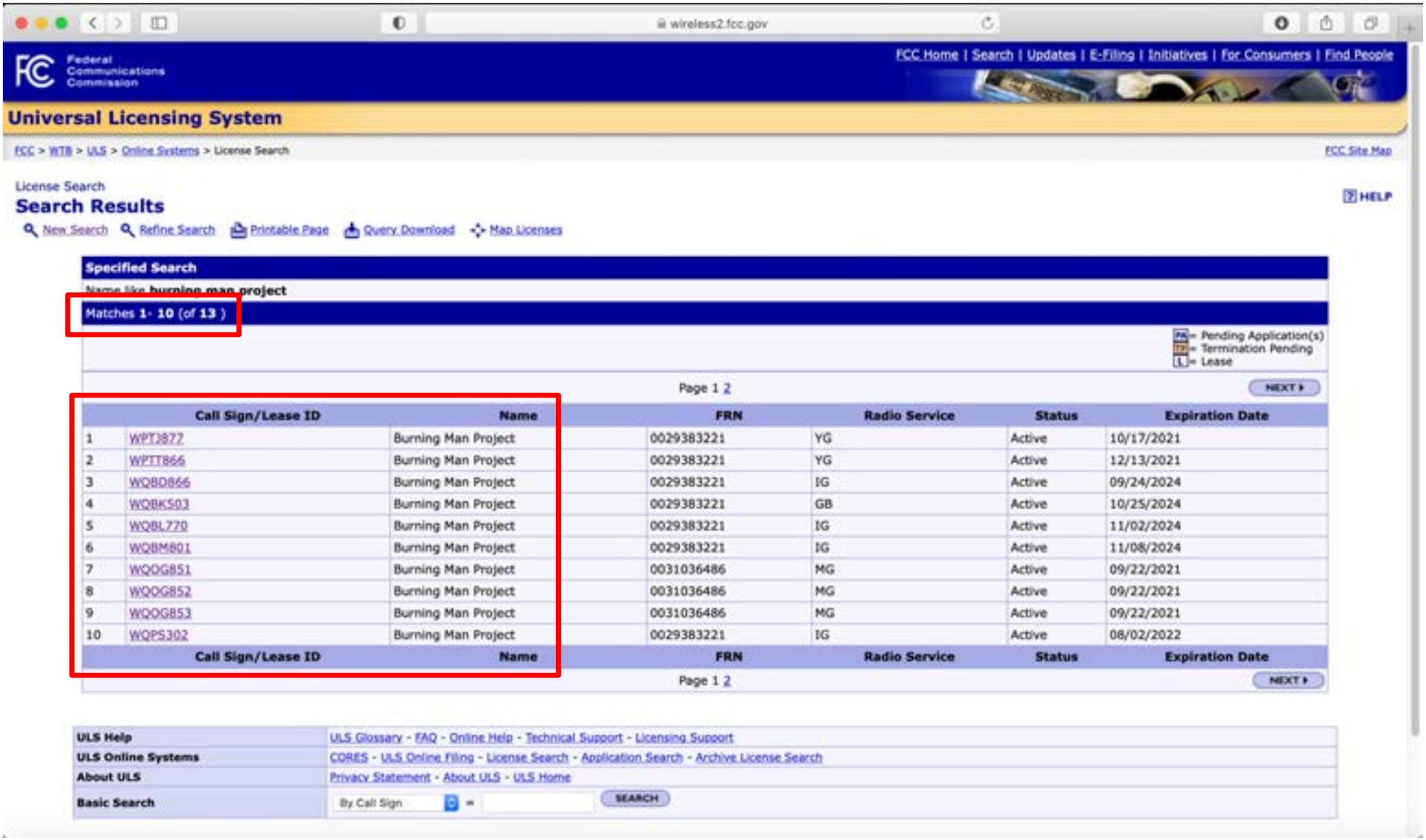
Universal Licensing System
FCC > WTB > ULS > Online Systems > License Search
FCC Site Map
License Search
Advanced License Search
License Search Home
HELP
RESET
GEOSEARCH
SEARCH
*Please be aware that some combinations of search criteria may result in a longer wait.
Exact Matches Only
Exclude Leases
Call Sign & Radio Services
Call Sign
Name
burning man project
Licensee
Name
burning man project
FRN
City†
State†
All
ZIP Code†
†: Matches licensee mailing address, not transmit locations.
License Detail
Status
All
Active
Expired



wireless2.fcc.gov

Federal Communications Commission

FCC Home | Search | Updates | E-Filing | Initiatives | For Consumers | Find People

Universal Licensing System

FCC > WTB > ULS > Online Systems > License Search

FCC Site Map

License Search

Search Results

HELP

New Search | Refine Search | Printable Page | Query Download | Map Licenses

Specified Search

Name like burning man project

Matches 1- 10 (of 13)

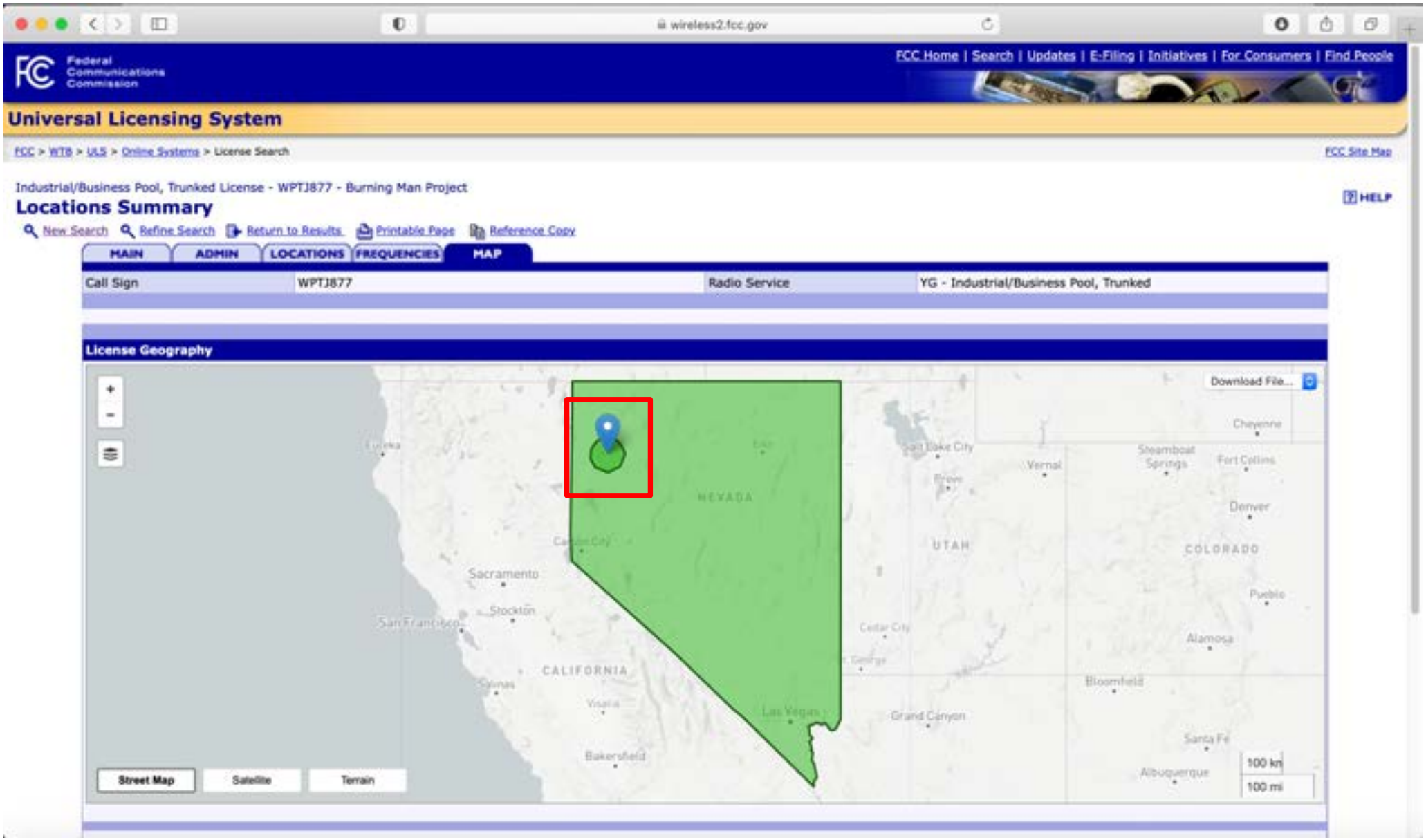
= Pending Application(s)
= Termination Pending
= Lease

Page 1 2 NEXT

	Call Sign/Lease ID	Name	FRN	Radio Service	Status	Expiration Date
1	WPTJ877	Burning Man Project	0029383221	YG	Active	10/17/2021
2	WPTT866	Burning Man Project	0029383221	YG	Active	12/13/2021
3	WQBD866	Burning Man Project	0029383221	IG	Active	09/24/2024
4	WQBK503	Burning Man Project	0029383221	GB	Active	10/25/2024
5	WQBL770	Burning Man Project	0029383221	IG	Active	11/02/2024
6	WQBM801	Burning Man Project	0029383221	IG	Active	11/08/2024
7	WQOG851	Burning Man Project	0031036486	MG	Active	09/22/2021
8	WQOG852	Burning Man Project	0031036486	MG	Active	09/22/2021
9	WQOG853	Burning Man Project	0031036486	MG	Active	09/22/2021
10	WQPS302	Burning Man Project	0029383221	IG	Active	08/02/2022
	Call Sign/Lease ID	Name	FRN	Radio Service	Status	Expiration Date

Page 1 2 NEXT

ULS Help	ULS Glossary - FAQ - Online Help - Technical Support - Licensing Support
ULS Online Systems	CORES - ULS Online Filing - License Search - Application Search - Archive License Search
About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By Call Sign = SEARCH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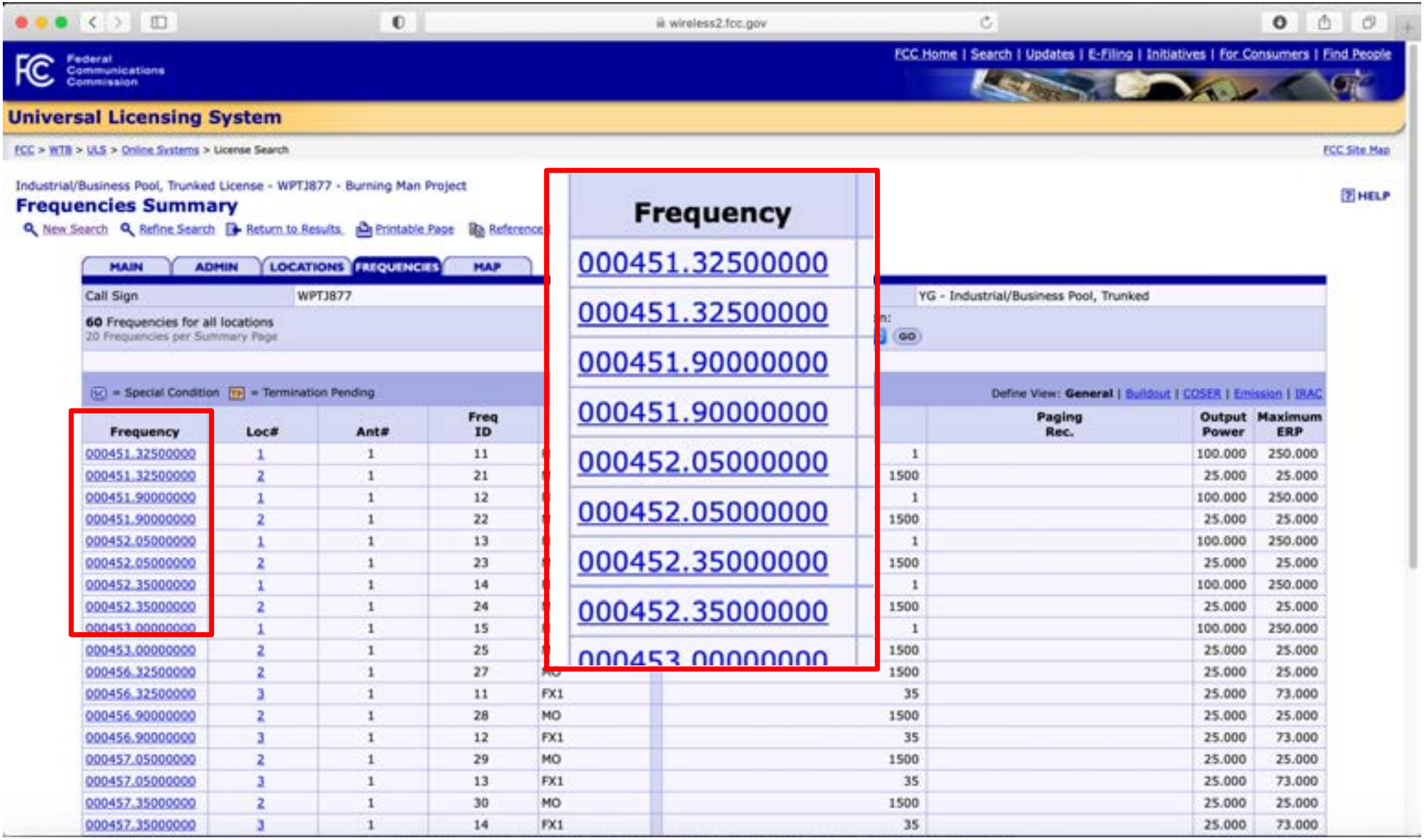
Federal Communications Commission
FCC Home | Search | Updates | E-Filing | Initiatives | For Consumers | Find People
Universal Licensing System
FCC > WTB > ULS > Online Systems > License Search
FCC Site Map
Industrial/Business Pool, Trunked License - WPTJ877 - Burning Man Project
Locations Summary
HELP
New Search
Refine Search
Return to Results
Printable Page
Reference Copy
MAIN
ADMIN
LOCATIONS
FREQUENCIES
MAP
Call Sign
WPTJ877
Radio Service
YG - Industrial/Business Pool, Trunked
License Geography
Download File...
NEVADA
UTAH
COLORADO
CALIFORNIA
Sacramento
Stockton
San Francisco
Las Vegas
Grand Canyon
Bakersfield
Albuquerque
Santa Fe
Bloomfield
Alamosa
Pueblo
Denver
Cheyenne
Fort Collins
Steamboat Springs
Vernal
Cedar City
Street Map
Satellite
Terrain
100 km
100 mi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Industrial/Business Pool, Trunked License - WPTJ877 - Burning Man Project
Frequencies Summary
HELP
New Search | Refine Search | Return to Results | Printable Page | Reference
MAIN | ADMIN | LOCATIONS | FREQUENCIES | MAP
Call Sign WPTJ877
YG - Industrial/Business Pool, Trunked
60 Frequencies for all locations
20 Frequencies per Summary Page
GO
= Special Condition = Termination Pending
Define View: General | Buildout | COSER | Emission | IRAC
Frequency
000451.32500000
000451.32500000
000451.90000000
000451.90000000
000452.05000000
000452.05000000
000452.35000000
000452.35000000
000453.00000000
Frequency | Loc# | Ant# | Freq ID | Paging Rec. | Output Power | Maximum ERP
000451.32500000 | 1 | 1 | 11 | 1 | 100.000 | 250.000
000451.32500000 | 2 | 1 | 21 | 1500 | 25.000 | 25.000
000451.90000000 | 1 | 1 | 12 | 1 | 100.000 | 250.000
000451.90000000 | 2 | 1 | 22 | 1500 | 25.000 | 25.000
000452.05000000 | 1 | 1 | 13 | 1 | 100.000 | 250.000
000452.05000000 | 2 | 1 | 23 | 1500 | 25.000 | 25.000
000452.35000000 | 1 | 1 | 14 | 1 | 100.000 | 250.000
000452.35000000 | 2 | 1 | 24 | 1500 | 25.000 | 25.000
000453.00000000 | 1 | 1 | 15 | 1 | 100.000 | 250.000
000453.00000000 | 2 | 1 | 25 | 1500 | 25.000 | 25.000
000456.32500000 | 2 | 1 | 27 | 1500 | 25.000 | 25.000
000456.32500000 | 3 | 1 | 11 | FX1 | 35 | 25.000 | 73.000
000456.90000000 | 2 | 1 | 28 | MO | 1500 | 25.000 | 25.000
000456.90000000 | 3 | 1 | 12 | FX1 | 35 | 25.000 | 73.000
000457.05000000 | 2 | 1 | 29 | MO | 1500 | 25.000 | 25.000
000457.05000000 | 3 | 1 | 13 | FX1 | 35 | 25.000 | 73.000
000457.35000000 | 2 | 1 | 30 | MO | 1500 | 25.000 | 25.000
000457.35000000 | 3 | 1 | 14 | FX1 | 35 | 25.000 | 73.000

APX™ 8000XE ALL-BAND PORTABLE RADIO

Unlimited Mobility. Extreme Performance.

Working together with firefighters around the world, we designed the APX™ XE Series; a complete portfolio of ergonomically advanced, ultra-rugged radios and accessories that is safe, easy and efficient to use.

Firefighters said they wanted equivalent extreme features as the APX XE Series including a larger display, exaggerated control knobs and the capability to communicate with surrounding municipalities within an all-band radio solution. The APX 8000XE brings together not only these requirements, but also the integration of WiFi for programming flexibility.

The APX 8000XE is redefining mission critical communications by delivering an ultra-durable radio that combines unlimited interoperability, loud audio and secure WiFi connectivity. With a dedicated channel knob and ability to withstand 500˚F (260˚C) heat exposure, the APX XE500 Remote Speaker Microphone is the perfect companion to the APX 8000XE. When combined, the APX 8000XE All-Band Portable Radio and XE500 Remote Speaker Microphone create the ultimate mission critical solution designed for safety personnel in extreme environments.

$ Have one to sell? Sell now

TESTED MOTOROLA APX APX8000XE P25 TDMA RADIO FPP VHF 7-800 UHF DIGITAL FPP AES

18 viewed per hour ★★★★★ 5 product ratings

Condition: **Seller refurbished**

"*BENCH TESTED , FPP, BLUETOOTH , GPS, ADP, AES , RADIO ANTENNA , BATTERY*"

Price: **US $4,249.99**

$190 for 24 months with PayPal Credit*

Buy It Now

Add to cart

Add to Watchlist

Ships from United States | 6 watchers

Shipping: **$45.00** Expedited Shipping | See details

Located in: Port Jervis, New York, United States

Ships to: United States and many other countries | See details

Delivery: Estimated between **Sat. Aug. 21** and **Tue. Aug. 24** to 94518

Payments: PayPal, Pay, G Pay, VISA, MasterCard, American Express

See details

PayPal CREDIT

*$190 for 24 months. Minimum purchase required. | See terms and apply now

Earn up to 5x points when you use your eBay Mastercard®. Learn more

Returns: Seller does not accept returns | See details

What To Get?

Motorola XPR 7550e

VHF or UHF (not both)

VHF – AAH56JDN9?A1AN

UHF – AAH56RDN9?A1AN

Wi-Fi, GPS, Bluetooth

What To Get?

Programming Cable PMKN4012B

What To Get?

Programming Cable
PMKN4012B

Motorola $99.99

What To Get?

Programming Cable
PMKN4012B

Motorola $99.99
or
BlueMax49ers $27.95

Photo by
Kerry Veenstra

What To Get?

Programming Software

MotoTRBO CPS
Version R16.0 (build 828)

MotoTRBO CPS 2.0
Version R2.26.203.0

What To Get?

Programming Software

MotoTRBO CPS

HKVN4362A

What To Get?

Programming Software

MotoTRBO CPS

HKVN4362A

3-Year License $169

Compare

Yaesu FT-60R 144/430 MHz Dual-Band HTs

★★★★½ (33)

$154.95

Free Shipping

+ 4×

Photos by
amazon.com
starbucks.com

What To Get?

Wideband Entitlement ID Allows 25 kHz Bandwidth

HKVN4046A

What To Get?

