

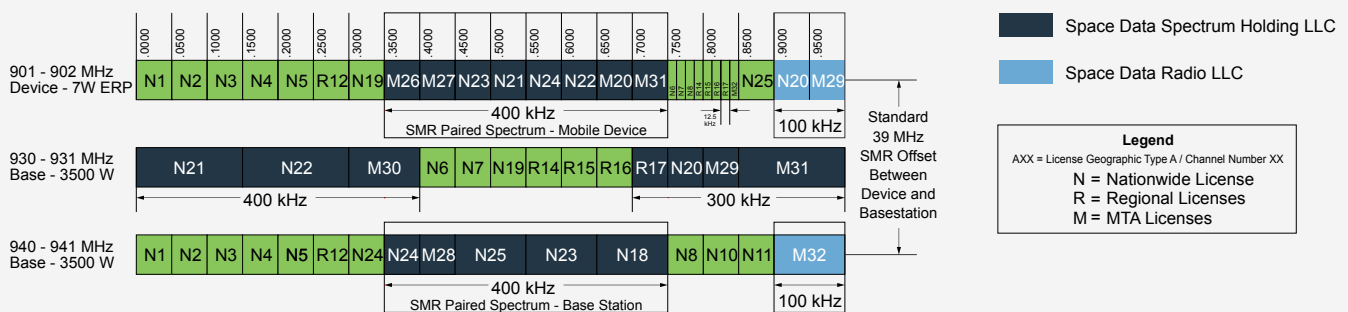
SPECTRUM

Flexible, Nationwide, Licensed We Have You Covered!

Space Data leases and sells licensed Narrowband Personal Communications Service (NPCS) 900 MHz spectrum for critical applications

For reliable communications 24x7, 365 days per year, electric utilities need real-time two-way communications with substations and reclosers, or to monitor and mitigate alarms, therefore interference is critical and potentially life-threatening. Space Data's critical infrastructure stretches all across the U.S., delivering life-sustaining energy and water services to each and every home and business. Space Data's combined licensed spectrum holdings provide secure, flexible-use, scalable and exclusive-use spectrum nationwide to fit your needs.

You can acquire the amount of spectrum that you need for your communications applications – from 200 kHz to 1.3 MHz of our 1.8 MHz of Narrowband Personal Communications Service (NPCS) licenses. Below are the bands licensed to Space Data.



Space Data's 900 MHz NPCS, Private, Licensed Spectrum Provides Guaranteed Scalable, Interference-Free, Flexible-Use, Secure Communications



SPECTRUM

Space Data Spectrum Solutions Feature:

- ✓ Standards: Narrowband Personal Communications Service (NPCS) is Part 24 governed and has total flexible use
- ✓ Security: Our private networks are protected against potential cyberattack by complying with, and often exceeding, federal security requirements
- ✓ Resiliency: Network resiliency is not only critical when it comes to cybersecurity and storm response and restoration, but also for daily reliability as well
- ✓ Scalability: Our clients can partition their service area by county and/or coordinates, so you acquire just the spectrum you need, exactly where you operate

NPCS licenses are fully built-out and continually operate nationwide:

- ✓ 930 and 940 MHz licenses allow high power as they can be operated up to 3500 W ERP
- ✓ 901 MHz licenses are device band and have a 7W ERP limit based on 12.5 kHz spacing
- ✓ You own call signs when licenses are transferred, and the asset can go into your rate base

Space Data's NPCS 900 MHz spectrum can be deployed to support local, county, state or even nationwide networks. Contiguous license blocks from 100 kHz to 400 kHz support numerous applications, such as:

- ✓ Field Area Networks (FANs) for grid modernization and teleprotection
- ✓ Backhaul and Distribution Automation with Point-to-Multipoint radios at 50 to 100 kHz bandwidth
- ✓ TDD and FDD radios from 4RF, GE, MiMoMax, and Ondas
 - Additional radios can be trialed for up to 3 months on Space Data licenses
- ✓ Sensus radios for Automatic Meter Reading (AMR) solutions
- ✓ DMR and SCADA at 12.5 to 25 kHz
- ✓ Commercial and industrial NB-IoT solutions
 - Introduce 2 to 5 NB-IoT channels on your towers
 - Partner with Space Data on 2 SkySite® high altitude NB-IoT channels
- ✓ Land Mobile Radio (LMR) networks
- ✓ FCC 900 MHz rebanding initiatives
- ✓ Unmanned Aerial Vehicles (UAV), drones and terrestrial robots

The Space Data NPCS frequency bands are 901, 930 and 940 MHz and, per FCC Part 24, are deemed 'flexible-use' allowing for data, video, or voice transmission. Space Data has continuously held NPCS licenses and utilized spectrum for more than two decades.

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