

TANDBERG SOLUTIONS

TANDBERG Expressway™



IP IS EVERYWHERE. FAST. EFFICIENT. COST EFFECTIVE.

Organizations are fast adopting IP networks to handle their data requirements — e-mail, intranet, streaming, IM, and Voice over IP (VoIP).

IP IS A GREAT CHOICE FOR VISUAL COMMUNICATION. SCALABLE. SECURE. MANAGEABLE.

Any data network capable of supporting high speed, high volume data traffic can be used for video over IP — often with little or no modification. With an IP network in place, organizations can easily take advantage of video over IP at little or no incremental cost. In addition, video only requires bandwidth when it is being used, so it is a cost-effective alternative to dedicated lines.

WHY ISN'T EVERYONE USING IP FOR VIDEO COMMUNICATION?

Until now, IP was used to dial within the enterprise and ISDN was used to call between enterprises. ISDN is expensive and not available everywhere, but IP is already present in most enterprises for data — why not use it for video? In the past, getting video securely through firewalls and the lack of a universal dialing plan for IP made it difficult — or impossible — to call between enterprises on IP.

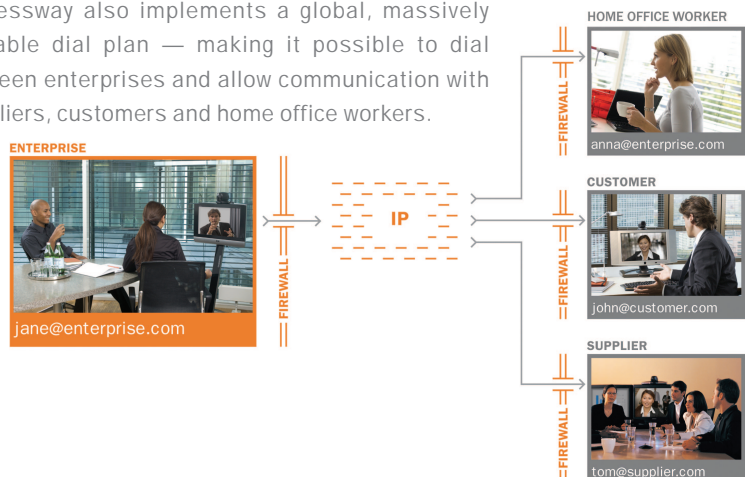
THE CHALLENGES

FIREWALLS: Support for real-time video communication with network firewalls can require the opening and closing of multiple communication ports during a single session. Even when a port can be securely opened, essential features such as encryption are lost. This technology challenge has prevented companies and organizations from placing affordable video calls outside their own networks on a large scale.

DIAL PLANS: Without a universal dial plan for video over IP, there is no way to place calls between organizations. Most organizations utilize shared IP addresses without a mechanism to route the external calls.

THE SOLUTION: TANDBERG EXPRESSWAY™

TANDBERG's Expressway solution for firewall traversal creates a secure path through firewalls without compromising your IP security. With support for URI dialing, Expressway also implements a global, massively scalable dial plan — making it possible to dial between enterprises and allow communication with suppliers, customers and home office workers.



TANDBERG Expressway™

HOW DOES IT WORK?

Firewall Traversal

Required components — TANDBERG Border Controller and either a TANDBERG MXP endpoint or the TANDBERG Gatekeeper

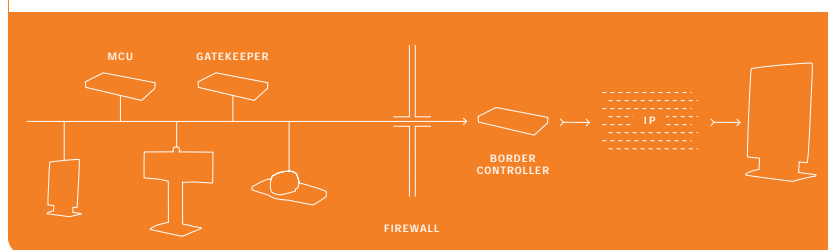
TANDBERG MXP endpoints: MXP endpoint and the Border Controller create a secure path through the firewall and the MXP endpoint connects to the outside world through the Border Controller

Other endpoints: Any endpoint registered to the TANDBERG Gatekeeper can utilize the Gatekeeper and the Border Controller to create the secure path through the firewall and connect to the outside world through the Border Controller.

Dialing Plans

Support for URI dialing — between different private address spaces using email style URIs.

The Gatekeeper sits behind the enterprise firewall: the Border Controller sits beyond the enterprise firewall



TANDBERG's Expressway solution enables multiple devices to continue to share a single public address and avoid costly upgrades. Using URI-dialing, Expressway translates e-mail type addresses so that the destination of a video call can be quickly and accurately determined and the call placed successfully.

It is practical technology that keeps video traffic flowing between your enterprise, supply chain and customers.

- Home office workers simply plug an MXP endpoint into their DSL router and the MXP endpoint registers with the Border Controller — the endpoint becomes part of the enterprise dial plan (simply dial 4 digit extension as if they were in the office!) and no endpoint configuration is needed.
- Branch offices benefit from being a part of the enterprise dial plan and utilize the same 4 digit extensions as the main office or headquarters.
- Enterprise to enterprise calling is now possible — URI dialing and e-mail style addresses allow inter-company video calls to take place as easily as a phone call or e-mail.

VIDEO OVER IP. BETTER COMMUNICATION. HIGHER PRODUCTIVITY.

With Expressway, TANDBERG envisions a dramatic expansion of the video communication community to include virtually anyone in any organization — suppliers, customers, and even home office workers will be able to visually connect to their colleagues — from anywhere, at any time.

For more information on TANDBERG Expressway technology, visit www.tandberg.net

TANDBERG WORLD HEADQUARTERS
Philip Pedersens vei 22
1366 Lysaker, Norway
Tel: +47 67 125 125
Fax: +47 67 125 234
Video: +47 67 117 777
E-mail: tandberg@tandberg.net

200 Park Avenue, Suite 2005
New York, NY U.S.A. 10166
Tel: +1 212 692 6500
Tel: +1 800 538 2884 (toll free in the U.S.)
Fax: +1 212 692 6501
Video: +1 212 692 6535
E-mail: tandberg@tandbergusa.com

www.tandberg.net