Wideband Entitlement ID Allows 25 kHz Bandwidth

HKVN4046A

$0

Narrowbanding Mandate Training (for widebanding entitlement license)

Completed October 14, 2019

PRD0001
MOL -> Resource Center -> Product Information -> Narrowbanding
Objectives
1 Spectrum efficiency
  150-174 and 420-470 migrate to 12.5 kHz by Jan 1, 2013.
  exception for 470-512 MHz
  exception part 97 amateur radio
2 ASTRO/PCR
  default to 12.5 kHz
  CPS will require some method to enable 25 kHz
  Personnel must complete this course.
3 Getting 25 kHz tools
  Step 1 complete class
  Step 2 Enablement or get authorization
  Step 3 Order
  XPR radios need to be enabled through a CPS option
  PCR Part # to order:
    HKVN4046A: License for CPS, MotoTRBO XPR series
    HKVN4182A: License for CPS, CP200
4 Next steps
  Download and save class certificate (may be required during ordering)
  Expect about 3 days until able to order part numbers.
5 responsibility to follow rules

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Completed October 14, 2019

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  Download and save class certificate (may be required during ordering)
  Expect about 3 days until able to order part numbers.
5 responsibility to follow rules

MOTOROLA SOLUTIONS

Certificate of Completion

Kerry Veenstra

has successfully completed

PRD0001

FCC NARROWBANDING MANDATE TRAINING

Company: Kerry Veenstra

Completion Date: 14-Oct-2019

Getting Everything

2019-10-03	Thursday	6:50 pm	Case Number [redacted] (for getting site access). Received email with questionnaire.
2019-10-03	Thursday	7:08 pm	Sent email with answers to questionnaire
2019-10-03	Thursday	7:08 pm	Received email confirmation of submission
2019-10-07	Monday	9:47 am	Received email of MOL account activation. Account number [redacted]. Need to wait 24 hours before accepting software license agreement.
2019-10-08	Tuesday	11:19 am	Submitting my acceptance of the software license agreement generated an error. Called and confirmed that there is a record of my acceptance. Told that I should expect an email confirmation by Friday.
2019-10-14	Monday	7:44 am	Case Number [redacted] (for licensing for the account). Need Narrowbanding Mandate Training PRD0001. learning.motorola-solutions.com Order number [redacted]
2019-10-14	Monday	1:56 pm	Your account has been updated to reflect your license agreement. You should be able to order software now.
2019-10-14	Monday	9:53 pm	Cannot search for software.

Questionnaire

1. **Do you have an established account number with Motorola Solutions? If so, what is that number?**
2. **If for business use, please provide your organization's legal name (no abbreviations)? NOTE: If not for business use your name will be used as the account name.**
3. **Are you purchasing Software?**
4. **Are you a State or Local Government entity?**
5. **Are you a Not-for-Profit entity?**
6. **Do you work for or contract for the US Federal Government?**
7. **What is your organization's Shipping Address for online orders? (must be a physical address)**
8. **What is your organization's Billing Address?**
9. **Briefly describe what you are looking to acquire from Motorola Online?**

QUESTIONNAIRE

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- **Motorola CPS License and Download**
- **Activation key for 20/25kHz Channel Bandwidth feature**
- **XPR7550e Accessories**

9. **Briefly describe what you are looking to acquire from Motorola Online?**

Getting Everything

2019-10-03 Thursday	6:50 pm	Case Number [redacted] (for getting site access). Received email with questionnaire.
2019-10-03 Thursday	7:08 pm	Sent email with answers to questionnaire
2019-10-03 Thursday	7:08 pm	Received email confirmation of submission
2019-10-07 Monday	9:47 am	Received email of MOL account activation. Account number [redacted]. Need to wait 24 hours before accepting software license agreement.
2019-10-08 Tuesday	11:19 am	Submitting my acceptance of the software license agreement generated an error. Called and confirmed that there is a record of my acceptance. Told that I should expect an email confirmation by Friday.
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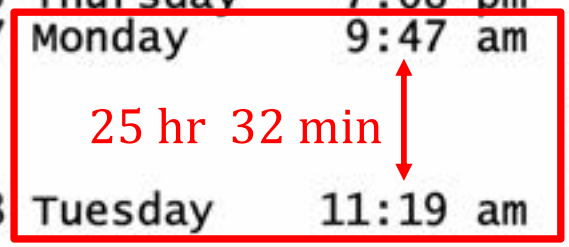

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2019-10-15 Tuesday	6:16 am	Order submitted.
2019-10-16 Wednesday		Installed. Able to read radio, but unable to save a file. Error message is "Error #1837. A file needed for application could not be found or is corrupted. Please re-install the application. If you continue to get this message, please contact Customer Service." Re-installing and rebooting does not eliminate the message.

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Getting Everything

2019-10-17 Thursday	9:40 am	Need to run as Administrator.
2019-10-29 Tuesday	6:29 am	Must buy radio licenses through a dealer. Golden State Communications. Decided to use North Georgia Communications.
2019-10-30 Wednesday	10:20 am	Not seeing firmware in MOL. Software subscription was in MyView, but now has added my software subscription to MOL.

October 3 to October 17:

Two weeks to get running software!

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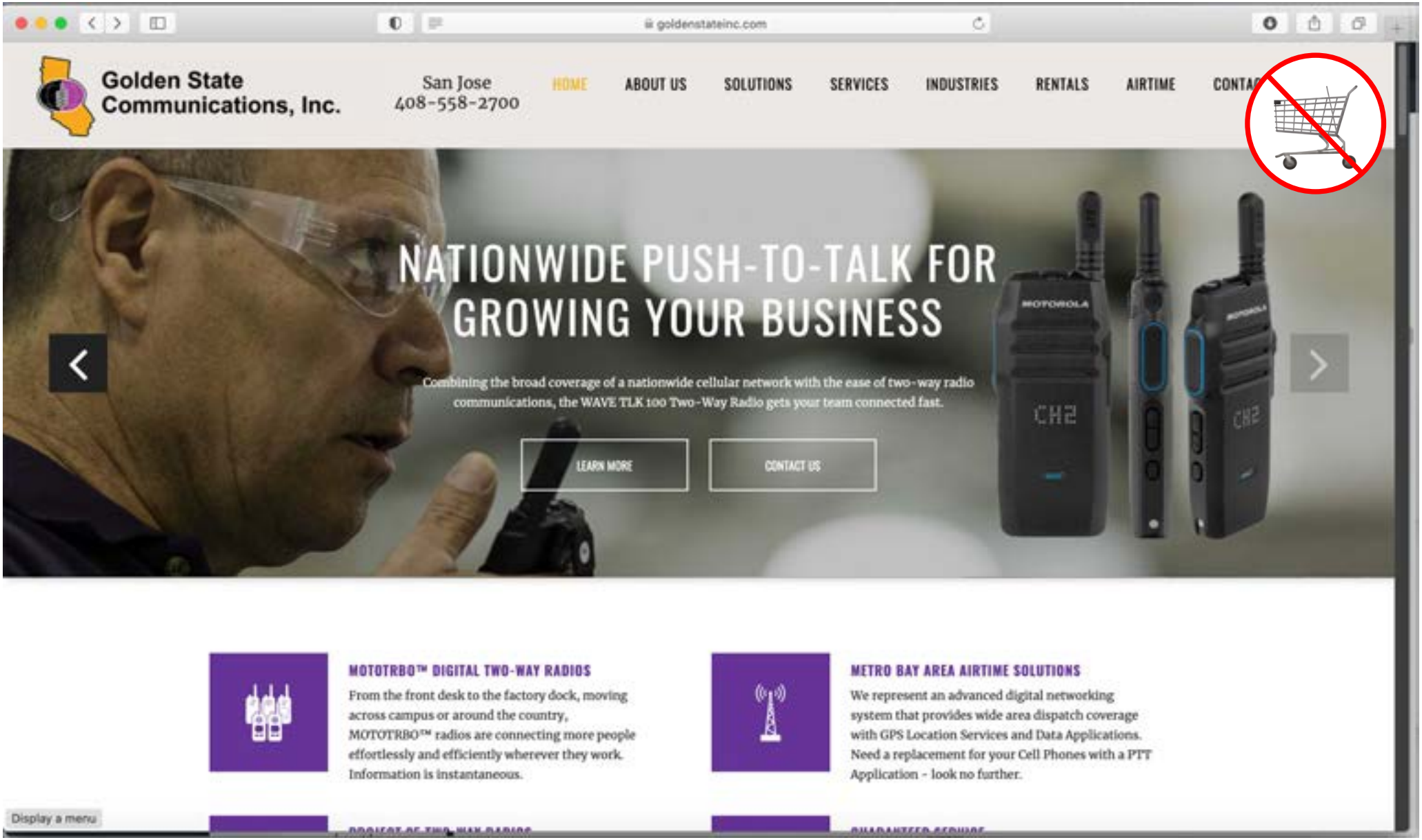
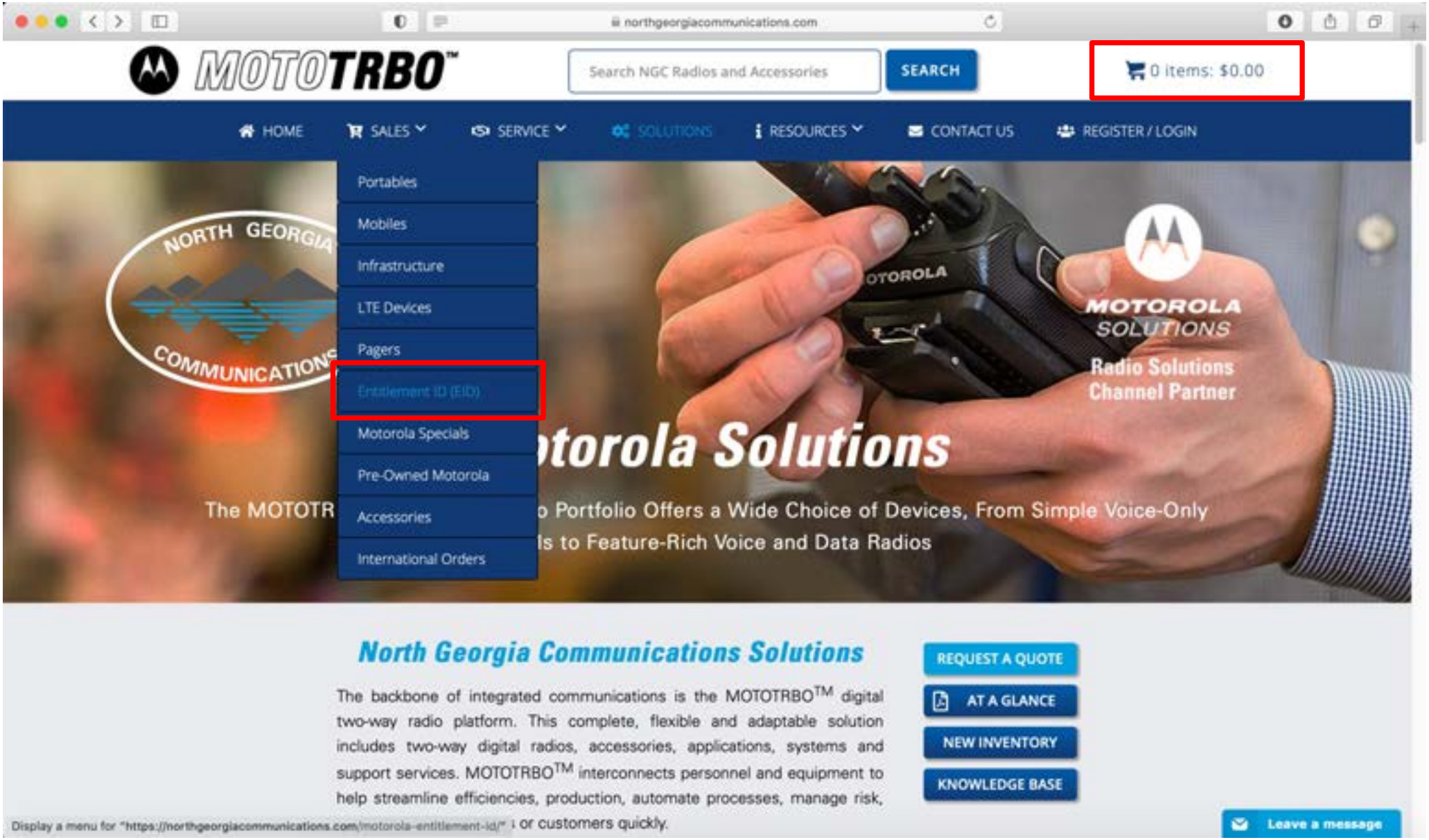
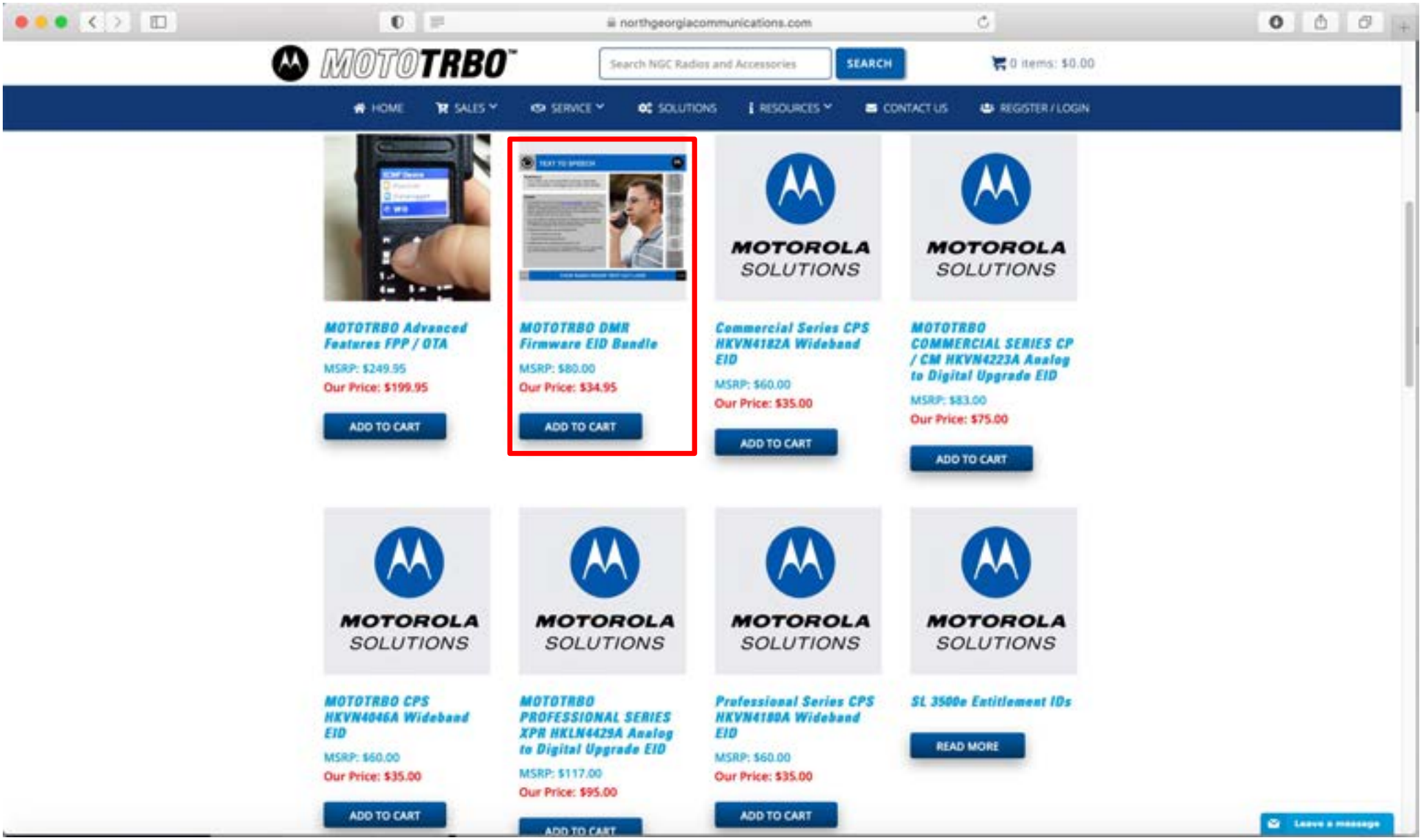

goldenstateinc.com
Golden State Communications, Inc.
San Jose
408-558-2700
HOME
ABOUT US
SOLUTIONS
SERVICES
INDUSTRIES
RENTALS
AIRTIME
NATIONWIDE PUSH-TO-TALK FOR GROWING YOUR BUSINESS
Combining the broad coverage of a nationwide cellular network with the ease of two-way radio communications, the WAVE TLK 100 Two-Way Radio gets your team connected fast.
LEARN MORE
CONTACT US
MOTOTRBO™ DIGITAL TWO-WAY RADIOS
From the front desk to the factory dock, moving across campus or around the country, MOTOTRBO™ radios are connecting more people effortlessly and efficiently wherever they work. Information is instantaneous.
METRO BAY AREA AIRTIME SOLUTIONS
We represent an advanced digital networking system that provides wide area dispatch coverage with GPS Location Services and Data Applications. Need a replacement for your Cell Phones with a PTT Application - look no further.
Display a menu


northgeorgiacommunications.com
MOTOTRBO™
Search NGC Radios and Accessories
SEARCH
0 items: $0.00
HOME
SALES
SERVICE
SOLUTIONS
RESOURCES
CONTACT US
REGISTER / LOGIN
Portables
Mobiles
Infrastructure
LTE Devices
Pagers
Entitlement ID (EID)
Motorola Specials
Pre-Owned Motorola
Accessories
International Orders
NORTH GEORGIA COMMUNICATIONS
MOTOROLA SOLUTIONS
Radio Solutions Channel Partner
otorola Solutions
The MOTOTR
o Portfolio Offers a Wide Choice of Devices, From Simple Voice-Only
ls to Feature-Rich Voice and Data Radios
North Georgia Communications Solutions
The backbone of integrated communications is the MOTOTRBO™ digital two-way radio platform. This complete, flexible and adaptable solution includes two-way digital radios, accessories, applications, systems and support services. MOTOTRBO™ interconnects personnel and equipment to help streamline efficiencies, production, automate processes, manage risk,
or customers quickly.
REQUEST A QUOTE
AT A GLANCE
NEW INVENTORY
KNOWLEDGE BASE
Display a menu for "https://northgeorgiacommunications.com/motorola-entitlement-id/"
Leave a message


northgeorgiacommunications.com
MOTOTRBO
Search NGC Radios and Accessories
SEARCH
0 items: $0.00
HOME
SALES
SERVICE
SOLUTIONS
RESOURCES
CONTACT US
REGISTER / LOGIN
MOTOTRBO Advanced Features FPP / OTA
MSRP: $249.95
Our Price: $199.95
ADD TO CART
MOTOTRBO DMR Firmware EID Bundle
MSRP: $80.00
Our Price: $34.95
ADD TO CART
Commercial Series CPS HKVN4182A Wideband EID
MSRP: $60.00
Our Price: $35.00
ADD TO CART
MOTOTRBO COMMERCIAL SERIES CP / CM HKVN4223A Analog to Digital Upgrade EID
MSRP: $83.00
Our Price: $75.00
ADD TO CART
MOTOROLA SOLUTIONS
MOTOTRBO CPS HKVN4046A Wideband EID
MSRP: $60.00
Our Price: $35.00
ADD TO CART
MOTOTRBO PROFESSIONAL SERIES XPR HKLN4429A Analog to Digital Upgrade EID
MSRP: $117.00
Our Price: $95.00
ADD TO CART
Professional Series CPS HKVN4180A Wideband EID
MSRP: $60.00
Our Price: $35.00
ADD TO CART
SL 3500e Entitlement IDs
READ MORE
Leave a message

DMR Entitlement ID Bundle

Featured EIDs

HKVN4281 Text to Speech

Your radio can now read text out loud: channels, zones, functions, messages and work order tickets.

HKVN4492 RX Audio Leveling

Your radio adjusts for inconsistent audio levels on the other end.

HKVN4373 Sinc Enhanced Noise Cancellation

Your radio gives you more options to filter out background noise, so you're heard more clearly.

