

# TIA TR41.4 Work on LLDP Extensions

## Media Endpoint Detection

# What is Media Endpoint Discovery About?

- A proposal to standardize how media endpoints advertise media specific capabilities, configuration and status over a LAN.
- Capability, configuration and status advertisements are used to discovery media endpoint functions on the LAN which can then facilitate media endpoint management operations.
- Media endpoints include devices such as IP Phones, Media Gateways, Media Servers and other similar things.
- The proposal involves media endpoint specific extensions to the IEEE 802.1AB general purpose LAN discovery protocol.

# What is TIA - TR41.4 About?

- IP Telephony Infrastructure Subcommittee.
  - Develops standards and Telecommunication System Bulletins to assist in the development and deployment of IP Telephony Systems.  
(approximately 15-20 active participants)
- Formal standards body
  - ANSI accredited
  - Formal ties and liaison to EIA and other standards (e.g. IETF, IEEE)
- Existing relevant publications
  - [TIA/EIA/IS – 811](#) Telecommunications - Telephone Terminal Equipment - Performance and Interoperability Requirements for Voice-over-IP (VoIP) Feature Telephones
  - [TSB-146](#) Telecommunications - IP Telephony Infrastructure - IP Telephony Support for Emergency Calling Service

# What Potential Benefits Could *Media Endpoint Discovery* Deliver?

- E-911
  - Enablement of E911 / ECS through device location and move detection
- Enable deployment of specific security policies
  - Identify convergence endpoints and deploy appropriate security
  - Enable voice specific access control
  - Correlation of Information to detect DoS and virus attacks
- Enable enforcement and automatic deployment of convergence policies
  - Identify VLAN, Diffserve or other prioritization assignments

# What Potential Benefits Could *Media Endpoint Discovery* Deliver?

- Detailed Inventory Management Capabilities
  - Location information is made available
  - Phone hardware information can be collected
  - Phone software information can be collected
- Support of QoS Monitoring and Auditing
  - Media device specific information can be made available for monitoring and auditing purposes
- Interoperability
  - Provide vendor-independent management capabilities, enabling different IP telephony systems to interoperate on one network

# What's next?

- TR 41.4 working on refining scope
- TR 41.1 appointing/electing leadership and participants
- TR 41.1 requesting liaison with 802.1  
<http://www.ieee802.org/1/files/public/docs2004/TR41.4-04-05-014-M-LiaisonLetterToIEEE%208021.doc>
- With liaison, 802.1 may review and vote on the document.