

Collaboration from Desktop to Telepresence

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TANDBERG

Agenda

- ▶ TANDBERG Overview
- ▶ Trends and Unified Communication ecosystem
- ▶ Demo – Call Scenarios - Configurations
- ▶ TANDBERG – Microsoft OCS R2 integration roadmap

TANDBERG

- ▶ Norwegian company – Listed on OSE
- ▶ HQ in Norway and New York
- ▶ First industrialized VC product launched 1991
- ▶ Today - Global leader in Visual Communication solutions
- ▶ Global Marketshare 41% +
- ▶ Sales, service and installations in over 90 countries
- ▶ More than 1500 staff globally
- ▶ Offices in 44 countries



- Dual headquarters in Oslo and New York
- ▲ Strategic sales offices

Current trends

Video is no longer a technology island

Video is becoming mission critical

Video is deployed on a larger scale than
before

Customer expectations are increasing

Telepresence making a comeback

Current trends

Video is no longer a technology island

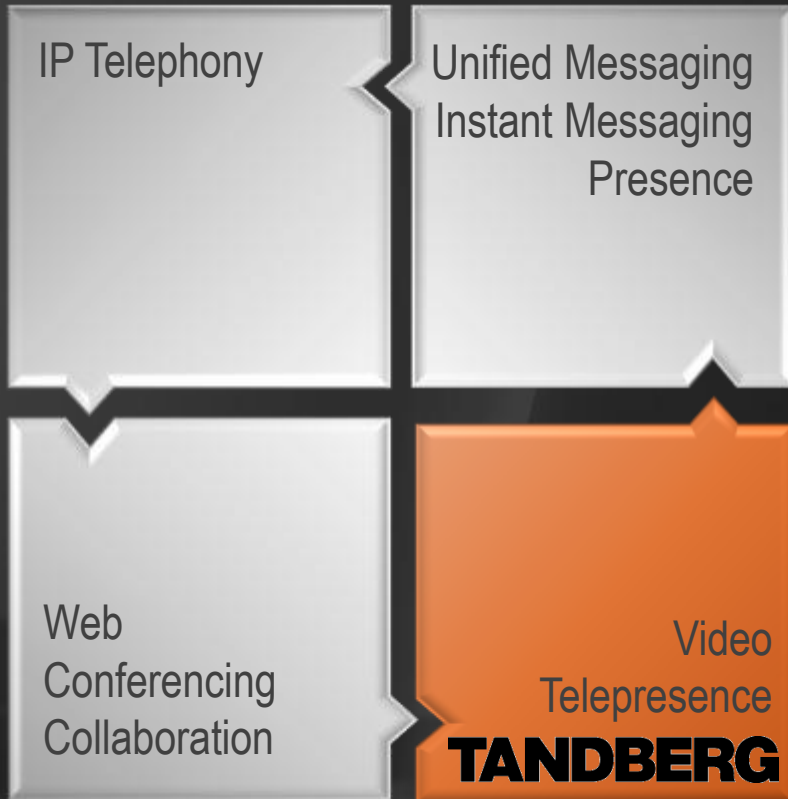
Video is becoming mission critical

Video is deployed on a larger scale than before

Customer expectations are increasing

Telepresence making a comeback

TANDBERG & Unified Communications



DELIVERS

- Complete, end-to-end visual communications solution
- Ultra High-Quality Experience
- Scalable Deployment
- Standards-Based:
 - Multipoint
 - Firewall Traversal
 - Call Control
 - H.323 and SIP Interoperability
 - Industry Leading Management Capability

Tandberg is the UC video partner of **choice**

Our Unified Communications Ecosystem

IP Telephony

Microsoft[®]
Alcatel-Lucent
NORTEL
SIEMENS
AVAYA

Microsoft[®]
IBM

Unified Messaging
Instant Messaging
Presence

UC

Web Conferencing
Collaboration

Microsoft[®]
CISCO
IBM

TANDBERG
hp

Video
Telepresence

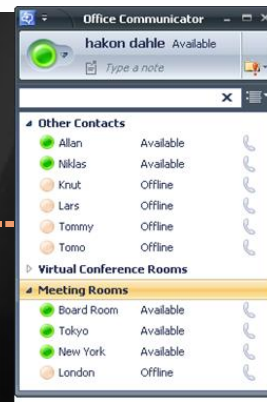
Microsoft®

- Microsoft Office Communications Server 2007
- Delivering communications across applications and devices used daily
 - Video, Voicemail, IM, Presence, Email, Calendars...

