

TANDBERG

See: productivity

See: passion

See: performance

TANDBERG Product Portfolio

Opening salutation:

Welcome to the TANDBERG University prerequisite TANDBERG Product Portfolio lesson. Before commencing you are requested to ensure that you have completed the Introduction to the TANDBERG University eLearning Experience Module that is available through this portal.

Lesson: TANDBERG Product Portfolio

Learning Objectives

On completion of this lesson you will understand the key features and capabilities of the products in the Tandberg product portfolio and understand how they fit into the Total Tandberg Solution. You will be able to:

- Identify hardware components (including end points, peripherals and infrastructure) and explain their uses
- Explain the use of different types of endpoints
- Locate and use reference material to access specifications in order to answer customer questions on the exact capabilities of each product.



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TANDBERG Product Portfolio

Learning Objectives

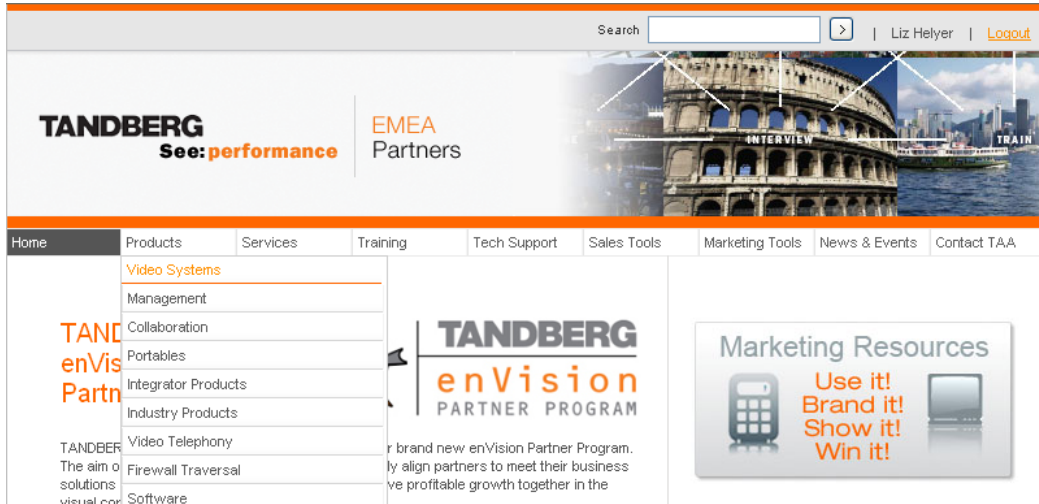
Locate and use reference material to access specifications in order to answer customer questions on the exact capabilities of each product.

Identify hardware components (including end points, peripherals and infrastructure) and explain their uses

Explain the use of different types of endpoints

Where to find information

www.tandbergpartners.com



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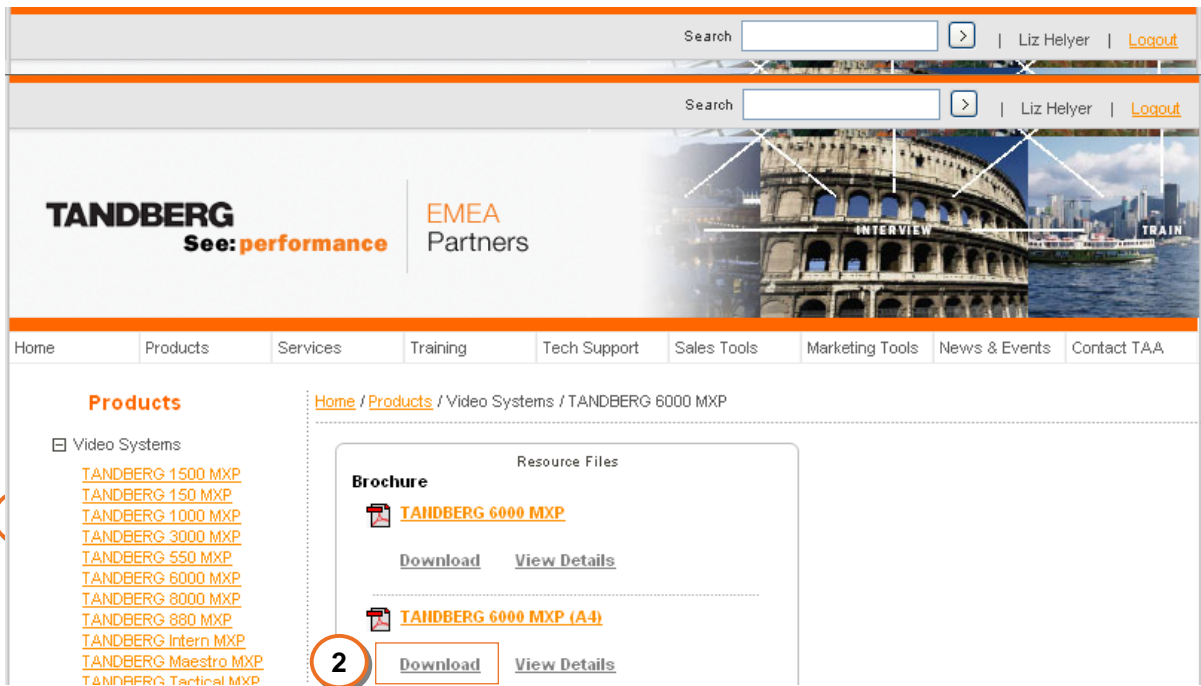
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TANDBERG Product Portfolio

