



ACTEM RUS

Endpoint Reconfiguration How to Guide

Introduction:

The purpose of this document is to explain how to reconfigure your Tandberg endpoint to work with the core infrastructure at the University of Maine. These instructions are intended for endpoints that are running f8.0 software. If you are using an older version it is recommended you upgrade your endpoint first.

The following equipment has been installed at the University of Maine.

1. Codian 30 port bridge
2. Tandberg Content Server
3. Movi server
4. Tandberg Management Server (TMS)

Going forward K-12 schools will have an opportunity to:

- Schedule a bridge call to make a multi-site video call
- Setup an ad-hoc multisite video call using the bridge
- Record and archive a video conference using the Content Server
- Download MOVI which will allow users to make a video call using your PC laptop or Desktop (Mac version scheduled for 2010)

The following instructions will help you connect your video endpoint to interface with the University System Core Infrastructure (VCS) so you will be able to leverage the solutions outlined above. For instructions on how to connect to the bridge, content server, or MOVI please refer to the following separate documents:

- Guide to making a bridge call
- Connecting to the Content Server How to Guide
- Downloading and Using MOVI for Desktop Video

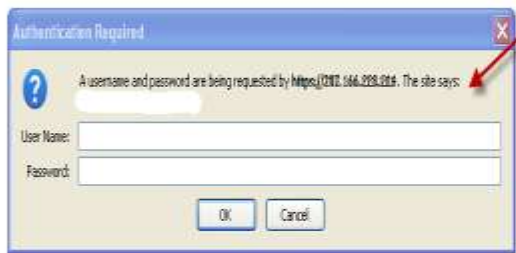
All documents will be posted on the LIVE-C website at www.livec.org or you can contact the University System Help Desk at 1-888-FOR-MSLN or support@msln.net.

Connecting to the University System Video Conferencing Network

1. Make sure your video endpoint is powered on and connected to the internet.
2. From any computer open a web browser and follow the instructions listed below:



1. Open a browser and connect to the Web Interface of the Tandberg Endpoint
Use Https://



2. Login to the Endpoint

Default Information:
Username: admin
Password: TANDBERG



File Edit View History Bookmarks Tools Help

207.256.229.214

TANDBERG Management: WASHBURN...

Overview Phonebook System Status System Configuration Endpoint Configuration

Front Overview Call Streaming Text Chat

TANDBERG

3. Click on the System Configuration Tab

WELCOME TO WASHBURN ELEMENTARY

Dialin numbers:

My ISDN number:
My IP number: 4554304
My IP name: washburne@networltime.net
My SIP URI: washburne@networltime.net

Usage:

Video calls: 1 of 1
Telephone calls: 0 of 0
ISDN channels: 0 of 0
Total bandwidth: 64 kbps of 1152 kbps

System Information:

System Name: WASHBURN ELEMENTARY
Software version: R8.0 NTSC
Product: TANDBERG Edge (SIP)
Location:
Contact Person:

System Status:

ISDN: Not installed [More](#)
H.323: [More](#)
SP: [More](#)

Done

Now: Partly Sunny, 62 F Wed: 76 F Thu: 81 F Fri: 79 F Sat: 71 F Sun: 70 F Mon: 72 F

The screenshot displays a web browser window with the URL 'TANDBERG Management: WASHEURN...'. The browser's address bar shows 'http://192.168.1.100:8080'. The page title is 'TANDBERG Management: WASHEURN...'. The navigation menu includes 'Overview', 'Phonebook', 'System Status', 'System Configuration', and 'Endpoint Configuration'. The 'System Configuration' menu is expanded, showing sub-items: 'IP', 'H.323', 'SIP', 'Wireless LAN', 'SNMP', 'Dialup', 'Network Profiles', 'Misc', 'Upgrade', and 'Certificate Management'. The 'IP' sub-menu is selected, and the 'IP Configuration' page is displayed. The page contains several configuration sections: 'IP Configuration Interface 1' with fields for Assignment (Static), IP Protocol (IPv4), Address (192.168.1.100), Subnet Mask (255.255.254.0), Gateway, and Ethernet Speed (Auto); 'DNS Interface 1' with fields for Address 1 through Address 5 and Domain; 'IP Services' with fields for NTP Mode (Manual) and NTP Address (192.168.1.100); and 'IEEE802.1x' with fields for Mode (Off), Anonymous Identity, Identity, Password, EAP-MD5 (On), and EAP-TLS (On). A red arrow points from the 'H.323' icon in the navigation menu to the text '4. Click on the H.323 icon'. A warning message states: 'For the settings to take effect, the unit must be reset after pressing 'save!''. The Windows taskbar at the bottom shows the system tray with icons for network, volume, and power, along with a weather forecast for 'Nov: Partly Sunny, 49°F' and a weekly forecast.

