



NATIONAL PUBLIC SAFETY TELECOMMUNICATIONS COUNCIL

NCC / NPSTC Standard Channel Nomenclature for the Public Safety Interoperability Channels

Revised June 2009

This document outlines the *NCC / NPSTC Standard Channel Nomenclature for Public Safety Interoperability Channels* as revised in June of 2009. The requirement for a common naming protocol for public safety's interoperability frequencies was identified in early 2000 by the Public Safety National Coordination Committee (NCC), a Federal Advisory Committee chartered by the Federal Communications Commission (FCC) that operated from 1999 to 2003, and provided recommendations to the Commission on operational and technical parameters for use of the 700 MHz public safety band.

Document History

In the final report of the NCC on July 25, 2003, Chair Kathleen Wallmann wrote:

Standard Channel Nomenclature

The NCC respectfully renews its earlier recommendation that the Commission's Rules contain mandatory channel nomenclature for all interoperability channels on all public safety bands. The NCC views such standard nomenclature as essential to the interoperability process, such that all responders to an incident will know the appropriate channel to which to tune their radios and will know – from the channel designator – the band and primary use of the channel specified. Absent such standard nomenclature, a Babel-like confusion could result if, for example, a given jurisdiction were to designate 458.2125 MHz as a calling channel and associate it with "Channel 5" on its radios; and another jurisdiction were to designate the same frequency as a tactical channel and assign it to "Channel 9" on its radios. With adoption of a standard channel nomenclature in the Rules, such confusion – and the attendant potential for delayed response to an incident – would be avoided...

While the FCC declined at that time to mandate such a standard channel nomenclature, the NCC protocol has received wide acceptance within the public safety communications community, as communications interoperability for public safety's first responders continues to be a major issue.

During 2006 NPSTC was approached by a number of public safety user organizations with a request that NPSTC review and update the *Standard Channel Nomenclature* to reflect 'real world' user operational requirements. A Task Group was convened and a public forum to address the issue was held on February 5, 2007 in Orlando FL. Six proponent organizations submitted recommendations for modification of the *Standard Channel Nomenclature*. These were heard and discussed at the forum, and a consensus format was adopted. The proposed

American Association of State Highway and Transportation Officials | American Radio Relay League | Association of Fish and Wildlife Agencies | Association of Public Safety Communications Officials | Forestry Conservation Communications Association | International Association of Chiefs of Police | International Association of Emergency Managers | International Association of Fire Chiefs | International Municipal Signal Association | National Association of State Chief Information Officers | National Association of State Emergency Medical Services Officials | National Association of State Foresters | National Association of State Technology Directors | National Emergency Number Association | National Sheriffs' Association

revision (as a *Report of Committee*) was placed on public notice, and after a 90 day comment period, adopted as the revised NCC / NPSTC *Standard Channel Nomenclature* protocol.

NTIA Interoperability Channels

During the 2007 Forum the issue of names for the 40 NTIA VHF and UHF Interoperability Channels was discussed. The NTIA had designated these channels with a set of names in a format that does not prevent duplication of identifiers or promote uniqueness. The channels were made available for licensing by state and local entities through a process outlined in FCC Public Notice DA-1621, released July 13, 2001¹. Since 2001, at least one federal agency had developed guidance for these channels with a different set of channel names. The representatives of the various federal agencies present at the 2007 Forum requested that the Task Group take the issue of the NTIA channel naming off line, and work with them to find a solution that works for all parties.

The Interdepartment Radio Advisory Committee (IRAC) AD HOC 214 group addressed the issue, obtained naming consensus within the Federal public safety community, and has reported out that the existing naming convention will remain as-is due to the large number of existing federal subscriber sets in use. The AD HOC 214 co-conveners have agreed to request that the FCC update the information contained in DA-1621 and issue a new Public Notice.

This revision of the *Standard Channel Nomenclature* includes the 40 NTIA VHF and UHF Interoperability Channels with the NTIA naming format and Tone Squelch / Network Access information. NPSTC recommends to state and local public safety agencies who may program these channels into subscriber radio equipment that these channels be placed into a separate bank named “Fed” or “NTIA” as a method of avoiding user confusion with any similarly named local operating frequencies.

700 MHz Spectrum

During NPSTC’s 2007 Comment Period for the Report of Committee, the FCC released Docket 07-72, a *Report and Order and Further Notice of Proposed Rulemaking* addressing seven different dockets relating to the Lower and Upper 700 MHz Bands (including the public safety segments in TV Channels 63, 64, 68, and 69). Among the numerous issues in this docket, the Commission announced intent to realign the Public Safety allocations to combine the two separate segments of paired narrowband channels² into the Channel 64/69 pair, and combine the non-narrowband voice use into Channel 63/68, and reallocate the use to Broadband Data which could reduce or eliminate the designators for Wideband Data interoperability channels. The original FCC allocations for the narrowband Interoperability spectrum included duplicate sets of channels (e.g.: Call, Data I/O, Secondary Trunking, etc.), that are reflected in the current protocol. At the time, NPSTC elected to refrain from making any adjustments to the protocol until such time as the issues raised in the *Further Notice* were resolved by the FCC.

The *Second Report and Order* (FCC 07-132), released August 12, 2007, consolidated the two separate narrowband voice blocks into one segment of the 700 MHz band, but did not address the issue of duplicate calling and data interoperability channels. Subsequent to the release of the *Second Report and Order* NPSTC has filed a Request for Rulemaking asking the FCC in part to address the duplicate Calling and Data Interoperability channel designation.

¹ See FCC DA-01-1621A for the original names and limitations.

² At the time, each 6 MHz TV channel was allocated as 3 MHz of narrowband voice, and 3 MHz of reserve or wideband data use. Channel 63 was paired with Channel 68, and Channel 64 was paired with Channel 69

This revision of the *Standard Channel Nomenclature* consolidates the former split blocks of channels and changes the frequency information from the FCC Channel Number format in the NCC and previous NPSTC versions to the discrete 700 MHz frequencies, listing 12.5 kHz channels in order to facilitate the use of the Project 25 Phase 1 Common Air Interface.

Public Safety Interoperability Use of VHF Maritime Spectrum

In its *Third Memorandum Opinion and Order and Third Report and Order*, FCC 00-348 released October 10, 2000, the FCC designated three maritime VHF channel pairs³ for public safety interoperability use in 33 inland VHF Public Coast Service Areas (VPSCAs). One channel pair was designated for use in all 33 VPSCAs, and the other two pairs were designated by VPSCA, so as to provide two pairs for use in each inland VPSCA. These channels have been listed in this document as VTAC17/17D, VTAC18/18D, and VTAC19/19D.

In its *Second Report and Order* (FCC 08-208) on WT Docket 04-344⁴, released September 19, 2008, the FCC removed VHF Maritime Channels 84 (VTAC18/18D) and 85 (VTAC19/19D) from public safety interoperability use in the 33 inland VPSCAs. VHF Maritime Channel 25 (VTAC17/17D) remains available for use in the 33 inland VPSCAs. VTAC18/18D and VTAC19/19D have been removed in this revision of the *Standard Channel Nomenclature*.

