



TANDBERG Video Communication Server Control Application

The TANDBERG Video Communication Server (VCS) Control Application enables SIP proxy and call control as well as H.323 gatekeeper functionality. It provides organizations the ideal platform to migrate to SIP, utilize mixed protocol devices, and future-proof existing H.323 investments.



DESIGN FEATURES

- Designed to work with any H.323 or SIP device
- Appliance-based architecture enables for easy deployment and high reliability
- Full multi-vendor support
- Secure and reliable
- 1U rack mountable

APPLICATION FEATURES

- Flexible zone configuration with named zones and default zone
- Supports inter- and intra-zone bandwidth control
- Provides IPv4/v6 Translation Services
- Policy Engine for processing calls
- URI and ENUM Dialing
- Device authentication using H.235
- Embedded setup wizard for easy installation

PERFORMANCE FEATURES

- Supports up to 2,500 registered devices and 100 concurrent traversal calls
- Up to 200 neighboring zones (traversal zones included)
- HTTPS, SSH and SCP for secure management
- Uses compact flash for critical storage and a hard drive for other functions

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TANDBERG VCS MAIN FEATURES

H.323 gatekeeper (Control Application)
 SIP Proxy/Registrar (Control Application)
 Firewall Traversal (Expressway™) functionality enabling secure traversal of any firewall or NAT. (Expressway Application)
 Registration of traversal-enabled endpoints (Expressway Application)
 STUN discovery and STUN Relay services. (Expressway Application)
 SIP and H.323 support, including SIP/H.323 gatewaying for locally registered endpoints
 IPv4 and IPv6 support, including IPv4/IPv6 gatewaying
 SIP and H.323 gatewaying for non-registered endpoints
 Bandwidth management on both a per-call and a total usage basis, configurable separately for calls within the local subzones and to neighboring systems and zones
 Automatic downspeeding option for calls that exceed the available bandwidth
 URI and ENUM dialing via DNS, enabling global connectivity
 Up to 2,500 registrations
 Up to 500 non-traversal calls
 Up to 100 traversal calls
 Up to 200 neighboring zones
 Flexible zone configuration with prefix, suffix and regular expression support
 Can function as a standalone VCS or be neighbored with other systems such as VCSs, Border Controllers, Gatekeepers and SIP proxies
 Supports up to 5 Alternate VCSs for redundancy purposes
 Optional endpoint authentication
 Control over which endpoints that are allowed to register
 Administrator Policy including support for CPL
 Embedded setup wizard via a serial port for initial configuration
 System administration via a web interface or RS-232, Telnet, SSH and HTTPS
 Can be managed with TANDBERG Management Suite 11.8 or newer

OPTIONAL FEATURES

TANDBERG FindMe™ (User Policy)
 SIP/H.323 gatewaying for non-registered endpoints
 Dual Network Interface

ARCHITECTURE

Secure appliance based architecture
 Flash memory and hard drive
 ITU-T H.323 v5 compliant
 ITU-T H.225 v4 compliant
 TANDBERG Expressway Technology
 H.323 v5 Annex O (for DNS dialing support)
 H.460.18/.19 compliant
 H.460.18 client proxy support
 Supports H.460.19 multiplexed media

RELIABILITY

Registrations survive system restart
 Fast start-up time
 Expressway process recycling within seconds
 H.225 Alternate Gatekeeper Support

SECURITY

Secure Management with HTTPS, SSH and SCP
 – Secure File Transfer
 – Inactivity Timeout
 Can lock-down IP services
 Authentication required on HTTP(S), Telnet, SSH, SCP and serial port
 Compatible with H.235 v2 and v3 enabled H.323 devices
 H.235 Authentication support
 TLS for SIP signaling

MANAGEMENT

Supports industry standards such as RS-232, Telnet, HTTP(S), XML, SNMP, SCP and SSH
 Embedded setup wizard on serial port for initial configuration
 Advanced management support and configuration with TANDBERG Management Suite 11.8 or newer
 Call logging and diagnostics
 Support for logging to a syslog server
 Local time zone aware

CALL CONTROL AND REGISTRATIONS

Supports manual registration of H.323 and SIP endpoints and API call control
 Supports H.225/Q.931, H.245 call control routed mode
 Supports H.323-SIP Interworking Encryption
 Supports H.323-SIP Interworking DuoVideo
 Registration of H.323 ID, E.164 aliases and services
 Supports Unicode (UTF-8) registration for global implementation
 Disconnect H.323 calls from the API interface
 URI Dialing
 Up to 100 traversal calls
 Up to 100 services for a single device
 Up to 2500 registered Expressway Devices
 Direct call signaling between neighbored VCSs, border controllers and gatekeepers
 Call Policy Management (RFC 3880) including Administrator Policy and User Policy (FindMe)

