OMNEO
Media Networking Architecture

BOSCH
Invented for life

Bosch Security Systems, Inc., Communications Systems Division (Bosch Public Address & Conferencing, Dynacord, Electro-Voice, RTS, and Telex) has recently introduced the OMNEO open media networking architecture. Through the use of standard communication protocols, OMNEO will offer professional media networking designers improved capabilities for integrating diverse products from multiple manufacturers.

OMNEO has two main components: (1) An audio program transport protocol suite that offers low-latency, high-quality multichannel audio stream exchange, and (2) A robust system control protocol suite that provides reliable and secure control and monitoring for media networks of all sizes, from small to intercontinental.

OMNEO operates over industry-standard IP equipment, and allows the implementation of high-performance media systems using existing local area networks.

Where will OMNEO be used?
In nearly all future products from the Bosch Communications Systems family of brands requiring audio transport and system control.

Who is OMNEO for?
Professional AV applications where high quality, reliable, and secure communications and control are required for networks of up to 10,000 devices.

When will OMNEO be available?
In selected audio products from the Bosch Communications Systems family of brands beginning in 2012. OMNEO will become a central feature of Bosch Communications Systems audio offerings.

Is OMNEO proprietary?
No. Bosch Communications Systems believes that open public audio/video networking standards will provide the best value options for customers in the long run. OMNEO will be compliant with public standards when appropriate pro media networking standards, such as AVB, become available. Bosch Communications Systems is firmly committed to using and supporting open public standards and offering fully interoperable systems.

How will OMNEO become a fully open standard?

Program Transport
OMNEO's program transport component is the result of a partnership between Bosch Communications Systems and Audinate Pty of Australia. OMNEO uses Audinate's Dante networking technology to provide standards-based, routable IP media transport.
In the near future, Dante will use RTP, a public standard protocol for media transport over IP networks. Current standards work is underway that will enhance RTP to make it use the features of AVB networks. Once this work is complete, OMNEO program transport will be compliant with public standards, including routable AVB solutions.

System Control
OMNEO's system control component is a Bosch Communications Systems development descended from the Audio Engineering Society's AES-24 protocol. Named OCA, for Open Control Architecture, it includes many features for flexibility, reliability, security, and compatible growth over the years.
Bosch Communications Systems intends OCA to become an open public standard. To this end, Bosch Communications Systems is working with the OCA Alliance, a group of companies interested in open system control standards for media networks. The Alliance's goal is to enhance the definition of OCA to meet all needs, then to pass the definition to a public standards development organization for final ratification as an official open public standard. Once OCA is ratified, OMNEO system control will be compliant with public standards.

Bosch Security Systems

For more information please visit
www.boschcommunications.us/omneo