The product portfolio lesson is designed to give you an overview of the types of products TANDBERG provides along with their key features and how they fit into the Total Tandberg Solution. You will often need to provide detailed product information to a client and should then refer to the large amount of technical documentation that is available via the Tandberg Partner web site.

To access this portal you must first log onto **www.tandbergpartners.com** and then select **Training**. To access the technical specifications you can select **Products** from the Tandberg Partners home page.

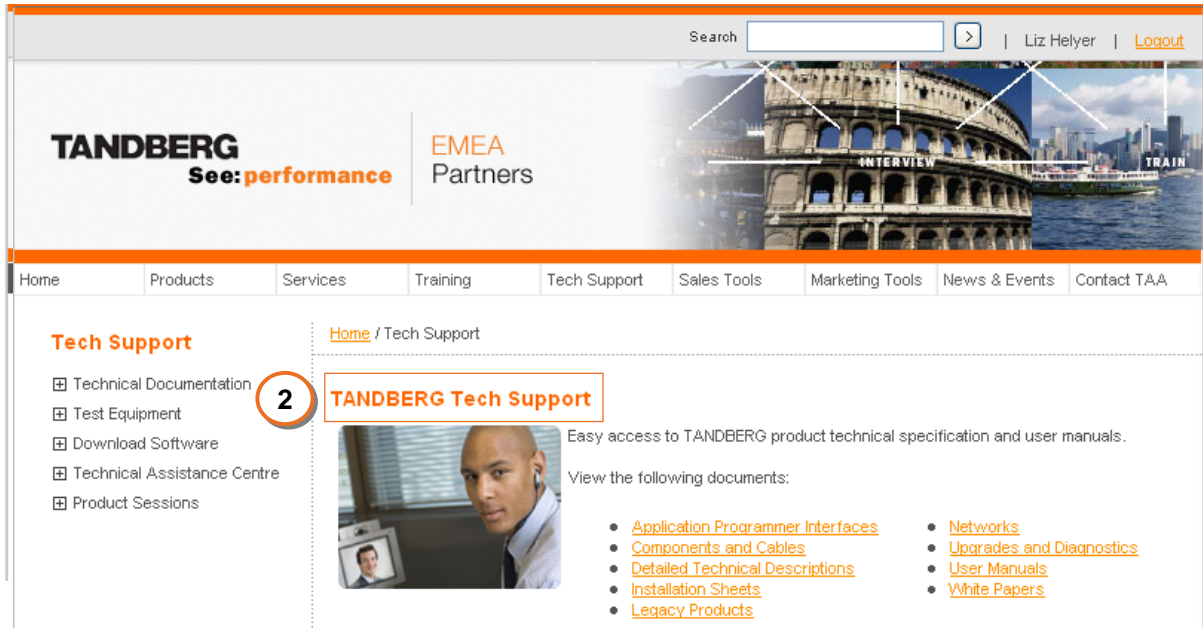
Where to find information



The Products page has an expandable list on the left side which will give you access to the product documentation for any TANDBERG product.

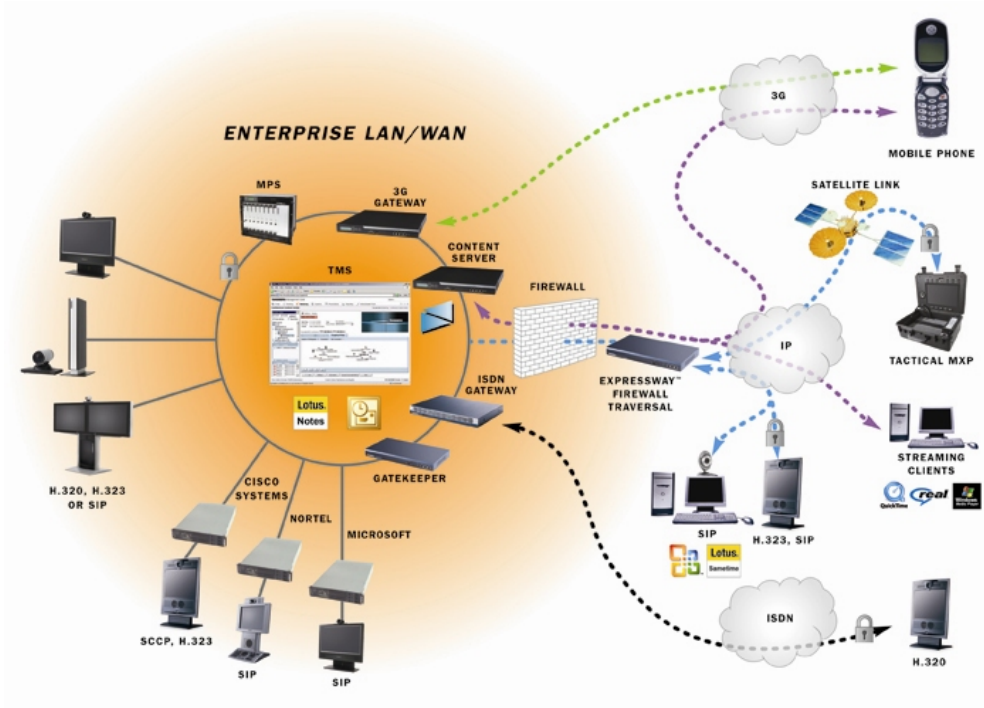
For example, clicking on the 'TANDBERG 6000 MXP' (indicated above by "1") brings up the product documents for the 6000 MXP which can then be downloaded (indicated above by "2") in the format appropriate for your region.