HKVN4493 Mute Mode

Easily mute and unmute your radio as you move between noisy and quiet environments.

TEXT TO SPEECH

Summary:

- Your radio can now read text out loud: channels, zones, functions, messages and work order tickets.

Detail:

- This feature is an add-on to Voice Announcement. It removes the dependency on pre-recorded voice announcement files by installing speech synthesis software on the radio itself. Channel names, zones, programmable button functions, text messages and work order tickets are all read out loud to you.
- You can define a custom dictionary to ensure accurate readout of abbreviations and industry specific terminology, and choose from 27 different languages and several different voices.
- Programmable buttons can be configured to:
  - Turn the feature on and off.
  - Repeat the last announcement.
- All parameters are configurable using the CPS.
- This feature was introduced in software release 2.4. For each radio, you must purchase a license (HKVN4281) to use the feature.

SL 7500e
XPR 7500e
XPR 7300e
XPR 7580e IS
XPR 5500e
XPR 5300e
~~XPR 3500e~~
~~XPR 3300e~~
~~SL3500e~~

SL 7500
XPR 7550 IS
XPR 7500
XPR 7300
~~XPR 6550 IS~~
~~XPR 6500~~
~~XPR 6300~~
~~XPR 6100~~
XPR 5500
XPR 5300
~~XPR 4500~~
~~XPR 4300~~
~~XPR 3500~~
~~XPR 3300~~
~~XPR 2500~~

~~SL300~~
~~CM300d~~
~~CM200d~~
~~CP200d~~

Direct Mode
Conventional
IP Site Connect
Capacity Plus
Capacity Max
Connect Plus

YOUR RADIO READS TEXT OUT LOUD

V 2.9

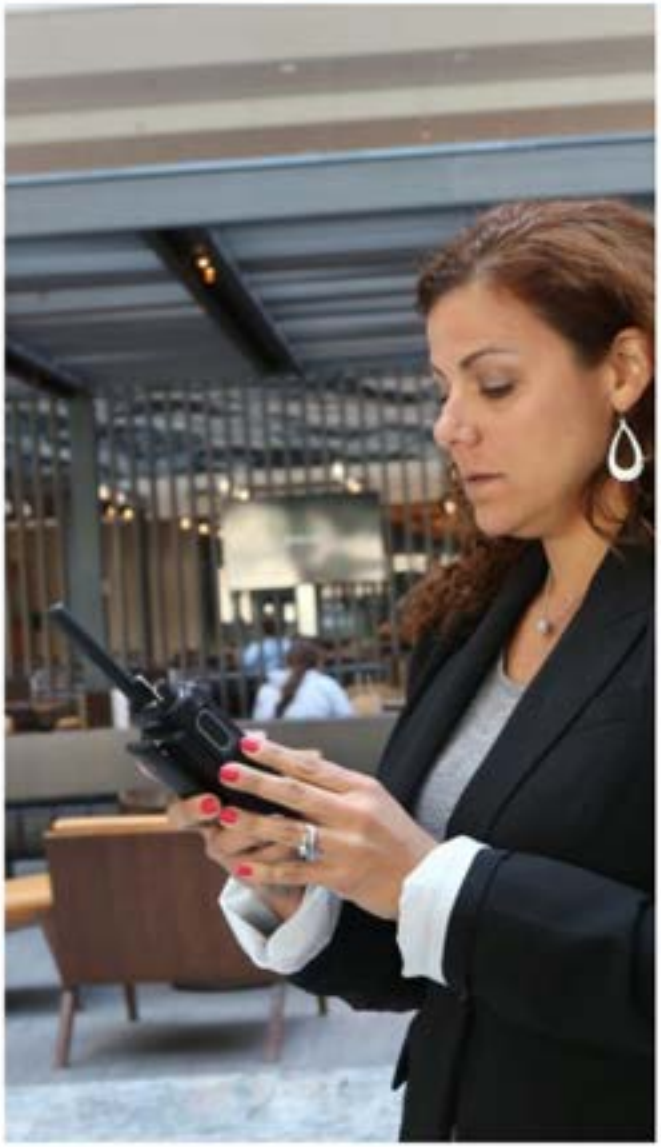
RX AUDIO LEVELING

Summary:

- Your radio adjusts for inconsistent audio levels on the other end.

Detail:

- MOTOTRBO radios are constantly extending their ability to deliver clear and intelligible audio. Rx Audio Leveling enhances your audio to make sure audio levels are consistent no matter who or what is on the other end.
- If you have mixed fleets of radios you have likely experienced varying audio levels. Rx Audio Leveling adjusts every received transmission to the desired volume level so that the delivered audio is consistent for all transmissions.
- If you have a mixed configuration of radios (e.g. Tx AGC ON for some, Tx AGC OFF for others; some radios with accessories, others without, etc) you have likely experienced varying audio levels. Rx Audio Leveling keeps your audio consistent over a wide range of transmit levels and user-use positions.
- Rx Audio Leveling requires radio license **HKVN4492** to operate and delivers significant benefit to the overall audio experience.
- Available in Analog and Digital Mode



SL 7500e
XPR 7500e
XPR 7300e
XPR 7580e IS
XPR 5500e
XPR 5300e
XPR 3500e
XPR 3300e
SL3500e

SL 7500
XPR 7550 IS
XPR 7500
XPR 7300
~~XPR 6580 IS~~
~~XPR 6500~~
~~XPR 6300~~
~~XPR 6100~~
XPR 5500
XPR 5300
~~XPR 4500~~
~~XPR 4300~~
XPR 3500
XPR 3300
~~XPR 2500~~

~~SL300~~
~~CM300d~~
~~CM200d~~
~~CP200d~~

Direct Mode
Conventional
IP Site Connect
Capacity Plus
Capacity Max
Connect Plus

CONSISTENT AUDIO, FOR ALL VOLUMES

V 2.9

SINC+ NOISE CANCELLATION

Summary:

- Your radio gives you more options to filter out background noise, so you're heard more clearly.

Detail:

- All MOTOTRBO radios have **basic** noise cancellation, which provides effective suppression of background noise in a wide range of user environments.
- SINC+ (enhanced Single-input Industrial Noise Cancellation) provides two new configurations: "Enhanced" and "Enhanced Auto".
  - "**Enhanced**" applies exceptionally effective suppression of background noise for environments that are consistently noisy.
  - "**Enhanced Auto**" adapts the amount of suppression based on the volume of ambient noise detected, and is ideally suited for users who move between quiet and loud environments. In a noisy situation, the maximum noise suppression is applied. In a quiet situation, only a little noise suppression is applied, and maximum speech detail is retained.
- SINC+ is very affordable, although not quite as effective as dedicated dual-microphone noise-cancellation accessories.
- This feature was introduced in software release 2.5. For each radio, you must purchase a license (HKVN4373) to use the feature.

SL 7500e
XPR 7500e
XPR 7300e
XPR 7580e IS
~~XPR 6500e~~
~~XPR 6300e~~
XPR 3500e
~~XPR 3300e~~
~~SL3500e~~

SL 7500
XPR 7550 IS
XPR 7500
XPR 7300
~~XPR 6550 IS~~
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~~XPR 6300~~
~~XPR 6100~~
~~XPR 5500~~
~~XPR 5300~~
~~XPR 4500~~
~~XPR 4300~~
XPR 3500
XPR 3300
~~XPR 2500~~

~~SL300~~
~~CM300d~~
~~CM200d~~
~~CP200d~~

Direct Mode
Conventional
IP Site Connect
Capacity Plus
Capacity Max
Connect Plus

MUTE MODE

Summary:

- Easily mute and unmute your radio as you move between noisy and quiet environments.

Detail:

- This feature allows you to immediately mute your radio without turning down the volume or powering off the radio.
- In some situations, you may enter an environment where you need your radio to be silent immediately. This could range from entering a meeting, walking into a room where total silence is required, to simply having an uninterrupted conversation with another.
- Previously, you would need to lower the volume or turn off your radio entirely.
- With Mute Mode, your radio can enter a silent state, and return to your normal volume setting when appropriate.
- This can be triggered by a programmable button or a "face down" position.
- Face Down muting is only available on radios with accelerometer.
- Radios can be un-muted if there is an emergency or by a set timer that you can program on your radio.
- This feature was introduced in software release 2.7 and requires radio license **HKVN4493**.

SL 7500e
XPR 7500e
XPR 7300e
XPR 7580e IS
~~XPR 5500e~~
~~XPR 5300e~~
XPR 3500e
~~XPR 3300e~~
SL3500e

SL 7500
XPR 7550 IS
XPR 7500
XPR 7300
~~XPR 6580 IS~~
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~~XPR 6300~~
~~XPR 6100~~
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XPR 5300
~~XPR 4500~~
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XPR 3500
XPR 3300
~~XPR 2500~~

~~SL300~~
~~CM300d~~
~~CM200d~~
~~CP200d~~

Direct Mode
Conventional
IP Site Connect
Capacity Plus
Capacity Max
Connect Plus

INSTANTLY MUTE AUDIO WHENEVER NEEDED

V 2.9

What To Get?

Radio Firmware Versions

For MotoTRBO CPS
FW ≤ R02.09.01.0001

For MotoTRBO CPS 2.0
FW ≥ R02.10.xx.xxxx

Getting Everything

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Getting Everything

Started October 3.
Finished October 30.

27 Days to get a
Programmed Radio!

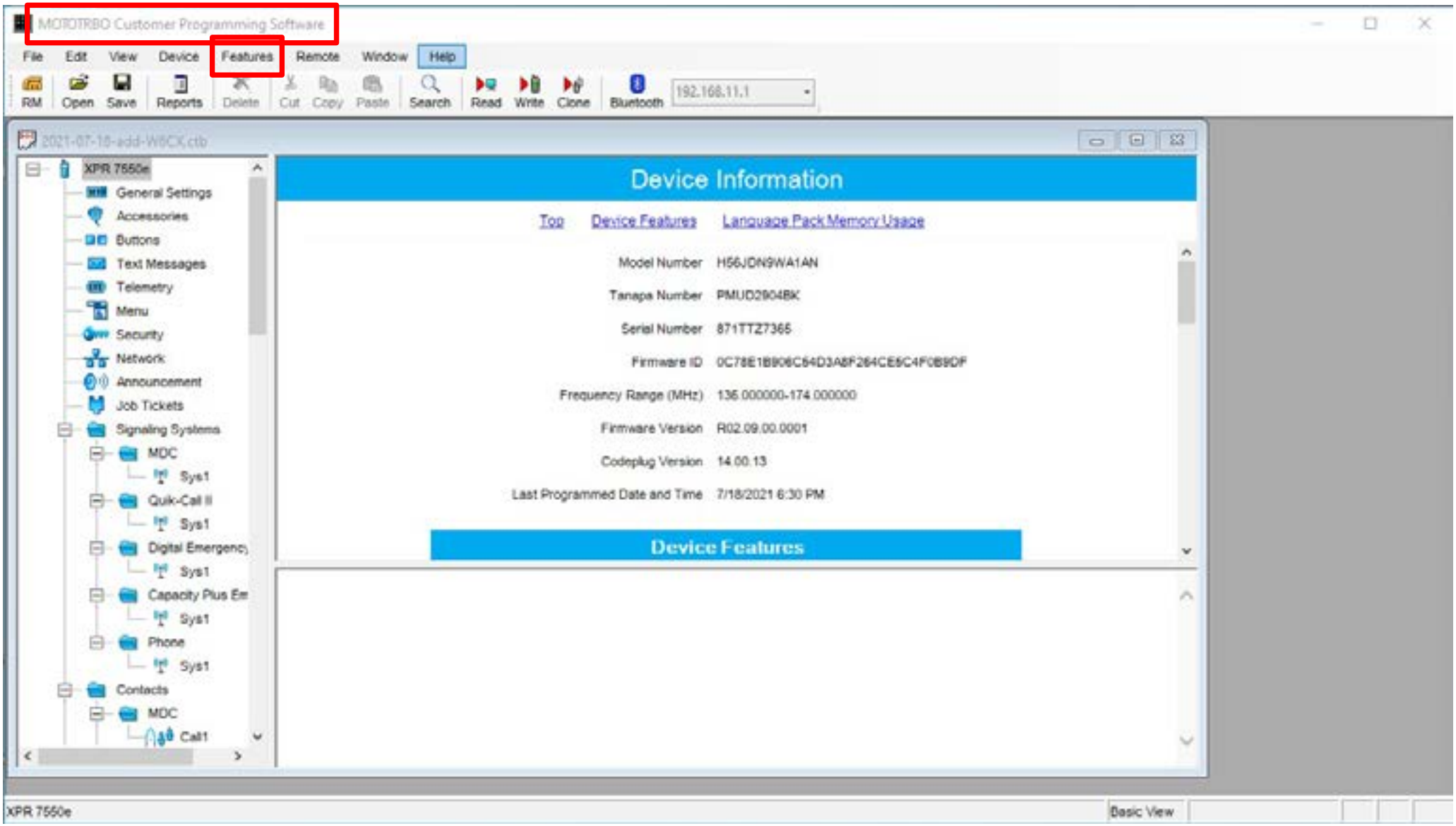
Commercial Handheld

Why do this?

What to get?

How to use?

What results?


MOTOTRBO Customer Programming Software
File
Edit
View
Device
Features
Remote
Window
Help
RM
Open
Save
Reports
Delete
Cut
Copy
Paste
Search
Read
Write
Clone
Bluetooth
192.168.11.1
2021-07-18-add-W6CK.ctb
XPR 7550e
General Settings
Accessories
Buttons
Text Messages
Telemetry
Menu
Security
Network
Announcement
Job Tickets
Signaling Systems
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Em
Sys1
Phone
Sys1
Contacts
MDC
Call1
Device Information
Top
Device Features
Language Pack Memory Usage
Model Number H56JDN9WA1AN
Tanapa Number PMUD2904BK
Serial Number 871TTZ7365
Firmware ID 0C78E1B906C64D3A8F264CE5C4F0B9DF
Frequency Range (MHz) 136.000000-174.000000
Firmware Version R02.09.00.0001
Codeplug Version 14.00.13
Last Programmed Date and Time 7/18/2021 6:30 PM
Device Features
XPR 7550e
Basic View

Installing the Wideband Entitlement ID

In the **CPS**, go to **FEATURES**.

Then **REGISTER APPLICATION FEATURES**

CUT AND PASTE EID.

Then **ACTIVATE**.

You can then **CONFIRM** by going to the **VIEW APPLICATION FEATURES**.

The 20/25 Khz Wide Band entitlement field should read **PURCHASED**.

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Installing the Radio Entitlement IDs

Similar Process:

"Features → Device Features"

(Repeat for each ID)

Programming the Radio

1. **Start MotoTRBO CPS Software**
2. **Create a Zone**
3. **Add an Analog channel**
4. **Fill in RX/TX Frequencies**
5. **Add CTCSS**

https://www.youtube.com/watch?v=r5sSE37ykQY

Zones

Photo by
Kerry Veenstra

Zones

- **Is Just a Group of Channels**
- **Example #1: Geography Zones**
  - **Santa Cruz County**
  - **Contra Costa County**

Zones

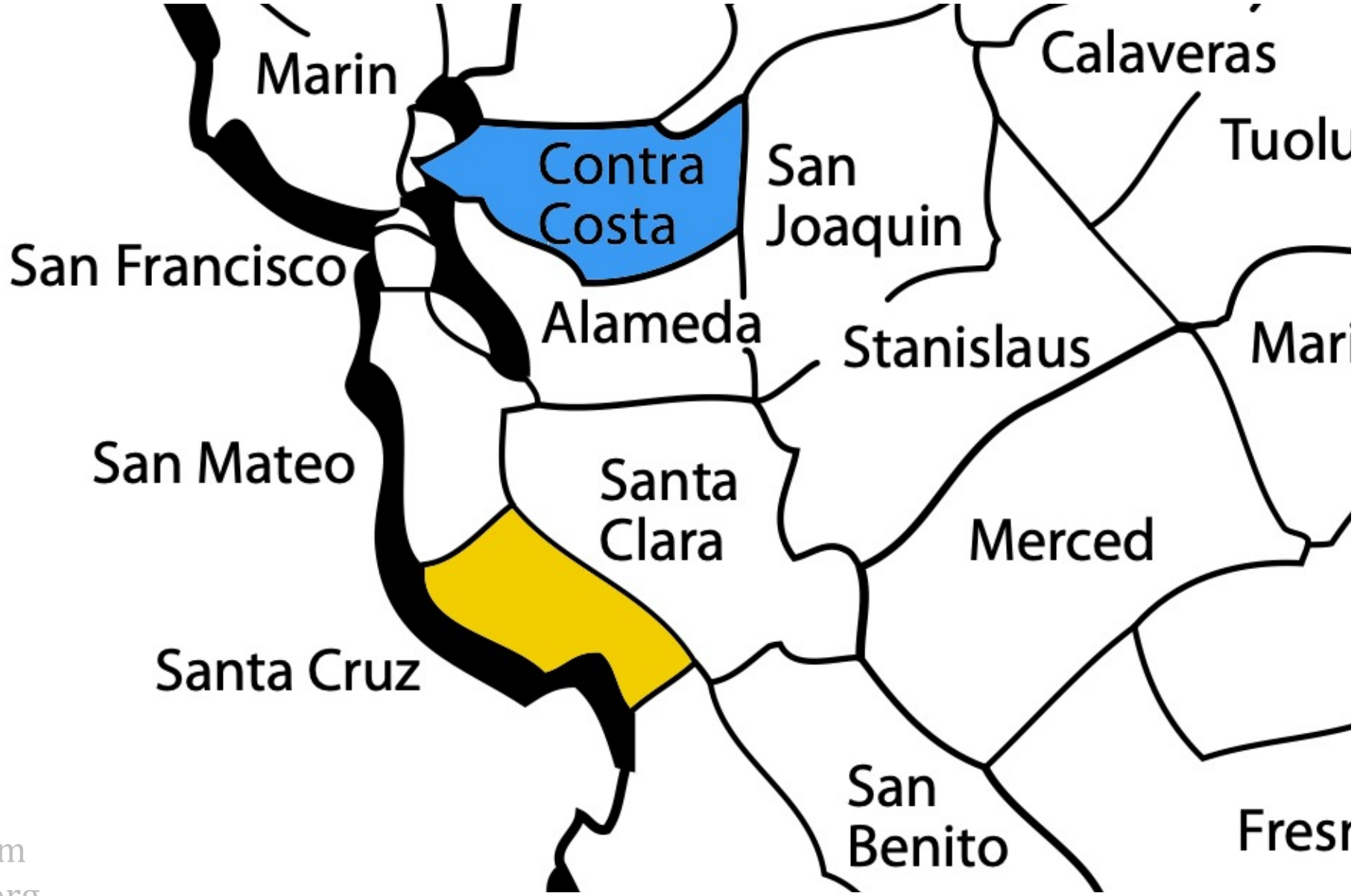

Image from counties.org

Zones

- Is Just a Group of Channels
- Example #1: Geography Zones
  - Santa Cruz County
  - Contra Costa County
- **Example #2: Department Zones**
  - **Art Department**
  - **Department of Public Works**

