

Aculab and WiNGcon:

Aculab's telephony platform powers WiNGcon's GSM-R systems



Partner:	WiNGcon
Solution:	GSM-Railways Blackbox Recording Center
Industry:	Transport - Railways
Requirement:	Signalling intercept and voice recording functions

The challenge

Capitalising on its distinguished position and role in the evolution of the GSM-Railway (GSM-R) system, WiNGcon sought to introduce a black-box recording solution for its customers and partners in Europe and elsewhere.

The product was to be based on international standards compliant hardware, capable of actively interfacing to SS7 (ISUP) networks worldwide, and suitable for installation in redundant configurations in central or exchange office type locations. With its technical know-how and market expertise, WiNGcon wanted to work with a vendor whose products could meet its no compromise quality standards, regulatory requirements, and reliability demands. WiNGcon's requirements:

- SS7 signalling monitoring
- Active ISUP recording
- High capacity (up to 2000 channels/server)
- Distributed, redundant architecture
- +48V DC powered hardware

The solution

Based on Aculab's Prosody X 1U hardware, WiNGcon's Blackbox Recording Center (BBRC) was designed and optimised for the needs of its global partners and GSM-R customers.

Aculab's telephony platform is employed in a redundant configuration, interfacing to active ISUP connections carrying Lawful Intercept stub-lines. WiNGcon's BBRC supports very high loads and deals with voice and data traffic, including communication related data. The BBRC supports several mechanisms to receive and/or 'sniff' the relevant communication.

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This is what WiNGcon said

"We appreciate working with Aculab, because, like WiNGcon, it is an enterprising, innovative company with technical know-how and a diverse R&D team, consisting of senior experts and young ICT professionals. Like us, the people at Aculab do not accept any compromises when it comes to quality.

Aculab's core competence and extensive experience in telecommunications means its hardware, software and APIs are very well suited to our purpose. Its products are proven in deployment and we have benefitted from their exceptionally robust and reliable functionality. Our voice solutions rely on Aculab."

Fritz Roland Paul
Geschäftsführer
WiNGcon GmbH

For more information

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

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The Outcome

Businesses choose WiNGcon, because its reputation in the development of GSM-R solutions is based on results. WiNGcon's solutions, incorporating Aculab's platform, give its clients and end user organisations the benefits of regulatory compliance, incident analysis, and increased productivity.

Aculab's telephony hardware and APIs enable WiNGcon to offer its feature rich BBRC product for the capturing, filtering, and recording of any type of communication made within the GSM-Railway network, including voice communication, text messaging and other signalling Call Data Records. GSM Advanced Speech Call Items (ASCI) features are supported, including voice group calls, voice broadcast calls, and railway emergency (group) calls.

WiNGcon's Aculab powered BBRC system enables numerous rail network operators to implement workforce safety and process improvements, improve railway communication, and to automate the evaluation and archiving of communications data in support of post-accident analysis.

Recording the communication in railway networks is a legal requirement in many countries, the same as a black-box in an aeroplane, however WiNGcon's system provides many additional benefits such as network monitoring and the discovery of problems in the signalling of terminals, core route misconfigurations, and temporary, network node outages.

About WiNGcon

WiNGcon GmbH is a German high-tech company that specialises in designing, developing and providing innovative telecommunications products and solutions for various markets. It has achieved a distinguished position in the European market and nowadays plays a significant role in the evolution of the GSM-Railway (GSM-R) system all over the world.

Since 2004, WiNGcon's team has developed the technical know-how and market expertise needed to deliver its products and customisation services to the highest standards, and to satisfy the demanding needs of its customers, including Deutsche Bahn, the German national rail network. WiNGcon is absolutely committed to making no compromises in the quality of its products and services.

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.