Where to find information



Other very useful technical information on the products is also available from the TANDBERG Partner site. From the home page, click on the **Tech Support** link and you can access all the technical documentation and whitepapers that are available, including full administrator guides for each product.

TANDBERG Product Deployment Scenario



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TANDBERG Product Portfolio

Integrating visual communication with existing networks and desktop tools increases familiarity and ease-of-use, further driving collaboration, productivity and Return on Investment (ROI).

TANDBERG offers end-to-end visual communication solutions that are tailored to the specific needs of each customer. Through our management tools, video systems, infrastructure and services, we provide the best possible video experience.

Endpoint Portfolio










Telepresence	Group – Medium / Large		
 <p data-bbox="343 689 375 716">T3</p>  <p data-bbox="406 996 438 1023">T1</p>  <p data-bbox="311 1064 459 1081">See: knowledge</p>	 <p data-bbox="673 689 767 712">Profile 42"</p>	 <p data-bbox="858 689 952 712">Profile 52"</p>	 <p data-bbox="1114 689 1249 712">Profile 52" Dual</p>  <p data-bbox="858 958 973 981">Maestro MXP</p>
	slide 7	TANDBERG Product Portfolio	

TANDBERG’s endpoint portfolio provides solutions for many different user requirements while maintaining a common user interface.

Group systems are usually deployed in meeting rooms within organizations and, as the name suggests, are used for groups of people in a single location. Individual systems are designed to be placed on a desk and used within an office environment.

TANDBERG Movi is an individual video conference solution for the desktop but unlike the other endpoint solutions is actually a server-based application. Users need only a web camera, microphone and Internet Explorer to use the Movi capability.

Endpoint Portfolio

Group - Small	Individual
 <p>3000 MXP</p>  <p>SET TOP 990 MXP 880 MXP 770 MXP</p>  <p>EDGE 95 MXP 85 MXP 75 MXP</p>  <p>TANDBERG See: knowledge</p>	 <p>1700 MXP</p>  <p>1000 MXP</p>  <p>E20</p>  <p>MOVI</p>  <p>150 MXP</p> <p>slide 8</p> <p>TANDBERG Product Portfolio</p>

Integration Portfolio

Integrator Packages	Industry Products
 <p>C90</p> <p>C60</p>	 <p>Compass MXP</p> <p>FieldView</p> <p>Intern MXP</p>
 <p>6000 MXP</p> <p>3000 MXP</p> <p>HD</p>	 <p>Tactical MXP</p> <p>Utility MXP</p>

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TANDBERG Product Portfolio

In addition, TANDBERG systems can be purchased for integration into purpose-built audio visual installations. The specialist solution range is also available for applications such as military, medical and kiosk solutions.

Peripherals



**Additional
microphone**



DVD player/recorder



Additional camera



Additional monitor



Video Switch



Document camera



Laptop

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TANDBERG Product Portfolio

TANDBERG uses a series of peripheral devices that further enhance the video conference experience. These include:

- Additional microphones for larger rooms
- Additional cameras to show larger audiences or for a presenter
- Additional monitors to show both the far end and a pc in full screen
- Document cameras used for showing paper documents and objects
- Laptops to show presentations
- Video switch to enable full control of up to 6 cameras
- DVD players to both record a conference and play a DVD to a remote site

Many companies who sell TANDBERG hardware also build more complex installations which include additional audio visual equipment all controlled by a custom control system.