Standardized FCC Interoperability Channel Naming Format

Each FCC designated Interoperability Channel in the Public Safety Radio Services (47CFR Part 90) will have a unique name developed according to a standardized format. This format consists of a maximum of 8 characters,⁵ as follows:

Btype##M

This format is broken down as follows:

B Spectrum Band

The Spectrum Band designator is a unique single alpha or numeric character to designate the Public Safety spectrum segment the channel is found within:

- L** VHF Low band (30 – 50 MHz)
- V** VHF High Band (150.8 – 162.0 MHz)
- U** UHF Band (450 – 470 MHz)
- 7** 700 MHz Public Safety Narrowband Voice Band (769 – 775 / 799 – 805 MHz)
- 8** 800 MHz NPSPAC band **after the rebanding process** (806 – 809 / 851 – 854 MHz)

³ The channels so designated were Channel 25 (157.250/162.850 MHz), Channel 84

⁴ *Second Report and Order In the Matter of Amendment of the Commission's Rules Regarding Maritime Automatic Identification Systems, FCC 08-208 at 20.*

⁵ An 8-character limit was adopted by the NCC after discussions with major equipment manufacturers determined this was the minimum display being delivered in 2003 for radios ordered with a display option. This 8-character size was again confirmed with several manufacturers in early 2007.

type **Channel Use**
designator

The Channel Use designator is an alphanumeric 3 or 4 place tag to signify the primary purpose of operations on the channel. In some cases, the Channel Use has been specified in FCC rules or related Orders.

| | |
|------|--|
| CALL | Channel is dedicated nationwide for the express purpose of Interoperability calling only. |
| DATA | Channel is reserved nationwide for the express purpose of data transmission only. |
| FIRE | Primarily used for interagency incident communications by Fire licensees |
| GTAC | Primarily used for interagency incident communications between Public Safety eligible entities and eligible non-governmental organizations |
| LAW | Primarily used for interagency incident communications by Police licensees |
| MED | Primarily used for interagency incident communications by Emergency Medical Service licensees |
| MOB | Primarily used for on-scene interagency incident communications by any Public Safety eligible, using vehicular repeaters (FCC Station Class MO3) |
| TAC | Primarily used for interagency communications by any Public Safety eligible |

**Unique Channel Identifier**

The Unique Channel Identifier is a numeric 1 or 2 place tag to uniquely identify the specific channel. Channel Identifiers are grouped by band segment as follows:

| | |
|-------|--|
| 1-9 | VHF Low band (30-50 MHz) [No leading Zero used] |
| 10-39 | VHF High band (150.8 – 162 MHz) |
| 40-49 | UHF band (450 – 470 MHz) |
| 50-89 | 700 MHz (769-775/799-805 MHz) |
| 90-99 | 800 MHz “NPSPAC” band (806-809/851-854 MHz) [Post-rebanding] |

Notes:

- Starting in VHF High band, Channel Identifiers are grouped by Channel Use type, with Channel Identifiers ending in “0” reserved for Interoperability Calling use.
- Channels Identifiers specified for Emergency Medical Services (“MED”) in this document are numbered to avoid conflict with the FCC’s UHF medical channel naming methodology specified in 47CFR90.20(d)(65) and 47CFR90.20(d)(66)(i).
- Channel Identifiers not specified in Tables 1 and 2 are reserved for future use.

M **Modifier**

The Modifier character is a single alphanumeric tag to identify a modification to the default operation type on the channel / channel pair:

| | |
|---|---|
| D | Direct or “Talk around” use [Simplex operations on the output channel of a pair normally designated for half-duplex or mobile relay operations. |
|---|---|

Tables 1 and 2 show the FCC designated Interoperability Channels and the related Channel Name.

“Short Form” (6 Character) Names

To facilitate the use of these Channel Names in older radios with 6 characters available in the display, the first “Band” character is deleted, and the “type” Channel Use field is limited to the first 3 characters. Table 3 shows the 6 Character “Short Form” names for the FCC designated Interoperability Channels. Short Form names are not applicable to the 700 MHz Band since equipment for this band is new and does not have the character limitation.

Standardized Tone Squelch or Network Access Codes

The use of a common Continuous Tone Controlled Squelch System (CTCSS) tone of 156.7 Hz for transmit and receive on national Interoperability Channels was originally specified in the NPSPAC proceedings (Docket 87-112). In many areas, the 800 MHz Planning Regions allowed the use of an additional (secondary) access tone for in-cabinet repeat operations, as long as the 156.7 Hz tone was monitored by a live dispatcher or always repeated upon receipt. 156.7 Hz is always transmitted by repeaters.

In the development process of the *Standard Channel Nomenclature for the Public Safety Interoperability Channels*, the NCC Interoperability Committee’s Working Group recommended that 156.7 Hz CTCSS transmit and receive be used for all analog voice operations on all interoperability channels in all bands. For P-25 voice operations, the NCC Working Group initially recommended the 156.7 Hz equivalent Network Access Code (NAC) of \$61F. This recommendation was changed in 2001 to use the default (“carrier squelch equivalent”) NAC of \$293.

The NTIA has adopted 167.9 Hz as the common CTCSS tone to be used on NTIA analog interoperability frequencies. NTIA adopted a NAC of \$68F for use on NTIA digital interoperability frequencies.

Analog Operations

The use of **CTCSS Tone 156.7 Hz** has been adopted for all analog operations on FCC designated Interoperability Channels:

1. All (fixed and subscriber) analog transmitters **will** encode 156.7 Hz.
2. Subscriber receivers should be set for carrier squelch operations unless conditions in the area require the use of tone protection to mitigate adjacent channel interference, or interference from intermodulation products. In those cases, receivers will decode 156.7 Hz.
3. Subject to the approval of applicable Statewide Communications Interoperability Plans and/or FCC-approved Regional Plans, Mobile Relay stations that are part of a Local, Regional, or Statewide interoperability network may be equipped with a second receive CTCSS tone to provide local (“in cabinet”) relay operation, provided:
 - a. The relay transmitter continues to transmit the Common CTCSS Tone of 156.7 Hz so that all users within range of the station are aware the station is in use;

- b. The relay will accept the Common CTCSS Tone of 156.7 Hz and present the audio accompanying the 156.7 Hz-encoded transmission for automatic in-cabinet repeat or to a live operator at the appropriate controlling dispatch facility; and
- c. The operational configuration of the Mobile Relay Station is published in applicable interoperability resource tracking documents (such as the appropriate Tactical Interoperability Communications Plan, Statewide Communications Interoperability Plan, and/or FCC-approved Regional Plan) and databases (CAPRAD, CASM, and NIIX⁶).

Digital Operations

The use of Network Access Code (NAC) \$293 has been adopted for all digital operations on FCC designated Interoperability Channels:

4. Subject to the approval of applicable Statewide Communications Interoperability Plans and/or FCC-approved Regional Plans, Mobile Relay stations that are part of a Local, Regional, or Statewide interoperability network may be equipped with a second receive NAC to provide local (“in cabinet”) relay operation, provided:
 - a. The relay transmitter continues to transmit the Common NAC of \$293 so that all users within range of the station are aware the station is in use;
 - b. The relay will accept the Common NAC of \$293 and present the audio accompanying the \$293-encoded transmission for automatic in-cabinet repeat or to a live operator at the appropriate controlling dispatch facility; and
 - c. The operational configuration of the Mobile Relay Station is published in applicable interoperability resource tracking documents (such as the appropriate Tactical Interoperability Communications Plan, Statewide Communications Interoperability Plan, and/or FCC-approved Regional Plan) and databases (CAPRAD, CASM, and NIIX).

Subscriber Radio Programming

Interoperability Channel Configurations

It is strongly recommended that interoperability channels listed with both a mobile relay and a direct configuration have both configurations of each channel programmed in each subscriber radio, regardless of the available infrastructure in the user’s home area.

