

LiveU tests content streaming capability over 5G slices together with Ericsson and RAI



🕒 May 25, 2022

In collaboration with RAI and Ericsson, LiveU has recently demonstrate how 5G slices can serve global media remote production. This project has been part of EU 5G-RECORDS, a program designed to develop, integrate, validate and demonstrate specific 5G components in end-to-end 5G infrastructures for professional AV media content production.

In the development, a LU800 PRO transmitted multiple AV 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 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.

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 emulating congestion was applied to the network in parallel to the LU800 PRO uplink transmission.

“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-performing shared ‘guaranteed UL bandwidth’ slice with a completely 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, uplink-oriented ‘guaranteed bandwidth’ bonded with the best effort one, was also demonstrated these trials,” reviews Baruch Altman, AVP Technologies and Projects, LiveU.

Several additional capabilities of the LiveU remote production solution were trialled in this 5G slice 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 SMP12110 A/V output compliance.

POST TAGS:

[Ericsson](#)[LiveU](#)[LiveU LU2000](#)[LiveU LU800 PRO](#)[RAI](#)

[« Previous article](#)[TV5MONDE relies on ...](#)[The Australian Footb...](#)[Next article »](#)

RELATED ARTICLES

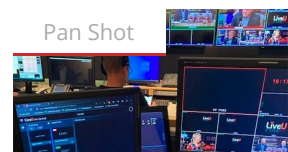
Pan Shot

[Volleyball World rel...](#)

Pan Shot

[LiveU acquires easyl...](#)

Pan Shot

[Dutch broadcaster Om...](#)



[Privacy Statement](#)
[Contact Us](#)