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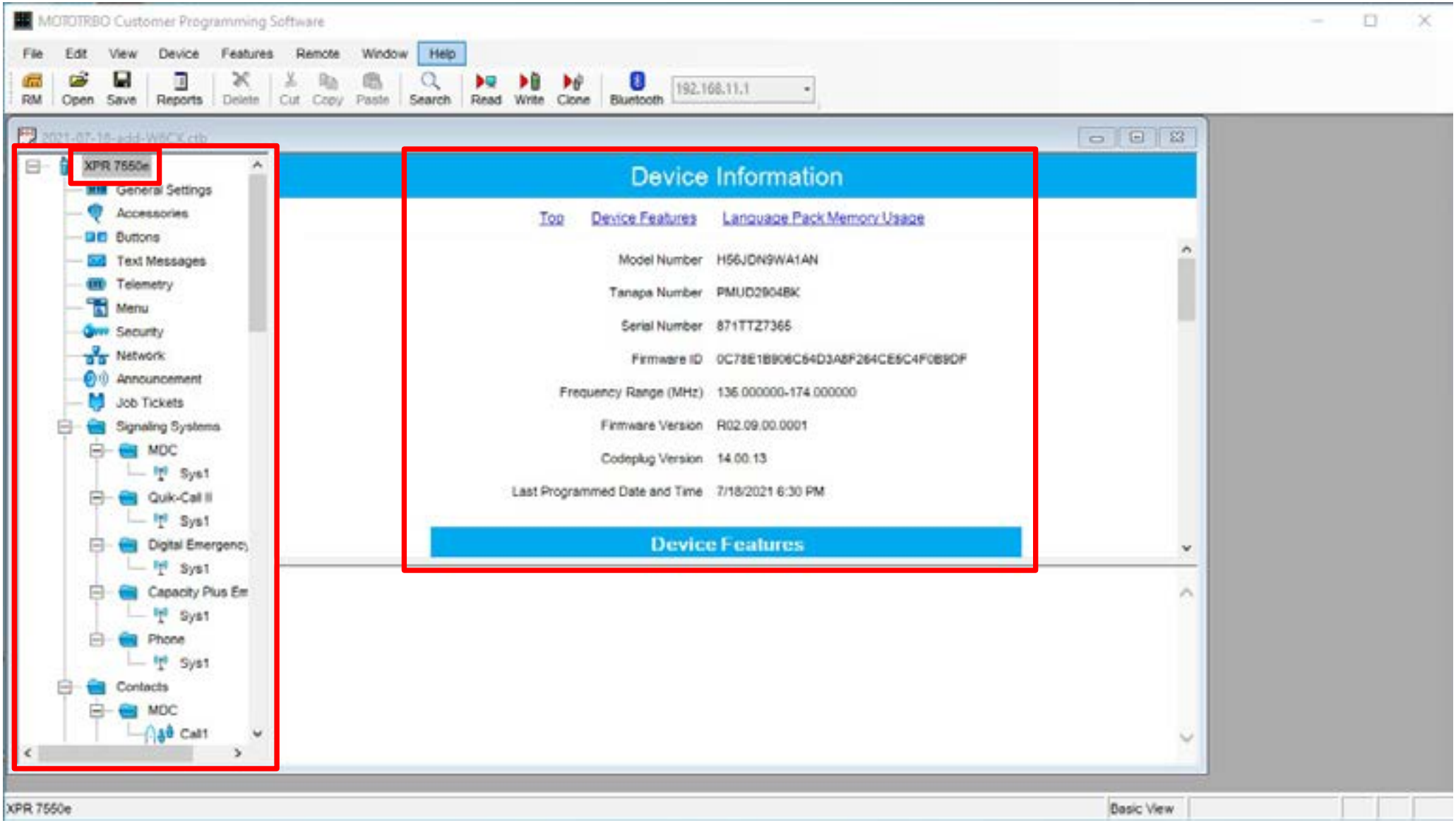
2. **Create a Zone**
3. **Add an Analog channel**
4. **Fill in RX/TX Frequencies**
5. **Add CTCSS**

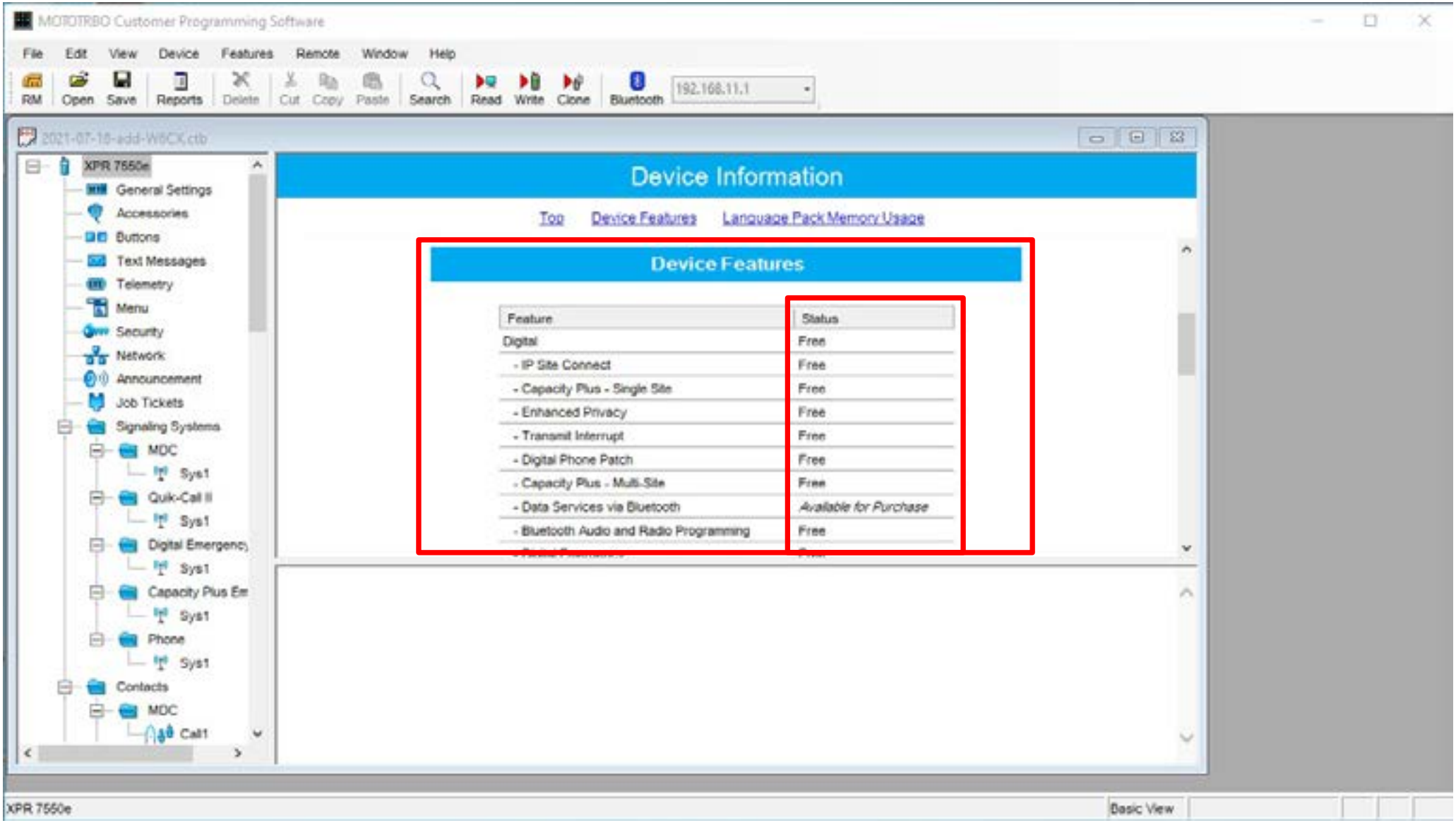
https://www.youtube.com/watch?v=r5sSE37ykQY

Programming the Radio

6. **Save Button ("Codeplug")**
7. **Connect Radio**
8. **Write Button**

https://www.youtube.com/watch?v=r5sSE37ykQY


MOTOTRBO Customer Programming Software
File Edit View Device Features Remote Window Help
RM Open Save Reports Delete Cut Copy Paste Search Read Write Clone Bluetooth
192.168.11.1
XPR 7550e
General Settings
Accessories
Buttons
Text Messages
Telemetry
Menu
Security
Network
Announcement
Job Tickets
Signaling Systems
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Em
Sys1
Phone
Sys1
Contacts
MDC
Call1
Device Information
Top Device Features Language Pack Memory Usage
Model Number H56JDN9WA1AN
Tanapa Number PMUD2904BK
Serial Number 871TTZ7365
Firmware ID 0C78E1B906C64D3A8F264CE5C4F0B9DF
Frequency Range (MHz) 136.000000-174.000000
Firmware Version R02.09.00.0001
Codeplug Version 14.00.13
Last Programmed Date and Time 7/18/2021 6:30 PM
Device Features
XPR 7550e
Basic View


