

70-90 GHz Link Registration Guide

The registration process is conducted through Comsearch's online registration system. This step-by-step guide directs you through the registration process.

Step 1: Obtain a Nationwide License

A nationwide license must be granted by the FCC in order to register links with a Database Manager. To obtain a nationwide license for the 70-90 GHz bands, an applicant files FCC Form 601 Main Form and Schedule B. The application should specify the MM - Millimeter Wave 70/80/90 Radio Service and the purpose of the application as New (NE).

Because the non-exclusive nationwide license serves as a prerequisite for registering links, you will initially receive a single license for all frequency bands (71-76, 81-86, 92-94, 94.1-95 GHz). Applications to provide non-common carrier service or to provide private, internal communications may be granted anytime after they are accepted for filing, typically the next business day. Applications that request a common carrier regulatory status will not be granted prior to the 31st day following the issuance of a Public Notice of the acceptance of filing, typically 8 to 9 weeks. When granted, the FCC will issue a nationwide call sign.

Upon request, Comsearch can file the nationwide license on your behalf.

[comsearch.com](https://www.comsearch.com)

7 EASY STEPS | REGISTER YOUR LINKS

1. Obtain a Nationwide License
2. Access the Database
3. Create or Upload Links
4. Run an Interference Analysis
5. Submit for Registration
6. Download the Registration Certificate
7. Construct the Links

Step 2: Access the Database

Comsearch provides access to our online link registration database through www.comsearch.com. Click on the Member Login link on the top right of the screen. Enter your login and password. If you don't yet have an account, click on the Create Account link at the bottom of the screen and enter your contact information and 70–90 GHz call sign. A Comsearch representative will contact you as soon as your account is set up to register new links.

Step 3: Create Links

Option 1: Create Link Manually. Click on the 70–90 GHz Link Registration link under the Engineering Applications section. Under Register New Links, click on the Create button and enter the technical parameters of your link. Once all required information is entered, click the Save button. Click on the Unregistered Links button and skip to step 4 to run the analysis.

Option 2: Upload Links. Click on the 70–90 GHz Link Registration link under the Engineering Applications section. Under Register New Links, click on the Upload button to select and upload a CSV formatted file containing the link data. Click Unregistered Links to view the uploaded links.

Step 4: Run an Interference Analysis

On the Unregistered Links page, a dashboard will show all of your unregistered links and their status. Select the desired links and then click the Run Analysis button located at the bottom of the page. The database will conduct an interference analysis and identify potential interference conflicts. You can make changes to your system as necessary to mitigate the interference. You can come back to the Unregistered Links page to view the analysis results or rerun the analysis at any time.

Step 5: Submit for Registration

Select the desired links and click the Submit for Registration button. The system will assign a date/time stamp and registration number for each link that will be used to ensure interference protection from later entrants. The system will then perform three checks required by FCC Rule 101.1523(c):

1. Environmental Assessment: Licensees will need to indicate whether an environmental assessment per FCC Rule 1.1307 is necessary.
2. International Coordination: The registration system will identify any sites requiring international coordination using FCC Rule 1.928(f) requirements for distance from the border based on antenna pointing azimuth.

3. Radio Astronomy Sites: The registration system will identify sites located within any of the radio astronomy protected areas listed in FCC Rule 1.924.

If these checks require further analysis, you will need to file FCC Form 601, Schedule M in order to complete registration.

The registration system will also determine if an FAA Antenna Structure Registration (ASR) is required for any site. This determination is based on the antenna height above ground level (or above the roof of the building) in proximity to airport runways.

Finally, the system will automatically submit the link parameters to the NTIA to analyze against existing Federal Government links in the area. The results of the NTIA assessment will be returned immediately. It will return either a green light or a yellow light indicating whether the proposed link poses any potential for harmful interference to Federal Government users. Upon receipt of a green light, the link will be deemed to have been coordinated with the Federal Government. If a yellow light is returned, an FCC Form 601 may be filed for a more detailed determination on whether a conflict exists with Federal Government systems.

A small fee for self registering each link in our database is charged once the registration is submitted to the database.

Step 6: Download the Registration Certification

Once all approvals have been provided, the registration will be complete and you can begin operation immediately. To download the registration certificate, select the 70–90 GHz Link Registration link at the top of each page. Select the Search button and search for your link by registration number, licensee, etc. Select the check box next to the desired links, click on the Generate Report button, and follow the instructions to download the certificates.

Step 7: Construct the Links

As required by FCC Rule 101.63(b), you have 12 months from the registration date to construct the link and begin operation. To complete the construction requirement, add the construction date to your registration in the database. Select the 70–90 GHz Link Registration link at the top of each page. Select the Search button and search for your link by registration number, licensee, etc. Click on the site name to view the details of the link. Enter the construction date and click Save Registration.



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Visit our website or contact your local Comsearch representative for more information.

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