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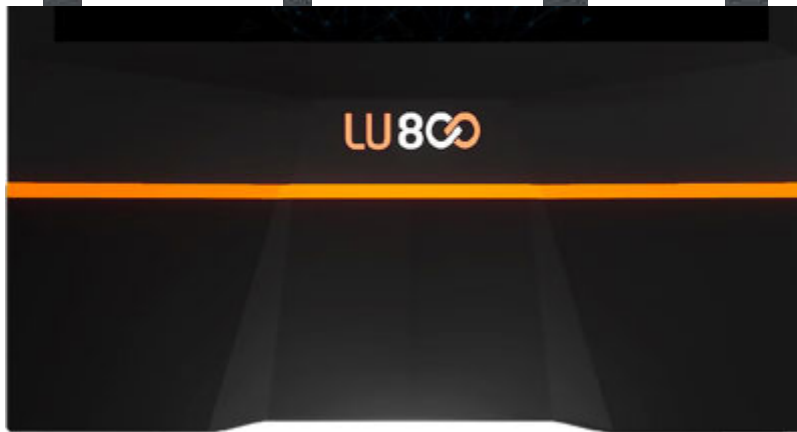
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## LiveU Tests How 5G Slices Can Serve Global Media Remote Production





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In a recent 'first', LiveU tested how 5G slices – the ability to segment a 5G network to provide guaranteed upload bandwidth and latency – can serve global media remote production.

This was done together with Ericsson and RAI as part of the work the three companies are carrying on in the EU 5G-RECORDS project, designed to develop, integrate, validate and demonstrate specific 5G components in end-to-end 5G infrastructures for professional AV media content production.

In these series of tests, an LU800 PRO portable transmission solution transmitted multiple A/V feeds via an Ericsson 5G Stand-Alone (SA) private (NPN) 5G lab setup in Aachen Germany to the public internet and into the RAI Studio Labs in Turin Italy. There, a LiveU LU2000 server received the video and outputted it as SMPTE. In the 5G network, one slice was configured to provide approximately 60 Mbps as an uplink-oriented priority over the second slice. This was set up to provide the remaining capacity, approximately 50 Mbps, on a best-effort basis.

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Baruch Altman, AVP Technologies and Projects, LiveU, said: "This was a very important, comprehensive set of tests of network slicing scenarios, providing clearly measurable results. The trial also highlighted the key role that LiveU's IP-bonding will play when it comes to resilient professional production in real-world conditions, including where and when dedicated slices for upload (UL) will be deployed."

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In some tests, the transmission was conducted with a single modem over the uplink-oriented, 'guaranteed performance slice'. In other tests, transmissions used the best-effort slice. In further tests, the transmission used LiveU bonding of both the uplink-oriented "guaranteed performance" slice and the remaining slice. Additionally, transmission performance was measured while emulated congestion was applied to the network in parallel to the LU800 PRO uplink transmission.

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Altman added: "The tests showed that the LU800 modem was allocated the full 60 Mbps of the "guaranteed bandwidth" slice when it transmitted alone on it, even when UL load was emulated onto the second, best-effort slice. However, when the "guaranteed UL performance" slice was then deliberately congested, uplink bandwidth allocated to the LU800 modem for the media production was, as expected, reduced. When the LU800 PRO also used a second modem – thus bonding that lower-

other (commercial) network – the transmission bandwidth of the LU800 significantly increased and the uplink transmission was sustainable and reliable with high bandwidth. Successfully bonding transmissions over two slices, the uplink-oriented 'guaranteed bandwidth' bonded with the best effort one, was also demonstrated in these trials."



Several additional capabilities of the LiveU remote production solution were trialled in this 5G scenario, such as remote audio capabilities (intercom and return audio), remote control of camera iris/shading over the integrated LiveU 5G IP-PIPE remote device control service, and LU2000 SMPTE-2110 A/V output compliance.

[www.liveu.tv](http://www.liveu.tv)



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NEP Australia (NEP) has entered into an agreement with Lawo, for its new IP-enabled production 'Hubs' in Sydney and Melbourne. NEP's Hubs enable multi

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Media Links has confirmed that it is one of this year's sponsors of the Sports Video Group Europe (SVG) Sports Production Summit. The event takes plac

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Sony Digital Cinema 4K and Hawk-Eye Innovations have announce the first full proof of concept of Hawk-Eye's globally-renowned technology outside the w

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Sky has confirmed its investment in the Irish production sector with the announcement of a new content fund of more than €2m (£2m) for its Sky 1 chann

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Ross Video is committed to smart production, helping our customers deliver expert broadcasts efficiently and effectively, writes Jennifer Markey, Vice

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The company aims to decouple people and operations from infrastructure and technical complexity. There's been a big shift in the industry recently, fr

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New figures have revealed that production spend on Scotland's film and television sector increased by more than 30% last year. Released by Creative Sc



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**SAM Helps Deliver National Theatre Production**

Snell Advanced Media (SAM) has helped to deliver the UK National Theatre's first HDR/UHD production. The two-part live broadcast of the National Theat

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Channel 4 has announced the production partner for its live television fundraiser, Stand Up To Cancer. Following a tender process, Fulwell 73 was awar

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**Four Things Every Creative Pro Should Consider For Production Insurance**

Spotting a film crew in action can be exciting and intriguing for the general public. But behind the perceived glitz and glamour, experts in the broad

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