

Nevision VideoIPath orchestrates ground-breaking 5G contribution proof of concept at UK King's Coronation

Successful tests carried out together with BBC R&D, Neutral Wireless and Sony

Oslo, Norway, 26 July, 2023 – [Nevision](#), a Sony Group Company and award-winning provider of virtualized media production solutions, announced today that its flagship [media orchestration platform, VideoIPath](#), has been used successfully to demonstrate the dynamic prioritization of live media signals over 5G connectivity in a proof-of-concept (PoC) during the coronation of King Charles III on 6 May 2023, in London, UK. The test was carried out by Nevision, parent company Sony, private 5G SA Networks developer [Neutral Wireless](#), and the research and development arm of UK public broadcaster the BBC.

Within the broadcast industry, there is a growing interest in using 5G in live production to connect cameras, because of the ubiquity, the versatility, and the bidirectional nature of the network technology. While 5G potentially offers fast connectivity, the best-effort nature of the technology usually employed can make it unusable in situations where there is a high-level of contention for the available bandwidth. This is clearly the case for public 5G networks, on which many mobile handset users might be active or even broadcasters competing for resources. However, it can also be the case for dedicated private 5G networks with many pieces of equipment (including cameras) connected.

The objective of the PoC was, therefore, to demonstrate that media signals could be prioritized on a standalone non-public network (SNPN) using quality of service (QoS) control.

The solution for this PoC was built on elements of Sony and Nevision's Networked Live offering. For media transport, each camera was fitted with a Sony prototype transmitter box, which provided ultra-low-latency HEVC video encoding, and was connected to the Neutral Wireless 5G SNPN via an Xperia™ 5G smartphone.

For network and resource orchestration, Nevision VideoIPath was used to interface with the 5G network's NEF (Network Exposure Function) to configure the QoS for individual flows based on dynamic information about the bandwidth and signal priorities. For example, the camera currently transmitting was given a higher priority for its video signal compared to the non-transmitting one.

Andy Rayner, Nevision's Chief Technologist explains: "Our vision of creating a unified hybrid on-prem and Cloud-distributed environment requires a network orchestration able to control the flow of signals end-to-end, across various fixed and mobile networks. In recent years we have built a solid experience in using 5G in production, most notably through the Nevision-led [EU-funded 5G VIRTUOSA project](#). This PoC is one further step in demonstrating the viability of 5G in live production, especially in high demand environments."

For more information about Nevision VideoIPath, please visit Nevision's website: <https://nevision.com/videoipath/>

About NeviON

As the architect of virtualized media production, NeviON, a Sony Group Company, provides media network and broadcast infrastructure solutions to broadcasters, telecommunication service providers, government agencies and other industries. Increasingly based on IP, virtualization and Cloud technology, NeviON's solutions enable the management, transport and processing of professional-quality video, audio and data – in real time, reliably and securely. From content production to distribution, NeviON solutions are used to power major sporting and live events across the globe. Some of the world's largest media groups and telecom service providers use NeviON technology, including AT&T, NBC Universal, Sinclair Broadcast Group Inc., NASA, Arqiva, BBC, CCTV, EBU, BT, TDF and Telefonica.

About Networked Live

Sony and NeviON's Networked Live is an ecosystem of solutions, products, services, and partners that combines hybrid on-premises and Cloud processing with network connectivity to transform the logistics and economics of high-quality mission critical live production.

It does this by enabling resources (places, people, and processing) to be connected, used, and shared optimally and seamlessly in productions – regardless of their locations. For more information, see: <https://neviON.com/sony-neviON/>

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