Network Infrastructure Products

- Gatekeepers
- Multitpoint control units
- Gateways
- Firewall traversal solutions
- Management applications
- Streaming devices



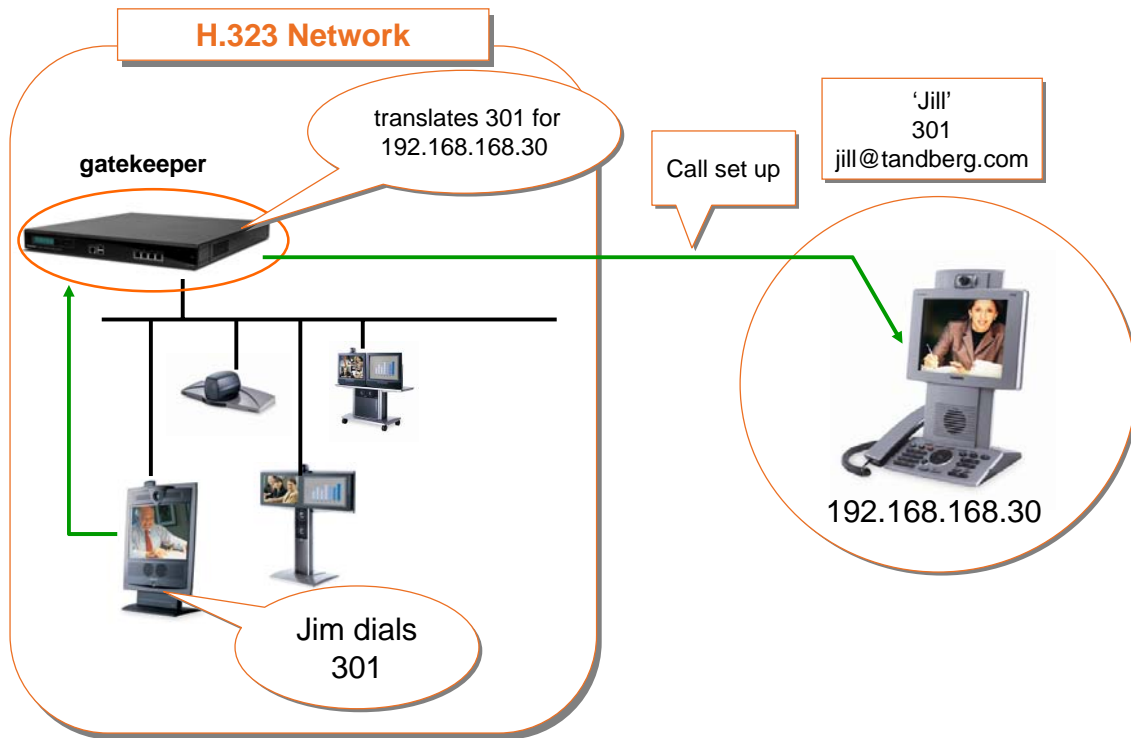
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TANDBERG Product Portfolio

TANDBERG uses a series of network infrastructure products that further enhance the video conference experience. These include: Gatekeepers, Multitpoint Control Units or MCUs, Gateways, Management applications, Streaming devices and Firewall traversal solutions.

What is a Gatekeeper?



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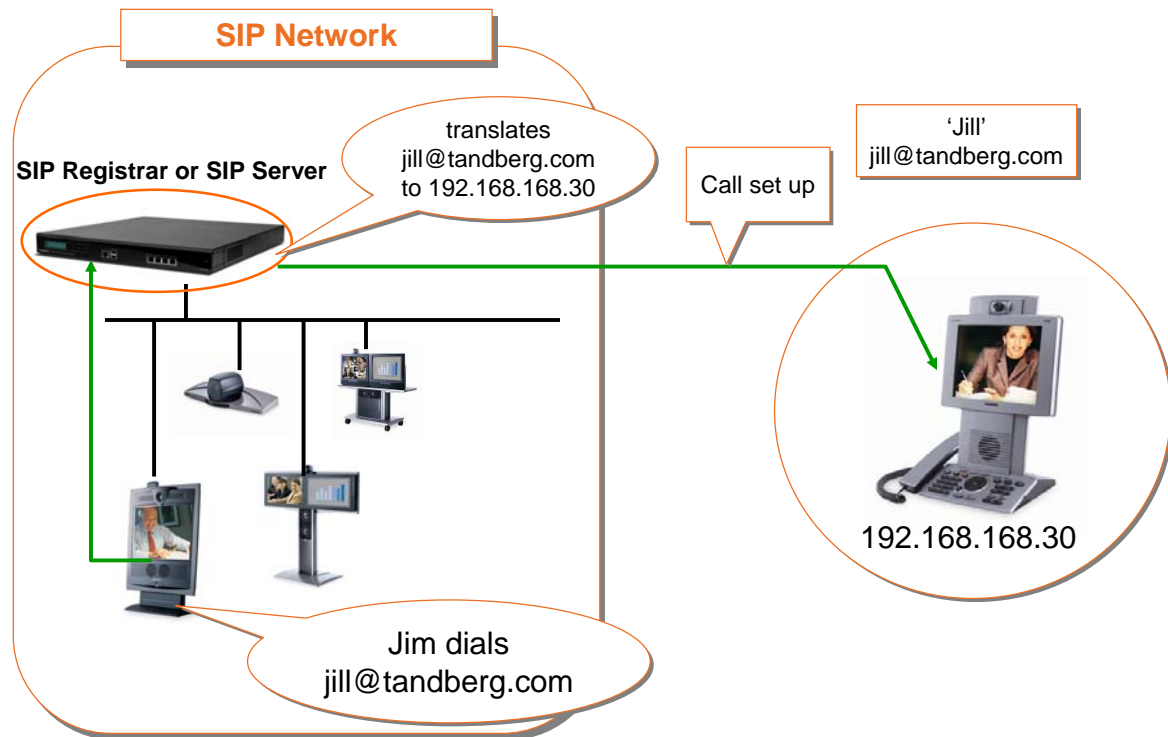
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TANDBERG Product Portfolio

What is a Gatekeeper?