The screenshot shows the Tandberg Management System interface for 'Washburn Elementary School'. The 'H323 Configuration' page is active, displaying various settings sections:

- H323 Settings:** Call Setup Mode (Gatekeeper), H.323 Auto Prefix (empty), E.164 Alias (4554504).
- Gatekeeper Settings:** H.323 ID (washburn@networkmaine.net), Gatekeeper Discovery (Manual), Gatekeeper Address (169.244.81.111), Authentication Mode (OH), Authentication ID (empty), Authentication Password (empty), Multiple H.323 Aliases (OH).
- Call Manager Settings:** Call Manager Address (empty).
- Advanced Settings:** NAT Mode (OH), NAT Address (127.0.0.1), RSVP (OH), QoS Type (Precedence), H.323 Ports (Dynamic).
- QoS Mode Configuration:** A table with columns 'Precedence' and 'Diffserv'. Rows include Telephone Audio, Telephone Signaling, Videotelephony Audio, Videotelephony Video, Videotelephony Data, and Videotelephony Signaling, all set to 'Auto'.
- Type of Service:** OH.

Annotations with red arrows point to specific fields:

- An arrow points to the 'H.323 ID' field with the text: "5. Change the H.323 ID to match the SIP address. schoolname@networkmaine.net".
- An arrow points to the 'Gatekeeper Address' field with the text: "5a. Change the gatekeeper address. Behind a firewall: 169.244.81.125 Not behind a firewall: 169.244.81.111".
- An arrow points to the 'Save' button at the bottom left with the text: "6. Save your settings".

The screenshot shows the Tandberg Management web interface. The navigation menu at the top includes Overview, Phonebook, System Status, System Configuration, and Endpoint Configuration. Under System Configuration, there are sub-menus for H323, SIP, Wireless LAN, SWP, Dataport, Network Profiles, Misc, Upgrade, and Certificate Management. The SIP icon is highlighted with a red arrow and the text "7. Click on the SIP icon".

H323 Configuration

H323 Settings

Call Setup Mode: Gatekeeper
H.323 Auto Prefix:
E.164 Alias (Call Manager Extension): 4554504

Gatekeeper Settings

H.323 ID: 4554504@neivokmaine.net
Gatekeeper Discovery: Manual
Gatekeeper Address: 193.244.81.111
Authentication Mode: Df
Authentication ID:
Authentication Password:
Multiple H.323 Aliases: Df

Call Manager Settings

Call Manager Address:

Advanced Settings

NAT Mode: Df
NAT Address: 127.0.0.1
RSIP: Df
QoS Type: Precedence
H.323 Ports: Dynamic

