

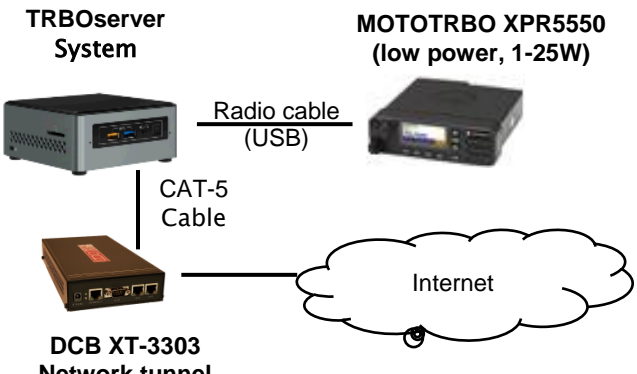
APPLICATION NOTE: multi-site PTT calling (RoIP)

(07/21)

It is often necessary to link sites without a repeater (simplex operation) to allow, for instance, security to immediately communicate in case of an emergency.

One solution is to use MOTOTRBO repeaters setup as IP Site Connect, which however requires an FCC license for the frequency pair on top of the additional hardware as well as labor for their installation and to reprogram all the digital radios.

Alternatively, it is possible to install at each site a TRBOserver system connected to a MOTOTRBO control station operating in either DMR digital or analog mode.

<p>Each site has a simple configuration:</p>  <p>Note: using the DCB tunnel is optional. It simplifies network configuration as it connects directly to an Internet modem.</p>	<p>Target markets:</p> <ul style="list-style-type: none"> • Education • Manufacturing • Construction • Public utilities • Rural communities <p>Benefits:</p> <ul style="list-style-type: none"> • Team communications • Simple to deploy and cost effective • Call recording • Optional: multi-site mass notifications, local alarms and telephone interconnect
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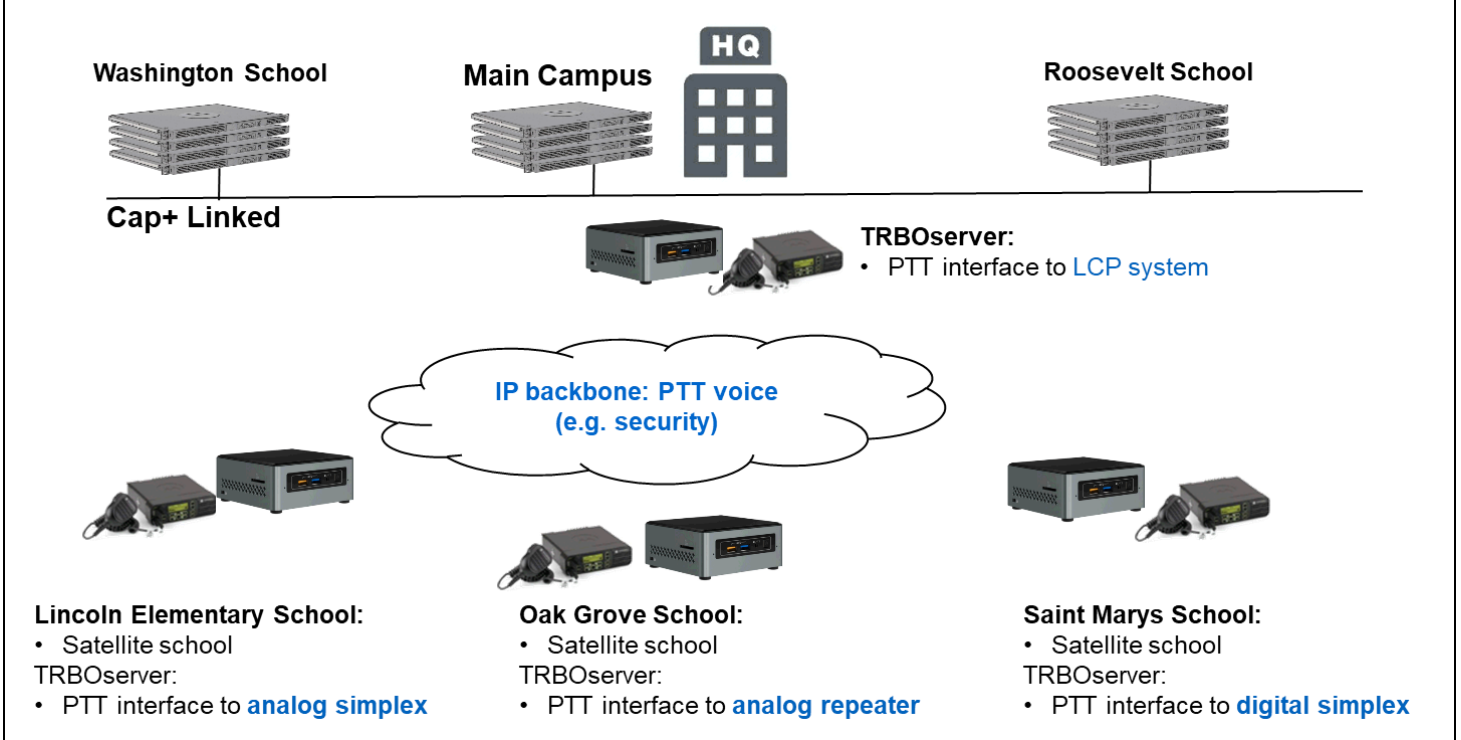
Using TRBOserver offers several unique advantages:

- **Drop-in multisite connectivity without modifying the system and reprogramming subscribers:** because no repeaters are involved, it uses the existing FCC license with both analog and digital radios, saving time and money.
- In DMR digital mode, **PTT calls** can be made to **all sites, by zone** and to **individual sites**. In certain situations it is not always required or convenient to communicate to all sites, so traffic can be restricted.
- All received and transmitted **calls are recorded** locally and can be moved to a central storage device.

Optionally, it also supports these capabilities:

- Radio can be interfaced to a PBX to **make and receive telephone calls** locally. For instance on an emergency it is possible to call 911 simply by pressing the orange button on the radio. Similarly, a supervisor can reach radios from his smartphone.
- Each system can **receive alarms** and **send notifications locally and to other sites**. Notifications are defined by site and can be voice and PA announcements, text messages, telephone calls and contact closure. They can be triggered manually (e.g. radios, panic buttons or dial-in) or automated (fire alarms, weather, etc.).

MULTI-SITE PTT LINK



MULTI-SITE PTT LINK PLUS MASS NOTIFICATIONS