Basically, a gatekeeper is a management device for H.323 video conference networks. Gatekeepers provide address translation from an IP address to a more user-friendly number or name. For example, instead of dialing 192.168.168.30 you can dial 'Jill' or 301 or even jill@tandberg.com. Gatekeepers provide a way in which organizations can control the amount of bandwidth calls can take over the network. Also, they provide a control mechanism which ensures only the end points you want to be able to make a call can do so.

What is a SIP registrar?



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TANDBERG Product Portfolio

A SIP registrar or SIP server is very similar to a gatekeeper in functionality but for a SIP-based network as apposed to an H.323-based network. A SIP registrar provides address translation and some bandwidth management activities.

TANDBERG gatekeeper/sip registrar products



Component	Registrations & Services	Bandwidth Management	Policy	Redundancy	SIP Proxy	H323 to SIP GW	FindMe™
Codian inbuilt gatekeeper	✓						
TANDBERG Video Communication Server	✓	✓	✓	✓	✓	✓	✓

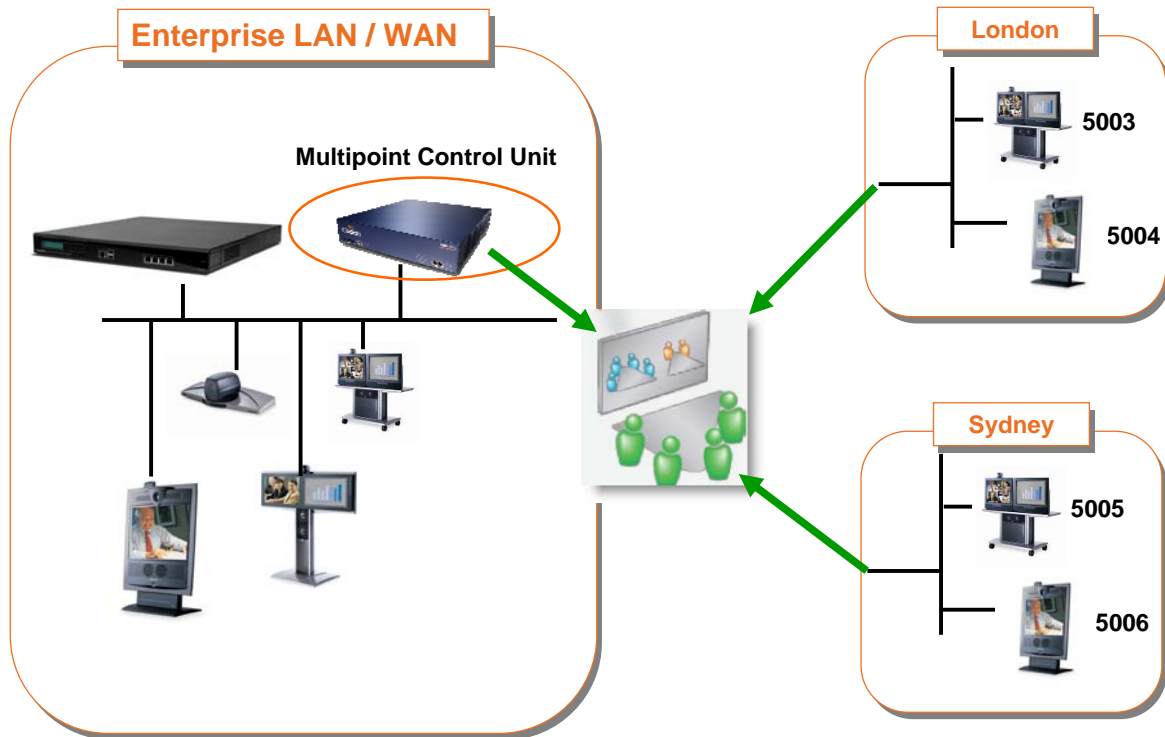
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TANDBERG Product Portfolio

The TANDBERG product range includes a comprehensive gatekeeper and the video communication server or VCS. The VCS is both a gatekeeper and a SIP server which, as well as providing both services, can also convert SIP to H.323 and vice versa.

What is a Multipoint Control Unit?



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TANDBERG Product Portfolio

What is a multipoint control unit?

A Multipoint control unit or MCU is a device that connects multiple sites into a single conference.