TANDBERG

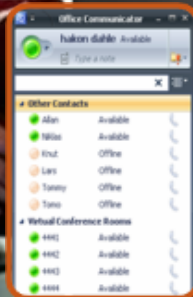
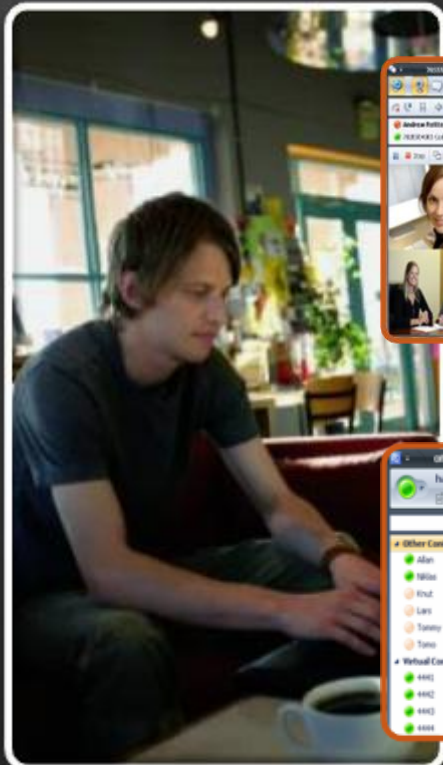
- Industry leading business-quality, high-definition visual communications
- Connectivity to multiple protocols
- Advanced conferencing capabilities

Microsoft Office Communications Server 2007



Together, expanding the world of visual communication

Microsoft OCS



Advanced Multipoint



Archiving and Streaming



Gateways (ISDN/3G/V.35)