It is strongly recommended that state and local public safety and public service agencies programming the NTIA VHF and UHF Law Enforcement and Incident Response channels into their subscriber equipment partition those channels into a separate ‘zone’ or ‘bank’ designated as “Fed” or “NTIA,” while maintaining the NTIA Channel designation, as a method to avoid confusion on the user’s part between the NTIA channels and any similarly designated local channels.

⁶ The Computer Assisted Pre-Coordination Resource and Database System (CAPRAD) is a regional planning tool designed to assist 700 MHz Regional Planning Committees with development of their plans. The Communications Asset Survey and Mapping Tool (CASM) was developed by the Interoperable Communications Technical Assistance Program within the U.S. Department of Homeland Security to assist urban areas, designated metropolitan areas and states with inventory and mapping/use of interoperability resources. The National Interoperability Information eXchange (NIIX) is a library of statewide and tactical interoperability planning documents under development by NPSTC.

Implementing This Protocol

It is recognized that the implementation of this protocol must be done in an organized and coordinated manner. This is best accomplished in conjunction with a system programming refresh, such as during the 800 MHz rebanding process, or when other operational requirements such as a frequency change or a conversion to narrowbanded channels requires the subscriber fleet of radios to be adjusted.

Table 1: Sorted by band in Numeric Order

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| FREQUENCY (SUBSCRIBER LOAD) | | BASE,MOBILE, OR FIXED (REPEATER OR CONTROL) | ELIGIBILITY / PRIMARY USE | ORIGINAL NCC NAME | COMMON NAME | LIMITATIONS (47 CFR Part 90) |
|--|----------|---|--|-------------------------|----------------|---------------------------------|
| RECEIVE | TRANSMIT | | | | | |
| MHz | | FCC 30 MHz Public Safety Band | | | | |
| 39.4600 | SIMPLEX | Base-Fixed-Mobile | Law Enforcement | 3LAW1 | LLAW1 | 90.20(c)(3) [15] |
| 39.4800 | SIMPLEX | Base-Fixed-Mobile | Fire Proposed | 3FIR2 | LFIRE2 | Prop. 90.20(c)(3) [19] |
| 45.8600 | SIMPLEX | Base-Fixed-Mobile | Law Enforcement | 3LAW3 | LLAW3 | 90.20(c)(3) [15] |
| 45.8800 | SIMPLEX | Base-Fixed-Mobile | Fire | 3FIR4 | LFIRE4 | 90.20(c)(3) [19] |
| MHz | | FCC 150 - 162 MHz Public Safety Band | | | | |
| 155.7525 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1CAL18 | VCALL10 | 90.20(c)(3) [80,83] |
| 151.1375 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1TAC5 | VTAC11 | 90.20(c)(3) [80] |
| 154.4525 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1TAC13 | VTAC12 | 90.20(c)(3) [80] |
| 158.7375 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1TAC22 | VTAC13 | 90.20(c)(3) [80] |
| 159.4725 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1TAC23 | VTAC14 | 90.20(c)(3) [80] |
| 161.8500 | 157.2500 | Mobile-Fixed | Allocated for Public Safety Use in 33 | 1TAC19D | VTAC17 | 90.20(g) |
| | SIMPLEX | Base-Fixed-Mobile | Inland VPCSAs/EAs | 1TAC24 | VTAC17D | |
| 154.2800 | SIMPLEX | Base-Fixed-Mobile | Fire | 1FIR9 | VFIRE21 | 90.20(c)(3) [19] |
| 154.2650 | SIMPLEX | Base-Fixed-Mobile | Fire | 1FIR7 | VFIRE22 | 90.20(c)(3) [19] |
| 154.2950 | SIMPLEX | Base-Fixed-Mobile | Fire | 1FIR11 | VFIRE23 | 90.20(c)(3) [19] |
| 154.2725 | SIMPLEX | Base-Fixed-Mobile | Fire | 1FIR8 | VFIRE24 | 90.20(c)(3) [19] |
| 154.2875 | SIMPLEX | Base-Fixed-Mobile | Fire | 1FIR10 | VFIRE25 | 90.20(c)(3) [19] |
| 154.3025 | SIMPLEX | Base-Fixed-Mobile | Fire | 1FIR12 | VFIRE26 | 90.20(c)(3) [19] |
| 155.3400 | SIMPLEX | Base-Fixed-Mobile | EMS | 1EMS14 | VMED28 | 90.20(c)(3) [40] |
| 155.3475 | SIMPLEX | Base-Fixed-Mobile | EMS | 1EMS15 | VMED29 | 90.20(c)(3) [40] |
| 155.4750 | SIMPLEX | Base-Fixed-Mobile | Law Enforcement | 1LAW16 | VLAW31 | 90.20(c)(3) [41] |
| 155.4825 | SIMPLEX | Base-Fixed-Mobile | Law Enforcement | 1LAW17 | VLAW32 | 90.20(c)(3) [41] |
| MHz | | NTIA VHF Law Enforcement Channels | | | | |
| 167.0875 | SIMPLEX | Base-Fixed-Mobile | LE Calling Analog - 167.9 Hz CTCSS TX | | LE A | FCC Public Notice DA 01-1621 |
| 167.0875 | 162.0875 | Mobile-Fixed | LE Tactical Analog - 167.9 Hz CTCSS TX | | LE 1 | FCC Public Notice DA 01-1621 |
| 167.2500 | 162.2625 | Mobile-Fixed | LE Tactical Analog - 167.9 Hz CTCSS TX | | LE 2 | FCC Public Notice DA 01-1621 |
| 167.7500 | 162.8375 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 3 | FCC Public Notice DA 01-1621 |
| 168.1125 | 163.2875 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 4 | FCC Public Notice DA 01-1621 |
| 168.4625 | 163.4250 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 5 | FCC Public Notice DA 01-1621 |
| 167.2500 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 6 | FCC Public Notice DA 01-1621 |
| 167.7500 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 7 | FCC Public Notice DA 01-1621 |
| 168.1125 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 8 | FCC Public Notice DA 01-1621 |
| 168.4625 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 9 | FCC Public Notice DA 01-1621 |
| MHz | | NTIA VHF Incident Response Channels | | | | |
| 169.5375 | 164.7125 | Mobile-Fixed | Incident Calling Analog - 167.9 Hz CTCSS TX | | NC 1CALL | FCC Public Notice DA 01-1621 |
| 170.0125 | 165.2500 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 1 | FCC Public Notice DA 01-1621 |
| 170.4125 | 165.9625 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 2 | FCC Public Notice DA 01-1621 |
| 170.6875 | 166.5750 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 3 | FCC Public Notice DA 01-1621 |
| 173.0375 | 167.3250 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 4 | FCC Public Notice DA 01-1621 |
| 169.5375 | SIMPLEX | Base-Fixed-Mobile | Incident Calling (Direct) Analog - 167.9 Hz CTCSS TX | | IR 5 | FCC Public Notice DA 01-1621 |
| 170.0125 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 6 | FCC Public Notice DA 01-1621 |
| <p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. Since DA 01-1621 was issued by the FCC in 2001, NTIA has modified the table of frequencies. NPSTC is working with our Federal partners to have a revised Public Notice issued by the FCC.</i></p> | | | | | | |

