

USE CASE

Replacing Legacy Copper Lines with POTS in a Box for the Transportation Industry

Background

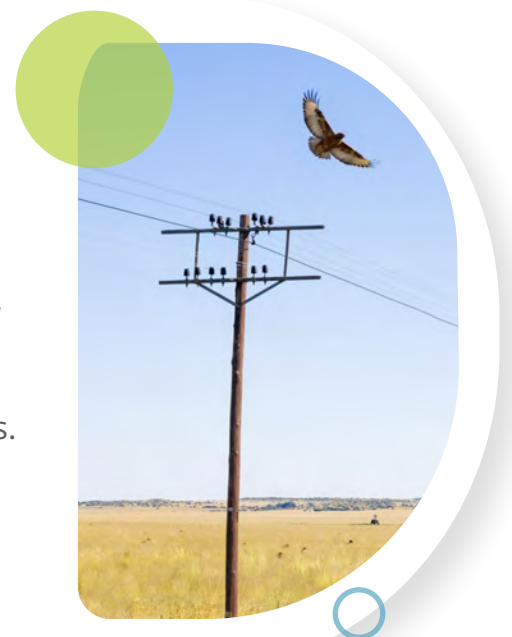
Transportation organizations face critical infrastructure challenges as legacy copper POTS lines become unreliable and costly. MIX Networks® POTS Replacement solutions (90X1 & 90X2) provide cellular-based analog dial tone, delivering 60-80% cost savings while improving reliability and regulatory compliance.

Examples of where there is a need would be:

- Roadside/Emergency Call Boxes
- Certain railway signaling and control systems
- Intercoms and building entry systems
- Fire alarm systems
- Security/Burglar alarm systems

Legacy Copper Line Challenges

Legacy copper infrastructure creates multiple operational and financial challenges for transportation systems. These systems experience more service interruptions than cellular alternatives, with monthly costs ranging from \$50-\$100 per line plus maintenance calls. Physical vulnerability to weather damage, vandalism, and aging infrastructure compounds reliability issues. Additionally, older copper systems struggle to meet evolving DOT, FRA, and ADA compliance requirements while lacking the functionality to support modern communication technologies.



Solution:

Implementing MIX Networks®

POTS Replacement 90X1 & 90X2 – POTS IN A BOX®



The 90X1 provides single-line cellular or IP analog replacement, while the 90X2 offers dual-line capability with enhanced monitoring and redundancy features. Both solutions are UL 864 certified for fire alarm systems and include built-in battery backup ranging from 8-120 hours depending on the model. Remote monitoring and diagnostic capabilities enable proactive maintenance, while automatic SIM failover ensures continuous connectivity even during carrier outages.

The 90X1 and 90X2 provide cellular or IP-based analog dial tone, seamlessly replacing copper lines without changing legacy equipment.

UL 864 certified for fire alarm systems

Built-in battery backup for power outages

SIM failover for 24/7 connectivity

Cost-effective vs. legacy landlines (save \$50-\$100+ per line/month)

Remote management & monitoring

Impact

Transitioning to POTS IN A BOX 90x1 or 90x2 solutions enhances operational reliability, significantly reduces maintenance costs, and allows for future-proofing of communication systems. This modernization improves efficiency and compliance with regulatory demands, ensuring transportation companies are equipped to meet current and future challenges.



Conclusion

By replacing legacy copper lines with POTS IN A BOX devices, the transportation industry can modernize communication infrastructure, improve operational effectiveness, and align with technological advancements. This strategic shift is essential for maintaining safety and efficiency in a rapidly evolving landscape.

