
Technical Note

How to Obtain a 4.9 GHz License Online

Applicable Products: EX-4.9i, EX-4.9r, EX-4.9r-c

Introduction

The 4.940-4.990 GHz frequency band has been assigned for Public Safety use in the United States by the Federal Communications Commission (FCC). The following is a simple step-by-step process for obtaining a 4.9 GHz FCC license.

Qualified Licensees and Users

Licensees must meet all of the following criteria to qualify for use of this band:

- Be a state or local government entity, or a non-government entity authorized by a local or state public safety entity
- Have as their sole purpose the protection of life, health, or property
- Provide services that are not commercially available to the public

Licenses are available to cities, towns, counties, states and municipal utilities; and are limited to the jurisdiction of the entity, such as city, county, or state.

Any non-government organization seeking a license must first obtain written approval from a sponsoring public safety entity.

Registering with the FCC's Universal Licensing System

You must register with the FCC's Universal Licensing System (ULS) and receive an FCC Registration Number (FRN) before applying for the actual license. To do this:

Go to <http://wireless.fcc.gov/uls>

Click on **Register**

Follow the instructions to obtain your 10-digit FRN

FCC 4.9 GHz License Application Process

To apply for a 4.9 GHz license:

Return to the ULS homepage at <http://wireless.fcc.gov/uls>

Click on **Log In**, use your newly assigned FRN and password

Select Apply for a New License

Scroll down to PA – Public Safety 4940-4990 MHz Band in the Select Service pull-down list, then click on **Continue**

A pop-up window will appear about a Java applet. Click **Run** when asked to verify the digital signature.

Note: The remainder of the application will be completed from within this Java applet. It is recommended that you enter all data in the order presented by the applet.

Application Information Page

Type of License: Select **N** from the pull-down list for “not applicable”

Optional: Enter a license expiration date (maximum is ten years)

Waiver of Commissioner's Rules: **No**

Attachments filed: **No**

Type of Radio Service: **Fixed** (for Exalt or other non-mobile radios)

Interconnected Services: **No**

Regulatory Fee Exemption: **Yes**

Applicant Page

Legal Entity Type: Select **G - Governmental Entity**

Fill in the remainder of the page with appropriate contact information

Ownership Questions/Qualification Questions Page

Questions are self-explanatory

General Certification Statements Page

Read and sign

Control Point Page

Click on **Add**. Provide the address of the location from which the radio(s) will be administered.

Administrative Page

Rule Section: **90**

Describe Activity: Fill in with **Governmental Entity**

Location Page

Click on **Add** in upper right

Location Description: Select **T Temporary Fixed**

Area of Operation Code: Select one entry from the pull-down list and fill in fields that are subsequently enabled. Use **O Other – Narrative** for a citywide deployment

Significant environmental impact pull-down: select **Yes** or **No**

Quiet Zone notification: fill in as appropriate

Antenna Page

No data entry required

Frequency Page

No data entry required

The Final Step

Click on **Submit** in the lower right corner of the screen to complete your application and receive an application tracking number. You can also save the application and return to complete or submit it later. The FCC will save unsubmitted applications for 30 days.

Receiving and Using the License

Licenses are usually granted within 24 hours.

Each license is granted for use of the entire 50 MHz of spectrum and users share the band equally. Frequency coordination may be necessary in Quiet Zones or Environmentally Protected Areas. International coordination may be necessary in some locales.

About Exalt Carrier-class 4.9 GHz TDD Radio Systems

Exalt 4.9 GHz microwave radio systems are designed for the robust, mission-critical communication requirements of public safety organizations. The Exalt 4.9 GHz EX-i and EX-r Series radios are software configurable and boast the highest capacity in the industry with up to 55 Mbps aggregate throughput. Exalt radios are also the only 4.9 GHz radio systems to support both native TDM and native Ethernet traffic. With optional 128- or 256-bit AES encryption and SNMPv3 management, they also offer the highest level of security available today.

For more information on these unique radios visit Exalt web site at www.exaltcom.com.