Table 1: Sorted by band in Numeric Order

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| FREQUENCY (SUBSCRIBER LOAD) | | BASE, MOBILE, OR FIXED (REPEATER OR CONTROL) | ELIGIBILITY / PRIMARY USE | ORIGINAL NCC NAME | COMMON NAME | LIMITATIONS (47 CFR Part 90) |
|--|----------|--|--|-------------------------|----------------|---------------------------------|
| RECEIVE | TRANSMIT | | | | | |
| MHz | MHz | NTIA VHF Incident Response Channels (continued) | | | | |
| 170.4125 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 7 | FCC Public Notice DA 01-1621 |
| 170.6875 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 8 | FCC Public Notice DA 01-1621 |
| 173.0375 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 9 | FCC Public Notice DA 01-1621 |
| MHz | MHz | NTIA UHF Law Enforcement Channels | | | | |
| 414.0375 | SIMPLEX | Base-Fixed-Mobile | LE Calling Analog - 167.9 Hz CTCSS TX | | LE B | FCC Public Notice DA 01-1621 |
| 409.9875 | 418.9875 | Mobile-Fixed | LE Tactical Analog - 167.9 Hz CTCSS TX | | LE 10 | FCC Public Notice DA 01-1621 |
| 410.1875 | 419.1875 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 11 | FCC Public Notice DA 01-1621 |
| 410.6125 | 419.6125 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 12 | FCC Public Notice DA 01-1621 |
| 414.0625 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 13 | FCC Public Notice DA 01-1621 |
| 414.3125 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 14 | FCC Public Notice DA 01-1621 |
| 414.3375 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 15 | FCC Public Notice DA 01-1621 |
| 409.9875 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 16 | FCC Public Notice DA 01-1621 |
| 410.1875 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 17 | FCC Public Notice DA 01-1621 |
| 410.6125 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 18 | FCC Public Notice DA 01-1621 |
| MHz | MHz | NTIA UHF Incident Response Channels | | | | |
| 410.2375 | 164.7125 | Mobile-Fixed | Incident Calling Analog - 167.9 Hz CTCSS TX | | NC 2CALL | FCC Public Notice DA 01-1621 |
| 410.4375 | 165.2500 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 10 | FCC Public Notice DA 01-1621 |
| 410.6375 | 165.9625 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 11 | FCC Public Notice DA 01-1621 |
| 410.8375 | 166.5750 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 12 | FCC Public Notice DA 01-1621 |
| 413.1875 | 167.3250 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 13 | FCC Public Notice DA 01-1621 |
| 413.2125 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 14 | FCC Public Notice DA 01-1621 |
| 410.2375 | SIMPLEX | Base-Fixed-Mobile | Incident Calling (Direct) Analog - 167.9 Hz CTCSS TX | | IR 15 | FCC Public Notice DA 01-1621 |
| 410.4375 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 16 | FCC Public Notice DA 01-1621 |
| 410.6375 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 17 | FCC Public Notice DA 01-1621 |
| 410.8375 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 18 | FCC Public Notice DA 01-1621 |
| <p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. Since DA 01-1621 was issued by the FCC in 2001, NTIA has modified the table of frequencies. NPSTC is working with our Federal partners to have a revised Public Notice issued by the FCC.</i></p> | | | | | | |
| MHz | MHz | FCC 450 - 470 MHz Public Safety Band | | | | |
| 453.2125 | 458.2125 | Mobile-Fixed | Any Public Safety Eligible | 4CAL27D | UCALL40 | 90.20(c)(3) [80,83] |
| | SIMPLEX | Base-Fixed-Mobile | | 4CAL27 | UCALL40D | |
| 453.4625 | 458.4625 | Mobile-Fixed | Any Public Safety Eligible | 4TAC28D | UTAC41 | 90.20(c)(3) [80] |
| | SIMPLEX | Base-Fixed-Mobile | | 4TAC28 | UTAC41D | |
| 453.7125 | 458.7125 | Mobile-Fixed | Any Public Safety Eligible | 4TAC29D | UTAC42 | 90.20(c)(3) [80] |
| | SIMPLEX | Base-Fixed-Mobile | | 4TAC29 | UTAC42D | |
| 453.8625 | 458.8625 | Mobile-Fixed | Any Public Safety Eligible | 4TAC30D | UTAC43 | 90.20(c)(3) [80] |
| | SIMPLEX | Base-Fixed-Mobile | | 4TAC30 | UTAC43D | |

Table 1: Sorted by band in Numeric Order

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| FREQUENCY (SUBSCRIBER LOAD) | | BASE, MOBILE, OR FIXED (REPEATER OR CONTROL) | ELIGIBILITY / PRIMARY USE | ORIGINAL NCC NAME | COMMON NAME | LIMITATIONS (47 CFR Part 90) |
|--------------------------------|-----------|--|--|-------------------------|----------------|---------------------------------|
| RECEIVE | TRANSMIT | | | | | |
| MHz | MHz | FCC 700 MHz Public Safety Band (12.5 kHz Channels) | | | | |
| 769.24375 | 799.24375 | Mobile-Fixed | Calling Channel | 7CAL59 | 7CALL50 | 90.531(a)(1)(ii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7CALL50D | |
| 769.14375 | 799.14375 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC58 | 7TAC51 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC51D | |
| 769.64375 | 799.64375 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC62 | 7TAC52 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC52D | |
| 770.14375 | 800.14375 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC66 | 7TAC53 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC53D | |
| 770.64375 | 800.64375 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC70 | 7TAC54 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC54D | |
| 769.74375 | 1079-1080 | Mobile-Fixed | General Public Safety Service | 7TAC63 | 7TAC55 | |
| | 799.74375 | Base-Fixed-Mobile | | | 7TAC55D | |
| 770.24375 | 800.24375 | Mobile-Fixed | General Public Safety Service | 7TAC67 | 7TAC56 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC56D | |
| 770.99375 | 800.99375 | Mobile-Fixed | Other Public Service | 7TAC73 | 7GTAC57 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7GTAC57D | |
| 770.89375 | 800.89375 | Mobile-Fixed | Mobile Repeater (M03 Use Primary) | 7MOB72 | 7MOB59 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7MOB59D | |
| 770.39375 | 800.39375 | Mobile-Fixed | Law Enforcement | 7LAW68 | 7LAW61 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7LAW61D | |
| 770.49375 | 800.49375 | Mobile-Fixed | Law Enforcement | 7LAW69 | 7LAW62 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7LAW62D | |
| 769.89375 | 799.89375 | Mobile-Fixed | Fire | 7FIR64 | 7FIRE63 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7FIRE63D | |
| 769.99375 | 799.99375 | Mobile-Fixed | Fire | 7FIR65 | 7FIRE64 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7FIRE64D | |
| 769.39375 | 799.39375 | Mobile-Fixed | EMS | 7MED60 | 7MED65 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7MED65D | |
| 769.49375 | 799.49375 | Mobile-Fixed | EMS | 7EMS61 | 7MED66 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7MED66D | |
| 770.74375 | 800.74375 | Mobile-Fixed | Mobile Data | 7DAT71 | 7DATA69 | 90.531(a)(1)(i) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7DATA69D | |
| 773.25625 | 803.25625 | Mobile-Fixed | Calling Channel | 7CAL75 | 7CALL70 | 90.531(a)(1)(ii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7CALL70D | |
| 773.10625 | 803.10625 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC74 | 7TAC71 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC71D | |
| 773.60625 | 803.60625 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC78 | 7TAC72 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC72D | |
| 774.10625 | 804.10625 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC82 | 7TAC73 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC73D | |
| 774.60625 | 804.60625 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC86 | 7TAC74 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC74D | |
| 773.75625 | 803.75625 | Mobile-Fixed | General Public Safety Service | 7TAC79 | 7TAC75 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC75D | |
| 774.25625 | 804.25625 | Mobile-Fixed | General Public Safety Service | 7TAC83 | 7TAC76 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7TAC76D | |
| 774.85625 | 804.85625 | Mobile-Fixed | Other Public Service | 7TAC89 | 7GTAC77 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7GTAC77D | |
| 774.50625 | 804.50625 | Mobile-Fixed | Mobile Repeater (M03 Use Primary) | 7MOB88 | 7MOB79 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7MOB79D | |
| 774.00625 | 804.00625 | Mobile-Fixed | Law Enforcement | 7LAW84 | 7LAW81 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7LAW81D | |
| 774.35625 | 804.35625 | Mobile-Fixed | Law Enforcement | 7LAW85 | 7LAW82 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7LAW82D | |
| 773.50625 | 803.50625 | Mobile-Fixed | Fire | 7FIR80 | 7FIRE83 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7FIRE83D | |
| 773.85625 | 803.85625 | Mobile-Fixed | Fire | 7FIR81 | 7FIRE84 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7FIRE84D | |
| 773.00625 | 803.00625 | Mobile-Fixed | EMS | 7EMS76 | 7MED86 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7MED86D | |
| 773.35625 | 803.35625 | Mobile-Fixed | EMS | 7EMS77 | 7MED87 | |
| | SIMPLEX | Base-Fixed-Mobile | | | 7MED87D | |
| 774.75625 | 804.75625 | Mobile-Fixed | Mobile Data | 7DAT87 | 7DATA89 | 90.531(a)(1)(i) |
| | SIMPLEX | Base-Fixed-Mobile | | | 7DATA89D | |