MOTOTRBO Customer Programming Software
File Edit View Device Features Remote Window Help
RM Open Save Reports Delete Cut Copy Paste Search Read Write Clone Bluetooth
192.168.11.1
XPR 7550e
General Settings
Accessories
Buttons
Text Messages
Telemetry
Menu
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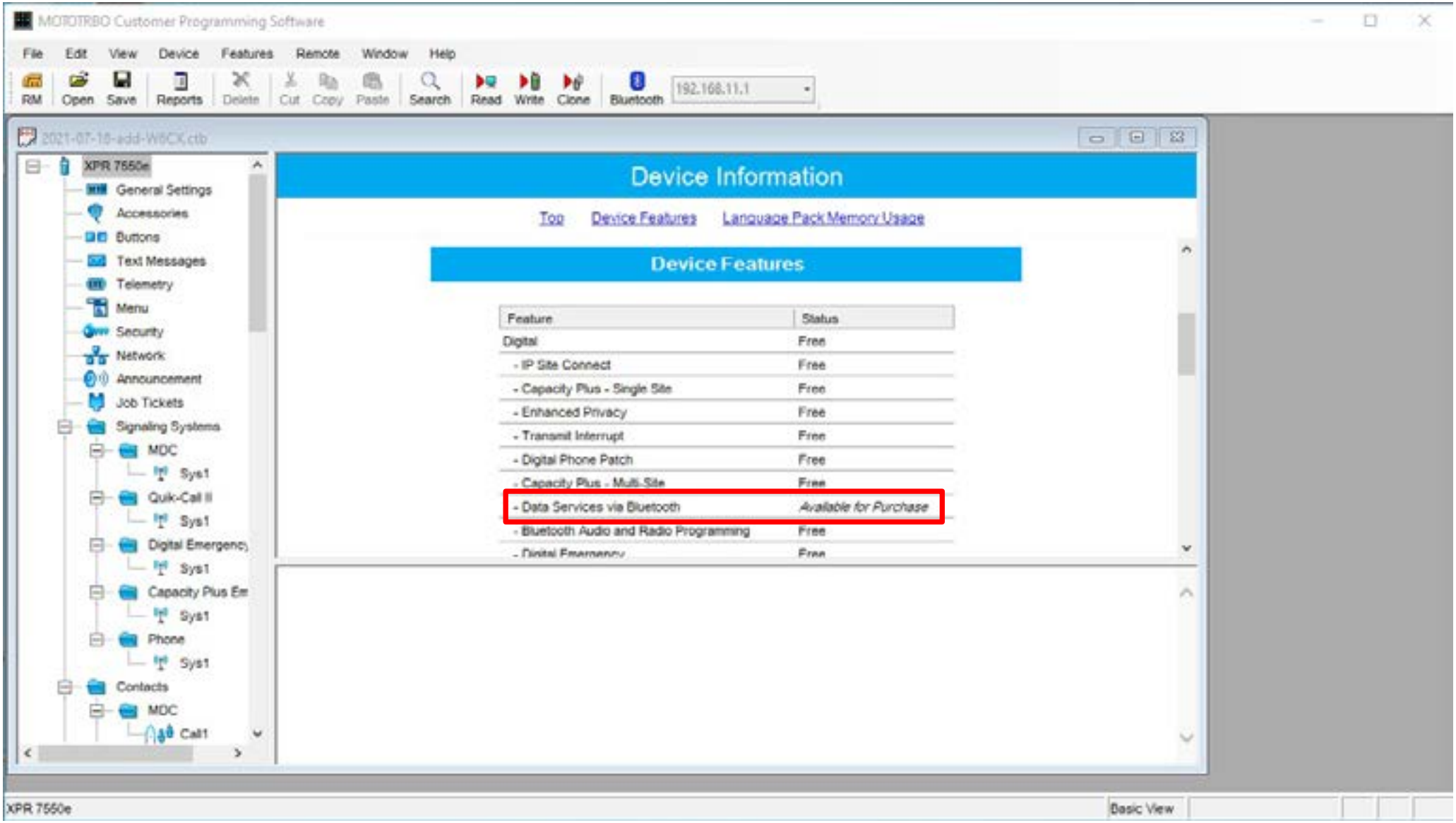
Network
Announcement
Job Tickets
Signaling Systems
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Em
Sys1
Phone
Sys1
Contacts
MDC
Call1
Device Information
Top Device Features Language Pack Memory Usage
Device Features
Feature
Status
Digital
Free
- IP Site Connect
Free
- Capacity Plus - Single Site
Free
- Enhanced Privacy
Free
- Transmit Interrupt
Free
- Digital Phone Patch
Free
- Capacity Plus - Multi-Site
Free
- Data Services via Bluetooth
Available for Purchase
- Bluetooth Audio and Radio Programming
Free
XPR 7550e
Basic View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MDC
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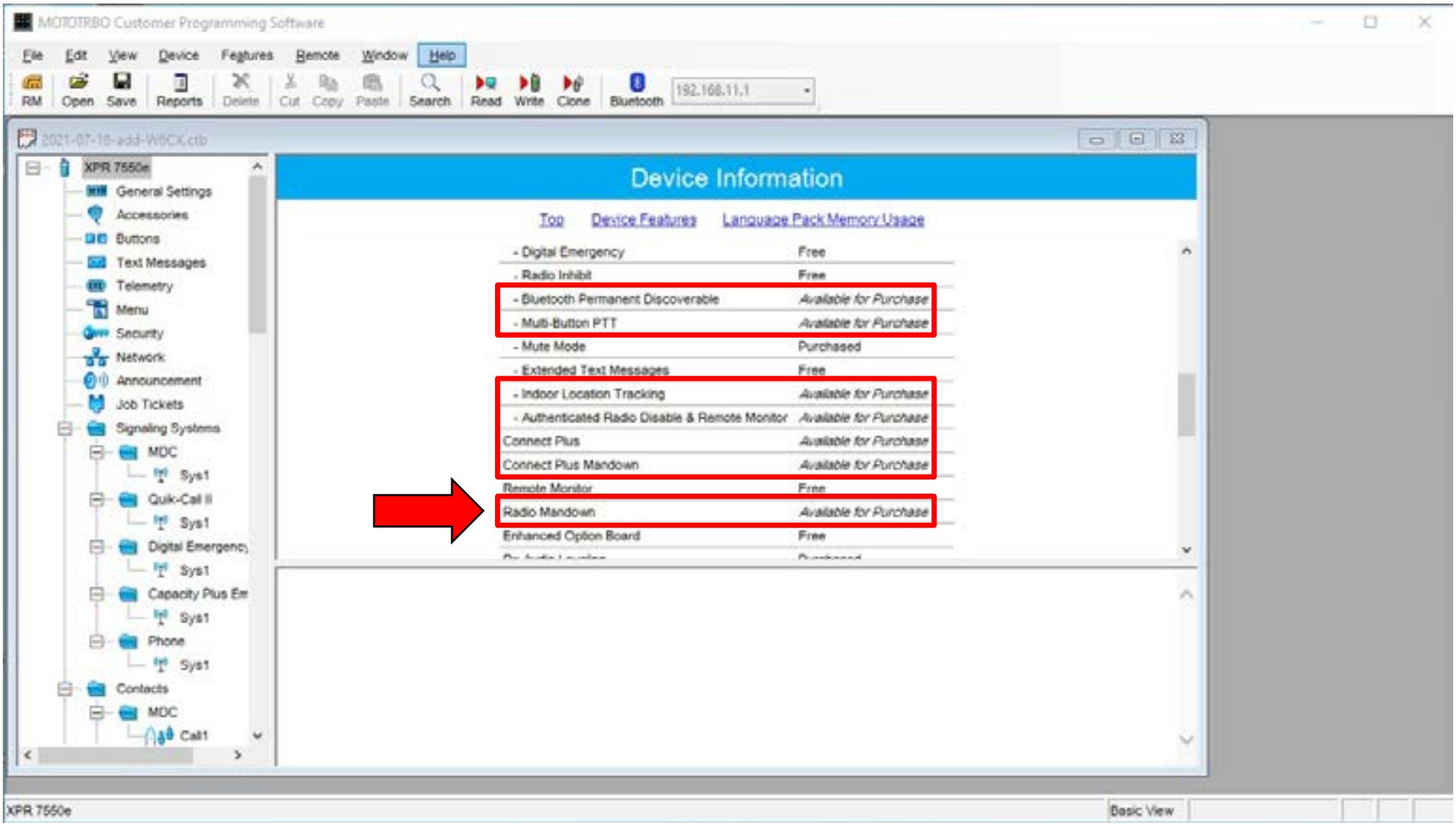
Device Information
Top Device Features Language Pack Memory Usage
Device Features
Feature Status
Digital Free
- IP Site Connect Free
- Capacity Plus - Single Site Free
- Enhanced Privacy Free
- Transmit Interrupt Free
- Digital Phone Patch Free
- Capacity Plus - Multi-Site Free
- Data Services via Bluetooth Available for Purchase
- Bluetooth Audio and Radio Programming Free
XPR 7550e
Basic View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2021-07-18-add-W6CK.ctb
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Job Tickets
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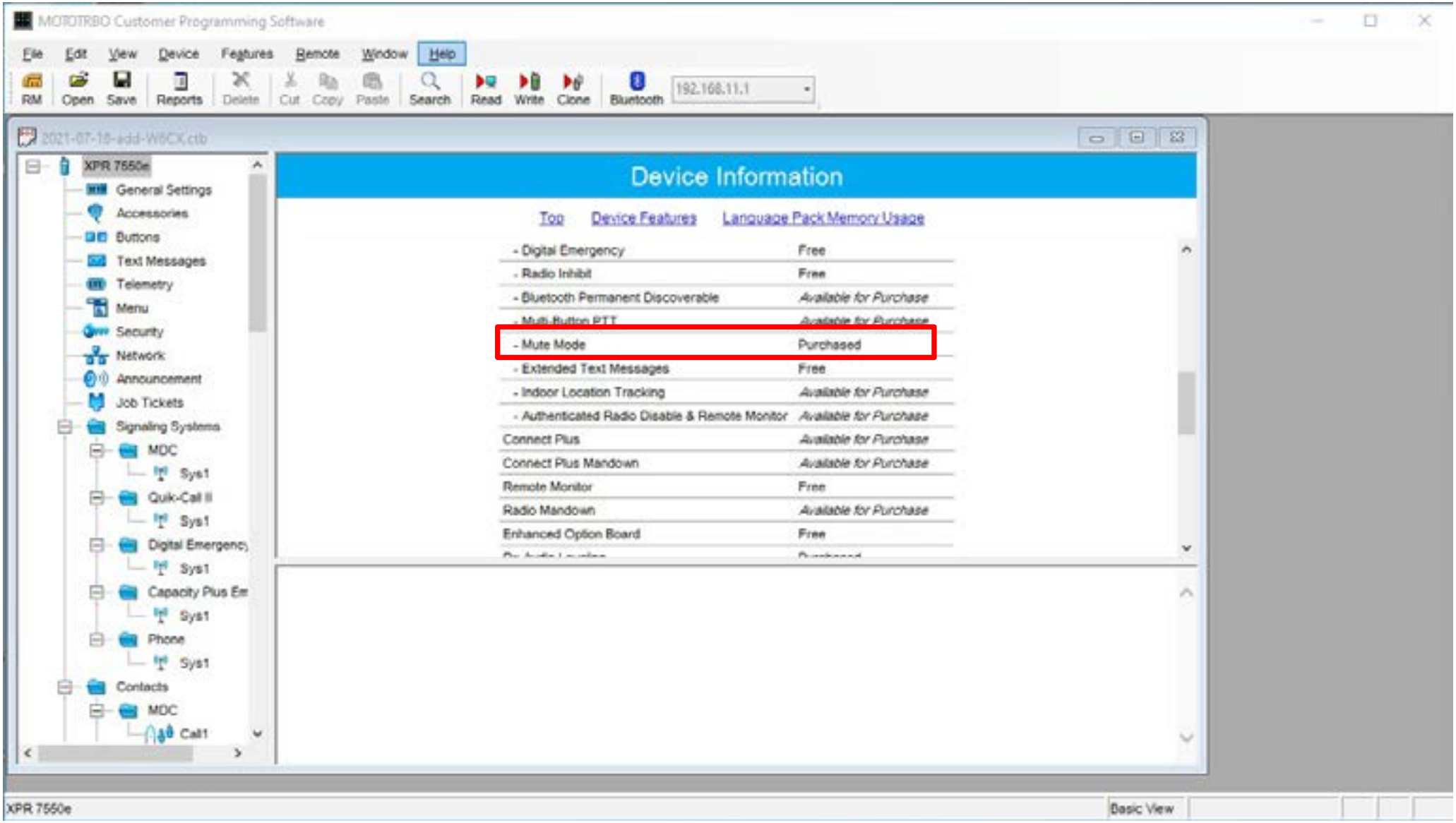
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Em
Sys1
Phone
Sys1
Contacts
MDC
Call1
Device Information
Top Device Features Language Pack Memory Usage
- Digital Emergency Free
- Radio Inhibit Free
- Bluetooth Permanent Discoverable Available for Purchase
- Multi-Button PTT Available for Purchase
- Mute Mode Purchased
- Extended Text Messages Free
- Indoor Location Tracking Available for Purchase
- Authenticated Radio Disable & Remote Monitor Available for Purchase
Connect Plus Available for Purchase
Connect Plus Mandown Available for Purchase
Remote Monitor Free
Radio Mandown Available for Purchase
Enhanced Option Board Free
XPR 7550e
Basic View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Signaling Systems
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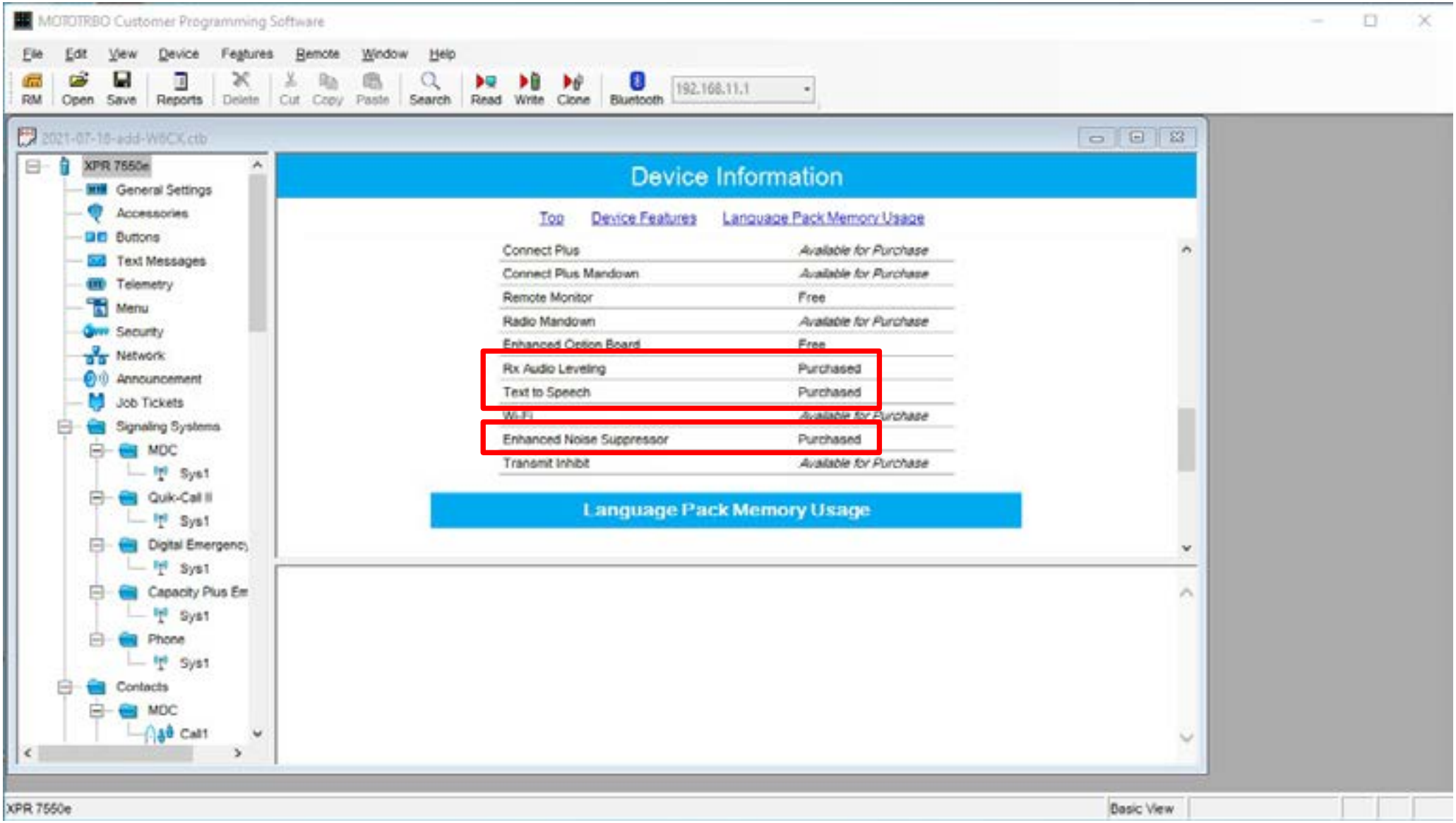
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Em
Sys1
Phone
Sys1
Contacts
MDC
Call1
Device Information
Top Device Features Language Pack Memory Usage
- Digital Emergency Free
- Radio Inhibit Free
- Bluetooth Permanent Discoverable Available for Purchase
- Mute Mode Purchased
- Extended Text Messages Free
- Indoor Location Tracking Available for Purchase
- Authenticated Radio Disable & Remote Monitor Available for Purchase
Connect Plus Available for Purchase
Connect Plus Mandown Available for Purchase
Remote Monitor Free
Radio Mandown Available for Purchase
Enhanced Option Board Free
XPR 7550e
Basic View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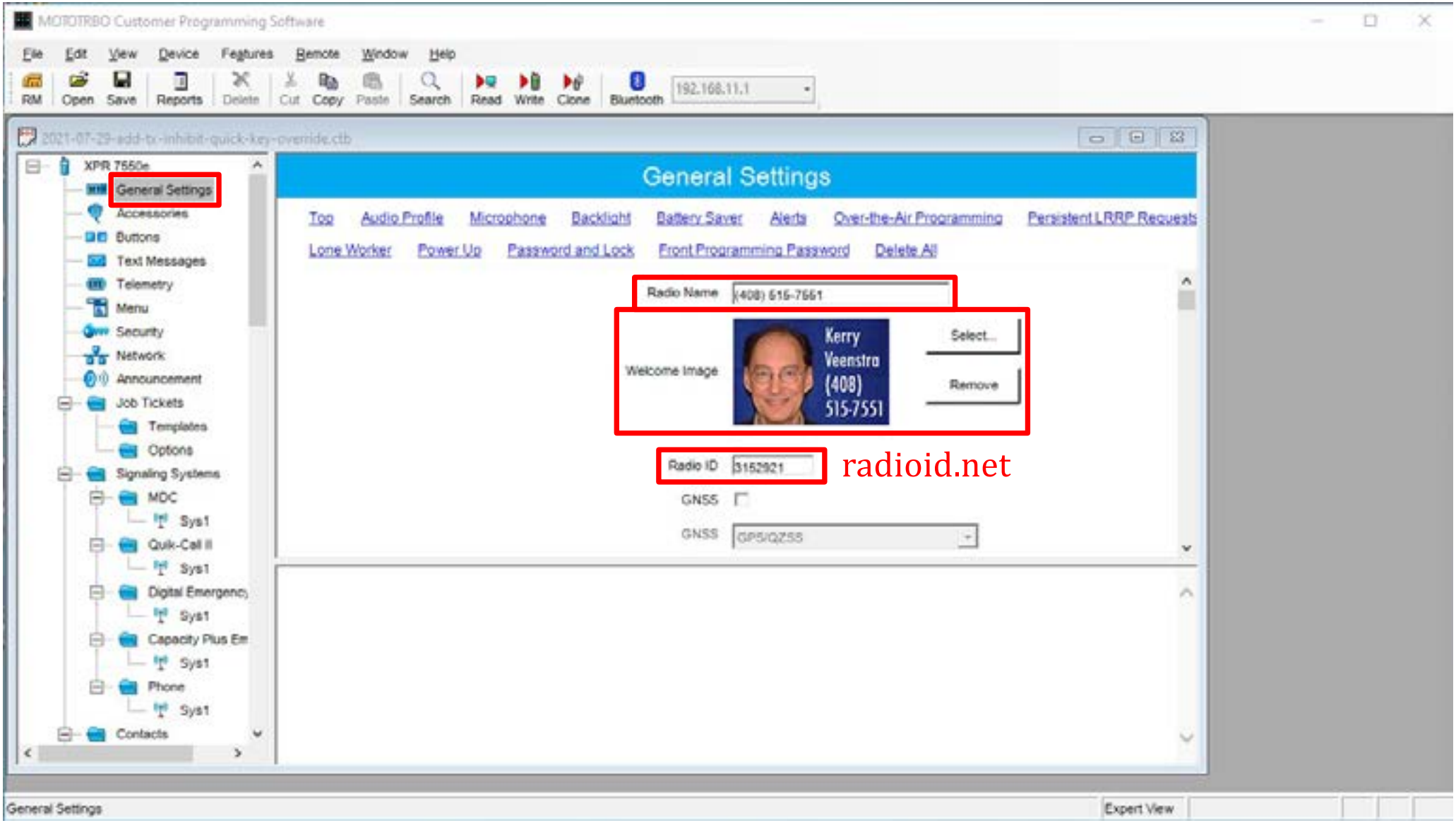
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Em
Sys1
Phone
Sys1
Contacts
MDC
Call1
Device Information
Top Device Features Language Pack Memory Usage
Connect Plus Available for Purchase
Connect Plus Mandown Available for Purchase
Remote Monitor Free
Radio Mandown Available for Purchase
Enhanced Option Board Free
Rx Audio Leveling Purchased
Text to Speech Purchased
Wi-Fi Available for Purchase
Enhanced Noise Suppressor Purchased
Transmit Inhibit Available for Purchase
Language Pack Memory Usage
XPR 7550e
Basic View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192.168.11.1
2021-07-29-add-tx-inhibit-quick-key-override.ctb
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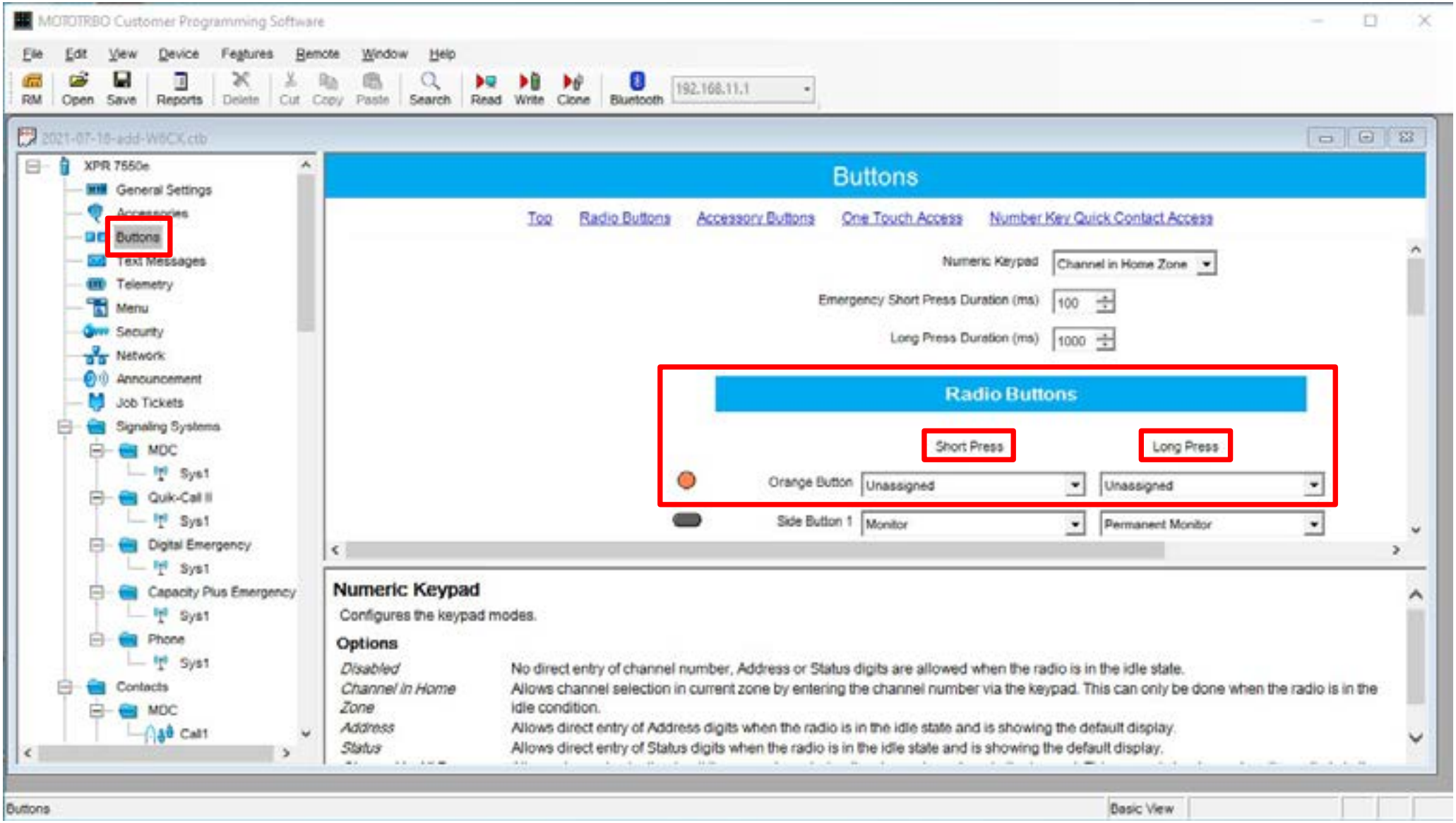
General Settings
Accessories
Buttons
Text Messages
Telemetry
Menu
Security
Network
Announcement
Job Tickets
Templates
Options
Signaling Systems
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Em
Sys1
Phone
Sys1
Contacts
General Settings
Top Audio Profile Microphone Backlight Battery Saver Alerts Over-the-Air Programming Persistent LRRP Requests
Lone Worker Power Up Password and Lock Front Programming Password Delete All
Radio Name (408) 515-7551
Welcome Image
Kerry Veenstra (408) 515-7551
Select...
Remove
Radio ID 3152921
radioid.net
GNSS
GNSS GPS/QZSS
General Settings
Expert View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192.168.11.1
XPR 7550e
General Settings
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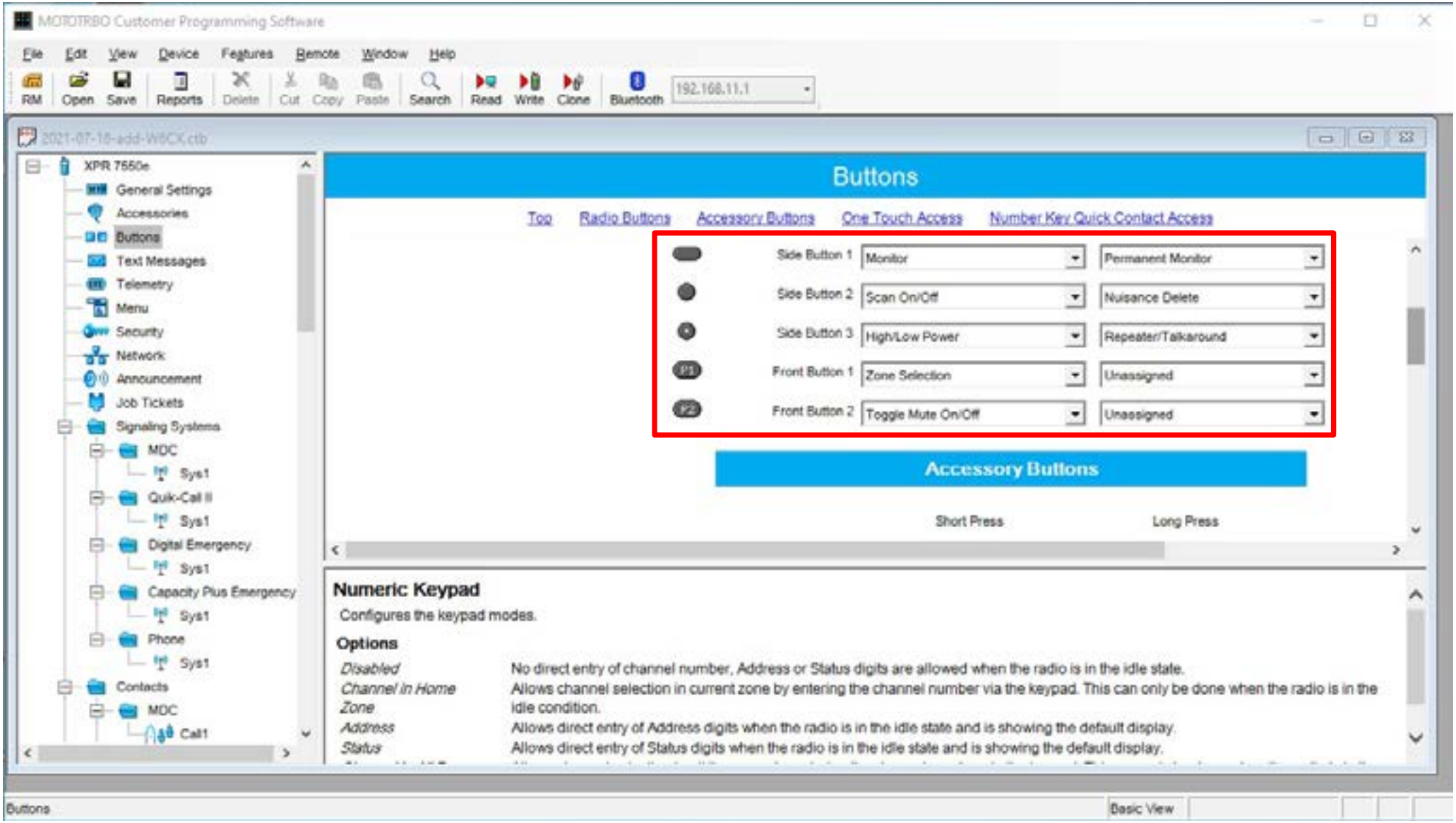
Signaling Systems
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Emergency
Sys1
Phone
Sys1
Contacts
MDC
Call1
Buttons
Top Radio Buttons Accessory Buttons One Touch Access Number Key Quick Contact Access
Numeric Keypad
Channel in Home Zone
Emergency Short Press Duration (ms)
100
Long Press Duration (ms)
1000
Radio Buttons
Short Press
Long Press
Orange Button
Unassigned
Unassigned
Side Button 1
Monitor
Permanent Monitor
Numeric Keypad
Configures the keypad modes.
Options
Disabled
No direct entry of channel number, Address or Status digits are allowed when the radio is in the idle state.
Channel in Home Zone
Allows channel selection in current zone by entering the channel number via the keypad. This can only be done when the radio is in the idle condition.
Address
Allows direct entry of Address digits when the radio is in the idle state and is showing the default display.
Status
Allows direct entry of Status digits when the radio is in the idle state and is showing the default display.
Buttons
Basic View