TANDBERG MCU products



	H.323	SIP	Maximum no. connections	Full HD	Universal port	Conference me	Universal Transcoding
Endpoint inbuilt MCU	✓	✓	5	✓			
Codian 4200	✓	✓	40		✓	✓	✓
Codian 4501	✓	✓	12	✓	✓	✓	✓
Codian 4500	✓	✓	40	✓	✓	✓	✓
Codian 8000	✓	✓	360	✓	✓	✓	✓
MPS 200	✓	✓	40				
MPS 800	✓	✓	160				

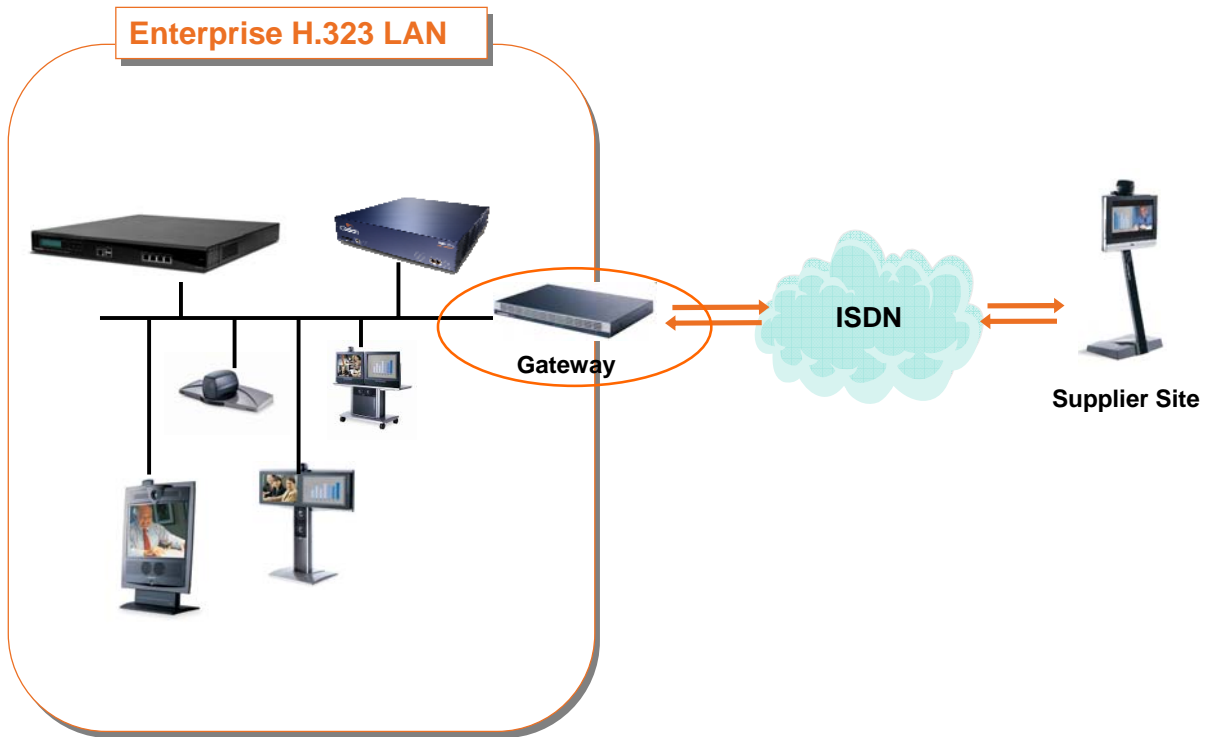
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TANDBERG Product Portfolio

The MCU product range includes both the Codian and MPS range of products, both ranges have different size solutions for different sized organizations.

What is a Gateway?



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TANDBERG Product Portfolio

What is a Gateway?

A gateway provides a connection from one network type to another. The most common type of gateway converts H.320 calls on an ISDN network to H.323 calls on an IP network and vice versa.

