

OMNEO

Media Networking Architecture



BOSCH

Invented for life



OMNEO

Bosch Security Systems has recently introduced the OMNEO open media networking architecture. Through the use of standard communication protocols, OMNEO will offer professional media network designers improved capabilities for integrating diverse products from multiple manufacturers.

OMNEO has two main components: (1) An media program transport protocol suite that offers low latency, high-quality multichannel media 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 Security Systems family of communications products requiring network media transport and system control. This includes the products of Bosch Public Address and Conferencing, Dynacord, Electro-Voice, RTS, and Telex.

What 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 Security Systems family of brands beginning in 2012. Over the next few years, OMNEO will become a central feature of Bosch Security Systems communications product offerings.

Is OMNEO proprietary?

No. Bosch Security 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, are complete. Bosch Security 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 Security 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 become compliant with a public standard protocol for media transport over IP 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 Security 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 Security Systems intends OCA to become an open public standard. To this end, Bosch Security 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
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product offering, please visit
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