MOTOTRBO Customer Programming Software
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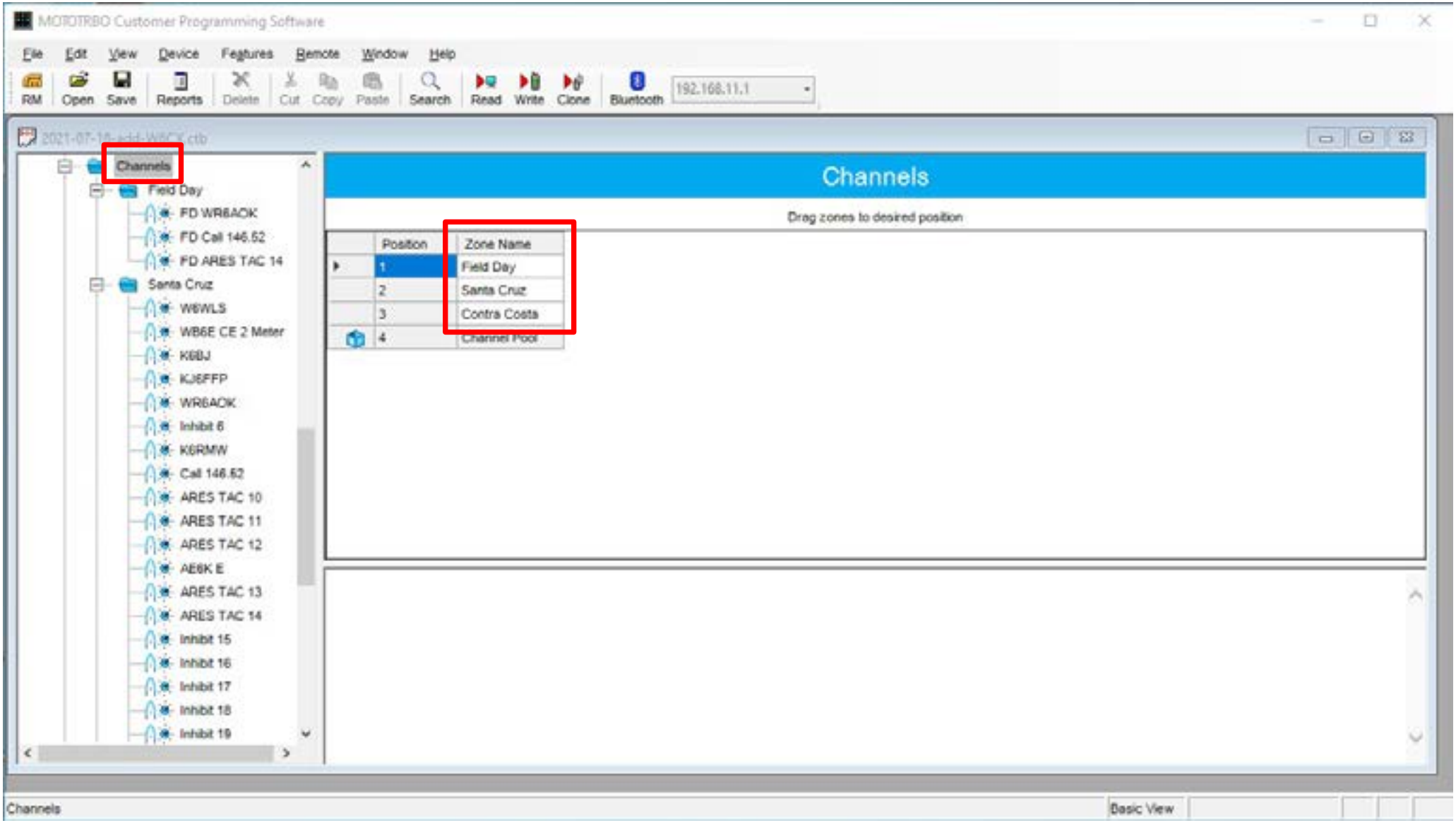
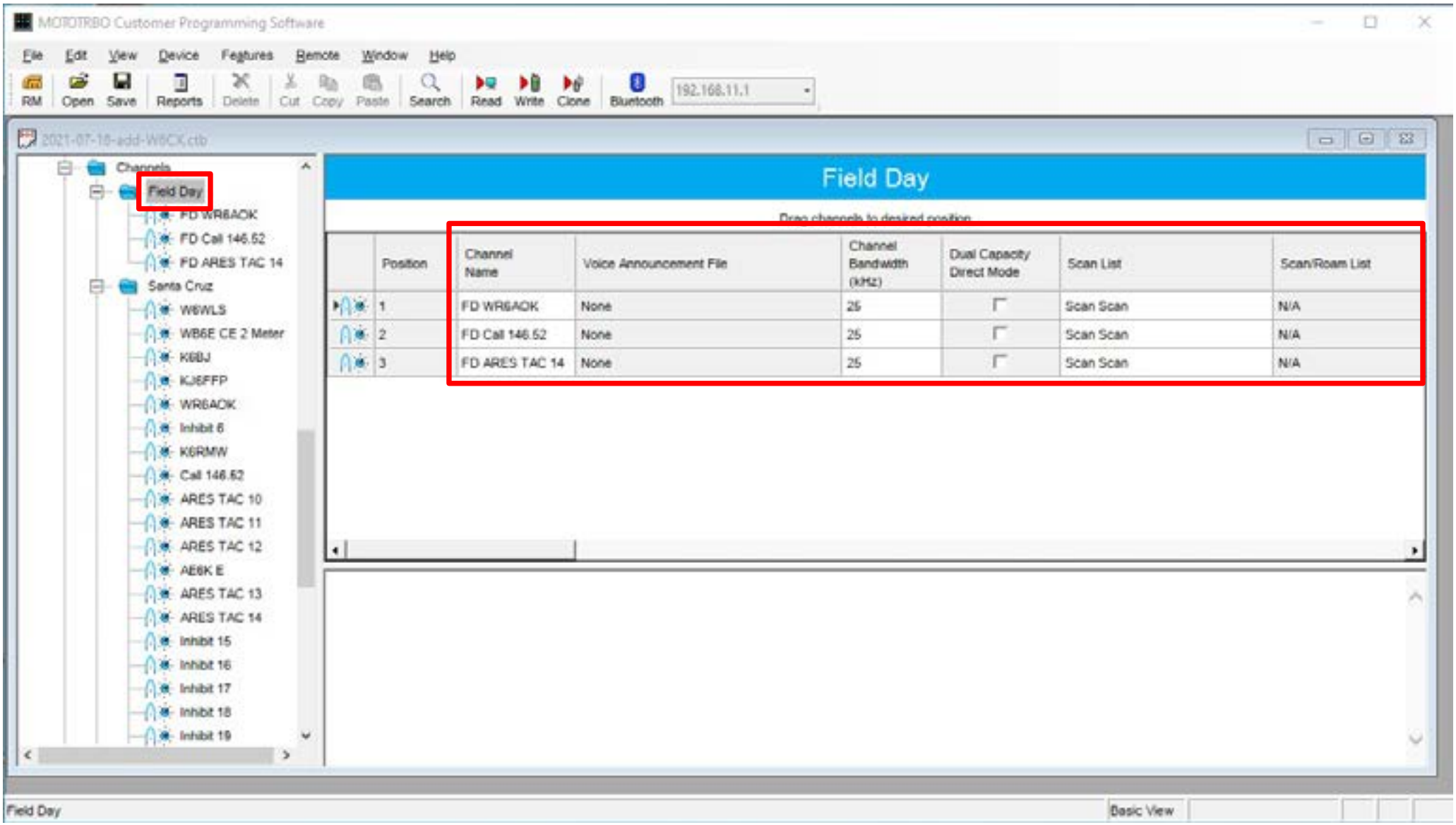
RM Open Save Reports Delete Cut Copy Paste Search Read Write Clone Bluetooth
192.168.11.1
2021-07-18-add-W6CK.ctb
XPR 7550e
General Settings
Accessories
Buttons
Text Messages
Telemetry
Menu
Security
Network
Announcement
Job Tickets
Signaling Systems
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Emergency
Sys1
Phone
Sys1
Contacts
MDC
Call1
Buttons
Top Radio Buttons Accessory Buttons One Touch Access Number Key Quick Contact Access
Side Button 1 Monitor Permanent Monitor
Side Button 2 Scan On/Off Nuisance Delete
Side Button 3 High/Low Power Repeater/Talkaround
Front Button 1 Zone Selection Unassigned
Front Button 2 Toggle Mute On/Off Unassigned
Accessory Buttons
Short Press Long Press
Numeric Keypad
Configures the keypad modes.
Options
Disabled No direct entry of channel number, Address or Status digits are allowed when the radio is in the idle state.
Channel in Home Zone Allows channel selection in current zone by entering the channel number via the keypad. This can only be done when the radio is in the idle condition.
Address Allows direct entry of Address digits when the radio is in the idle state and is showing the default display.
Status Allows direct entry of Status digits when the radio is in the idle state and is showing the default display.
Buttons
Basic View


MOTOTRBO Customer Programming Software
File Edit View Device Features Remote Window Help
RM Open Save Reports Delete Cut Copy Paste Search Read Write Clone Bluetooth
192.168.11.1
Channels
Field Day
FD WR6AOK
FD Call 146.52
FD ARES TAC 14
Santa Cruz
W6WLS
WB6E CE 2 Meter
K6BJ
KJ6FFP
WR6AOK
Inhibit 6
K6RMW
Call 146.52
ARES TAC 10
ARES TAC 11
ARES TAC 12
AE6K E
ARES TAC 13
ARES TAC 14
Inhibit 15
Inhibit 16
Inhibit 17
Inhibit 18
Inhibit 19
Channels
Drag zones to desired position
Position
Zone Name
1
Field Day
2
Santa Cruz
3
Contra Costa
4
Channel Pool
Channels
Basic View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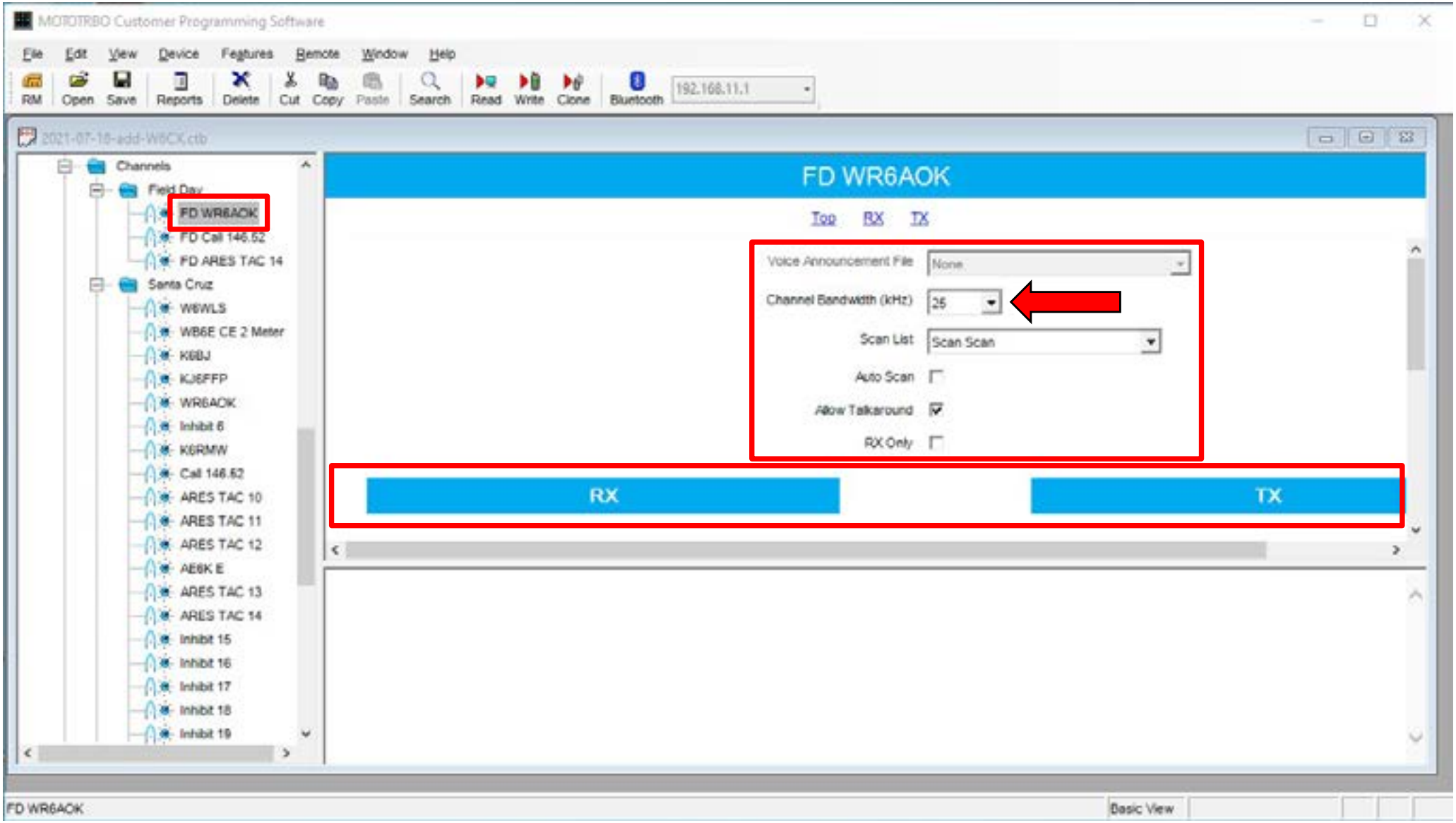
2021-07-18-add-W6CK.ctb
Channels
Field Day
FD WR6AOK
FD Call 146.52
FD ARES TAC 14
Santa Cruz
W6WLS
WB6E CE 2 Meter
K6BJ
KJ6FFP
WR6AOK
Inhibit 6
K6RMW
Call 146.52
ARES TAC 10
ARES TAC 11
ARES TAC 12
AE6K E
ARES TAC 13
ARES TAC 14
Inhibit 15
Inhibit 16
Inhibit 17
Inhibit 18
Inhibit 19
Field Day
Drag channels to desired position
Position
Channel Name
Voice Announcement File
Channel Bandwidth (kHz)
Dual Capacity Direct Mode
Scan List
Scan/Roam List
1 FD WR6AOK None 25 Scan Scan N/A
2 FD Call 146.52 None 25 Scan Scan N/A
3 FD ARES TAC 14 None 25 Scan Scan N/A
Field Day
Basic View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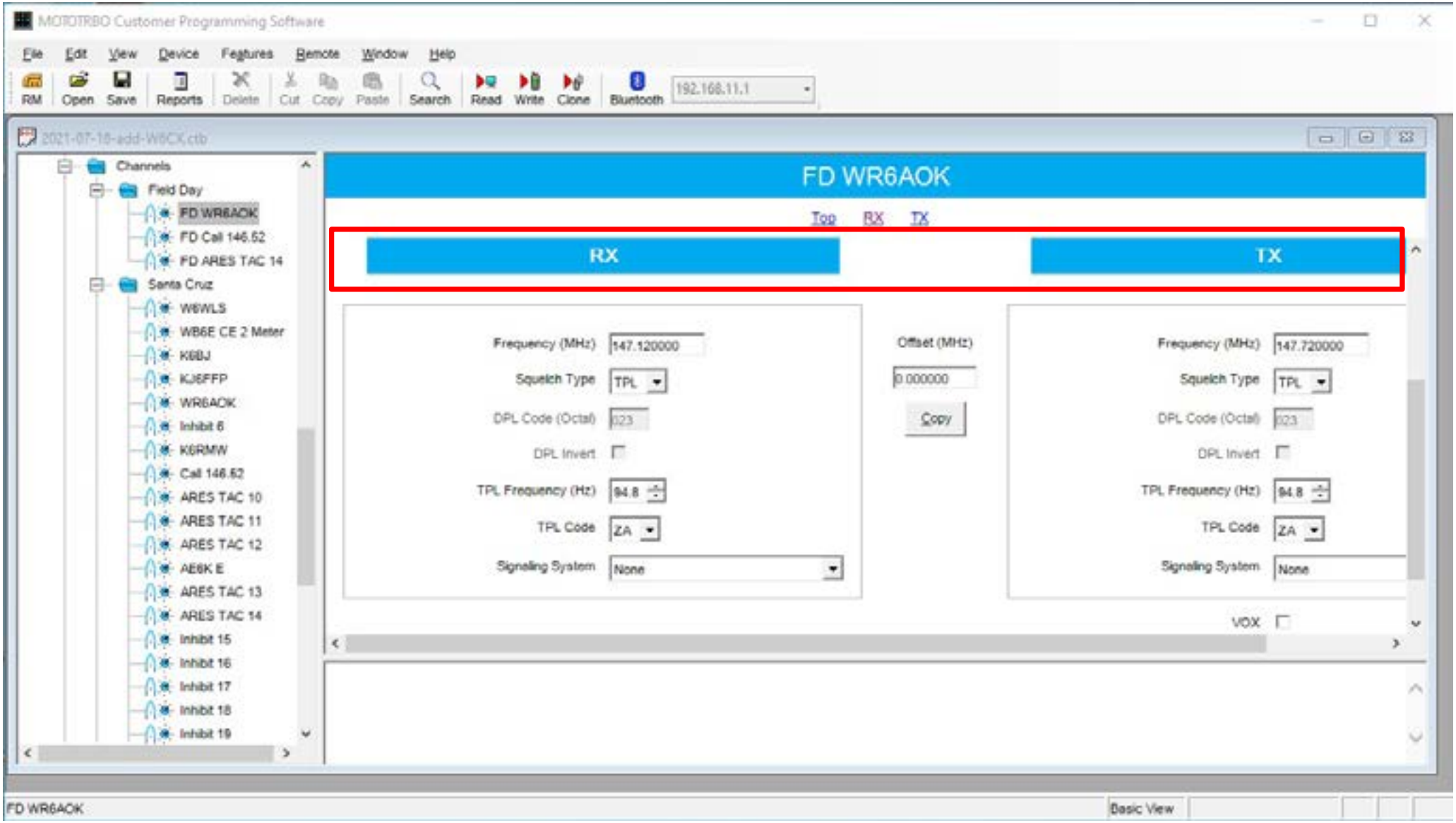
File Edit View Device Features Remote Window Help
RM Open Save Reports Delete Cut Copy Paste Search Read Write Clone Bluetooth
192.168.11.1
2021-07-18-add-W6CK.ctb
Channels
Field Day
FD WR6AOK
FD Call 146.52
FD ARES TAC 14
Santa Cruz
W6WLS
WB6E CE 2 Meter
K6BJ
KJ6FFP
WR6AOK
Inhibit 6
K6RMW
Call 146.52
ARES TAC 10
ARES TAC 11
ARES TAC 12
AE6K E
ARES TAC 13
ARES TAC 14
Inhibit 15
Inhibit 16
Inhibit 17
Inhibit 18
Inhibit 19
FD WR6AOK
Top RX TX
Voice Announcement File
None
Channel Bandwidth (kHz)
25
Scan List
Scan Scan
Auto Scan
Allow Talkaround
RX Only
RX
TX
FD WR6AOK
Basic View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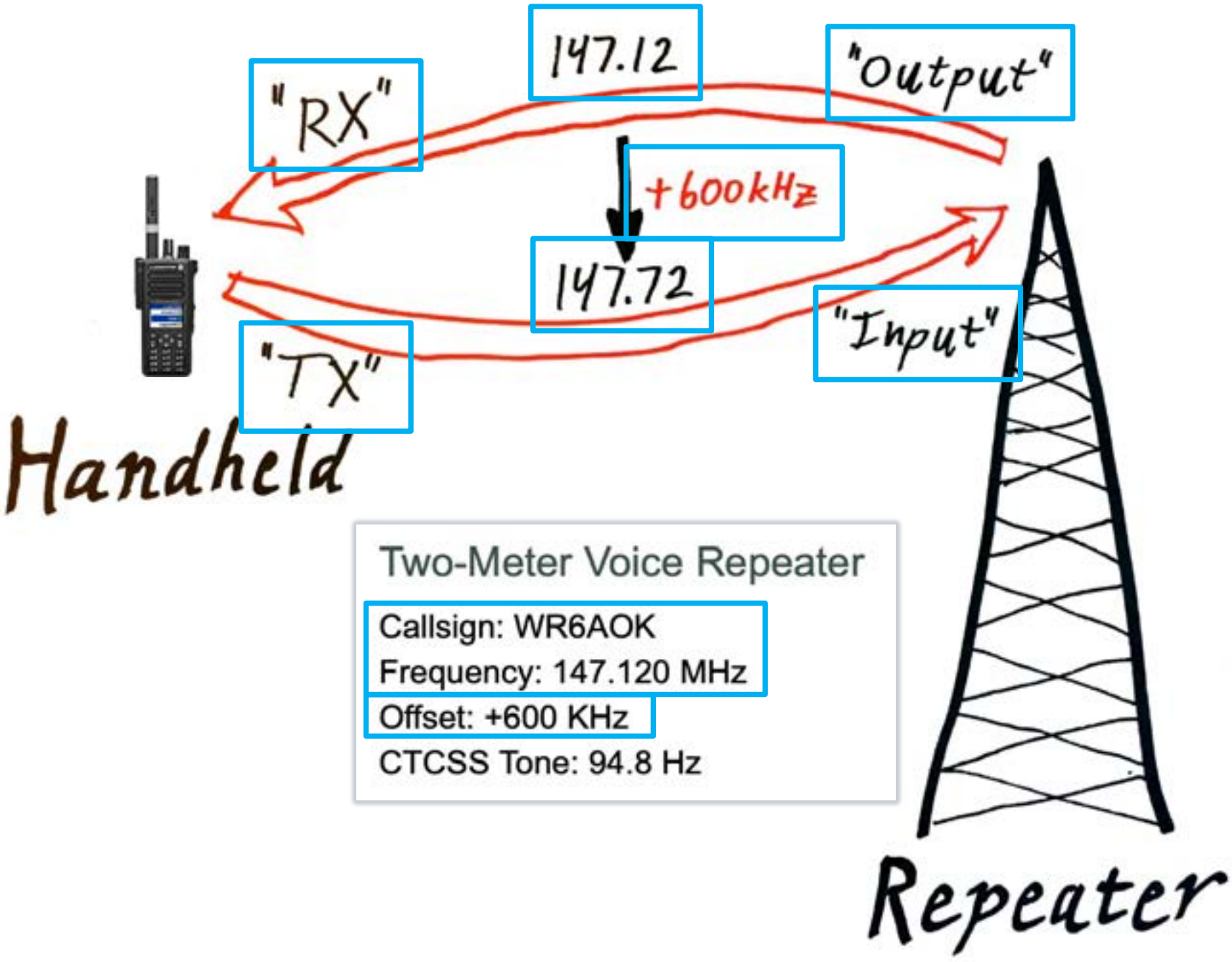
2021-07-18-add-W6CK.ctb
Channels
Field Day
FD WR6AOK
FD Call 146.52
FD ARES TAC 14
Santa Cruz
W6WLS
WB6E CE 2 Meter
K6BJ
KJ6FFP
WR6AOK
Inhibit 6
K6RMW
Call 146.52
ARES TAC 10
ARES TAC 11
ARES TAC 12
AE6K E
ARES TAC 13
ARES TAC 14
Inhibit 15
Inhibit 16
Inhibit 17
Inhibit 18
Inhibit 19
FD WR6AOK
Top RX TX
RX
TX
Frequency (MHz) 147.120000
Squelch Type TPL
DPL Code (Octal) 023
DPL Invert
TPL Frequency (Hz) 94.8
TPL Code ZA
Signaling System None
Offset (MHz)
0.000000
Copy
Frequency (MHz) 147.720000
Squelch Type TPL
DPL Code (Octal) 023
DPL Invert
TPL Frequency (Hz) 94.8
TPL Code ZA
Signaling System None
VOX
FD WR6AOK
Basic View