Services

Telepresence



Group Systems



Executive Office



SoHo



Desktop

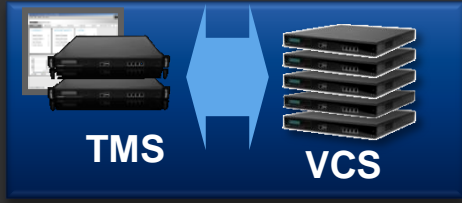


Industry

Endpoints

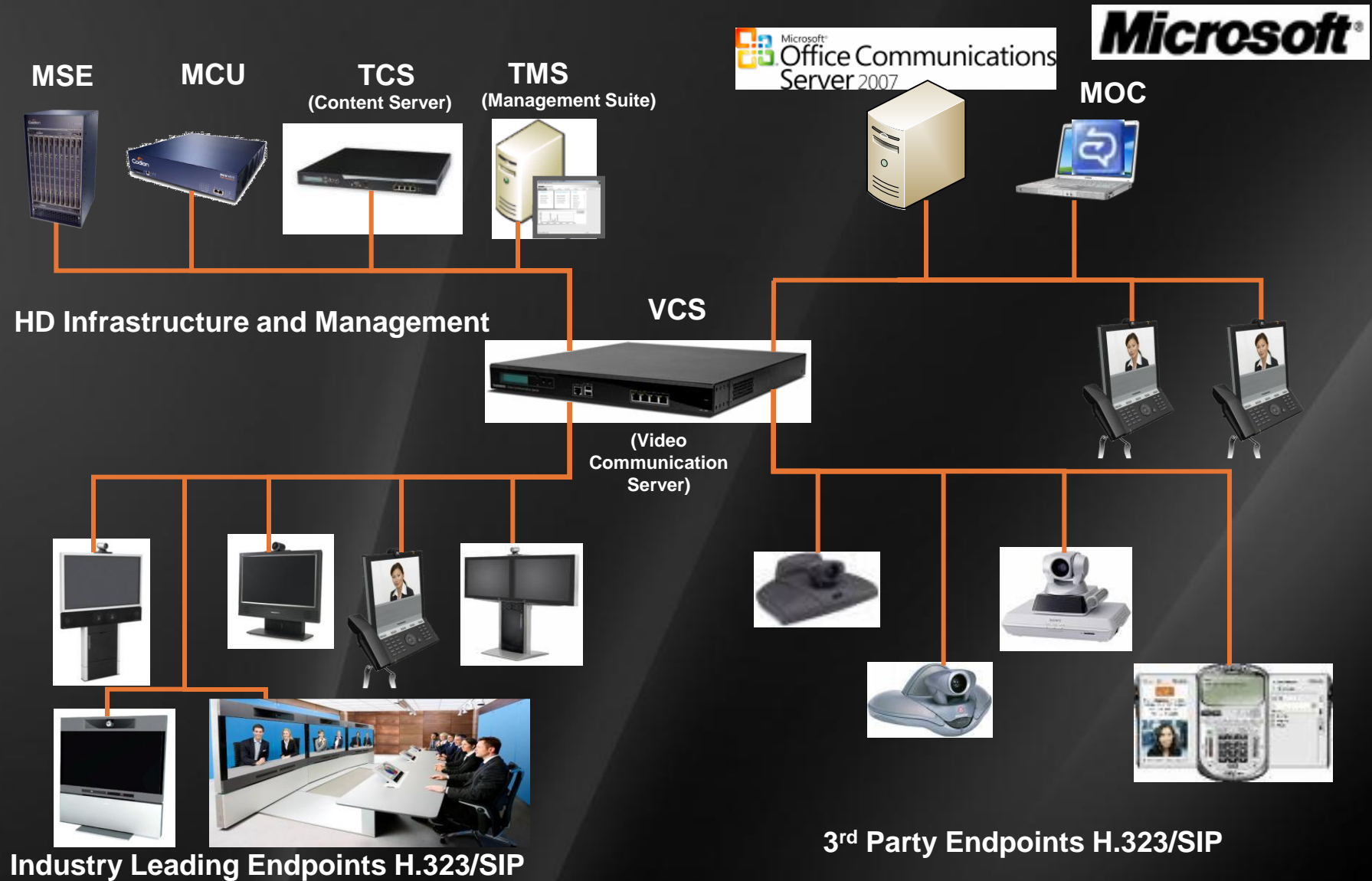
TANDBERG

Interoperability
H.323 – SIP translation
NAT/Firewall traversal
Bandwidth Control



Call Control

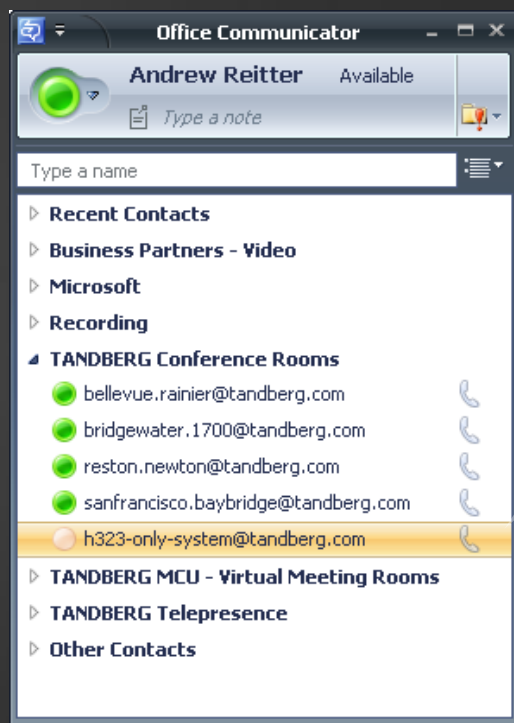
TANDBERG - Microsoft UC Scenario



demo

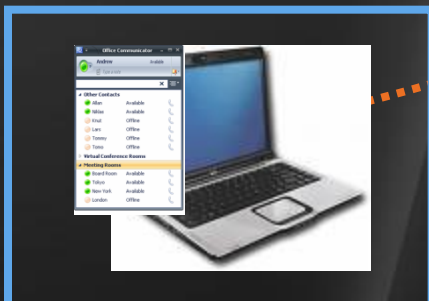
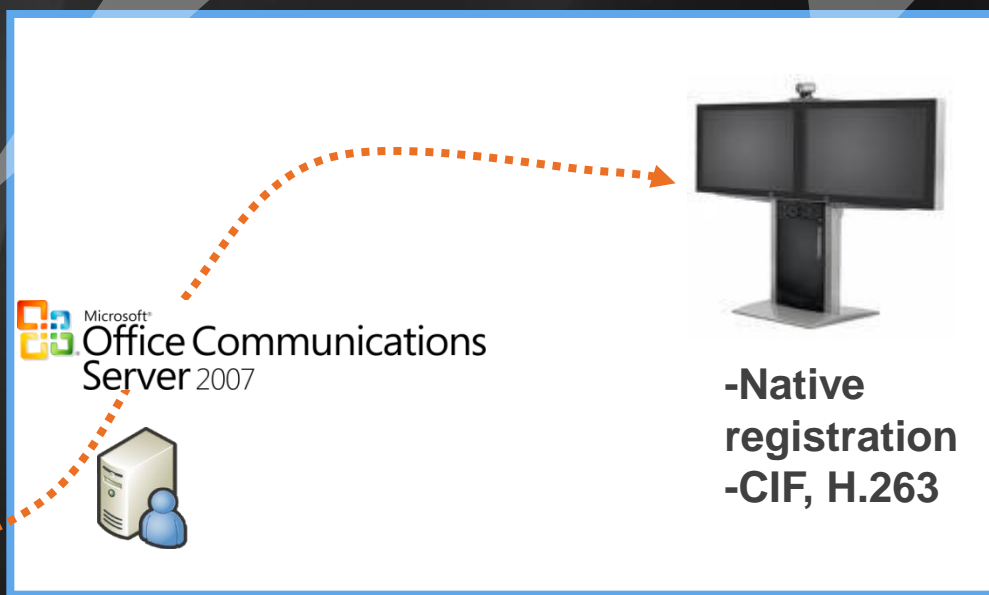
From the desktop to Telepresence

Call Scenario – MOC to any TAA SIP Endpin.



