

# Cisco IT Case Study Cisco Unity Connection on Cisco UCS

# **Overview**

Challenge

Migrate to a new voicemail system on a new, virtual computing platform at the same time

Solution

Cisco Unity Connection® 8.0 running on Cisco Unified Computing System<sup>™</sup> servers

Results

80% fewer physical servers reduce costs, power requirements and operational demands while users enjoy new features

Next Steps

Prepare to support 64-bit server platforms, the Cisco SpeechView application, and integrated voicemail/e-mail messages

#### Challenge New voicemail system, new servers

- Migrate to a new voicemail system on a new, virtual computing platform at the same time
  - •Support 87,000 mailboxes
  - Reduce number of voicemail servers
  - •Lower total cost of ownership (TCO)
  - •Simplify voicemail service deployment, management, and support
  - •Offer new features to users

## Solution Cisco Unity Connection Running on Cisco UCS

• Cisco Unity Connection® 8.5

Migrated from Cisco Unity® 7.0(2)

Considered Cisco Unity® 8.0, but it required more nodes

Cisco UCS

Replaced the Cisco® 7800 Series Media Convergence Servers with:

Cisco UCS B-Series Blade Servers for data centers

Cisco UCS C-Series Rack-Mount Servers for small sites

Significantly reduced the number of servers:

Before: 202 physical servers, 41 nodes

After: 34 virtual servers, 16 nodes

Eliminated the need for Exchange servers to store messages

Active-active design for server pairs to increase availability of voicemail service

# Results

#### Reduced IT Costs and Operational Demands

- 80% fewer physical servers and eight-fold reduction in power use
- Simpler voicemail system design and management
- Lower capital and operational expense with virtual servers and simpler server installations, upgrades, and backups
- Ability to handle larger call volume and improved business continuity because both servers in a pair are always active
- Faster upgrades with fewer opportunities for service interruption

# Results

#### More User Features

New user options for accessing and managing messages

Web access to voicemail with choice of browsers and operating systems:

Browsers: Microsoft Internet Explorer, Firefox, Google Chrome

Operating systems: Microsoft Windows, Apple Mac OS X, Red Hat Enterprise Linux

Integrated voice recognition for retrieving and responding to messages

Receive Visual Voicemail messages as an RSS feed on mobile smartphones

Integration with Cisco Quad using a voicemail portlet

# **Next Steps**

#### New Server Platforms, New User Features

- Prepare to support new, 64-bit servers
- Support Cisco SpeechView for voice transcriptions
- Integrated voicemail and e-mail boxes for users

# Fewer Servers, Less Power

Cisco Voicemail Solution	Before: Cisco Unity 7.0 on MCS servers	Today: Cisco Unity Connection 8.0on Virtual Servers on Cisco UCS
Number of physical servers	<ul> <li>174 Production hosts</li> <li>•79 Production Cisco Unity Servers</li> <li>•41 nodes</li> <li>•63 Exchange servers for Cisco Unity</li> <li>•32 Active Directory controllers</li> </ul>	30 Production UCS hosts •16 nodes
Number of voicemail boxes	87,000	87,000
Power required for Production Servers	<b>58.8 KW</b> For 174 MCS 7845 i2s Power draw 338 W under 50% load (measured in data center tests)	<b>6.9 KW</b> For 13 UCS B 200 M1-series blades - 247 W under 50% load For 17 UCS C-210 M1 servers – 206 W for full chassis under 50% load

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