



**Tutorial Sections**  
**Monday November 9, 2015**  
**Landmark B/C Hyatt Regency Dallas**

**SECTION #1**                      **6:00 PM to 7:30 PM**

**TITLE OF TUTORIAL:**     A Quick Walk Around the Block with PoDL

**NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:**

Presenter(s) Name	Affiliation	Email Address
Dave Dwelly	Linear Technology	<a href="mailto:ddwelly@linear.com">ddwelly@linear.com</a>
Steve Carlson	High Speed Design	<a href="mailto:scarlson@hspdesign.com">scarlson@hspdesign.com</a>

**ABSTRACT:**

IEEE P802.3bu 1-Pair Power over Data Lines (PoDL) is a new draft power delivery standard for Ethernet that complements the single-twisted-pair Ethernet PHYs, 100BASE-T1 and 1000BASE-T1. After two years of work, the IEEE P802.3bu PoDL Task Force has a technically complete draft and intends to request IEEE 802.3 Working Group ballot. Since power delivery is a relatively esoteric subject in IEEE 802, the IEEE P802.3bu PoDL Task Force chair would like to take this opportunity to walk interested parties quickly through the document and summarize the interesting parts. The goals are to make the IEEE 802 community aware of PoDL and assist with review the PoDL draft.

**SECTION #2**                      **7:30 PM to 9:00 PM**

**TITLE OF TUTORIAL:**     Perspectives on IEEE 802.11 in NGMN/5G

**NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:**

Presenter(s) Name	Affiliation	Email Address
<b>Jim Lansford</b>	CSR-Qualcomm	<a href="mailto:jlansfor@qti.qualcomm.com">jlansfor@qti.qualcomm.com</a>
<b>George Hurtarte</b>	Teradyne	<a href="mailto:george.hurtarte@teradyne.com">george.hurtarte@teradyne.com</a>

**ABSTRACT:**

Next Generation Mobile Networks (NGMN) Alliance is working on an integrated architecture for fifth generation (5G) mobile networks. An important part of the work is how Wireless LAN (IEEE 802.11) technology will fit into this architecture. This panel discussion will bring together representatives of WLAN, NGMN, and other stakeholders to give a brief overview of their perspectives, followed by questions and discussion from the audience.

**SECTION #3****9:00 to 10:30 PM****TITLE OF TUTORIAL:** Object Storage – a new architectural partitioning in Storage**NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:**

<b>Presenter(s) Name</b>	<b>Affiliation</b>	<b>Email Address</b>
Martin Czekalski	HGST	<a href="mailto:Marty.Czekalski@hgst.com">Marty.Czekalski@hgst.com</a>
Thomas Skaar	Seagate	<a href="mailto:thomas.j.skaar@seagate.com">thomas.j.skaar@seagate.com</a>

**ABSTRACT:**

Object Storage Drives represent a new architectural partitioning in storage solutions. The typical storage node architecture includes low-cost enclosures with IP networking, CPU, Memory and Direct Attached Storage (DAS). While inexpensive to deploy, these solutions become harder to manage over time. Power and space requirements of Data Centers are difficult to meet with this type of solution. Object Drives further partition these object systems allowing storage to scale up and down by single drive increments. This tutorial will discuss the current state and future prospects for object drives, and also the relevancy to IEEE 802.3 Ethernet and other networks that supports Object Storage access over IP.