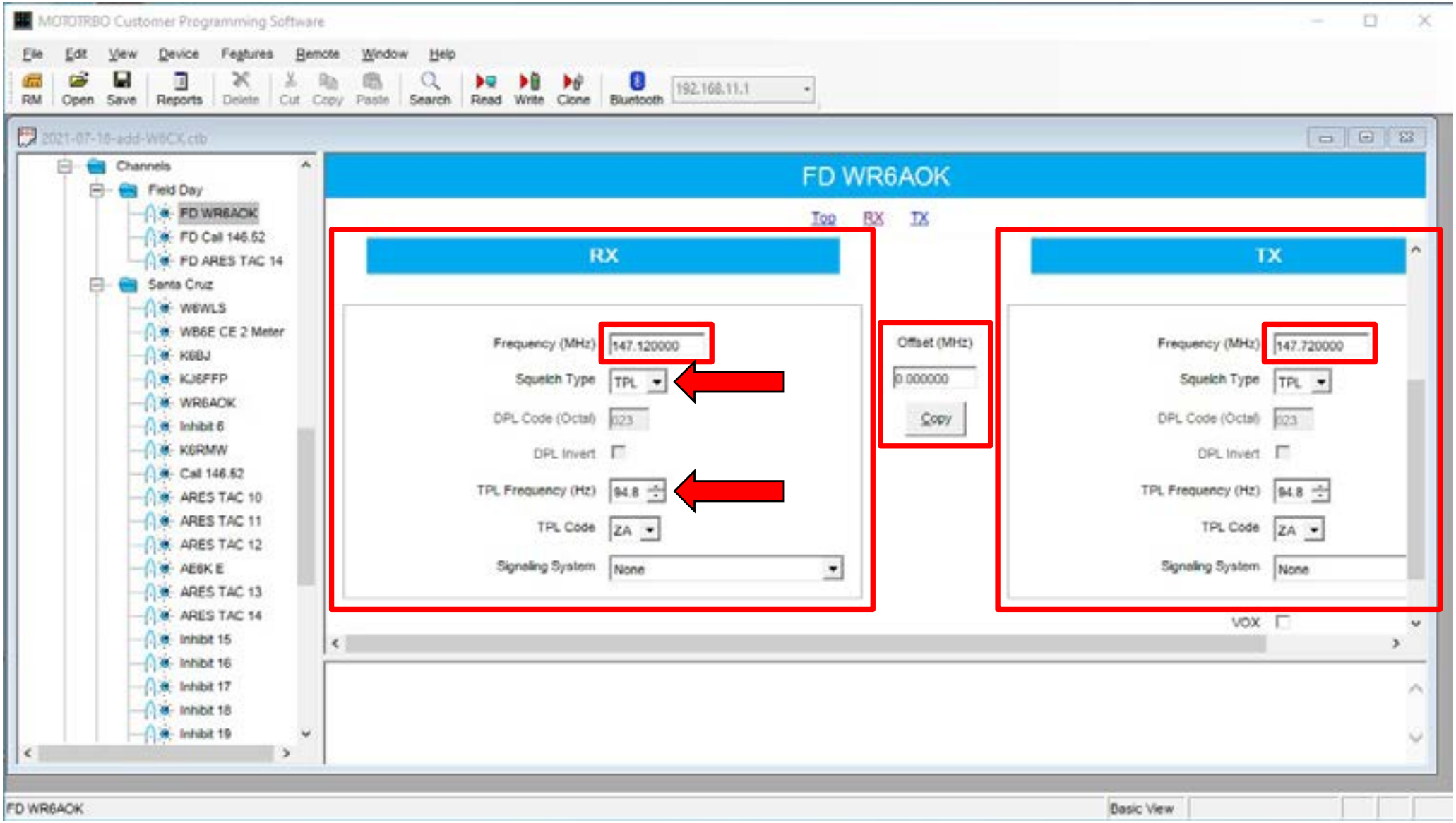
Two-Meter Voice Repeater

Callsign: WR6AOK

Frequency: 147.120 MHz

Offset: +600 KHz

CTCSS Tone: 94.8 Hz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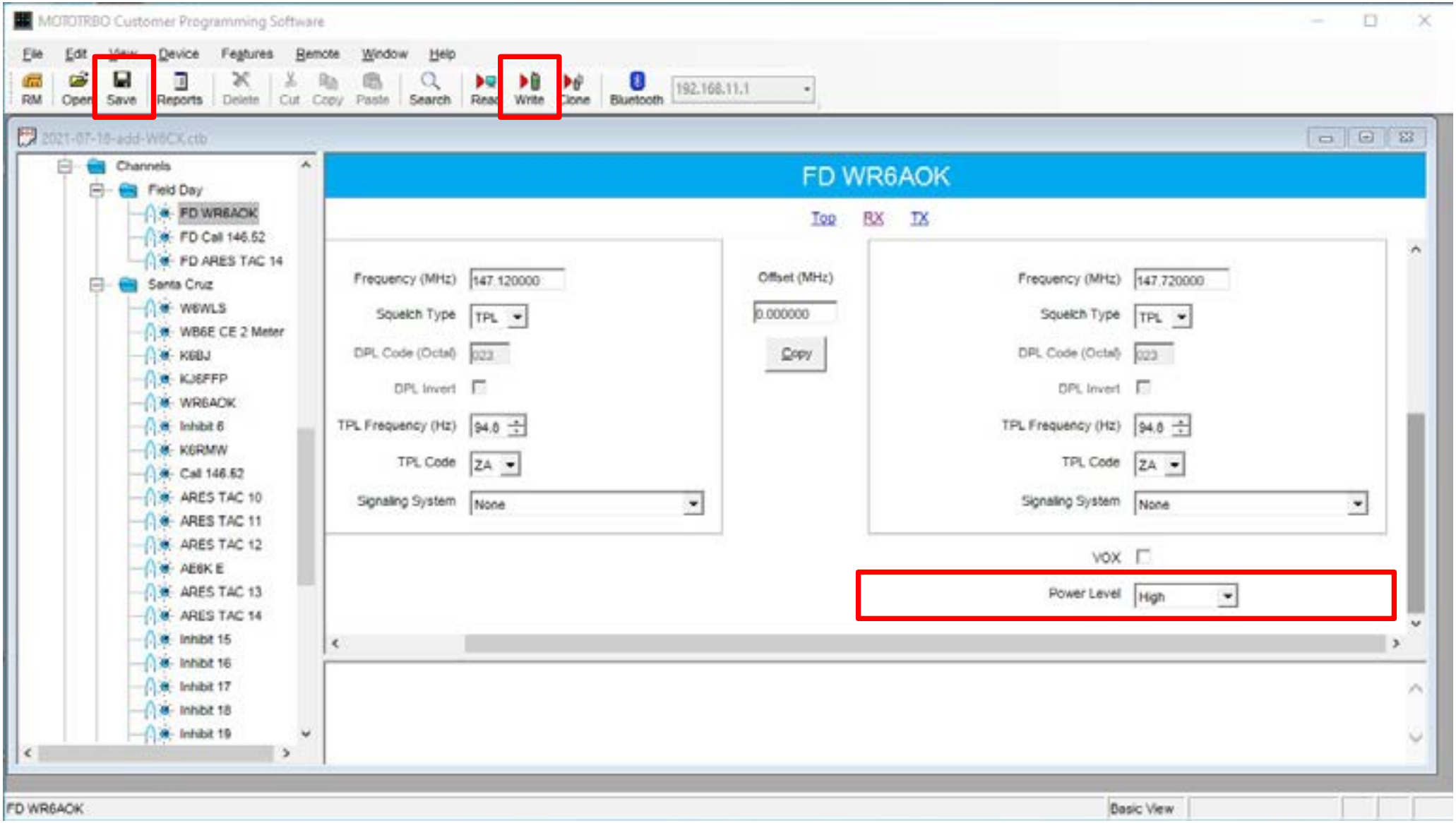
Channels
Field Day
FD WR6AOK
FD Call 146.52
FD ARES TAC 14
Santa Cruz
W6WLS
WB6E CE 2 Meter
K6BJ
KJ6FFP
WR6AOK
Inhibit 6
K6RMW
Call 146.52
ARES TAC 10
ARES TAC 11
ARES TAC 12
AE6K E
ARES TAC 13
ARES TAC 14
Inhibit 15
Inhibit 16
Inhibit 17
Inhibit 18
Inhibit 19
FD WR6AOK
Top RX TX
RX
Frequency (MHz) 147.120000
Squelch Type TPL
DPL Code (Octal) 023
DPL Invert
TPL Frequency (Hz) 94.8
TPL Code ZA
Signaling System None
Offset (MHz)
0.000000
Copy
TX
Frequency (MHz) 147.720000
Squelch Type TPL
DPL Code (Octal) 023
DPL Invert
TPL Frequency (Hz) 94.8
TPL Code ZA
Signaling System None
VOX
FD WR6AOK
Basic View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Field Day
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FD Call 146.52
FD ARES TAC 14
Santa Cruz
W6WLS
WB6E CE 2 Meter
K6BJ
KJ6FFP
WR6AOK
Inhibit 6
K6RMW
Call 146.52
ARES TAC 10
ARES TAC 11
ARES TAC 12
AE6K E
ARES TAC 13
ARES TAC 14
Inhibit 15
Inhibit 16
Inhibit 17
Inhibit 18
Inhibit 19
FD WR6AOK
Top RX TX
Frequency (MHz) 147.120000
Squelch Type TPL
DPL Code (Octal) 023
DPL Invert
TPL Frequency (Hz) 94.8
TPL Code ZA
Signaling System None
Offset (MHz) 0.000000
Copy
Frequency (MHz) 147.720000
Squelch Type TPL
DPL Code (Octal) 023
DPL Invert
TPL Frequency (Hz) 94.8
TPL Code ZA
Signaling System None
VOX
Power Level High
FD WR6AOK
Basic View

Commercial Handheld

Why do this?

What to get?

How to use?

What results?

SAN LORENZO VALLEY AMATEUR RADIO CLUB

WR6AOK, 147.120 MHz, Offset +600 KHz, CTCSS Tone 94.8 Hz

Weekly Net

Hams in the area host several weekly and monthly nets. The SLVARC hosts the weekly net that is described below.

Rag Chew

The SLVARC Rag Chew Net meets weekly on Thursday nights at 19:30 on the WR6AOK repeater at 147.120+ MHz (using a PL of 94.8 Hz). All club members are encouraged to take a turn at net control. This suggested script for the Net Control Stations may be used when moderating the net.

(at 19:30 local time)

> Good evening, this is ***first name***, ***callsign*** in ***location***, and this is the Thursday Night Rag-Chew Net for the San Lorenzo Valley.
>
> This net is open to members and visitors, and the purpose of the net is just to exchange general comments and information.
>
> Any stations wishing to check-in, please identify now.

(Write down callsigns and names/locations, if provided.)

(Acknowledge check-ins…)

> I hear ***1st***, ***2nd***, …
>
> ***1st***, your comments, please.

1947
MOUNT DIABLO
W6CX
AMATEUR RADIO CLUB
WWW.MDARC.ORG

Home | About us | Repeater Systems | Activities | Public Service | Calendar | Contact Us | Auction | Join/Renew/Update

- Home
- About us
  - Club Announcements
  - Committees
  - Communicating With You
  - Contact Us
  - History of the Club
  - Join/Renew/Update
  - Officers & Chairs
  - Official Documents
  - Store
- Activities
  - Auction
  - Club Meetings
  - Digital Systems
  - DX & Contests
  - Education and Training
  - Emergency Communications
  - Field Day
  - Holiday Banquet
  - License Testing
  - Nets on MDARC Systems
  - Nets on Other

Mount Diablo Amateur Radio Club

The Mount Diablo Amateur Radio Club (MDARC) was founded in 1947. Today it has a membership of over 300 dedicated hams and is one of the largest amateur radio clubs in California. MDARC's purpose is to encourage innovation in amateur radio, provide public service and educational opportunities, foster goodwill within our community, and have fun in the process.

COVID-19 Final Note:

06/17/2021

The much-anticipated June 15th announcement is now behind us, but what does it mean for MDARC and you? I believe this quote from the Contra Costa Health Services website helps us look into the future:

"As of June 15, 2021, the state has moved Beyond the Blueprint for a Safer Economy and eliminated the color-coded tier system for counties. This means there are far fewer restrictions on business and social activity, although things still aren't exactly like they were before the pandemic. There are no longer capacity limits on businesses, although masking will still be required in many situations and settings."

Checking into W6CX

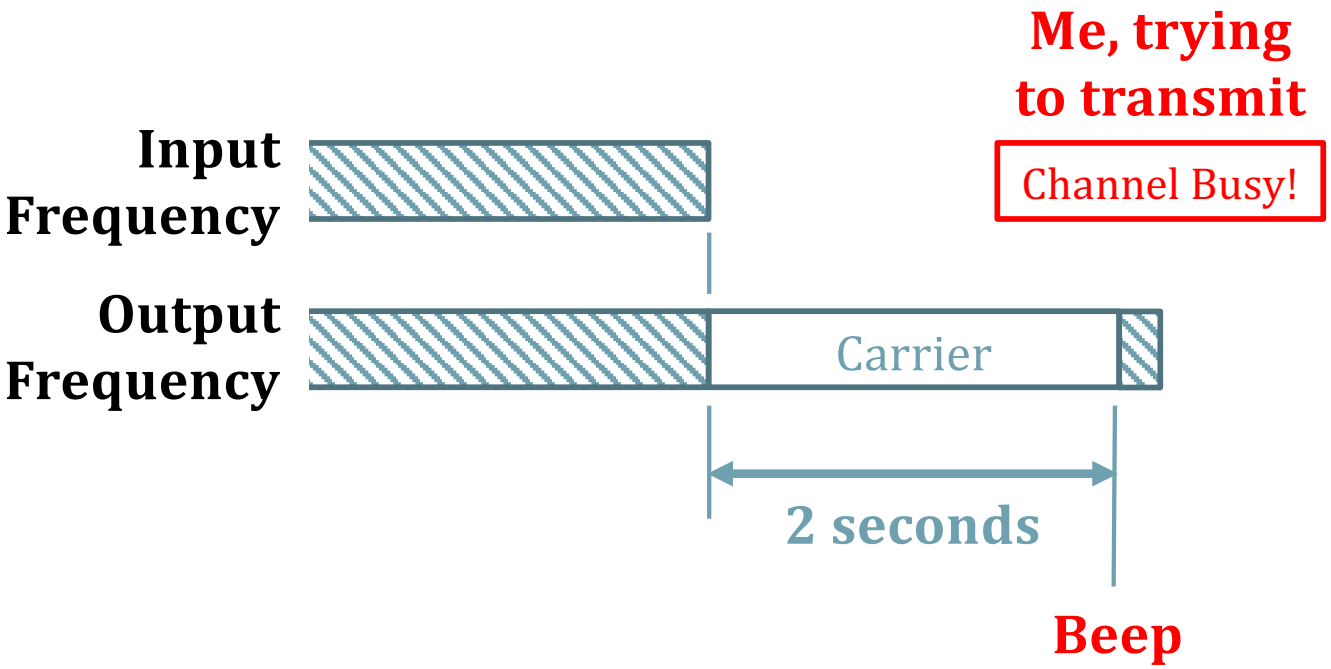
Photo by
Kerry Veenstra

Channel Busy!?