Enter the SIP URI for any TAA System registered to OCS

Customers register TANDBERG endpoints to OCS

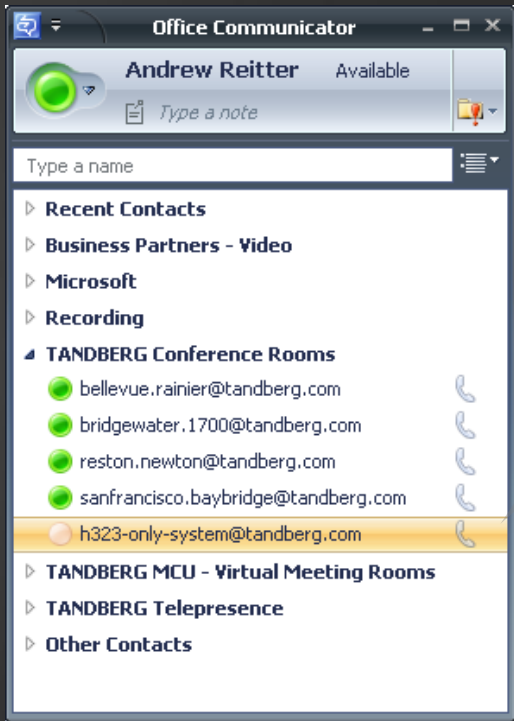


MOC 2007 w/webcam

Requirements:

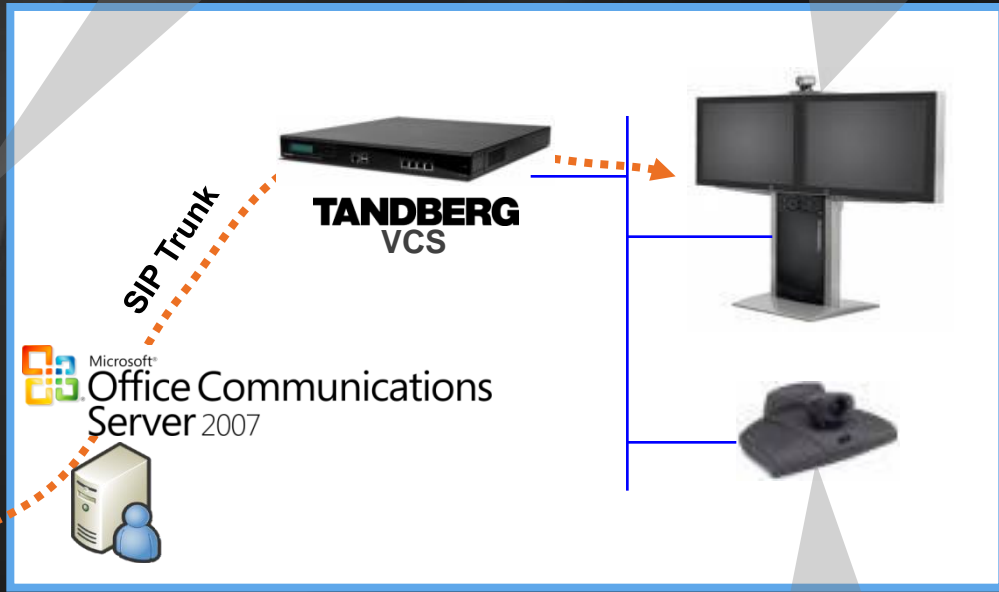
- Any TAA video endpoint with SW F7.x or later
- OCS is configured and operational and uses Active Directory for managing users.