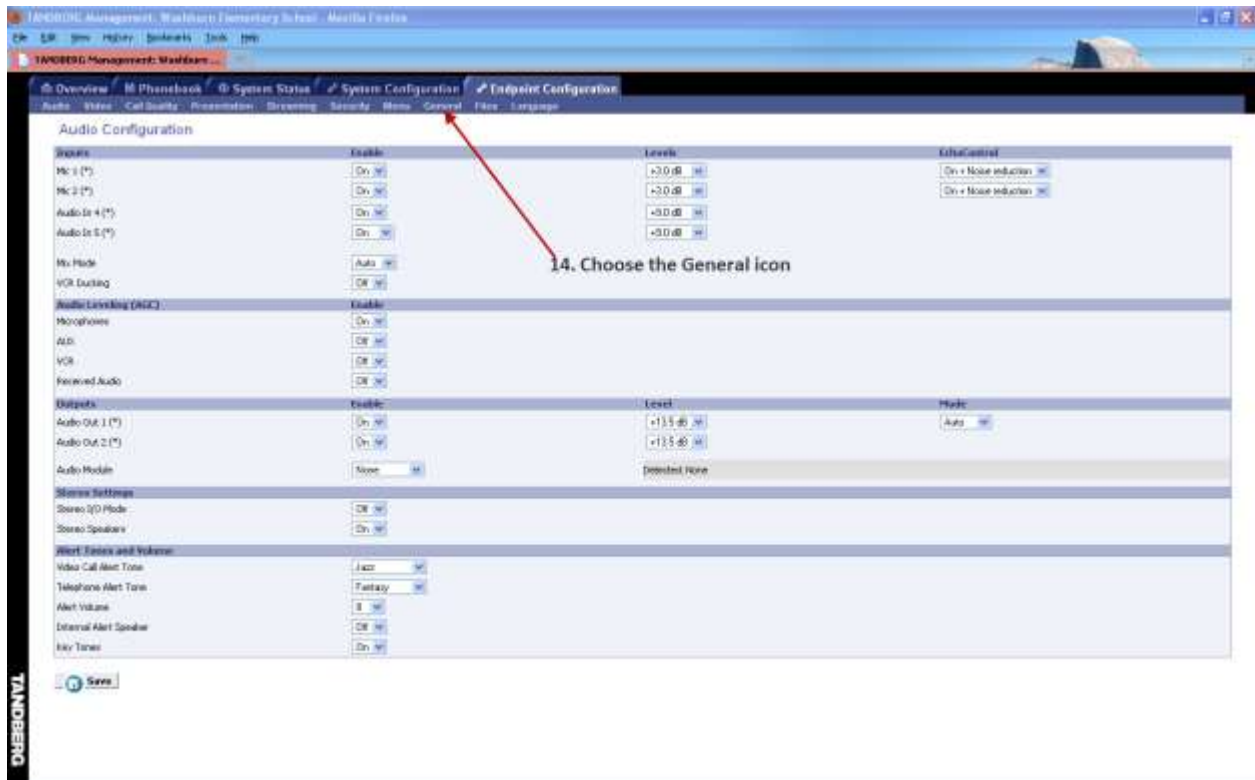
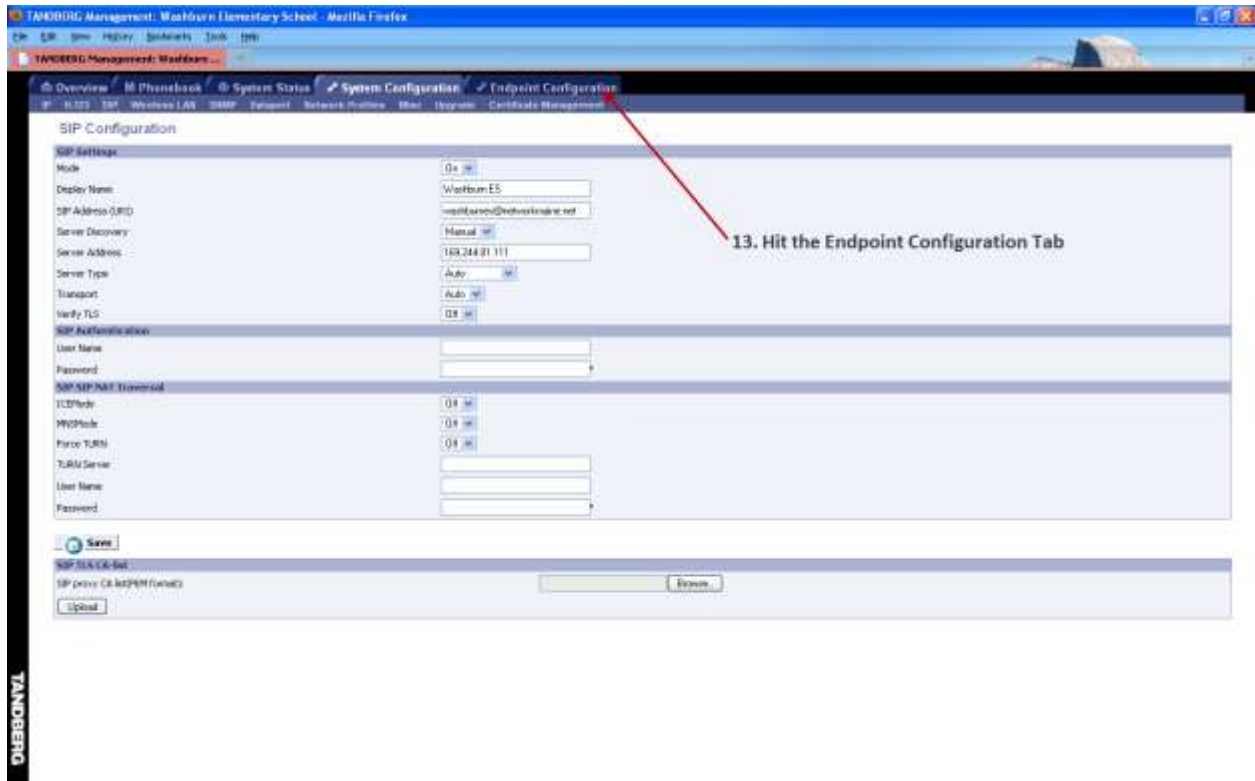
QoS Mode Configuration	Precedence	Df/serve
Telephone Audio	Auto	<input type="checkbox"/>
Telephone Signalling	Auto	<input type="checkbox"/>
Videotelephony Audio	Auto	<input type="checkbox"/>
Videotelephony Video	Auto	<input type="checkbox"/>
Videotelephony Data	Auto	<input type="checkbox"/>
Videotelephony Signalling	Auto	<input type="checkbox"/>