Table 1: Sorted by band in Numeric Order

(Page 4 of 4)

| FREQUENCY (SUBSCRIBER LOAD) | | BASE, MOBILE, OR FIXED (REPEATER OR CONTROL) | ELIGIBILITY / PRIMARY USE | ORIGINAL NCC NAME | COMMON NAME | LIMITATIONS (47 CFR Part 90) |
|--------------------------------|----------|--|----------------------------|-------------------------|----------------|---------------------------------|
| RECEIVE | TRANSMIT | | | | | |
| MHz | MHz | FCC 800 MHz NPSPAC Band (Post-Rebanding) | | | | |
| 851.0125 | 806.0125 | Mobile-Fixed | Any Public Safety Eligible | 8CAL90 | 8CALL90 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8CAL90D | 8CALL90D | |
| 851.5125 | 806.5125 | Mobile-Fixed | Any Public Safety Eligible | 8TAC91 | 8TAC91 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8TAC91D | 8TAC91D | |
| 852.0125 | 807.0125 | Mobile-Fixed | Any Public Safety Eligible | 8TAC92 | 8TAC92 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8TAC92D | 8TAC92D | |
| 852.5125 | 807.5125 | Mobile-Fixed | Any Public Safety Eligible | 8TAC93 | 8TAC93 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8TAC93D | 8TAC93D | |
| 853.0125 | 808.0125 | Mobile-Fixed | Any Public Safety Eligible | 8TAC94 | 8TAC94 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8TAC94D | 8TAC94D | |

Table 2: Sorted by band in Frequency Order

(Page 1 of 4)

| FREQUENCY (SUBSCRIBER LOAD) | | BASE,MOBILE, OR FIXED (REPEATER OR CONTROL) | ELIGIBILITY / PRIMARY USE | ORIGINAL NCC NAME | COMMON NAME | LIMITATIONS (47 CFR Part 90) |
|--|----------|---|--|-------------------|-------------|------------------------------|
| RECEIVE | TRANSMIT | | | | | |
| MHz | | FCC 30 MHz Public Safety Band | | | | |
| 39.4600 | SIMPLEX | Base-Fixed-Mobile | Law Enforcement | 3LAW1 | LLAW1 | 90.20(c)(3) [15] |
| 39.4800 | SIMPLEX | Base-Fixed-Mobile | Fire Proposed | 3FIR2 | LFIRE2 | Prop. 90.20(c)(3) [19] |
| 45.8600 | SIMPLEX | Base-Fixed-Mobile | Law Enforcement | 3LAW3 | LLAW3 | 90.20(c)(3) [15] |
| 45.8800 | SIMPLEX | Base-Fixed-Mobile | Fire | 3FIR4 | LFIRE4 | 90.20(c)(3) [19] |
| MHz | | FCC 150 - 162 MHz Public Safety Band | | | | |
| 151.1375 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1CAL18 | VTAC11 | 90.20(c)(3) [80] |
| 154.2650 | SIMPLEX | Base-Fixed-Mobile | Fire | 1TAC5 | VFIRE22 | 90.20(c)(3) [19] |
| 154.2725 | SIMPLEX | Base-Fixed-Mobile | Fire | 1TAC13 | VFIRE24 | 90.20(c)(3) [19] |
| 154.2800 | SIMPLEX | Base-Fixed-Mobile | Fire | 1TAC22 | VFIRE21 | 90.20(c)(3) [19] |
| 154.2875 | SIMPLEX | Base-Fixed-Mobile | Fire | 1TAC23 | VFIRE25 | 90.20(c)(3) [19] |
| 154.2950 | SIMPLEX | Base-Fixed-Mobile | Fire | 1TAC19D | VFIRE23 | 90.20(c)(3) [19] |
| 154.3025 | SIMPLEX | Base-Fixed-Mobile | Fire | 1TAC24 | VFIRE26 | 90.20(c)(3) [19] |
| 154.4525 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1TAC20D | VTAC12 | 90.20(c)(3) [80] |
| 155.3400 | SIMPLEX | Base-Fixed-Mobile | EMS | 1TAC25 | VMED28 | 90.20(c)(3) [40] |
| 155.3475 | SIMPLEX | Base-Fixed-Mobile | EMS | 1TAC21D | VMED29 | 90.20(c)(3) [40] |
| 155.4750 | SIMPLEX | Base-Fixed-Mobile | Law Enforcement | 1TAC26 | VLAW31 | 90.20(c)(3) [41] |
| 155.4825 | SIMPLEX | Base-Fixed-Mobile | Law Enforcement | 1FIR9 | VLAW32 | 90.20(c)(3) [41] |
| 155.7525 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1FIR7 | VCALL10 | 90.20(c)(3) [80,83] |
| 158.7375 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1FIR11 | VTAC13 | 90.20(c)(3) [80] |
| 159.4725 | SIMPLEX | Base-Fixed-Mobile | Any Public Safety Eligible | 1FIR8 | VTAC14 | 90.20(c)(3) [80] |
| 161.8500 | 157.2500 | Mobile-Fixed | Allocated for Public Safety Use in 33 Inland VPCSAs/EAs | 1FIR10 | VTAC17 | 90.20(g) |
| | | Base-Fixed-Mobile | | 1FIR12 | VTAC17D | |
| MHz | | NTIA VHF Law Enforcement Channels | | | | |
| 167.0875 | SIMPLEX | Base-Fixed-Mobile | LE Calling Analog - 167.9 Hz CTCSS TX | | LE A | FCC Public Notice DA 01-1621 |
| 167.0875 | 162.0875 | Mobile-Fixed | LE Tactical Analog - 167.9 Hz CTCSS TX | | LE 1 | FCC Public Notice DA 01-1621 |
| 167.2500 | 162.2625 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 2 | FCC Public Notice DA 01-1621 |
| 167.2500 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 6 | FCC Public Notice DA 01-1621 |
| 167.7500 | 162.8375 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 3 | FCC Public Notice DA 01-1621 |
| 167.7500 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 7 | FCC Public Notice DA 01-1621 |
| 168.1125 | 163.2875 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 4 | FCC Public Notice DA 01-1621 |
| 168.1125 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 8 | FCC Public Notice DA 01-1621 |
| 168.4625 | 163.4250 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 5 | FCC Public Notice DA 01-1621 |
| 168.4625 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 9 | FCC Public Notice DA 01-1621 |
| MHz | | NTIA VHF Incident Response Channels | | | | |
| 169.5375 | 164.7125 | Mobile-Fixed | Incident Calling Analog - 167.9 Hz CTCSS TX | | NC 1CALL | FCC Public Notice DA 01-1621 |
| 169.5375 | SIMPLEX | Base-Fixed-Mobile | Incident Calling (Direct) Analog - 167.9 Hz CTCSS TX | | IR 5 | FCC Public Notice DA 01-1621 |
| 170.0125 | 165.2500 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 1 | FCC Public Notice DA 01-1621 |
| 170.0125 | SIMPLEX | Base-Fixed-Mobile | INCIDENT TACTICAL (DIRECT) Analog - 167.9 Hz CTCSS TX | | IR 6 | FCC Public Notice DA 01-1621 |
| 170.4125 | 165.9625 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 2 | FCC Public Notice DA 01-1621 |
| 170.4125 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 7 | FCC Public Notice DA 01-1621 |
| 170.6875 | 166.5750 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 3 | FCC Public Notice DA 01-1621 |
| <p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. Since DA 01-1621 was issued by the FCC in 2001, NTIA has modified the table of frequencies. NPSTC is working with our Federal partners to have a revised Public Notice issued by the FCC.</i></p> | | | | | | |