Call Scenario – MOC to any H.323 Endpoint



Enter the H.323 URI for any H.323 system registered to VCS

Customers may want to register TANDBERG endpoints to VCS for bandwidth policy enforcement

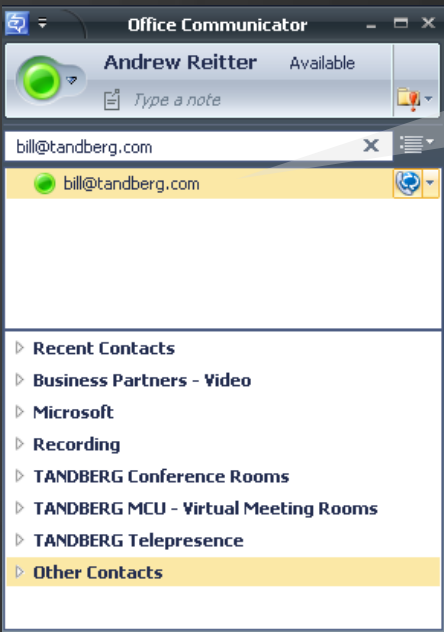


MOC 2007 w/webcam

Requirements:
-VCS with SW X4.x or later
-SIP Trunk to OCS.

Customers may have older systems which will never support direct SIP registration with OCS

Call Scenario – Presence Proxy & Single Domain



- See presence – buddies and any video system
- Search for a buddy a click to make a video call



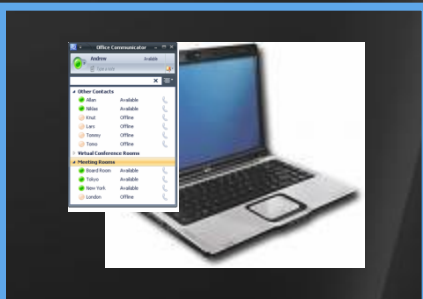
MPOP for non-native registered video endpoint

- Bill has both a MOC client on his PC as well as a TANDBERG T1 in his office.
- VCS allows the T1 to appear in OCS as another device registration for Bill

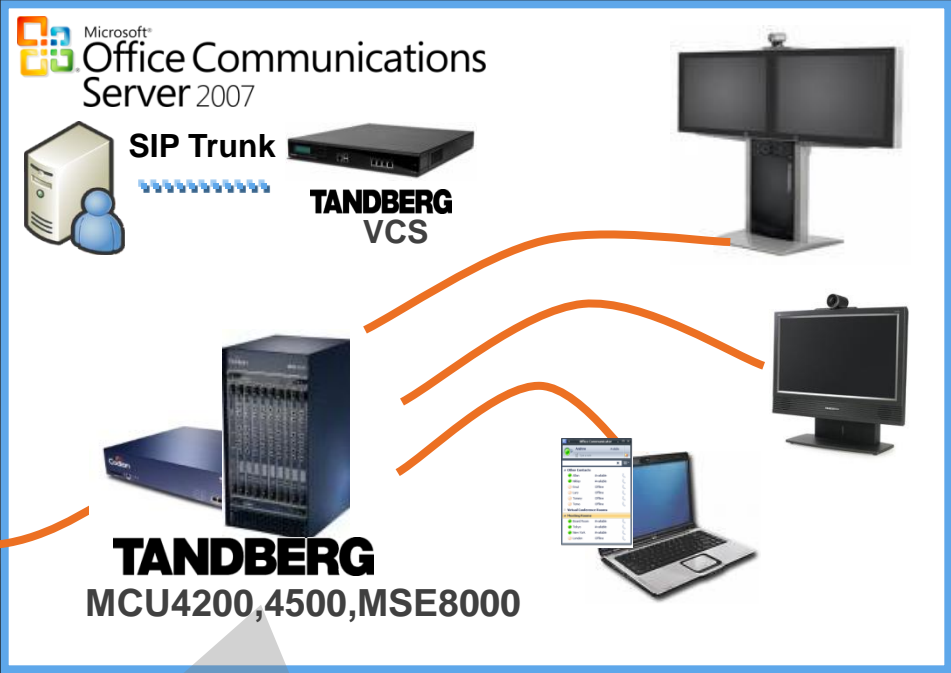
Call Scenario – Multipoint Conferencing



- TANDBERG High Definition MCU:
- H.264, H.263+, H.263, H261
- Individual Video/Audio port transcoding
- ClearVision



