



FCC Panel 4.9 GHz

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Pinellas County 4.9 GHz Experiences

- **Pinellas County was an early supporter of the 4.9 GHz Spectrum**
- **One of the 1st agencies to test and use 4.9 GHz through a Collaboration with U.S. Army Armament Research Development Engineering Center**
 - **Interoperable test bed**
 - **Technology Integration using both fixed and adhoc equipment to connect with existing systems**
 - **Proof of concept connecting local, state, and federal agencies**

Changing 4.9 GHz

- **As public safety transitions to new technology requiring broadband and backhaul for their system deployments, 4.9 GHz could be an essential element in system implementation.**
- **Recommended changes**
 - **there should be changes in the coordination and licensing that will prohibit interference from other 4.9 GHz deployments in a specified area**
 - **Establish Formal Regional Coordination similar to that in other frequency bands**
 - **Provide bandwidth flexibility in licensing to accommodate new technology**

Deployment Costs

- **When deploying a 4.9 GHz system the cost is directly related to the type of system deployed and ensuring that the system is designed for public safety reliability and redundancy.**
- **Lowering the Costs**
 - **Develop product standards that are similar to those of other microwave spectrum deployment**
 - **Use 4.9 GHz in conjunction with other technologies to expand the capability**
 - **Collaboration between agencies**

4.9 GHz and 700 MHz

- **700 MHz broadband is one of the newest technologies being developed and deployed and will require significant bandwidth to maintain backhaul throughput and most systems have not been designed to accommodate these requirements.**
- **Changing the rules to allow channel aggregation could expand the use of 4.9 GHz for broadband deployment.**

4.9 GHz and Interoperability

- **Since public safety was allocated the 4.9 GHz spectrum, there has been limited if any local/regional coordination of system or network deployments.**
- **Changing the licensing requirements and issuing a license for each type of deployment will provide a history of deployment.**
- **Developing open standards for equipment and infrastructure will allow interoperability and prohibit proprietary system deployments.**

Licensing Changes

- **Providing the ability to license fixed links in a primary status has enabled more permanent deployments and expanded the use for public safety.**
- **Continuing to modify the rules for licensing and increasing spectrum coordination will support future technology designs and provide flexibility for use.**