

TANDBERG HELPS YOU KEEP CONTROL OVER WHO IS USING YOUR NETWORK AND WHAT THEY ARE ACCESSING, AND ASSURES ADEQUATE LEVELS OF PRIVACY.

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TANDBERG Security Advantage

It is now possible to share your organization's valuable and sensitive information with more people than ever before. The Internet is a forum for public information exchange. Extranets provide suppliers and customers access to data that enhances their productivity. Remote workers have come to expect the same level of resources as if they were in the office. Innovations such as TANDBERG's firewall traversal solution are making it possible to communicate across boundaries.

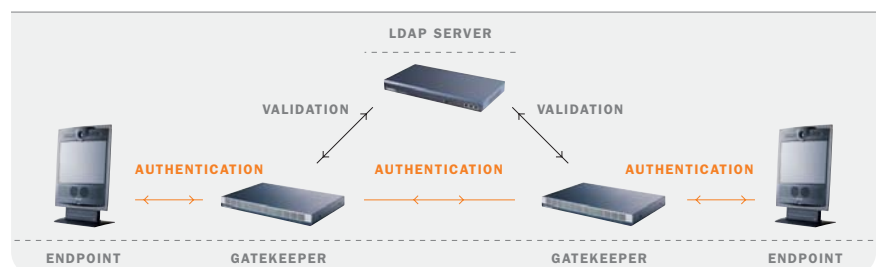
But, with open communication comes risk. Network administrators cite security as one of their highest concerns in managing communication tools. Financial institutions are constantly sharing information that must be restricted. The health care industry is overwhelmingly concerned with patient confidentiality. The fact is that any organization needs to protect its information as well as its resources.

TANDBERG is a pioneer in developing solutions to resolve security concerns. By addressing the issue of security at three levels – authentication, policy and encryption – TANDBERG provides a complete solution to protect your video network. TANDBERG helps you keep control over who is using your network and what they are accessing, and assures adequate levels of privacy.

Authentication

Authentication is the process for determining who has the right to be on your network. It ensures that there are no rogue endpoints within your network and that no external systems have attached themselves to your valuable resources or are making use of the services you provide. TANDBERG is taking the well-defined model for security on an IP network and applying it to video communication.

TANDBERG software integrates layers of authentication throughout the entire solution set. With H.325 authentication, each system has a unique user name and password, not just in the endpoints, but also in the gatekeeper, border controller and gateway. At each connection point the caller and the network resource are verified.



Encryption is a way of scrambling data so that only those who know how to unscramble the data get access to it. With encryption, you can rest assured that all your video communication is private

Policy

Your policies define how your network's resources are to be allocated. Who can access what types of services? Who can make calls to whom and at what bandwidth? The implementation of policy ensures that people unfamiliar with your procedures do not accidentally gain access to services or bandwidth to which they are not entitled or cause any detrimental effect to overall service delivery.

TANDBERG gives you the controls to set your video policies, allowing you to define concise network utilization rules. You have the ability to allow or reject calls from outside your network, define which endpoints can make gateway calls, and set which endpoints can make use of firewall traversal services. TANDBERG's Policy solution is standards-based, making use of Call Processing Language (CPL) defined under RFC 3880.

Secure Conference – Standards-Based Embedded Encryption

The final stage in TANDBERG's security solution is encryption. Encryption is a way of scrambling data so that only those who know how to unscramble the data get access to it. With encryption, you can rest assured that all your video communication is private. Embedded encryption allows you to enjoy the full array of features without any degradation in performance, unlike third-party, non-embedded encryption solutions.

All encryption methods use common algorithms. Security comes from the key, a number which is passed to the algorithm to tell it how to encrypt the data. A commonly employed communications encryption method is the "Data Encryption Standard" (DES). DES works by encrypting data with a 56-bit long key. Triple DES (3DES) is an enhancement to DES that effectively runs 112-bit long keys. DES and 3DES are both widely used in commercial and non-defense government communications today.

The new AES standard with 128-bit keys has been approved by the U.S. Government to protect sensitive, unclassified data and will replace the use of 3DES.

Levels of Encryption

ENCRYPTION LEVEL	STANDARD	ENCRYPTION LEVEL	NECESSARY EQUIPMENT
HIGH	—	Military	Custom made external boxes
↑ MEDIUM	AES	Medium-risk enterprises	Full TANDBERG product line with Secure Conference AES ¹
	DES	Commercial and non-commercial enterprises	Full TANDBERG product line with latest software with embedded Secure Conference DES
NONE	UNSECURE		Other video conferencing equipment

¹ Available as a software option on all TANDBERG endpoints, and included in the TANDBERG MCU.

To provide a higher degree of security than both DES and 3DES, a new standard called Advanced Encryption Standard (AES) has been developed. The new AES standard with 128-bit keys has been approved by the U.S. Government to protect sensitive, unclassified data and will replace the use of 3DES.

TANDBERG supports all of the following encryption standards: AES, DES, H.233, H.234 and H.235 with an extended Diffie-Hellman key distribution on H.323, H.320 and leased lines.

TANDBERG Secure Conference is “on” by default. This automatically generates an encrypted call, which is indicated with an on-screen lock symbol. A single lock symbol is displayed for DES. A double lock symbol is displayed for AES.

Secure Conference DES and AES are both available in point-to-point calls and multipoint calls on ISDN and IP up to 768 kbps on the full TANDBERG product line. TANDBERG’s implementation of the AES and DES cryptographic algorithms has been validated as conforming to Federal Information Processing Standards (FIPS) by a laboratory accredited by The National Institute of Standards and Technology (NIST).

Authentication. Policy. Encryption. A complete Security solution from TANDBERG.

For more information on TANDBERG Security, visit www.tandberg.net.

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