Table 2: Sorted by band in Frequency Order

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| FREQUENCY (SUBSCRIBER LOAD) | | BASE, MOBILE, OR FIXED (REPEATER OR CONTROL) | ELIGIBILITY / PRIMARY USE | ORIGINAL NCC NAME | COMMON NAME | LIMITATIONS (47 CFR Part 90) |
|--|----------|--|--|-------------------|-------------|------------------------------|
| RECEIVE | TRANSMIT | | | | | |
| MHz | MHz | NTIA VHF Incident Response Channels (continued) | | | | |
| 170.6875 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 8 | FCC Public Notice DA 01-1621 |
| 173.0375 | 167.3250 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 4 | FCC Public Notice DA 01-1621 |
| 173.0375 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 9 | FCC Public Notice DA 01-1621 |
| MHz | MHz | NTIA UHF Law Enforcement Channels | | | | |
| 409.9875 | 418.9875 | Mobile-Fixed | LE Tactical Analog - 167.9 Hz CTCSS TX | | LE 10 | FCC Public Notice DA 01-1621 |
| 409.9875 | SIMPLEX | Base-Fixed-Mobile | LE Calling (Direct) Analog - 167.9 Hz CTCSS TX | | LE 16 | FCC Public Notice DA 01-1621 |
| 410.1875 | 419.1875 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 11 | FCC Public Notice DA 01-1621 |
| 410.1875 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 17 | FCC Public Notice DA 01-1621 |
| 410.6125 | 419.6125 | Mobile-Fixed | LE Tactical P25 Digital - \$68F NAC | | LE 12 | FCC Public Notice DA 01-1621 |
| 410.6125 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 18 | FCC Public Notice DA 01-1621 |
| 414.0375 | SIMPLEX | Base-Fixed-Mobile | LE Calling Analog - 167.9 Hz CTCSS TX | | LE B | FCC Public Notice DA 01-1621 |
| 414.0625 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 13 | FCC Public Notice DA 01-1621 |
| 414.3125 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 14 | FCC Public Notice DA 01-1621 |
| 414.3375 | SIMPLEX | Base-Fixed-Mobile | LE Tactical (Direct) P25 Digital - \$68F NAC | | LE 15 | FCC Public Notice DA 01-1621 |
| MHz | MHz | NTIA UHF Incident Response Channels | | | | |
| 410.2375 | 164.7125 | Mobile-Fixed | Incident Calling Analog - 167.9 Hz CTCSS TX | | NC 2CALL | FCC Public Notice DA 01-1621 |
| 410.2375 | SIMPLEX | Base-Fixed-Mobile | Incident Calling (Direct) Analog - 167.9 Hz CTCSS TX | | IR 15 | FCC Public Notice DA 01-1621 |
| 410.4375 | 165.2500 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 10 | FCC Public Notice DA 01-1621 |
| 410.4375 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 16 | FCC Public Notice DA 01-1621 |
| 410.6375 | 165.9625 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 11 | FCC Public Notice DA 01-1621 |
| 410.6375 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 17 | FCC Public Notice DA 01-1621 |
| 410.8375 | 166.5750 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 12 | FCC Public Notice DA 01-1621 |
| 410.8375 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 18 | FCC Public Notice DA 01-1621 |
| 413.1875 | 167.3250 | Mobile-Fixed | Incident Tactical Analog - 167.9 Hz CTCSS TX | | IR 13 | FCC Public Notice DA 01-1621 |
| 413.2125 | SIMPLEX | Base-Fixed-Mobile | Incident Tactical (Direct) Analog - 167.9 Hz CTCSS TX | | IR 14 | FCC Public Notice DA 01-1621 |
| <p><i>Use of the NTIA Interoperability Channels by FCC licensees is subject to the conditions specified in FCC Public Notice DA 01-1621. Since DA 01-1621 was issued by the FCC in 2001, NTIA has modified the table of frequencies. NPSTC is working with our Federal partners to have a revised Public Notice issued by the FCC.</i></p> | | | | | | |
| MHz | MHz | FCC 450 - 470 MHz Public Safety Band | | | | |
| 453.2125 | 458.2125 | Mobile-Fixed | Any Public Safety Eligible | 4CAL27D | UCALL40 | 90.20(c)(3) [80,83] |
| | SIMPLEX | Base-Fixed-Mobile | | 4CAL27 | UCALL40D | |
| 453.4625 | 458.4625 | Mobile-Fixed | Any Public Safety Eligible | 4TAC28D | UTAC41 | 90.20(c)(3) [80] |
| | SIMPLEX | Base-Fixed-Mobile | | 4TAC28 | UTAC41D | |
| 453.7125 | 458.7125 | Mobile-Fixed | Any Public Safety Eligible | 4TAC29D | UTAC42 | 90.20(c)(3) [80] |
| | SIMPLEX | Base-Fixed-Mobile | | 4TAC29 | UTAC42D | |
| 453.8625 | 458.8625 | Mobile-Fixed | Any Public Safety Eligible | 4TAC30D | UTAC43 | 90.20(c)(3) [80] |
| | SIMPLEX | Base-Fixed-Mobile | | 4TAC30 | UTAC43D | |