MOC 2007 w/webcam



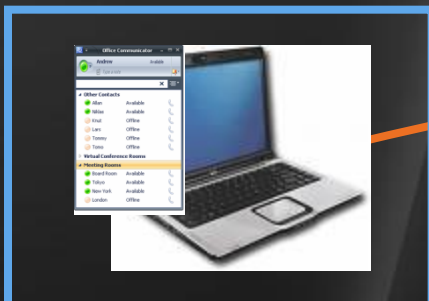
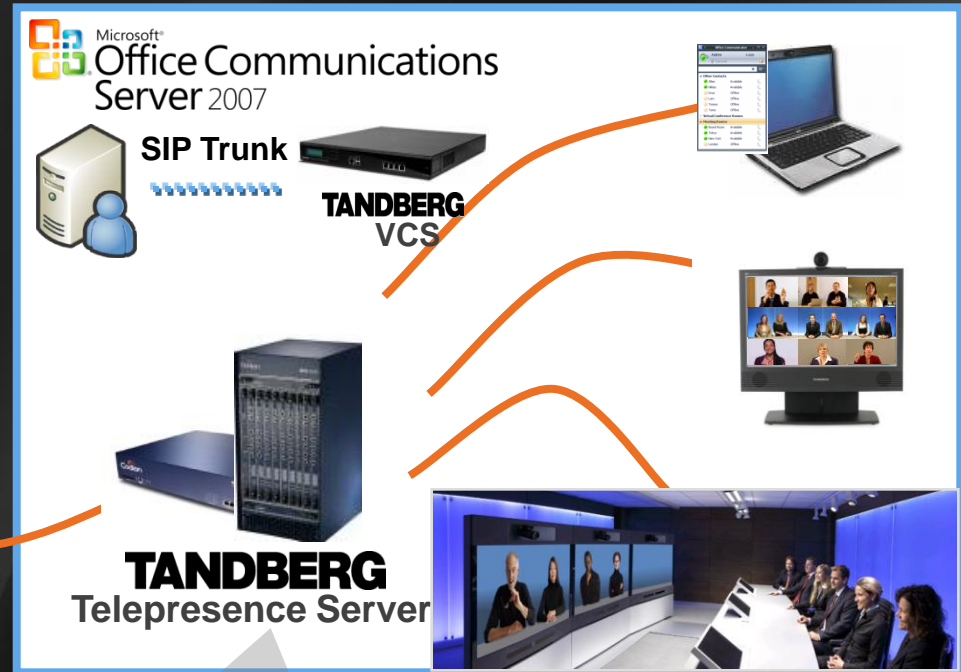
Any combination of endpoints can connect to the multipoint video conference including: MOC, H.323, H.320, External video via Expressway, Phones, etc

Call Scenario – Telepresence



TANDBERG TS 8710:

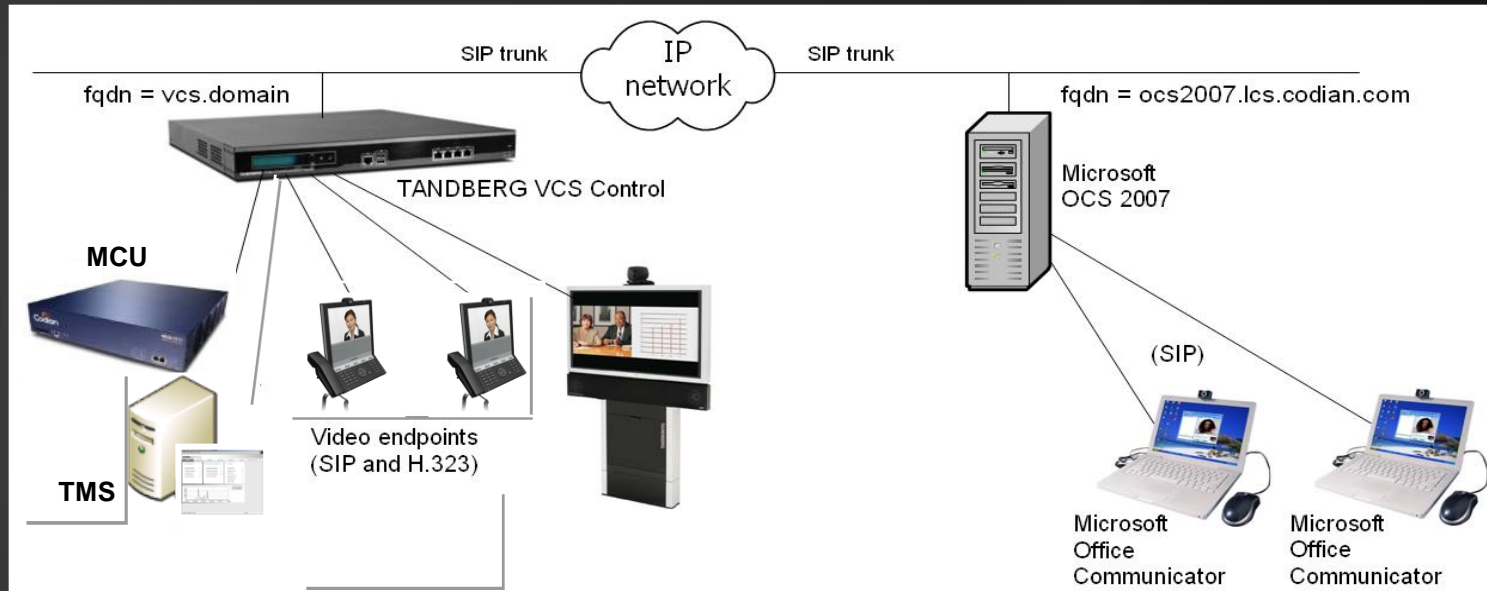
- Mixes TP systems and VC/OCS endpoints
- Intelligent arranges participant's panes