ZONE CONTROL

Supports Remote Zone monitoring
 Supports Remote Zone redundancy
 Supports up to 200 neighbor zones (including VCSs, Border Controllers, gatekeepers and SIP proxies)
 Supports sub-zone area definition for bandwidth management
 Flexible zone configuration with named zones and default zone
 Supports forwarding of requests to neighbor zones (including VCSs, border controllers, gatekeepers and SIP proxies)
 Registration Control (open, specifically allow, specifically deny)

BANDWIDTH MANAGEMENT

Interzone — definable call by call
 – Max bandwidth per call
 – Max aggregate bandwidth for all neighboring zones
 Intrazone — definable call by call
 – Max bandwidth per call
 – Max aggregate bandwidth
 Auto-downspeeding if call exceeds per-call maximum
 Gateway load balancing

INTERFACES

4x 10/100/1000 Base-TX Ethernet ports (RJ-45) (front)
 1x RS232 console port (RJ-45)2 (front)
 2x USB (front)

POWER

Auto-sensing 250W (Max) power supply
 90–264V AC full range @ 47–63Hz

COOLING SYSTEM

Two 40mm fans for system cooling

SYSTEM CONTROL AND INDICATIONS

1x Power LED
 1x Alarm LED
 1x Power on/off switch (rear)
 4x Act/Link/10/100 LEDs on Ethernet Ports

NETWORK

Supports DNS Addressing
 Supports IPv4 and IPv6 simultaneously
 Provides IPv4/IPv6 Translation Services

APPROVALS

Directive 73/23/EEC (Low Voltage Directive)
 – Standard EN 60950
 Directive 89/336/EEC (EMC Directive)
 – Standard EN 55022, Class A
 – Standard EN 55024
 – Standard EN 61000-3-2/-3-3
 Approved according to UL 60950 and CAN/CSA C22.2 No. 60950
 Complies with FCC15B Class A

DIMENSIONS

426(W) x 228.6(D) x 43.5(H) mm (16.8" x 9" x 1.72")
 1U rack-mount chassis

ENVIRONMENT

Operating temperatures: 0° C to 40° C (32° F to 104° F)
 Storage temperatures: -20° C to 80° C (-4° F to 140° F)
 Relative humidity: 10% to 90% (Non-condensing)

CERTIFICATION

LVD 73/23/EEC
 EMC 89/366/EEC



VCS Version X1 is ICSA Labs Certified

AWARDS



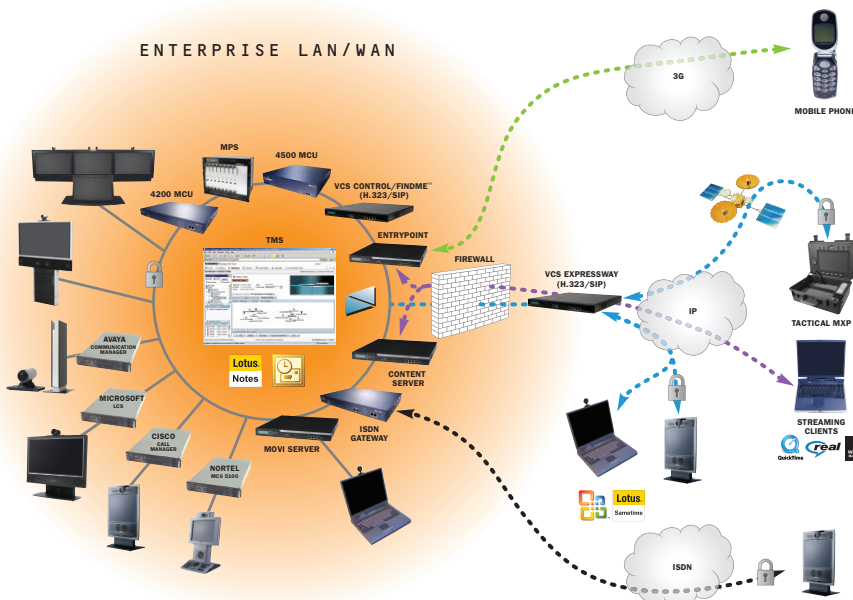
All specifications subject to change without notice, system specifics may vary.

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ENTERPRISE LAN/WAN



TANDBERG

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TANDBERG WORLD HEADQUARTERS
 Philip Pedersens vei 20
 1366 Lysaker, Norway
 Tel: +47 67 125 125
 Fax: +47 67 125 234
 Video: +47 67 126 126
 tandberg@tandberg.com

1212 Avenue of the Americas,
 24th Floor
 New York, NY USA 10036
 Tel: +1 212 692 6500
 Fax: +1 212 692 6501
 Video: +1 212 692 6535
 tandberg@tandberg.com

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