ACU-Z1 CCP™

Interoperability Gateway

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JPS Interoperability Solutions

The new ACU-Z1 combines the best of newly-available technology with JPS' two decades of experience as the industry leader in communications interoperability, applying the knowledge of customer requirements built over that time. Modular, just 2U high, fully IP centric, and loaded with the capable radio interface features you have come to expect from JPS – Where Tradition Meets Innovation.

Benefits

- Builds on the ACU- 2000 feature set, using up-to-date hardware and advanced processors
- Modular, only 2U high, lower power - does not require extra rack space for ventilation
- Encrypted Browser-Based Control and Configuration through PCs and Tablets
- Interfaces Smart Devices, both phones and tablets
- Connection to new JPS VIA Smartphone App (powered by ESChat) provides PoC interface to the system, as well as connection to ISSI, AIS, and FirstNet
- Local connection through standard handset or Bluetooth headset
- User selectable VoIP protocols: SIP, RTP, or JPS RoIP
- SIP PBX and Stun Support (Determines IP Address for NAT Clients)
- Modern, intuitive, and user-friendly Graphical User Interface
- Operators can use this highly scalable GUI to control wide area interoperability systems that include multiple ACU-Z1s as well as new RSP-Z2 Dual Channel Radio/PSTN Internet Gateway

Overview

The ACU-Z1 CCP (Communications Convergence Platform) starts with the capabilities of the JPS flagship ACU-1000/2000 series of radio interoperability gateways and packs in new features. Its design pays close attention to those aspects our customers deem most vital.

The unit is modular, including an optional backup controller module; highly flexible, with connection capability to all types of voice communications devices, including Smartphones. The ACU-Z1 is fully IP-centric, and possesses significant headroom - ready for the enhancemens already loaded into its product roadmap, not to mention the innovative ideas that its users will supply.

A Truly Network-Centric Gateway

The ACU-Z1 has an intuitive browser-based GUI for control and monitoring of the system. Operators can even employ their browsers as mini-dispatch stations, using their computer's sound card to send and receive audio from selected interoperability system endpoints.

This IP-centric nature also allows the companion RSP-Z2 dual channel radio interface unit, as well as additional ACU-Z1 gateways, to be integrated via IP into large interoperability systems, controlled by the highly scalable web-based browser. Creating these wide area systems does not tie up any modules on the controlling ACU-Z1, with all input from these many communications devices coming in via IP to the CPM module through an external Ethernet switch. All sources are interfaced via this external switch, including those of the modules installed in the ACU-Z1 chassis itself, rather than duplicating the Ethernet switch function within the chassis.

Vendor Neutral Philosophy

The JPS ACU Intelligent Interconnect Technology employed by the ACU-Z1 and other JPS gateways purposely eliminates the proprietary nature of some system types through radio-agnostic interfaces for hundreds of different radio makes and models, regardless of frequency, modulation technique, protocol or encryption.

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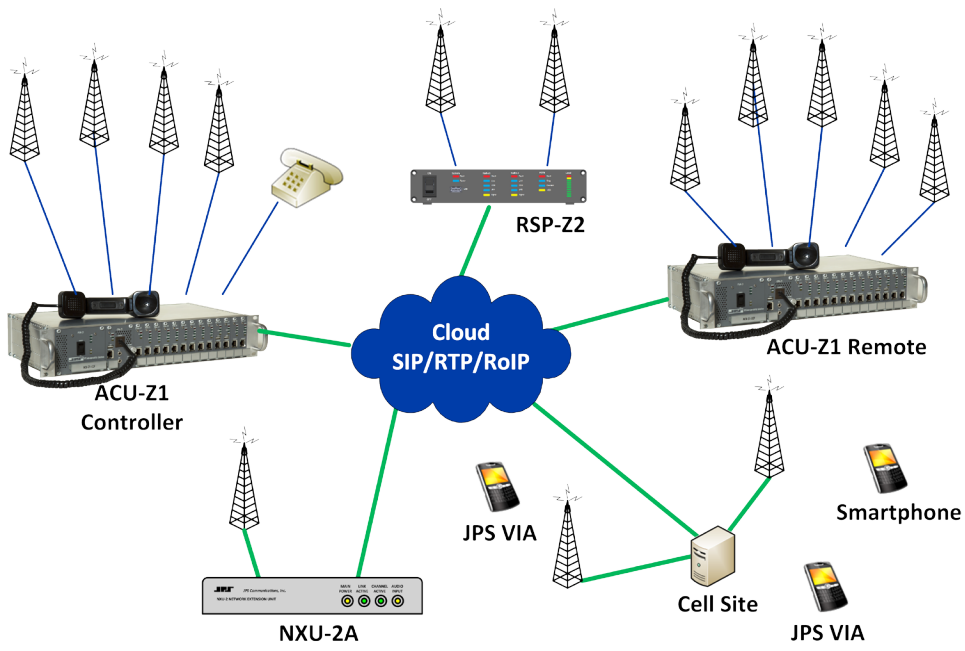
IP-Centric Interoperability Gateway

When the situation is critical, your team needs seamless interoperability. The ACU-Z1 from JPS provides a true IP-centric gateway to digitally converge existing radio systems with each other as well as with landline and SIP telephones, Smartphones and other devices.

Below: One ACU-Z1 can function as the controller for a wide area system that can include the devices connected locally at the unit, and but also multiple remote devices. Devices that are not natively IP can be brought in through other ACU-Z1 gateways, the new Dual Channel RSP-Z2, and other. Interoperability Nets involving these resources are created using the highly scalable web-based GUI on the controlling ACU-Z1.



The ACU-Z1 and RSP-Z2 minimize BW required as well as maintain local interoperability in the event of an incident that causes a disruption to the network. Local links are created within the ACU-Z1 or the RSP-Z2, and maintained if a network outage occurs. Bandwidth is minimized because, rather than sending independent audio streams, the combined audio of the interoperability nets is passed to the controlling ACU-Z1.

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