COMMUNITECH®

SSIMWAVE®: Testing video compression in a 5G environment

Compression of video files to reduce data use while maintaining video quality could be a challenge in a 5G environment. SSIMWAVE has assessed its suite of products by using the ENCQOR 5G test bed at Communitech's Data Hub.

Project Description

Companies moving to video delivery of information can face issues of image quality and lag time due to the process of encoding, transmitting and delivering video content.

SSIMWAVE products offer real-time monitoring of video quality on large-scale networks. The higher bandwidth and lower latency of the 5G environment will introduce new challenges for SSIMWAVE products.

Project Outcomes

The ENCQOR 5G network simulated the challenges of the 5G environment, helping accelerate development by accessing varying networks and devices to explore the viewer experience. Thanks to this project, SSIMWAVE has developed tech to measure the experience for each and every viewer in a video delivery chain.

By accessing the test bed, real-world beta testing on the live networks of clients was avoided and quality video delivery was demonstrated as devices shifted from 4G/LTE systems to 5G.

"Having access to a real delivery network with 5G wireless antennas and the rest of the infrastructure, has allowed us to prove our ideas work in a real-world environment. Up until we got involved in this project, we could not measure the experience for every viewer in a 5G delivery chain and this first-of-its-kind study has helped us develop the technology that allows us to do that."

Peter Olijnyk
Vice President Engineering
SSIMWAVE

SSIMWAVE®

Waterloo-based SSIMWAVE is an Emmy Award-winning video quality solutions innovator and Dolby Labs-certified provider, that helps streaming services assess video quality at scale, while reducing distribution expenses and maintaining video quality, both necessary conditions for customer engagement.

Website
ssimwave.com

Industry
Video quality optimization

Number of employees
20