



Dependable IP replacement for Radio Tie-lines (RTNA)

Description

Radio tie-lines (RTNA) are used extensively in public safety systems to manage the operation of essential radio communications for emergency services. The dependence on leased lines or other switched data services from public telephone companies for this purpose has become an outdated and expensive option. The reliability of local loop lines is a major concern with extended outages becoming more frequent. A proven, reliable alternative that uses more dependable, widely deployed IP services is now available from NSGDatacom.

NSGDatacom's **Nx2200** series platforms use proprietary techniques to replace troublesome analog tie-lines with IP connections. Broadband internet connections have become far more stable and reliable than analog telephone lines which are subject to noise, often fail during emergency situations and may take days to be re-established. By using an existing IP service recurring PSTN line charges are eliminated, accruing cost savings to recoup the investment in IP equipment.

In operation, NSGDatacom's **Nx2205A** units connect directly to the existing radio system audio lines used at each antenna site and at the comparator with no changes necessary to the radio equipment or control systems. Existing RTNA dependent equipment operates seamlessly through the **Nx2205A's** over the IP network. The RTNA connections between **Nx2205A's** can operate over a private IP network or utilize a standard IP broadband connection available from established fiber or cable service providers.

NSGDatacom's **Nx2205A** units have been successfully deployed in the US to replace RTNA tie-lines in Police 911 operations now for over 5 years. Units have been operating continuously during that time and have proven to offer a highly reliable and cost effective alternative to conventional PSTN leased lines. References are available upon request.

Available as a 2, 4 or 8 port unit in rack mount or desktop configurations, NSGDatacom's **Nx2205A Network Exchange** provides transparent RTNA capability for up to 8 lines. For higher capacity applications NSGDatacom's **Nx2222** central office unit is also available.

The **Nx2205A** and **Nx2222** are core products in the **Nx2200** family of IP Networking platforms that use sophisticated proprietary techniques originally designed for Military communications. The **Nx2200** family of products have been successfully installed world-wide providing dependable, high quality services to government and US military personnel over land-line, wireless and satellite networks between both Naval and land-based communications centers for well over a decade.

An example deployment of a customer currently using NSGDatacom's **Nx2205A** units to support Police 911 emergency services is shown in the following diagrams.

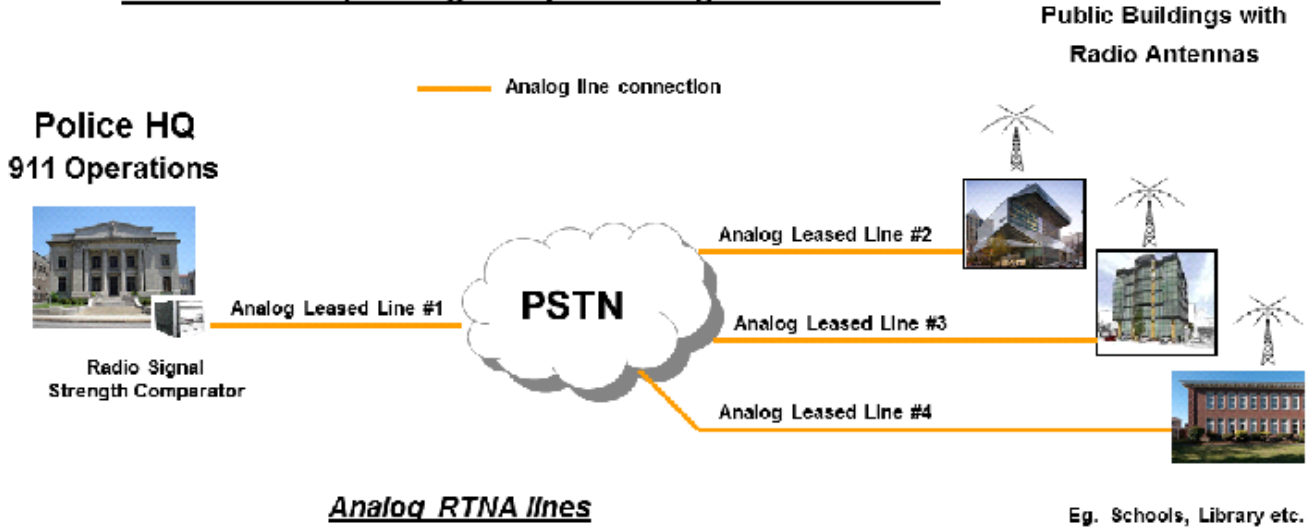


Communication solutions from

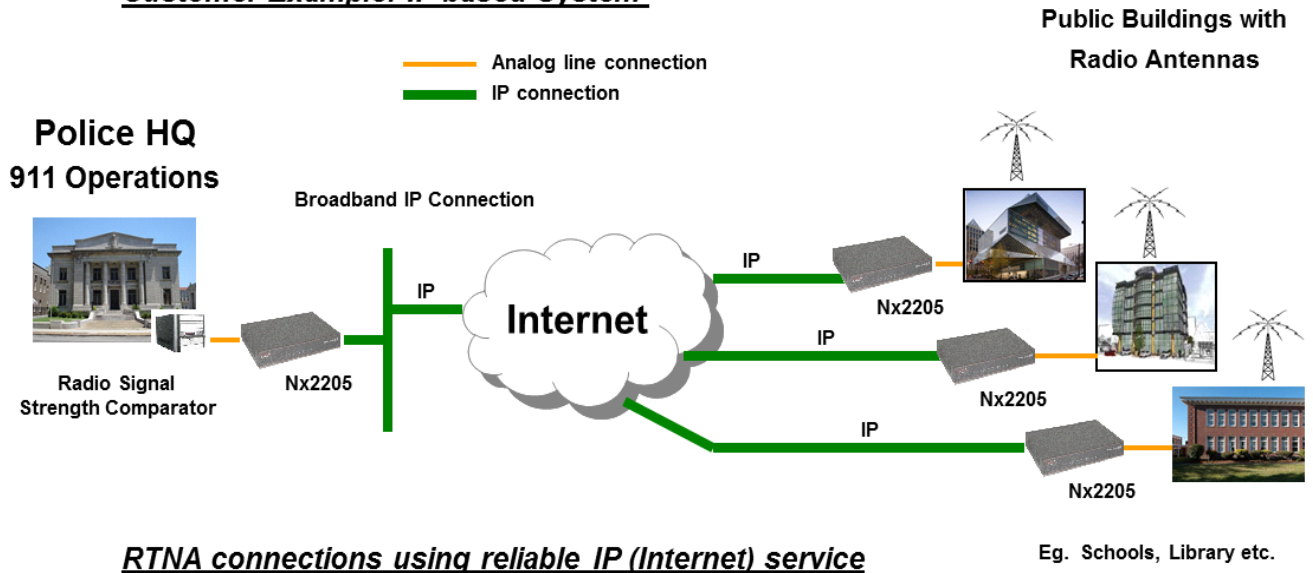
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Customer Example: Original system using PSTN Tie-lines



Customer Example: IP based System



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