



**Wyoming Public Safety
Communication
System**

**Joint Transportation, Highways
and Military Affairs Committee**




**Casper, WY
October 11, 2019**

Wyo Public Safety Communication Syst. 

WyoLink Re-Cap

- o Awarded in 2005 to vendor after competitive bid process
- o System (core and towers) is proprietary technology but has been designed to, and allows for, multiple radio vendors to operate on the system
- o Currently 77 towers statewide
- o Additional 16 towers under contract–construction
- o 500 or more users on the system daily
- o 98% statewide coverage
- o \$120 million invested into the system
- o Designed to allow local agencies to migrate onto the system as their funding allows

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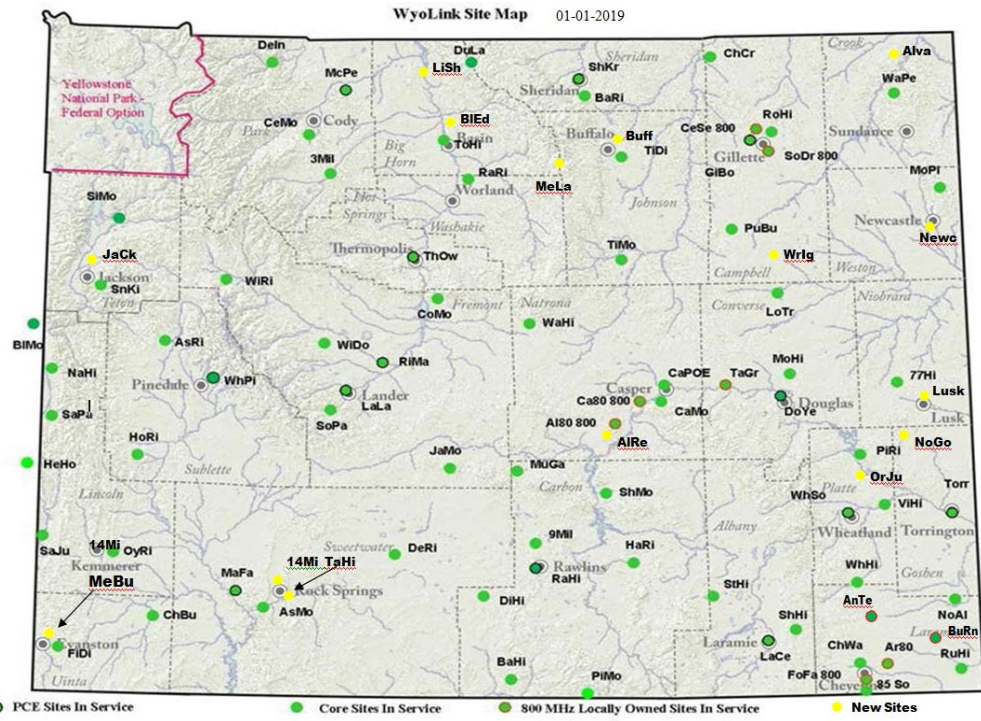
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WyoLink Re-Cap

- o **11,775,192 calls delivered in 2018**
- o Top 10 users:
 1. Wyoming Highway Patrol (WHP)
 2. WYDOT
 3. Casper PD/Dispatch
 4. Fremont County Sheriff's Office/Dispatch
 5. Laramie County Combined Communications Center/Dispatch
 6. Campbell County Sheriff's Office/Dispatch
 7. Gillette PD/Dispatch
 8. Sweetwater County Combined Communications Center/Dispatch
 9. Platte County Sheriff's Office/Dispatch
 10. Cheyenne PD
- o **The system is monitored to achieve an uptime of 99.999%**

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WyoLink New Site in Buffalo–Johnson County



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WyoLink New Site in Buffalo – Johnson County



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Quantar – GTR




Quantar Radio: A Motorola radio intended for use as a base station, either as a radio or as a repeater. It is capable of conventional analog as well as transmission and reception. Its output power is 125 watts.



GTR Radio: A Motorola radio intended for use as a base station, either as a radio or as a repeater. It is capable of conventional analog as well as transmission and reception. Its output power is 125 watts. It is an updated version of the Quantar radio.*


*Vendor support for the Quantar expires 12/31/2020; 346 units to be replaced at 70 sites (~ \$12.18 Million)

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Cost: Over 6-Year Average

- o Estimated \$5.5 million per year (6 years)
- o Quantar replacement/GTR upgrade ~\$2.03 million per year
- o System Maintenance Agreement to include:
 - Services
 - Maintenance
 - Software support and upgrades
 - ~\$3.35 million per year (estimated with additional 2.25%)

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System Maintenance Agreement (SMA)

SMA provides the following services – **24/7/365**

- o **Remote System Monitoring:** notification and dispatch services provided by the vendor's Network Operations Center
- o **Remote System Performance Management:** allowing remote network technicians to diagnose and repair issues as they arise
- o **Technical Assistance:** provided to all WyoLink technicians
- o **On-Site Technician Services:** for 2 WyoLink Master Sites (Cheyenne and Casper) as well WHP and TMC Dispatch Centers (Mission Critical locations)
- o **On-Site Technician Services:** for 3 back-up, non-Mission Critical Dispatch Centers (WOHS, Laramie TMC, WyoLink Operations Center)
- o **Hardware Repairs** with "Advance Replacement" for all WyoLink equipment and components
- o **System Security Updates:** providing up-to-date Cyber Security and testing for the entire system, including local Dispatch Centers (Windows Based Platforms require security patches, allowing WyoLink to administer to local Dispatch Centers)
- o **System/Software Upgrade Agreement:** is an annual system upgrade that is designed to maintain WyoLink at an "up-to-date" status. This includes software (i.e. moving to Windows 10 prior to the January 2020 expiration) as well upgrading hardware and components no longer capable of supporting an "up-to-date" status. The agreement covers, to an extent, upgrading local Dispatch Centers equipment that would be incapable of supporting an "up-to-date" status.

