Multimedia on the Internet: Emerging Technology

Yahya Y. Al-Salqan
Concurrent Engineering Research Center (CERC)
West Virginia University
Morgantown, WV 26506-6506
alsalqan@cerc.wvu.edu

Description

This panel will investigate a cornerstone of the future digital highway—the underlying software and protocol architectures that make it possible to deliver interactive multimedia services on the Internet, including mobile nodes, with quality-of-service (QoS) guarantees.

Current and emerging technologies will be reviewed from both technical and market perspectives, and strategies for success will be presented. Emphasis will be placed on interoperability and how object orientation, Java, compression standards such as ISO/MPEG, real-time protocols, resource reservation, multicast support, ATM-based networks, and the virtual machine concept can provide the basis for a large scale of acceptance. Also, discussed will be the interaction of mobile clients running multimedia applications from the Internet.

The primary question to be addressed is whether Internet protocols and emerging technologies can scale to support secure and interactive multimedia services in the 21st century.

Panelists:

Charles Perkins
IBM T.J. Watson Research Center
Hawthorne, NY 10532, USA
perk@watson.ibm.com

Jerry Smith
Center For Standards
Strategic Planning Office - DISA
Reston, VA 22091, USA
smith5j@ncr.disa.mil

Radhakrishna Pillai
Institute of Systems Science
National University of Singapore
Singapore
pillai@iss.nus.sg

James Van Loo
Sun Microsystems
Palo Alto, CA 94301, USA
james.vanloo@Eng.Sun.Com

Pallavi Shah
Sun Microsystems
Mountain View, CA 94043, USA
pshah@Eng.Sun.COM