



VITEC and RFmondial Showcase Ultra-Low Latency Video Streaming over DECT NR+

VITEC, a market-leading provider of IPTV, video streaming and digital signage solutions, and RFmondial, a specialist in wireless transmission technology, have announced a groundbreaking achievement: the world's first demonstration of ultra-low latency (below 100ms) video streaming over DECT NR+, the new non-cellular 5G standard. Achieved as part of the Sennheiser led Franco-German backed project [MERCi](#), the demonstration took place at a public workshop in Hannover, Germany on April 19, 2024.

As partners in the MERCi project, VITEC and RFmondial joined forces to unveil the potential of DECT NR+ for wireless video transmission. VITEC's market-leading video encoder and decoder – renowned for exceptional energy efficiency and industry-low glass-to-glass latency – and RFmondial's compact and optimized NR+ implementation (based on the Nordic chipset) combined to demonstrate to workshop attendees robust HD video streaming with latency down to 50ms glass to glass over ranges of up to 100 metres.

Eric Deniau, VITEC's SVP R&D commented: "This demonstration shows that Ultra-Low Latency wireless video transmission is now made simple even in very demanding environments, where today complex dedicated technical means are needed."

Jens Schroeder, RFmondial's Managing Director, added: "The simplicity of NR+ setup, which does not require infrastructure deployment, together with its robust and high-performance capabilities, make it an ideal solution for wireless video connectivity in applications such as public venues, industrial or medical environments."

The MERCi project has support from the German and French governments as part of their 5G programmes, with work focused on two use cases where these capabilities will be needed:

- Public venue displays and remote video production where video quality and display latency are key factors.
- Industrial robots and remote vehicle operation where end to end latency and secure transmissions are essential.

NR+ enables ultra-low latency and ultra-reliable wireless connectivity for demanding network environments. Based on proven capabilities, it is anticipated that future silicon implementations of NR+ will allow for more throughput and improved robustness (as defined by the ETSI standard) to fulfil the requirements for wider adoption of wireless video transmission. Combined with the next generation high efficiency / low latency / low footprint video coding technology VITEC is currently working on, unprecedented performance will be possible, making the combination a perfect fit for many use cases where wireless video connectivity is currently lacking a suitable solution.

About VITEC

VITEC is a market-leading provider of IPTV, Video Streaming and Digital Signage Solutions that help organisations harness the power of video to engage, empower and evolve. VITEC is a pioneer in the design and manufacture of hardware and software for video encoding, decoding, transcoding, archiving and streaming over IP. Our end-to-end video streaming solutions enable customers to capture TV and video content directly from any source and manage its delivery, as channels or within digital signage screens, to any connected device via an existing network. From corporate, broadcast and venues, to accommodation, government and military, VITEC has global expertise in delivering complex, proAV solutions.

VITEC's award-winning IPTV platform is a powerful suite of services for content management, digital signage, video archiving, and video wall processing. Our encode/decode solutions are 100% hardware based, including PCIe cards with SDK for custom design or OEM for high-performance video systems.

Headquartered in Paris, France, we have a global reach through our offices across the Americas, Europe, Middle East, Africa and Asia Pacific.

Making a difference with green initiatives, VITEC is the first Zero Carbon MPEG company and encourages customers to 'buy GreenPEG' for continued environmental efforts to reduce greenhouse gases.

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