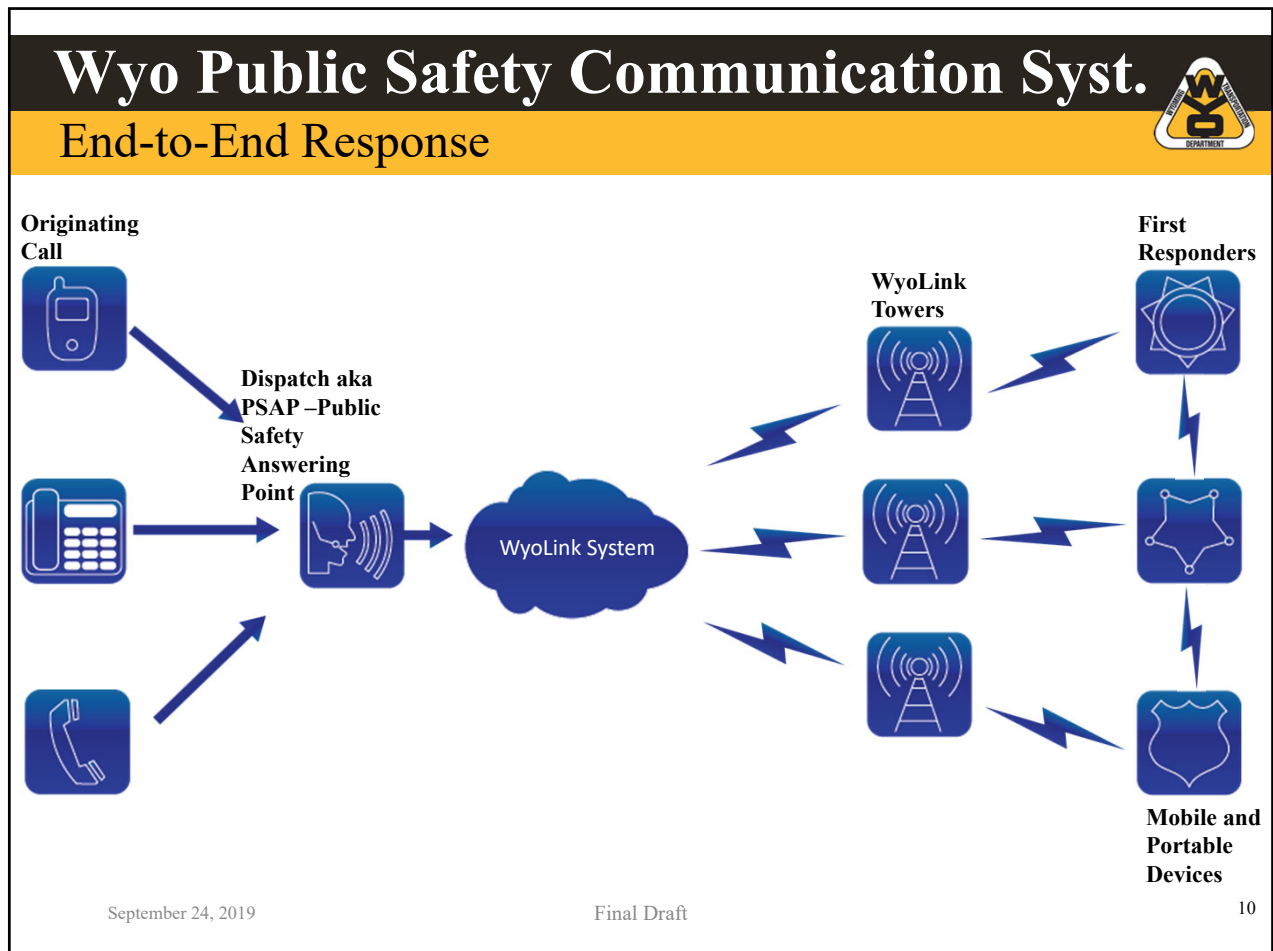
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Potential Funding Options Discussed

- o **There is no long-term, sustainable funding source**
- o Funding Option Include:
 1. Participating agency billing
 2. Transportation funds
 3. General funds or other legislative appropriated funds
 4. Wyoming Public Safety Communications Fee (not related to 911)
 5. Lease space (if available) on existing towers (very minor income possibilities)
 6. Hybrid of Above

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FAQ

- **What does WyoLink accomplish?**
Essential-Statewide, Public Safety Interoperable Radio Communications System
- **Can other Radios operate with the Proprietary Vendor?**
The System (core and towers) is proprietary technology, but has been designed to and allows for multiple radio vendors to operate on the system
- **Can we go back to Old Conventional?**
NO, interoperable communications would be severely jeopardized, setting Wyoming's mission critical communications back 13 years
- **What does FirstNet by AT&T offer?**
Data only network – Priority and preemption
- **What does Verizon offer?**
Network gives First Responders (TSP) Telecommunications Service Priority and preemption


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FAQ

- **Do Locals have “Skin in the Game?”**
WyoLink was developed with the intent to allow local agencies to migrate onto the system as their funding allowed to do so. Local agencies have made contributions by:
 - Adding Infrastructure: Constructing and maintaining towers to improve coverage
 - Upgrading radios to be WyoLink capable for interoperability; to the benefit of public safety (estimated ~\$50 Million over 13 years)
- **How can we Reduce Cost?**
 - Continue to seek and display efficiencies: 2016 saved \$436,000 in contract renegotiation
 - WyoLink Radio Users Group: combines purchasing power for all WyoLink users and leverages “economies to scale”

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Questions ?

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