TANDBERG Gateway products

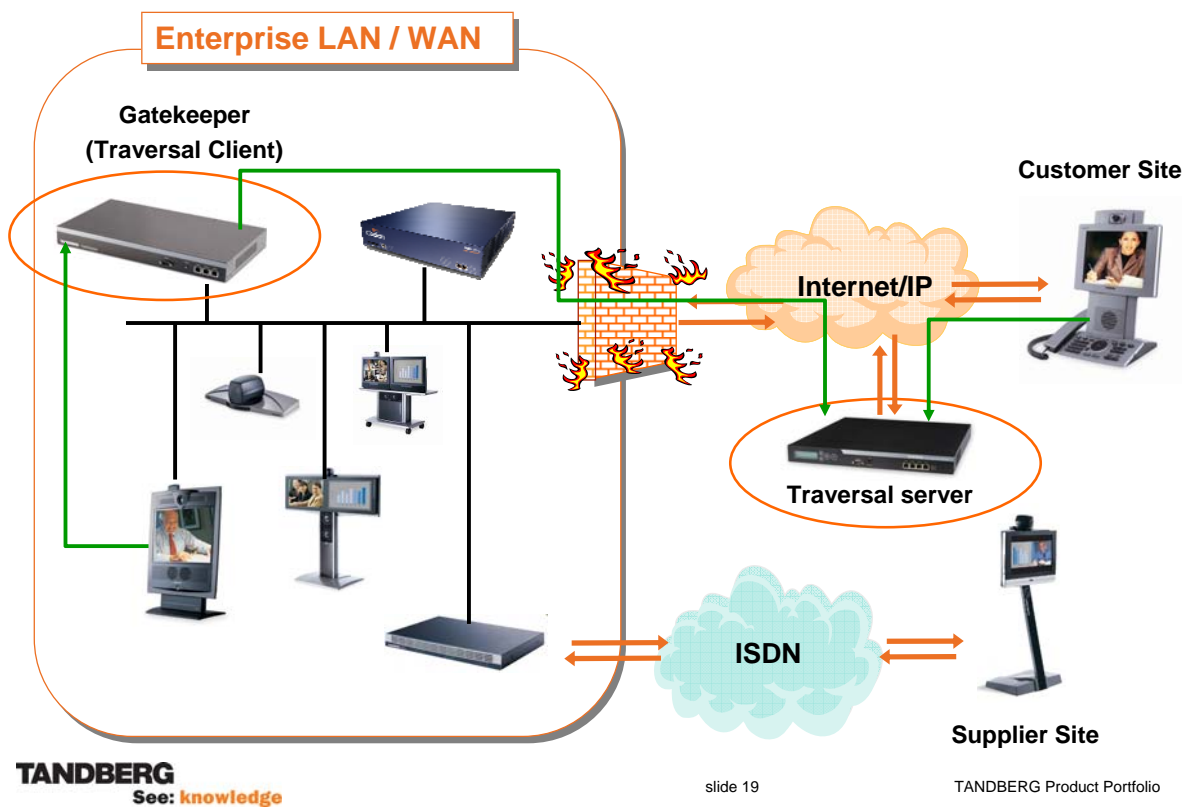


	H.323 to H.320	3G to H.323	PSTN to H.323	Maximum no. connections at 384kbps	No. blades	Full HD
TANDBERG Codian 3240	✓		✓	20	n/a	✓
TANDBERG Codian 8000 gateway blade	✓		✓	40 per blade	9	✓
TANDBERG MPS 200 gateway option	✓		✓	10 per blade	2	
TANDBERG MPS 800 gateway option	✓		✓	10 per blade	8	



The ISDN Gateway product range includes the Codian and MPS products. Both ranges have different size solutions for different sized organizations.

What is a firewall traversal solution?



A firewall traversal solution is a method of allowing video conference traffic into and out of a corporate network. Almost all corporate networks are protected by a firewall.

Basically, a firewall is the first line of defense for your network and the basic purpose of a firewall is to keep uninvited guests from browsing your network. A firewall can be a hardware device or a software application and generally is placed at the perimeter of the network to act as the gatekeeper for all incoming and outgoing traffic. Firewalls also control traffic coming out of an organization but these controls are not as strict.

Video conference calls are often stopped by firewalls. Allowing video conference calls through a firewall can be achieved in several ways including opening up parts of the firewall or using a gateway solution to bypass the firewall, both of these solutions can be viewed as a security risk. The best solution is to use a firewall traversal solution. The traversal solution ensures that all the traffic still travels through the firewall but traffic is always initiated from the inside to the outside. In the example shown, a traversal server is placed outside of the firewall and a traversal client is placed inside. A TANDBERG gatekeeper or a TANDBERG VCS can be used as a traversal client so the only extra hardware is the traversal server which is sometimes referred to as a border controller. Calls into the organization are now handled by the traversal server. The traversal server receives the incoming call then instructs the traversal client to establish a call from the endpoint to the traversal server ensuring the call is made from the inside of the firewall to the outside. The user at each end is unaware of the call set up.

TANDBERG Traversal Server products



Component	Registrations & Services	Bandwidth Management	Policy	Redundancy	SIP Proxy	H323 to SIP GW	FindMe™
TANDBERG Video Communication Server	✓	✓	✓	✓	✓	✓	✓

