TOPIC	oneM2M
ORGANIZERS	Student Leadership Council and Faculty of ACIT Institute and TECHLAV Center
AREA	oneM2M – A Common Service Platform for IoT
SPEAKER	Paul L. Russell, Jr
DATE	Friday June 10th, 2016
TIME	3:00-4:00 PM (EDT)
VENUE	Fort IRC 410, North Carolina A&T State University, UTSA and SIPI will be joining through video-conferencing
FEES	No Charge

SYNOPSIS

This talk focuses on oneM2M functional architecture, which as a common service layer enables horizontal Internet of Things (IoT). oneM2M is designed as a RESTful architecture and it includes a set of nice features which have been designed for massive IoT devices and data. A few selected features will be discussed, such as non-blocking and flexible request, filter-based resource discovery, subscription and notification, polling channel, 3GPP interworking, semantics and end-to-end security. oneM2M can bind to different underlying protocols such as HTTP, CoAP, and MQTT.

In addition, an oneM2M standard-compliant IoT platform (oneMPower) will be presented.

ABOUT THE SPEAKER

Paul Russell (Paul.Russell@InterDigital.com) is a Senior Principal Engineer with InterDigital Communications, where he is currently leading several R&D activities covering 5G IoT, 5G security, and Intelligent Automobiles. He has managed numerous projects including M2M/IoT and 3G multi-mode baseband chipset development. Prior to joining InterDigital, he had worked with Motorola and Freescale Semiconductors as a Distinguished Member of Technical Staff. He has more than 25 years R&D and management experience in electronics, wireless and the telecom industry. He has been active in telecom technology standardization including 3GPP, oneM2M, ETSI, and IEEE. He has previously chaired ETSI TC M2M Working Group 2 for M2M functional architecture. He was on the advisory board of several EU projects on IoT, such as BETaaS and ICSI. He holds patents including a few pending in wireless modem development targeting 3GPP and satellite based communications, and most recently in the M2M/IoT service architecture, protocols, and enabling technologies.