
ApplianX Gateways for a national rail provider

Solutions in modernising a rail network's telecommunication systems



Aculab's Gateways systems have been crucial in updating a national rail provider's telephony infrastructure while enhancing the security and adhering to requirements specific to the industry.

“ ApplianX IP is a purpose-built appliance designed to expedite and simplify migration from TDM to VoIP while increasing the functionality of the incumbent infrastructure. ”

Background

Aculab was approached by a contractor for a national rail provider, in order to provide the hardware solutions to integrate a traditional telephony network with the latest VOIP features. With a traditional TDM network of considerable size, our customer required a robust telecommunication gateway that would ensure a seamless transition from TDM to VOIP whilst minimising the potential disruption of service for their client.



This rail provider had very specific requirements for the hardware solutions:

- **Secure from hacking**

The threat of hacking to secure networks, especially those supporting transit on a national scale, is becoming a progressively more concerning issue. Our client consequently required the solution to be shielded from external threats.

- **Integrates with existing, trusted technology**

The rail provider had considerable investment in its well-established TDM network. Aculab's Applianx Gateway was, uniquely, able to integrate this specific TDM network with the latest VoIP technology in a single, robust and reliable solution.

- **Compatible with particular signaling characteristics**

Rail personnel working in operations track-side had unique requirements that our customer's client stipulated were essential in being fulfilled.



About ApplianX IP Gateway

The ApplianX IP Gateway can be used in a variety of VoIP/TDM interworking scenarios and for TDM protocol conversions, allowing our customers to extend and enhance their well-established systems' interoperability.

It is a 'plug & play' gateway that, regardless of deployment, can help reduce operational costs, extend the life of legacy, TDM-based equipment, and enable the delivery of services from IP-based applications and end points. Uniquely, the ApplianX IP Gateway can support the interworking of Supplementary Services between SIP, QSIG and DPNSS.





[View our technical specifications datasheet for ApplianX IP](#)

The ApplianX IP Gateway offers a wide range of signalling protocols, including PRI/ISDN types, various CAS types, and PBX protocols, such as QSIG and DPNSS. The ApplianX IP Gateway provides dual-redundant traffic interfaces for SIP signalling and RTP voice streams, with support for G.711 and G.729AB codecs.

Extensibility

This concept, where by our clients extend the life of their legacy networks using ApplianX gateways, has gained a great deal of traction in the market. It provides a much more cost-effective alternative to the disruptive "rip and replace" strategies that are actively promoted by many providers.

The extensible approach allows the business to deploy IP-based tools and applications where they need it, allowing them to preserve capital, while mitigating cumbersome and costly disruptions in their networks

Outcome

Aculab's ApplianX IP gateway allowed our client to be able to meet the specific requirements of the rail provider, whilst working in unison with existing, well-trusted and reliable telephony systems. Through the simple to use, 'plug and play' gateway, our customer's client was able to gain the many advantages of IP-based services in a cost-effective, disruption-free manner.



About Aculab

Aculab is an innovative company that offers deployment proven technology for any telecoms related application. Its enabling technology serves the evolving needs of automated and interactive systems, whether on-premise, data centre hosted, or cloud-based.

Over 1000 customers in more than 80 countries worldwide, including developers, integrators, and solutions and service providers, have adopted Aculab's technology for a wide variety of business critical services and solutions.

Aculab offers development APIs for voice, data, fax and SMS, on hardware, software and cloud-based platforms, giving a choice between capital investment and cost-effective, 'pay as you go' alternatives.

For more information

To learn more about ApplianX and Aculab's extensive telephony solutions visit:

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