

# PLC Standardization Tutorial

IEEE 802 Plenary meeting  
Orlando, March 2004

# Tutorial's contents

1. Introduction (IEEE & DS2)
2. PLC Technology (DS2)
3. PLC Market (PUA/ENDESA)
4. PLC Products (SUMITOMO & MITSUBISHI)
5. PLC Standardisation and Regulatory status (DS2 & ATT)
6. Conclusions and proposal (DS2)
7. Q&A

# Speakers

- Marcos López Ruiz (ENDESA)
  - President of the PLC Utilities Alliance
  - Former General Manager of Endesa PLC
  - Endesa, with 20 million electricity customers worldwide, with presence in Spain (52% marketshare) and in Europe and South America, is the largest Utility commercially rolling out access PLC service

# Speakers

- Dr. Kenichi Hirotsu (SUMITOMO ELECTRIC INDUSTRIES)
  - Manager of the PLC department in Sumitomo
  - Sumitomo is one of the largest ADSL and PLC manufacturers in the world
  - Member of the PLC-Japan

# Speakers

- Dr. Jin Zhang (MITSUBISHI ELECTRIC CORPORATION)
  - Senior Principal Technical Staff
  - General Manager of Digital Communication & Networking Technology Lab
  - Mitsubishi is one of the largest PLC manufacturers in the world
  - Member of the PLC-Japan

# Speakers

- Dr. Paul S. Henry (AT&T Labs – Research)
  - AT&T is exploring the possibility of reaching customers via broadband powerline technology
  - Member of the BPL group, focusing on Electromagnetic Compatibility

# Speakers

- Víctor Domínguez Richards (DS2)
  - Co-founder of DS2
  - Strategy & Standardization Director
  - Chairman of the Technical & Regulatory working group of the PLCforum
  - Chairman of the PLC Technical Committee of the European Telecommunications Standards Institute
  - DS2 is member of the Board of the Homeplug and the PLCforum
  - DS2, founded in 1998, PLC technology supplier has recently released its 2<sup>nd</sup> generation of PLC chipsets, of 200 Mbps

# PowerLine Communications

- The electricity network is the most ubiquitous network (6 billion access points)
- High-speed (multi Mbps)
- Full home high speed coverage (HDTV between all outlet pairs)
- High frequency (above 1.7 MHz)
- Broadband access in every electricity outlet
- Audio & Video distribution