



Seamless Integration to Unlock the Potential of Private 5G Networks

HARNESS THE POWER OF STANDALONE NON-PUBLIC NETWORKS (SNPN) FOR SEAMLESS LIVE BROADCASTS THROUGH THE RESILIENT AND FLEXIBLE ZIXI SOFTWARE-DEFINED VIDEO PLATFORM (SDVP®).

HIGHLIGHTS

NEUTRAL WIRELESS' LOMOND NIB (NETWORK-IN-A-BOX) PLATFORM SUPPORTS ZIXI

KEY FEATURES:

- **Global Deployment:** The 5G private network is truly portable and has been deployed in multiple countries, including the UK, Ireland, Kenya, New Zealand, Denmark, USA, Netherlands and France.
- **Deployment Options:** Users can choose between an integrated single-box solution or opt for custom disaggregated deployment, providing flexibility based on specific needs.
- **Customizable Radio Hardware:** The network offers radio hardware that can be tailored to suit the local spectrum availability, ensuring adaptability to diverse environments.
- **Software-Defined Control:** The use of flexible software-defined radio allows for comprehensive control and configuration of the entire network infrastructure

REVOLUTIONIZE LIVE CONTENT CAPTURE WITH PRIVATE 5G CONNECTIVITY

In the dynamic world of broadcasting and production, the demand for seamless wireless camera and media contribution connectivity is paramount. Traditional technologies like COFDM offer single-camera, one-way connectivity. However, Neutral Wireless' Private 5G solution transforms the game, providing a native bi-directional IP network. This empowers broadcasters and production companies to capture live content with multiple cameras and seamlessly integrate various media and communication devices, whether in events, performances or studios. Lomond NIB stands as a self-contained, portable 5G Standalone Non-Public Network (SNPN), enabling swift deployment for the establishment of a private 5G network. This solution is specifically designed for quick setup, making it ideal for wireless media contribution and acquisition in pop-up scenarios. Experience the next level of connectivity with this cutting-edge Private 5G solution.

LOMOND NIB POWERED BY ZIXI: EMPOWERING RAPID PRIVATE 5G NETWORK DEPLOYMENT

The Lomond NIB offers customers the ability to quickly deploy their private 5G (P5G) network. As a native bi-directional IP network, P5G facilitates wireless connectivity between video encoding sources, local decoders, or cloud instances. It supports comprehensive functionalities including full camera control, return video, tally, and comms. Private 5G is versatile for numerous wireless production workflows, adapting to available distribution link capacity. The flexible software-defined radio network allows rapid reconfiguration for specific use case requirements, such as uplink capacity biasing or low latency. The network can be scaled with the addition of extra cells or connecting NIBs for larger multi-cell network deployments.

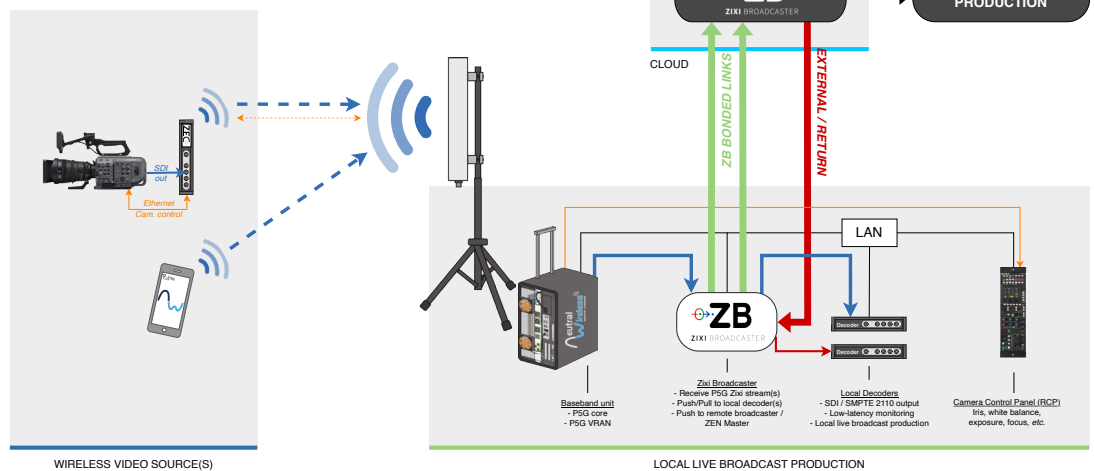
The native integration of Zixi into Lomond NIB enables the receipt and transmission of streams to the SDVP without the need for external conversion units. This integration not only streamlines processes but also reduces costs and complexity while leveraging the Zixi Protocol, renowned for unique features like ultra-low latency and bonding, makes it an ideal companion for 5G broadcast scenarios. Leverage Zixi with Neutral Wireless to seamlessly bond multiple connections across private or public mobile networks, including the ability to bond backhaul links, enhancing both resiliency and capacity.

