

Smart Grid Forum: Standards, Technologies, and Platforms for Emerging Smart Grid Deployments

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Forum

[2011 IEEE Global Communications Conference](#)

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Organizer: Stan McClellan, Texas State University, USA

This panel will explore issues related to deployment of industry-standard platforms, control and system management technologies, and the status of communication standards & cyber-security in the emerging Smart Grid. The emphasis on speedy deployment of Smart Grid infrastructure has resulted in competing standards, interoperability issues, and complex architectural paradigms. As a result, modern usage of the grid is exposing difficulties that conventional Smart Grid technologies may be ill-equipped to handle. The panelists will present viewpoints which stem from real-world deployment of mission-critical infrastructure including Smart Grid systems, telecommunications networks, and data centers. Each of these panelists provides a unique perspective on grid stability and/or security, particularly pertaining to mobile systems, platform or technology implementation, and standardization issues.

Sample Key Questions/Issues to be explored:

- How do conventional network & system management technologies intersect with Smart Grid systems?

- What is the role of industry-standard platform and networking technologies in the Smart Grid?
- What issues do Smart Grid systems face in terms of national, regional, or international standardization?
- What are the dominant perspectives in various competing standards influences?
- How do user-driven or demand-control systems affect the stability and operation of the Smart Grid, and which technologies are most prevalent in that arena?
- What are the requirements of end-to-end, integrated management for the provision of secure Smart Grid systems?
- Do conventional network security paradigms fall short in the unique case of Smart Grid systems?

Moderator: Stan McClellan, Texas State University, USA

Panelists:

Don Shaver, Fellow, Texas Instruments, on "Status & Evolution of Smart Grid Standards"

Jim Lansford, Architect, CSR Technology, on "A Pragmatic View of Wireless Standards for "Smart Stuff""

Ken Laberteaux, Senior Principal Scientist, Toyota Research Institute – North America, on "Vehicle-Grid interactions: Opportunities and Challenges"

Phil Powell, Director, Conservation & Load Management Research, Dominion Virginia Power, on "The Engineering App: Making the Grid do Something Smart now that you have a Smart Grid"

Robert Peterson, Engineering Manager, Pedernales Electric Cooperative, on "Requirements for Effective Smart Grid Implementation"

Authors:

McClellan, Stan

Shaver, Don

Lansford, Jim

Laberteaux, Ken

Powell, Phil

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