MOC 2007 w/webcam

Any combination of endpoints can connect to the multipoint video conference including: MOC, H.323, H.320, External video via Expressway, Phones, Recording, etc

TANDBERG –OCS Architecture Overview



Recommended Equipment:

- Microsoft Office Communications Server (OCS) 2007 R2
- Microsoft Office Communicator Client (OC client) R2
- TANDBERG Video Communications Server (VCS) - version X4.1
 - Traversal and non-traversal licenses
 - User Policy (FindMe)
- TANDBERG MXP Endpoints – version F7.2 or later
- TANDBERG Video Telephone E20 – version TE1.1.0 or later
- TANDBERG Codian 4500 MCU – version 3.0
- Optional:
 - TANDBERG Management Suite Server (TMS) – version 12.1 or later

OCS Configuration – VCS trusted by OCS

The image shows two overlapping dialog boxes from a Microsoft Office Communications Server (OCS) configuration tool. The background dialog is titled "codian-hah1mccs Front End Properties" and has tabs for "General", "Routing", "Compression", "Authentication", "Federation", "Host Authorization", and "Arch...". The "Host Authorization" tab is active, displaying a table of servers and their properties. The foreground dialog is titled "Add Authorized Host" and is used to add a new host to the list. It has two radio buttons: "EQDN:" and "IP address:". The "IP address:" option is selected, and the IP address "10 . 44 . 9 . 212" is entered in the adjacent text box. Below the IP address, there are three checkboxes under the "Settings" section: "Outbound Only" (unchecked), "Throttle As Server" (checked), and "Treat As Authenticated" (checked). The "Treat As Authenticated" checkbox is highlighted with a yellow oval. At the bottom of the "Add Authorized Host" dialog are "OK", "Cancel", and "Help" buttons. At the bottom of the "Front End Properties" dialog are "Add...", "Edit...", "Remove", "OK", "Cancel", "Apply", and "Help" buttons.

codian-hah1mccs Front End Properties

General Routing Compression Authentication
Federation Host Authorization Arch...

Specify authorized hosts such as gateways, application clients that need additional bandwidth and so forth.

Servers	Outbound Only	Throttle
10.2.139.83	No	No
10.2.135.248	No	No
10.2.138.28	No	No
10.2.138.14	No	No
10.2.138.22	No	No
10.2.138.24	No	No
10.2.134.161	No	No
10.2.136.14	No	No
10.2.136.82	No	No
10.44.9.212	No	No
10.2.174.238	No	No
10.2.133.97	No	No
10.2.136.205	No	No
10.2.135.152	No	No

Add... Edit... Remove

OK Cancel Apply Help

Add Authorized Host

Server

EQDN:

IP address:

10 . 44 . 9 . 212

Settings

Outbound Only

Throttle As Server

Treat As Authenticated

OK Cancel Help

OCS Config. – Create a static route

The image shows two overlapping windows from the OCS configuration interface. The background window is titled "codian-hah1mccs Front End Properties" and has the "Routing" tab selected. It contains a table of existing static routes and an "Add..." button. The foreground window is titled "Add Static Route" and is used to define a new route. In this window, the "Domain" is set to "VCS.domain", the "Next hop" is set to the IP address "10.44.9.212" (circled in orange), and the "Transport" is set to "TCP".

codian-hah1mccs Front End Properties

Federation | Host Authorization | Archiving
General | Routing | Compression

Routing
Specify static routes for outbound connections.

Matching URI	Next Hop	Port	Trans
<input checked="" type="checkbox"/> SIP:*@ipgw82...	10.2.136...	5060	TCP
<input checked="" type="checkbox"/> SIP:*@lcs.cod...	10.2.136...	5060	TCP
<input checked="" type="checkbox"/> SIP:*@mcu248...	10.2.135...	5060	TCP
<input checked="" type="checkbox"/> SIP:*@mcu28.c...	10.2.136...	5060	TCP
<input checked="" type="checkbox"/> SIP:*@mcu83.c...	10.2.139...	5060	TCP
<input checked="" type="checkbox"/> SIP:*@mxp.cod...	10.2.134...	5060	TCP
<input checked="" type="checkbox"/> SIP:*@robmcu...	10.2.135...	5060	TCP
<input checked="" type="checkbox"/> SIP:*@tobymcu...	10.2.160...	5060	TCP

Add... Edit...