Photo by
Kerry Veenstra

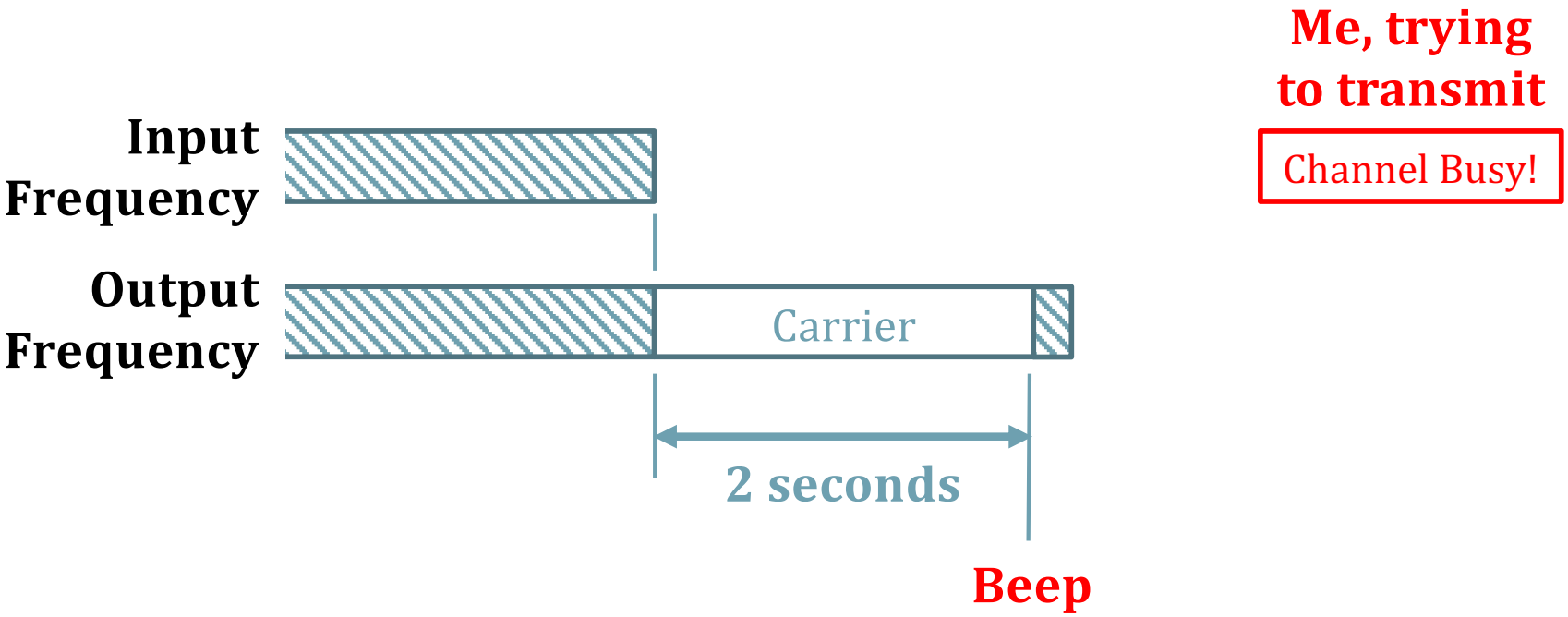
W6CX Linked Repeaters

2M + 220 MHz + 440 MHz + Echolink + IRLP



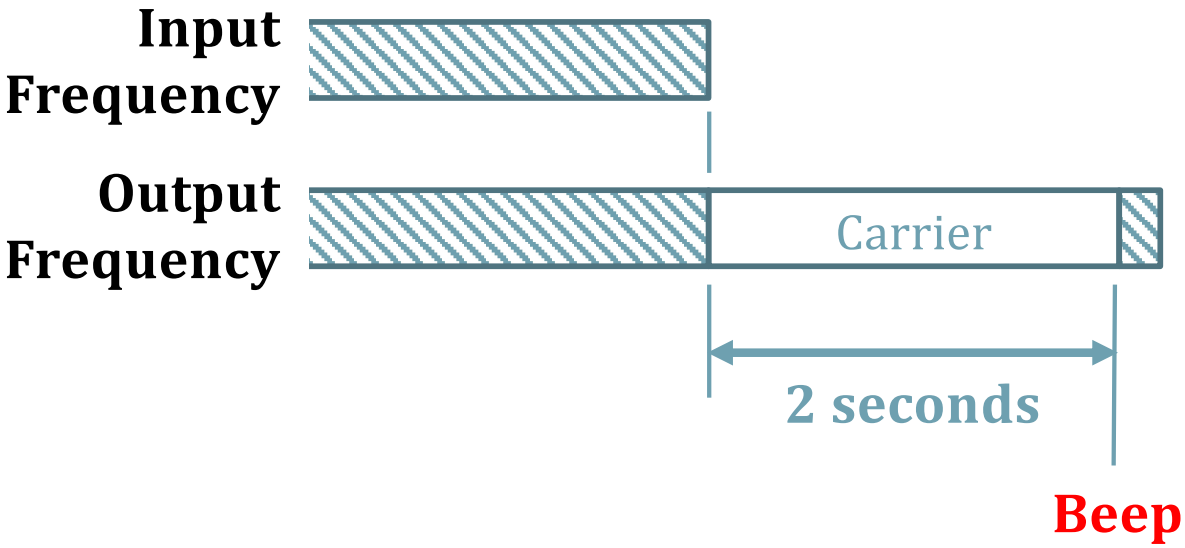
W6CX Linked Repeaters

2M + 220 MHz + 440 MHz + Echolink + IRLP



W6CX Linked Repeaters

2M + 220 MHz + 440 MHz + Echolink + IRLP

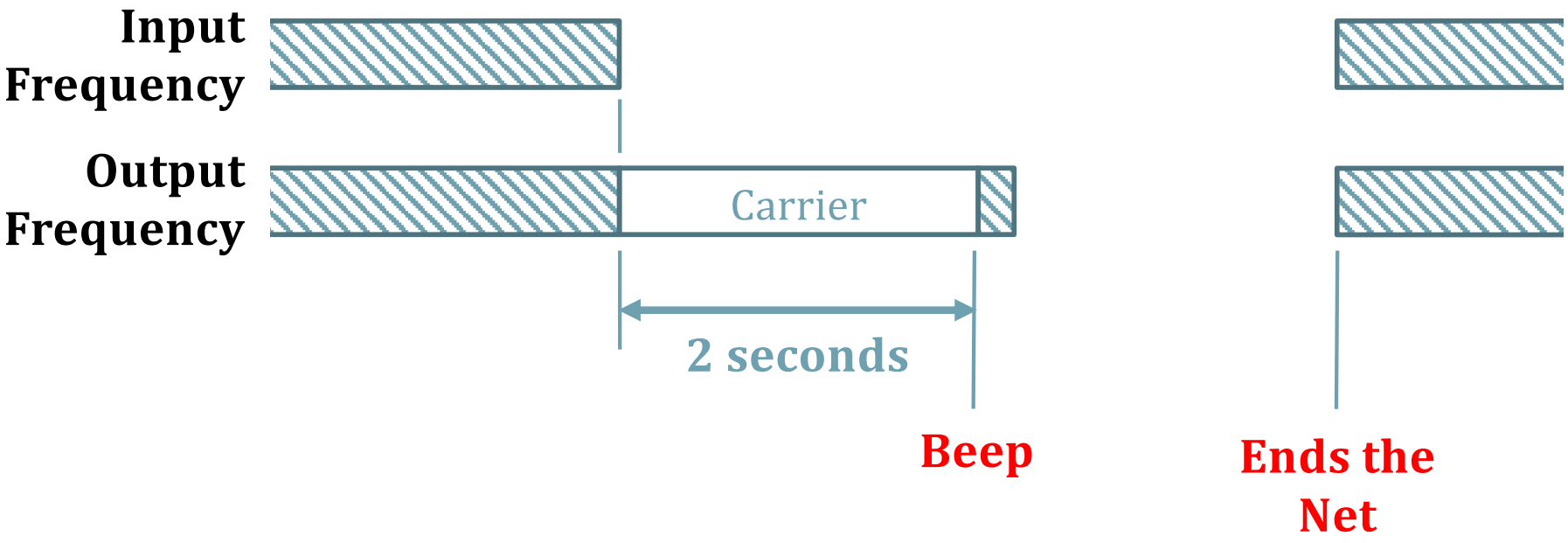


Me, trying to transmit

Channel Busy!

W6CX Linked Repeaters

2M + 220 MHz + 440 MHz + Echolink + IRLP

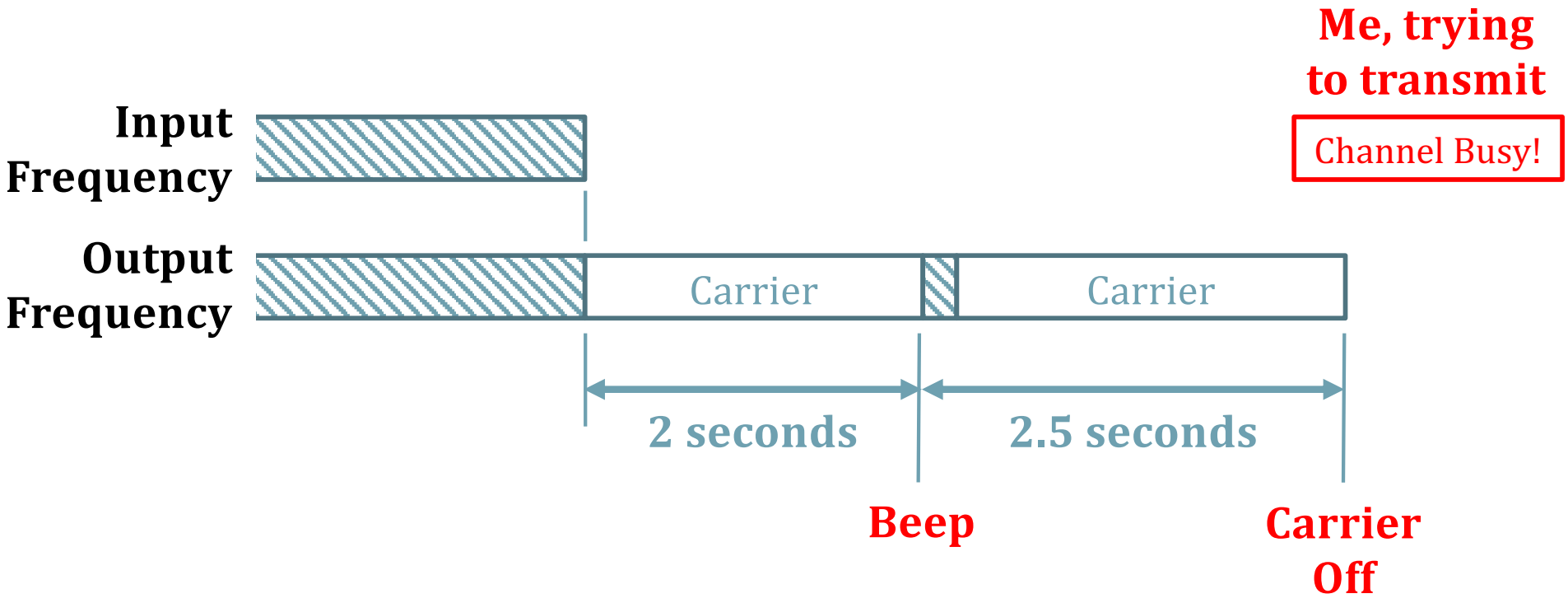


Monitoring the Carrier

Photo by
Kerry Veenstra

W6CX Linked Repeaters

2M + 220 MHz + 440 MHz + Echolink + IRLP



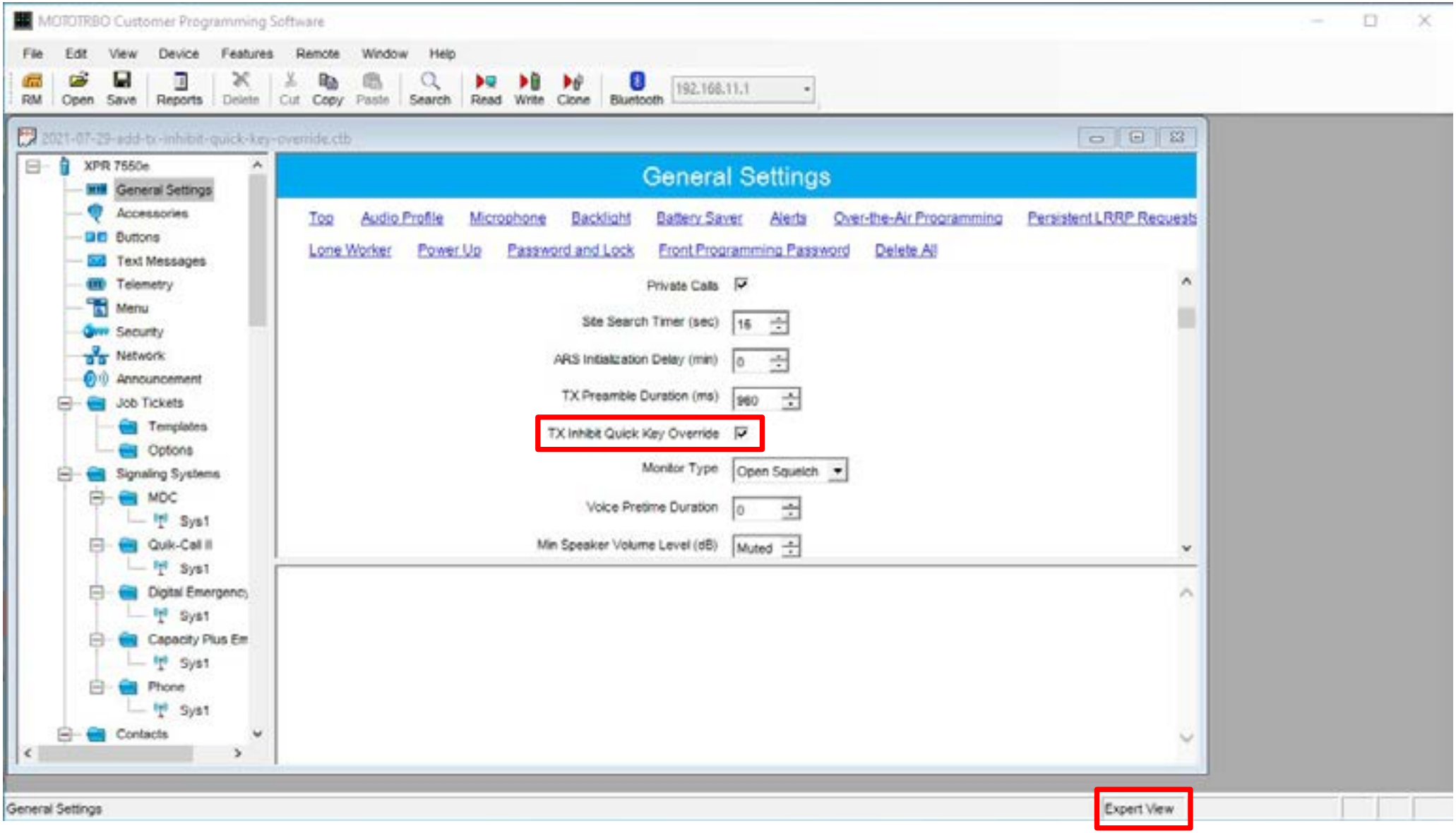
2.4.1.11

TX Inhibit Quick Key Override

This feature allows transmission to be sent on a busy channel.

If **TX Inhibit Quick Key Override** is enabled, double press the **PTT** button within 1 second to send transmission on a busy channel.

NOTICE:
This feature is supported in Analog mode only.


MOTOTRBO Customer Programming Software
File Edit View Device Features Remote Window Help
RM Open Save Reports Delete Cut Copy Paste Search Read Write Clone Bluetooth
192.168.11.1
2021-07-29-add-tx-inhibit-quick-key-override.ctb
XPR 7550e
General Settings
Accessories
Buttons
Text Messages
Telemetry
Menu
Security
Network
Announcement
Job Tickets
Templates
Options
Signaling Systems
MDC
Sys1
Quik-Call II
Sys1
Digital Emergency
Sys1
Capacity Plus Em
Sys1
Phone
Sys1
Contacts
General Settings
Top Audio Profile Microphone Backlight Battery Saver Alerts Over-the-Air Programming Persistent LRRP Requests
Lone Worker Power Up Password and Lock Front Programming Password Delete All
Private Calls
Site Search Timer (sec) 15
ARS Initialization Delay (min) 0
TX Preamble Duration (ms) 960
TX Inhibit Quick Key Override
Monitor Type Open Squelch
Voice Pretime Duration 0
Min Speaker Volume Level (dB) Muted
General Settings
Expert View

Awesome

or

Irksome?

Awesome!

- **Absolutely unmatched audio quality**
- **Squelch is *magic***
- **Yes, legal to use on ham bands**
- **Supports analog**
- **Supports DMR**

Irksome!

- **VHF *or* UHF**
- **No keypad programming** 😱

Keypad Solution?

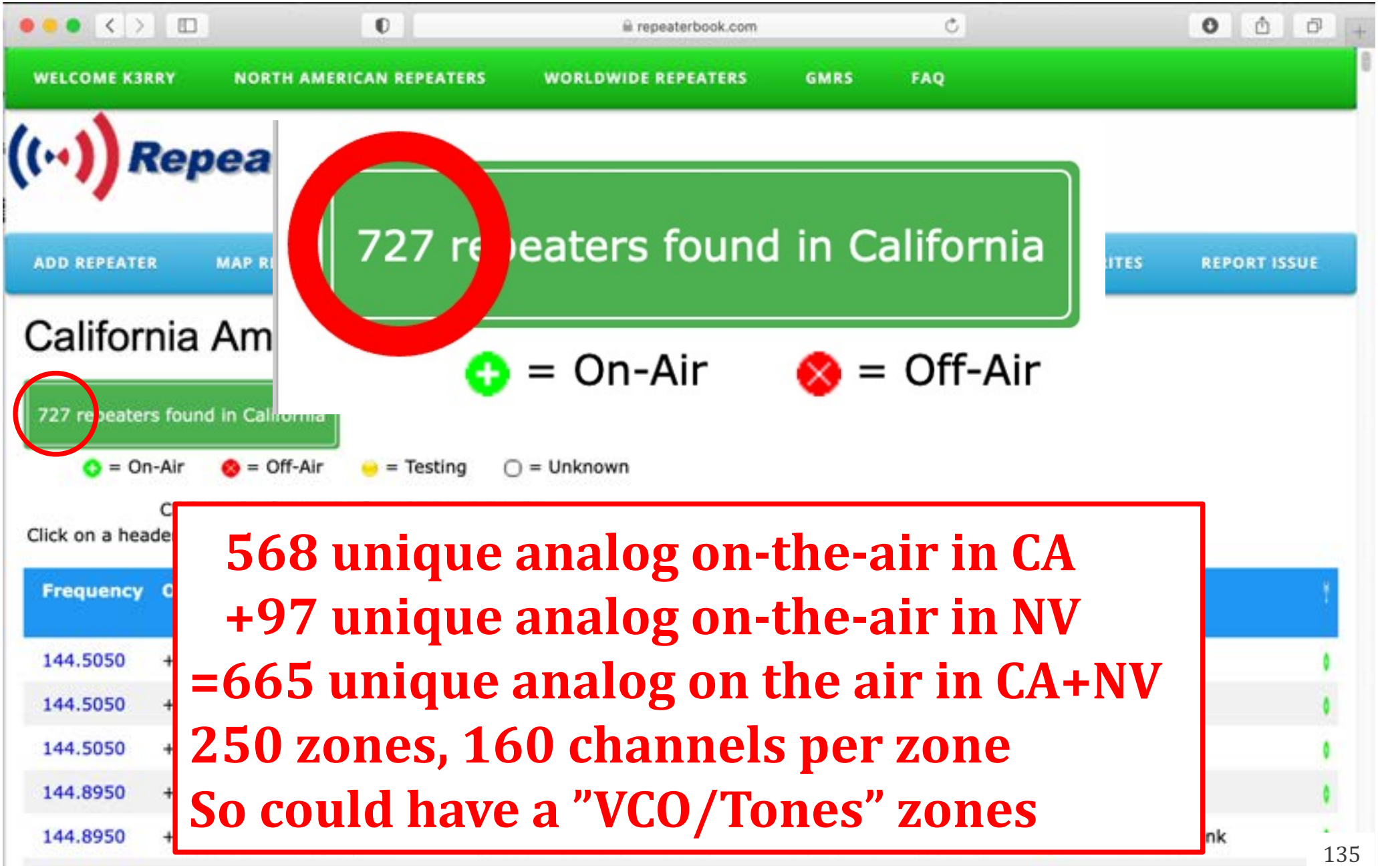


Photo by
radioparts.com

Irksome!

- VHF *or* UHF
- **No keypad programming** 😱
  - **Travel with cable and laptop**
- **Programming software is not free**
- **Must pay to enable radio features**
- **Cannot use an external antenna**

https://alfonsofaustino.blog/2019/09/23/alfonso-faustino-motorola-xpr-7550e-external-antenna-adapter/

Photo by
Kerry Veenstra

Irksome!

- VHF *or* UHF
- No keypad programming 😱
  - Travel with cable and laptop
- Programming software is not free
- Must pay to enable radio features
- Cannot use an external antenna
- **Expensive**

Would I Do This Again?

Yes!

The audio quality is unparalleled

(Avoid the speaker/mic)

Cardboard tubes: hobbycraft.co.uk

Recommendations

1. **If you are willing to pay for the greatest *analog* audio quality, then consider getting a commercial handheld.**
2. **I've used the UHF version of this radio for commercial DMR, and it's great, but I haven't tried *ham* DMR.**

Experiences with Using a COMMERCIAL HANDHELD *for* AMATEUR RADIO

Questions?