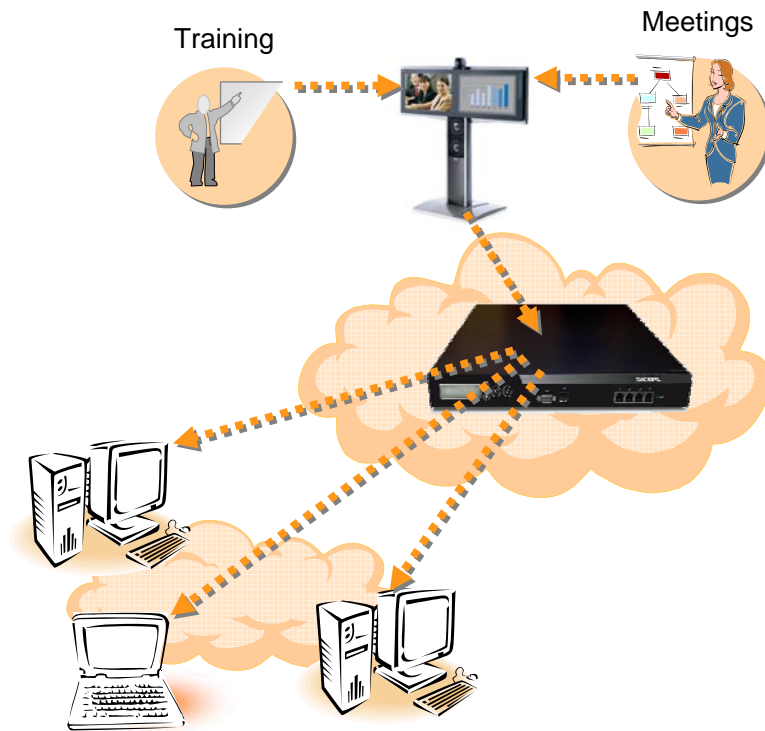
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TANDBERG Product Portfolio

The TANDBERG product range has two devices, the border controller and the Video Communications Server. The border controller is an H.323 device and is normally paired with the TANDBERG gatekeeper. The Video Communications Server is paired with the Traversal server option which normally has a second Video Communications Server with the traversal client option.

What is a Streaming Server?



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TANDBERG Product Portfolio

A streaming server is a device used to record conferences that can either be viewed live or be viewed at a later date using a streaming client such as Windows Media Player.

TANDBERG Streaming Server products



Component	Number of concurrent recordings	Storage space	Windows media	Real time	Quick time	IPOD and Zune	Stream back to H.323	Editin g features
Codian IPVCR	10	600 hours	✓	✓	✓		✓	
Content Server	5	600 hours + NAS compatible	✓	✓	✓	✓		✓

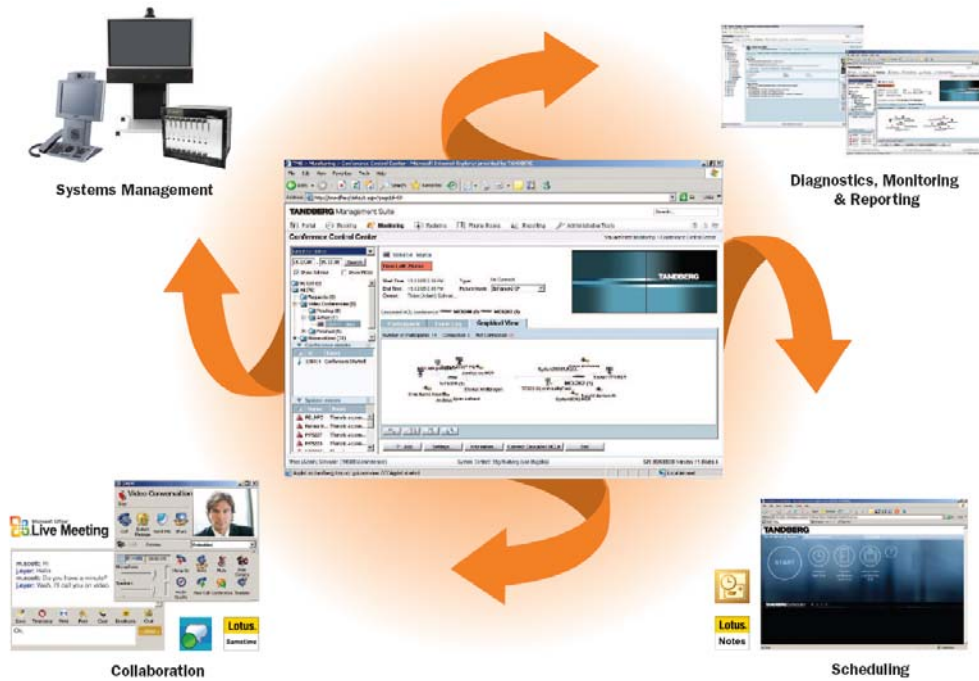
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TANDBERG Product Portfolio

The TANDBERG product range has two devices, the Tandberg Codian IPVCR and the Tandberg Content Server.

What is TANDBERG Management Suite?



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TANDBERG Product Portfolio

The TANDBERG Management Suite or TMS is a server-based application that provides a total management solution for an organization. Using TMS can greatly simplify the management and usability of any video conference network. TMS provides scheduling and automatic call launching, diagnostics and helpdesk tools, reporting tools, system management, configuration and management tools.

In addition TMS can be fully integrated with existing scheduling management software such as Lotus Notes or Microsoft Outlook applications as well as other communication tools such as Office Communicator and Lotus Sametime.

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See: passion

See: performance

TANDBERG Product Portfolio

Closing salutation:

This concludes the TANDBERG Product Portfolio lesson. You are now advised to proceed to the next pre-requisite lesson that is available as part of your remote learning syllabus accessible through the TANDBERG University portal. Thank you.
