

TBS



5G Transforms Live, On-Location Video Broadcasting

A proof of concept from Aviwest, Intel, and Telefónica shows that 5G has the potential to transform the industry by enabling flexible and cost-effective multi-camera, remote, live video production. Aviwest's AIR320-5G transmitter provided a single 5G connection with the required capacity, bandwidth, and latency to secure live transmission. Telefónica deployed macro 5G coverage at 3.5 GHz and an edge computing center offering a low latency environment for hosting Streamhub production software. A special low latency configuration of the Telefónica Core Network enabled the video streams to synchronize with the edge computing center while Intel® FPGAs provided low latency encoding of footage, and Intel® Xeon® Scalable processors offered high-performance processing at the edge.

“The incursion of video transmission via mobile technology to the detriment of satellite, especially in news, has been one of the great changes in the television industry. One of the current challenges is to ensure that these transmissions are reliable enough to guarantee service. And the key to that is bandwidth and latency.”

Daniel Barroso,
Telefónica Broadcasting Services

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