Table 2: Sorted by band in Frequency Order

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| FREQUENCY (SUBSCRIBER LOAD) | | BASE, MOBILE, OR FIXED (REPEATER OR CONTROL) | ELIGIBILITY / PRIMARY USE | ORIGINAL NCC NAME | COMMON NAME | LIMITATIONS (47 CFR Part 90) |
|--------------------------------|-----------|--|--|-------------------------|----------------|---------------------------------|
| RECEIVE | TRANSMIT | | | | | |
| MHz | MHz | FCC 700 MHz Public Safety Band (12.5 kHz Channels) | | | | |
| 769.14375 | 799.14375 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7CAL59 | 7TAC51 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC51D | | |
| 769.24375 | 799.24375 | Mobile-Fixed | Calling Channel | 7TAC58 | 7CALL50 | 90.531(a)(1)(ii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7CALL50D | | |
| 769.39375 | 799.39375 | Mobile-Fixed | EMS | 7TAC62 | 7MED65 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7MED65D | | |
| 769.49375 | 799.49375 | Mobile-Fixed | EMS | 7TAC66 | 7MED66 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7MED66D | | |
| 769.64375 | 799.64375 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC70 | 7TAC52 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC52D | | |
| 769.74375 | 799.74375 | Mobile-Fixed | General Public Safety Service | 7TAC63 | 7TAC55 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC55D | | |
| 769.89375 | 799.89375 | Mobile-Fixed | Fire | 7TAC67 | 7FIRE63 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7FIRE63D | | |
| 769.99375 | 799.99375 | Mobile-Fixed | Fire | 7TAC73 | 7FIRE64 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7FIRE64D | | |
| 770.14375 | 800.14375 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7MOB72 | 7TAC53 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC53D | | |
| 770.24375 | 800.24375 | Mobile-Fixed | General Public Safety Service | 7LAW68 | 7TAC56 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC56D | | |
| 770.39375 | 800.39375 | Mobile-Fixed | Law Enforcement | 7LAW69 | 7LAW61 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7LAW61D | | |
| 770.49375 | 800.49375 | Mobile-Fixed | Law Enforcement | 7FIR64 | 7LAW62 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7LAW62D | | |
| 770.64375 | 800.64375 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7FIR65 | 7TAC54 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC54D | | |
| 770.74375 | 800.74375 | Mobile-Fixed | Mobile Data | 7MED60 | 7DATA69 | 90.531(a)(1)(i) |
| | SIMPLEX | Base-Fixed-Mobile | | 7DATA69D | | |
| 770.89375 | 800.89375 | Mobile-Fixed | Mobile Repeater (M03 Use Primary) | 7EMS61 | 7MOB59 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7MOB59D | | |
| 770.99375 | 800.99375 | Mobile-Fixed | Other Public Service | 7DAT71 | 7GTAC57 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7GTAC57D | | |
| 773.00625 | 803.00625 | Mobile-Fixed | EMS | 7CAL75 | 7MED86 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7MED86D | | |
| 773.10625 | 803.10625 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC74 | 7TAC71 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC71D | | |
| 773.25625 | 803.25625 | Mobile-Fixed | Calling Channel | 7TAC78 | 7CALL70 | 90.531(a)(1)(ii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7CALL70D | | |
| 773.35625 | 803.35625 | Mobile-Fixed | EMS | 7TAC82 | 7MED87 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7MED87D | | |
| 773.50625 | 803.50625 | Mobile-Fixed | Fire | 7TAC86 | 7FIRE83 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7FIRE83D | | |
| 773.60625 | 803.60625 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7TAC79 | 7TAC72 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC72D | | |
| 773.75625 | 803.75625 | Mobile-Fixed | General Public Safety Service | 7TAC83 | 7TAC75 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC75D | | |
| 773.85625 | 803.85625 | Mobile-Fixed | Fire | 7TAC89 | 7FIRE84 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7FIRE84D | | |
| 774.00625 | 804.00625 | Mobile-Fixed | Law Enforcement | 7MOB88 | 7LAW81 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7LAW81D | | |
| 774.10625 | 804.10625 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7LAW84 | 7TAC73 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC73D | | |
| 774.25625 | 804.25625 | Mobile-Fixed | General Public Safety Service | 7LAW85 | 7TAC76 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC76D | | |
| 774.35625 | 804.35625 | Mobile-Fixed | Law Enforcement | 7FIR80 | 7LAW82 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7LAW82D | | |
| 774.50625 | 804.50625 | Mobile-Fixed | Mobile Repeater (M03 Use Primary) | 7FIR81 | 7MOB79 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7MOB79D | | |
| 774.60625 | 804.60625 | Mobile-Fixed | General Public Safety Service (secondary trunked) | 7EMS76 | 7TAC74 | 90.531(a)(1)(iii) |
| | SIMPLEX | Base-Fixed-Mobile | | 7TAC74D | | |
| 774.75625 | 804.75625 | Mobile-Fixed | Mobile Data | 7EMS77 | 7DATA89 | 90.531(a)(1)(i) |
| | SIMPLEX | Base-Fixed-Mobile | | 7DATA89D | | |
| 774.85625 | 804.85625 | Mobile-Fixed | Other Public Service | 7DAT87 | 7GTAC77 | |
| | SIMPLEX | Base-Fixed-Mobile | | 7GTAC77D | | |

Table 2: Sorted by band in Frequency Order

(Page 4 of 4)

| FREQUENCY (SUBSCRIBER LOAD) | | BASE, MOBILE, OR FIXED (REPEATER OR CONTROL) | ELIGIBILITY / PRIMARY USE | ORIGINAL NCC NAME | COMMON NAME | LIMITATIONS (47 CFR Part 90) |
|--------------------------------|----------|--|----------------------------|-------------------------|----------------|---------------------------------|
| RECEIVE | TRANSMIT | | | | | |
| MHz | MHz | FCC 800 MHz NPSPAC Band (Post-Rebanding) | | | | |
| 851.0125 | 806.0125 | Mobile-Fixed | Any Public Safety Eligible | 8CAL90 | 8CALL90 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8CAL90D | 8CALL90D | |
| 851.5125 | 806.5125 | Mobile-Fixed | Any Public Safety Eligible | 8TAC91 | 8TAC91 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8TAC91D | 8TAC91D | |
| 852.0125 | 807.0125 | Mobile-Fixed | Any Public Safety Eligible | 8TAC92 | 8TAC92 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8TAC92D | 8TAC92D | |
| 852.5125 | 807.5125 | Mobile-Fixed | Any Public Safety Eligible | 8TAC93 | 8TAC93 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8TAC93D | 8TAC93D | |
| 853.0125 | 808.0125 | Mobile-Fixed | Any Public Safety Eligible | 8TAC94 | 8TAC94 | 90.16 |
| | SIMPLEX | Base-Fixed-Mobile | | 8TAC94D | 8TAC94D | |

Table 2: Sorted by band in Frequency Order

Limitations

Tables 1 and 2 refer to various Limitations. These limitations refer to sections of 47 CFR Part 90, the FCC's Rules and Regulations for Public Safety use of the radio spectrum. These limitations are:

- 90.16** 90.16 Public Safety National Plan.
The Commission has established a National Plan which specifies special policies and procedures governing the Public Safety Pool (formally Public Safety Radio Services and the Special Emergency Radio Service). The National Plan is contained in the Report and Order in General Docket No. 87-112. The principal spectrum resource for the National Plan is the 806-809 MHz and the 851-854 MHz bands at locations farther than 110 km (68.4 miles) from the U.S./Mexico border and 140 km (87 miles) from the U.S./Canadian border ("border regions"). In the border regions, the principal spectrum for the National Plan may be different. The National plan establishes planning regions covering all parts of the United States, Puerto Rico, and the U.S. Virgin Islands. No assignments will be made in the spectrum designated for the National Plan until a regional plan for the area has been accepted by the Commission.
- 90.20(c)(3) [15]** (15) This frequency is reserved for assignment to stations for intersystem operations only: Provided, however, that licensees holding a valid authorization to use this frequency for local base or mobile operations as of June 1, 1956, may continue to be authorized for such use.
- 90.20(c)(3) [16]** (16) This frequency is reserved primarily for assignment to state police licensees. Assignments to other police licensees will be made only where the frequency is required for coordinated operation with the state police system to which the frequency is assigned. Any request for such assignment must be supported by a statement from the state police system concerned indicating that the assignment is necessary for coordination of police activities.
- 90.20(c)(3) [19]** (19) This frequency is reserved for assignment to stations in this service for intersystem operations only and these operations must be primarily base-mobile communications.
- 90.20(c)(3) [40]** (40) This frequency may be designated by common consent as an intersystem mutual assistance frequency under an area-wide medical communications plan.
- 90.20(c)(3) [41]** (41) This frequency is available nationwide for use in police emergency communications networks operated under statewide law enforcement emergency communications plans.
- 90.20(c)(3) [80]** (80) After December 7, 2000 this frequency is available primarily for public safety interoperability only communications. Stations licensed prior to December 7, 2000 may continue to use this frequency on a co-primary basis until January 1, 2005. After January 1, 2005, all operations will be secondary to co-channel interoperability communications.
- 90.20(c)(3) [83]** (83) This interoperability frequency is dedicated for the express purpose of nationwide interoperability calling.
- 90.20(g)** (g) Former public correspondence working channels in the maritime VHF (156–162 MHz) band allocated for public safety use in 33 inland Economic Areas. ... (2) In VHF Public Coast Service Areas (VPCSA) 10–42, the duplex channel pair 157.250 MHz/161.850 MHz (VHF Maritime Channel 25) is allocated for public safety use by

Table 2: Sorted by band in Frequency Order

entities eligible for licensing under paragraph (a) of this section, and is designated primarily for the purpose of interoperability communications. See 47 CFR 80.371(c)(1)(ii) for the definitions of VPCSA's.

- 90.531(a)(1)(i)** (i) *Narrowband data Interoperability channels.* The following channel pairs are reserved nationwide for the express purpose of data transmission only ...
- 90.531(a)(1)(ii)** (ii) *Narrowband calling Interoperability channels.* The following channel pairs are dedicated nationwide for the express purpose of *Interoperability* calling only ... They may not be used primarily for routine, day-to-day communications. Encryption is prohibited on the designated calling channels.
- 90.531(a)(1)(iii)** (iii) *Narrowband trunking Interoperability channels.* The following Interoperability channel pairs may be combined with the appropriate adjacent secondary trunking channel pairs and used in trunked mode on a secondary basis to conventional Interoperability operations:

| Post-Rebanding/Narrowbanding | | | | | |
|------------------------------|------------------------|------------|----------|------------|----------|
| Common Name | Short Name (6 char) | Rx FREQ | Rx CTCSS | Tx FREQ | Tx CTCSS |
| VHF LOW BAND | | | | | |
| LLAW1 | LLAW1 | 39.4600 | 156.7 | 45.8600 | 156.7 |
| LLAW1D | LLAW1D | 39.4600 | 156.7 | Simplex | 156.7 |
| LFIRE2 (proposed) | LFIRE2 | 39.4800 | 156.7 | Simplex | 156.7 |
| LLAW3D | LLAW3D | 45.8600 | 156.7 | Simplex | 156.7 |
| LFIRE4 | LFIRE4 | 45.8800 | 156.7 | Simplex | 156.7 |
| VHF HIGH BAND | | | | | |
| VCALL10 | VCAL10 | 155.7525 | none* | Simplex | 156.7 |
| VTAC11 | VTAC11 | 151.1375 | none* | Simplex | 156.7 |
| VTAC12 | VTAC12 | 154.4525 | none* | Simplex | 156.7 |
| VTAC13 | VTAC13 | 158.7375 | none* | Simplex | 156.7 |
| VTAC14 | VTAC14 | 159.4725 | none* | Simplex | 156.7 |
| VTAC17 | VTAC17 | 161.8500 | 156.7 | 157.2500 | 156.7 |
| VTAC17D | TAC17D | 161.8500 | 156.7 | Simplex | 156.7 |
| VFIRE21 | VFIR21 | 154.2800 | 156.7 | Simplex | 156.7 |
| VFIRE22 | VFIR22 | 154.2650 | 156.7 | Simplex | 156.7 |
| VFIRE23 | VFIR23 | 154.2950 | 156.7 | Simplex | 156.7 |
| VFIRE24 | VFIR24 | 154.2725 | 156.7 | Simplex | 156.7 |
| VFIRE25 | VFIR25 | 154.2875 | 156.7 | Simplex | 156.7 |
| VFIRE26 | VFIR26 | 154.3025 | 156.7 | Simplex | 156.7 |
| VMED28 | VMED28 | 155.3400 | 156.7 | Simplex | 156.7 |
| VMED29 | VMED29 | 155.3475 | 156.7 | Simplex | 156.7 |
| VLAW31 | VLAW31 | 155.4750 | 156.7 | Simplex | 156.7 |
| VLAW32 | VLAW32 | 155.4825 | 156.7 | Simplex | 156.7 |
| UHF | | | | | |
| UCALL40 | UCAL40 | 453.2125 | none* | 458.2125 | 156.7 |
| UCALL40D | CAL40D | 453.2125 | none* | Simplex | 156.7 |
| UTAC41 | UTAC41 | 453.4625 | none* | 458.4625 | 156.7 |
| UTAC41D | TAC41D | 453.4625 | none* | Simplex | 156.7 |
| UTAC42 | UTAC42 | 453.7125 | none* | 458.7125 | 156.7 |
| UTAC42D | TAC42D | 453.7125 | none* | Simplex | 156.7 |

Table 2: Sorted by band in Frequency Order

| Post-Rebanding/Narrowbanding | | | | | |
|------------------------------|------------------------|------------|----------|------------|----------|
| Common Name | Short Name (6 char) | Rx FREQ | Rx CTCSS | Tx FREQ | Tx CTCSS |
| UTAC43 | UTAC43 | 453.8625 | none* | 458.8625 | 156.7 |
| UTAC43D | TAC43D | 453.8625 | none* | Simplex | 156.7 |
| 800 MHz | | | | | |
| 8CALL90 | CAL90 | 851.0125 | 156.7 | 806.0125 | 156.7 |
| 8CALL90D | CAL90D | 851.0125 | 156.7 | Simplex | 156.7 |
| 8TAC91 | TAC91 | 851.5125 | 156.7 | 806.5125 | 156.7 |
| 8TAC91D | TAC91D | 851.5125 | 156.7 | Simplex | 156.7 |
| 8TAC92 | TAC92 | 852.0125 | 156.7 | 807.0125 | 156.7 |
| 8TAC92D | TAC92D | 852.0125 | 156.7 | Simplex | 156.7 |
| 8TAC93 | TAC93 | 852.5125 | 156.7 | 807.5125 | 156.7 |
| 8TAC93D | TAC93D | 852.5125 | 156.7 | Simplex | 156.7 |
| 8TAC94 | TAC94 | 853.0125 | 156.7 | 808.0125 | 156.7 |
| 8TAC94D | TAC94D | 853.0125 | 156.7 | Simplex | 156.7 |

VTAC17 and VTAC17D are limited to use in 33 VCPSAs/EAs. See FCC Rules & Regulations 90.20(g)