Warning: The host address must also be added to the Authorization tab.

OK Cancel Apply Help

Add Static Route

Matching URI
Wildcard characters can be used in the domain names.

Domain: VCS.domain

Phone URI

Next hop

FQDN: []

IP address: 10 . 44 . 9 . 212

Transport: TCP

Port: 5060

Replace host in request URI

OK Cancel Help

OCS Configuration – TCP on port 5060

The image shows two overlapping windows from the Microsoft Office Communications Server (OCS) configuration utility. The background window is 'Front End Server Properties' and the foreground window is 'Add Connection'.

Front End Server Properties

- General | IM Conferencing | Telephony Conferencing
- Office Communications Server, Front End
- EQDN: `codian-hah1mccs.ocs2007.lcs.codian.com`
- Connections: Specify how this server handles inbound connections
- Table with columns: Address, Port, Transport
- Buttons: Add..., Edit..., Remove

Address	Port	Transport
<input checked="" type="checkbox"/> All	5060	TCP
<input checked="" type="checkbox"/> All	5061	MTLS

Add Connection

- Listening Address Settings
- IP Address: All
- Port: 5060
- Transport: TCP
- Buttons: OK, Cancel, Help

An orange oval highlights the row in the 'Front End Server Properties' table where the address is 'All', the port is '5060', and the transport is 'TCP'.

VCS Configuration – SIP Trunk to OCS

TANDBERG VCS Control

Overview Status System configuration **VCS configuration** Applications Maintenance

You are here: [VCS configuration](#) > [Zones](#) > Edit zone

Edit zone

Configuration

Name: OCSR2

Type: Neighbor

Hop count: * 15

Protocol

SIP mode: On

SIP port: * 5060

SIP transport: TCP

H.323 mode: Off

H.323 port: * 1719

Location

Peer 1 address: 10.47.65.51

Peer 2 address:

Peer 3 address:

Peer 4 address:

Peer 5 address:

Peer 6 address:

SIP: Active: 10.47.65.51:5060

User: Support Server: 47DemoVCS System
time (UTC): 17:41

S/N: 52A00127 Version: X4.2Beta2

Zone Name: OCSR2

SIP Mode, Port & Transport

IP Address of OCS

VCS Configuration – routing to OCS

TANDBERG VCS Control

Overview Status System configuration **VCS configuration** Applications Maintenance

Edit zone You are here: [VCS configuration](#) > [Zones](#) > Edit zone

Advanced

Zone profile: Microsoft Office Communications Server 2007

Match 1

Mode: PatternMatch

Priority: 100

Pattern string: (.*)ocsl(expressway\..*)

Pattern type: Regex

Pattern behavior: Replace

Replace string: \1\2

Match 2

Mode: Disabled

Match 3

Mode: Disabled

Match 4

Mode: Disabled

Profile: OCS 2007

Pattern match: URIs with i.e. @expressway.no

VCS Configuration – Presence

TANDBERG VCS Control

Overview Status System configuration VCS configuration **Applications** Maintenance [Manual](#) [Help](#) [Logout](#)

Presence You are here: [Applications](#) ▶ Presence

PUA

SIP SIMPLE Presence User Agent On [i](#)

Presence Server

SIP SIMPLE Presence Server On [i](#)

Subscription expiration time [i](#)

Publication expiration time * [i](#)

Status

Presence User Agent	Active
Presence Server	Active

User: Support Server: 47DemoVCS System time (UTC): 10:25 S/N: 52A00127 Version: X4.2Beta2

TANDBERG VCS Control

Overview Status System configuration VCS configuration **Applications** Maintenance [Manual](#) [Help](#) [Logout](#)

OCS Relay You are here: [Applications](#) ▶ OCS Relay

Configuration

OCS Relay mode On [i](#)

OCS Relay domain [i](#)

OCS Relay routing prefix [i](#)

OCS Relay Shared domain

User: Support Server: 47DemoVCS System time (UTC): 10:18 S/N: 52A00127 Version: X4.2Beta2



CALLING IS EASY

Office Communicator users can make video calls to TANDBERG devices using their contact list the same way they are used to.



COMMUNICATION IS MORE FLEXIBLE

Single identity to reach the person you need, regardless of location.



COMMUNICATION IS MORE EXPANSIVE

Video accessible from the PC, to the desktop, the conference room, and Telepresence Suite.



GREATER VALUE IN INVESTMENT

Leverage investments in TANDBERG and Microsoft yielding greater return.

THANK YOU

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TANDBERG

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