Type of Service: Df

The screenshot displays the TANDBERG Management web interface for SIP Configuration. The interface includes a navigation menu at the top with options like Overview, Phonebook, System Status, System Configuration, and Endpoint Configuration. The main content area is titled 'SIP Configuration' and is divided into several sections: SIP Settings, SIP Authentication, SIP SIP NAT Traversal, and SIP TLS CA-let. Red arrows and text annotations provide step-by-step instructions:

- 8. Turn SIP On:** Points to the 'On' dropdown menu in the Mode field.
- 9. Change Display Name to the Name of the School:** Points to the 'Wishbun ES' text in the Display Name field.
- 10. Add SIP address to be the name of the school. Add @networkmaine.net:** Points to the 'wishbunes@networkmaine.net' text in the SIP Address (URI) field.
- 11. Type in the SIP Server Address. 169.244.81.111:** Points to the '169.244.81.111' text in the Server Address field.
- 12. Hit the Save Button:** Points to the 'Save' button at the bottom left of the configuration area.

Other visible fields include Server Discovery (Manual), Server Type (Auto), Transport (Auto), Verify TLS (Off), User Name, Password, ICE Mode (Off), MGC Mode (Off), Force TURN (Off), TURN Server, User Name, Password, and SIP proxy CA (to PEM format) with a Browse button and Upload button.



The screenshot shows the 'General Configuration' page in the Tandberg Management interface. The page is divided into several sections:

- Configuration:** Menu Language (English), System Name (Washburn Elementary School), International Name, Auto Answer (On + Microphone DIF).
- External Phone Book Settings:** Corporate Directory (Off), Address, Path.
- External Services:** Mode (Off), Address, Path.
- External Manager:** Address (130.111.32.135), Path (/no/public/external/management/).
- Permissions:** Call Access Code (Off), Allow Incoming Audio Only Calls (On), Far End Camera Control (On), Fallback to Telephony (Off), Maximum Call Length (0).
- Date and Time Settings:** NTP Mode (Manual), NTP IP Address (192.541.206), Time Zone (GMT-0500), Date Format (MM_DD_YY), Time Format (12H), Daylight Savings (On).
- Multi Point Call Options:** Multi Point (Multiway), Multiway URI (multiway@networkmaine.net).

Red arrows and text annotations provide instructions:

- 15. Add the External Manager IP address 130.111.32.135 (pointing to the External Manager Address field).
- 16. Select Multiway from the drop down menu. Add the alias multiway@networkmaine.net (pointing to the Multi Point and Multiway URI fields).
- 17. Save your settings (pointing to the Save button).

Restart your endpoint and verify you are registered to your gatekeeper. If you are registered correctly you will see the endpoints alias and name in the upper right hand corner of the welcome screen. Please wait 10 minutes before powering down the endpoint to allow the TMS server to register the endpoint. This is an automatic process. You will not receive a confirmation from TMS.

That is it! Now your endpoint should be configured to work with the University System network. Any questions or problems, please contact Scott Despres (CBE Technologies) 207-450-9933 sdespres@cbetech.com or the UMaine Helpdesk at 1-888-FOR-MSLN or support@msln.net. You may also visit the LIVE-C website for copies of this document as well as instructions on how to connect to the bridge, content server, and MOVI at www.livec.org.