China Unicom and Baicells Develop New Mobile Edge Computing (MEC) Virtual Reality (VR) Solutions for 5G Using Artesyn MaxCore™ Platform

Tempe, Ariz. [26 October, 2016] —Artesyn Embedded Technologies today announced that its MaxCore™ platform has been selected by China Unicom Network Technology Research Institute and Baicells to demonstrate a new mobile edge computing (MEC) virtual reality (VR) live video solution using drone technology for 5G networks.

China Unicom and Baicells joint research and development solution fuses together a number of today's most advanced technologies, including a panoramic video collage algorithm, a panoramic video transmission protocol, a MEC architecture, and an LTE/5G data channel quality of service (QoS) guarantee mechanism.

A video of the demonstration is available on the Artesyn YouTube channel.

The panoramic video collage algorithm and transmission protocol ensures the panoramic VR video is seamless, while the MEC architecture brings the processing technology closer to the user for low latency and - combined with LTE/5G transmission - ensures a fluent, interference-free, high-speed transmission of the video data. The unmanned aerial vehicle (UAV) or drone in the demonstration features 360 degree panoramic high-definition cameras. The user can enter the panoramic video and manipulate it to achieve an unprecedented immersive live VR experience. Enabling the low transmission latency and seamless panoramic live HD VR broadcast is an MEC architecture gateway powered by the Artesyn MaxCore™ acceleration platform, a specialized hardware and software platform optimized for mobile edge computing.

"This end-to-end solution can be applied not only to concerts, sporting events, films and other entertainment industries, such as the Mid-Autumn festival, live CCTV broadcasts using VR panoramic technology, but it can also be applied to public safety, emergency communication, UAV inspection, and much more," said Mingyu Zhou, Baicells' research

director. "We believe China Unicom and Baicells' joint research and development can help users experience live HD VR video transmissions more quickly and smoothly."

"MEC provides a distributed computing environment for application and service hosting, bringing cloud technologies closer to the radio access network (RAN) and ultimately, closer to consumers. Carriers are telling us that for these applications they need telco-grade features, which is Artesyn's expertise," said Linsey Miller, marketing vice president, Artesyn Embedded Technologies. "This demonstration shows that our MaxCore platform is the perfect hardware for high density MEC compute and acceleration, providing computing resources, storage capacity, low-latency connectivity and access to RAN information."

About Artesyn Embedded Technologies

Artesyn Embedded Technologies is a global leader in the design and manufacture of highly reliable power conversion and embedded computing solutions for a wide range of industries including communications, computing, medical, military, aerospace and industrial. For more than 40 years, customers have trusted Artesyn to help them accelerate time-to-market and reduce risk with cost-effective advanced network computing and power conversion solutions. Artesyn has over 20,000 employees worldwide across ten engineering centers of excellence, four world-class manufacturing facilities, and global sales and support offices.

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