USE CASES:

- Wireless Video Connectivity for Live Event Broadcasting**
 Utilize NW network for connecting wireless video sources to the production gallery, ensuring dedicated and uncontested spectrum usage. This supports various content styles, including contribution- or newsgathering-type content and low-latency wireless-operated acquisition.
- Low-Latency Production Monitoring on Wireless/Mobile Devices**
 Access low-latency monitor feeds on wireless and mobile devices for effective production monitoring.
- Multi-Camera Production without Cables**
 Enable cableless production in locations with stringent cable management policies, allowing for multi-camera setups without the constraints of cables.
- Unrestricted Creative Freedom in Camera Placement**
 Enjoy creative freedom by placing cameras where you want them, not limited by cabling constraints.
- Crowdsourced Content Generation from Audience Devices**
 Crowdsource content by allowing selected audience members to contribute from their devices, enhancing engagement and diversity in content creation.
- Flexible and Scalable**
 From single cells on the plains of Africa to the world's largest pop-up 5G standalone network deployed to support international broadcasters for the Coronation of King Charles III.

Neutral Wireless's integration of Zixi into the platform allows content creators and distributors to leverage Zixi's industry leading video over IP technology proven with over 15+ years of experience and trusted by over 1000+ media customers in 100+ countries to deliver and contribute video to and from global markets via the cloud, and take advantage of unique features such as:

- Bonded Delivery**
 Combines disparate topologies including 5G, LTE, Leased Lines and Unmanaged Internet, dynamically adjusting for fluctuating bandwidth, network congestion, packet loss and latency differences
- Sequenced Hitless Failover**
 An improvement on SMPTE 2022-7, applies Zixi optimized alignment algorithms to re-create a single coherent uninterrupted stream out of multiple stream fragments
- Reliability**
 Enhanced stream resilience with congestion aware routing and patented dynamic forward error correction (FEC)
- Quality Optimized Delivery:** Quality optimized delivery with content aware bandwidth shaping
- Network Efficiency**
 Reduces egress costs up to 30% - 50% when compared to other protocols
- Compute Efficiency**
 Reduces compute costs up to 50% by utilizing highly efficient ARM based processors
- Connection Validation**
 Industry leading security including DTLS connection security and content encryption



ABOUT NEUTRAL WIRELESS Neutral Wireless Ltd is a multi-award winning mobile and wireless communications company specialising in the design, build and installation of innovative and affordable private 4G/5G radio access networks. Our mission is to provide our clients with end-to-end wireless network solutions that are innovative, secure-by-design (sovereign), value for money, and deliver operational and business benefits across a wide-range of market verticals and use cases. Our team of experienced engineers operate at the forefront of DSP-enabled mobile and wireless communications and lead on the evolution of real software-defined radio (SDR). Neutral Wireless delivers engineering excellence through its services in consultancy, design and implementation of deployable 4G/5G radio access networks, FPGA custom designs, product development of the next generation RFSoc-enabled SDR solutions, and world-class training courses and upskilling. Neutral Wireless Ltd is a privately held company that is headquartered in Glasgow, UK.
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ABOUT ZIXI Zixi provides the cloud based and on-premises Software-Defined Video Platform (SDVP®) that enables reliable broadcast-quality video delivery over any IP network, any protocol, any cloud provider and any edge device. The company offers technologies for broadcasters, enterprises, over-the-top video providers, sports leagues, service providers, cable operators and Telcos around the world, giving them the lowest TCO in the industry. Many of Zixi's clients are delivering and managing thousands of streams, and there is no other alternative in the market that can provide 99.999%+ reliability at scale. Zixi simplifies building and managing congestion-aware live video routes on any network, with support for 18-protocols across any operating environment, with products that are purpose built to provide market leading performance, universal interoperability and an operational control plane that simplifies management and orchestration at scale. With 15+ years of innovation and expertise, the Zixi Enabled Network has grown to over 1000+ media customers and 400+ OEM and service providers that deliver 20,000+ channels daily, with 110,000+ deployed instances in over 120 countries, gathering over 9 billion data points a day while delivering over 100,000 live sporting events a year. This powerful ecosystem of the largest media organizations in the world exchanging live video allows for the creation and acceleration of new content acquisition, business models, and opportunities to reduce cost and generate revenue.
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