



Avaya Solution & Interoperability Test Lab

An Example Configuration of Avaya S8300 and S8400 Servers with IA770 INTUITY™ AUDIX® Messaging Application Networked with Microsoft Exchange - Issue 1.0

Abstract

The Avaya IA770 INTUITY™ AUDIX® Messaging Application (IA770) can be enabled on Avaya S8300 and S8400 Servers to provide voice and fax messaging capabilities.

These Application Notes describe a configuration in which the Avaya IA770 on each server provides voice and fax messaging for its respective location. In addition, users can forward messages between the IA770s at each site and the Microsoft Exchange Email system.

1. Introduction

Figure 1 shows the tested configuration. The Avaya IA770 INTUITY™ AUDIX® Messaging Application (IA770) on the Avaya S8400 Server in the G650 Media Gateway serves Site 1. The Avaya IA770 on the Avaya S8300 Server in the Avaya G350 Media Gateway serves Site 2. Both sites are served by a Microsoft Exchange Server for email.

With the described configurations, Avaya IA770 users at either site can forward messages to users on the other Avaya IA770 system and to Microsoft Exchange users. Microsoft Exchange users can also forward messages to Avaya IA770 users.

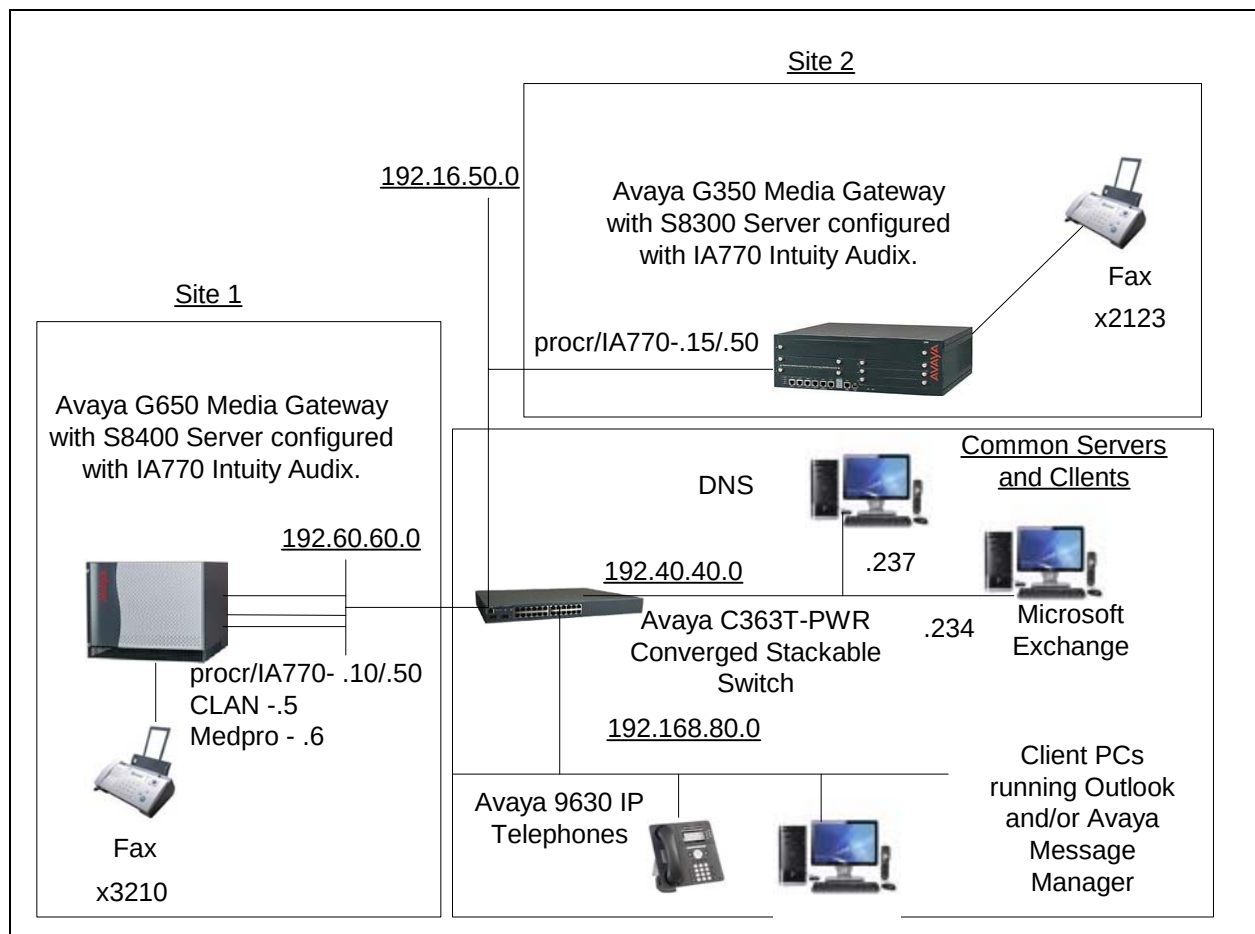


Figure 1: Tested Configuration

Among the features tested included:

- Messages forwarded from users on each system to users on each of the other systems.
- User operation by Telephone User Interface (TUI), Avaya INTUITY™ Message Manager desktop client, and Microsoft Outlook client.
- Voice, fax, text and other attached files.

- Priority marking preserved between Avaya IA770s and Microsoft Exchange.
- Avaya IA770 user messages created and marked as “private” cannot be sent to Microsoft Exchange.
- Avaya IA770 user messages created and marked as “private” can be sent to other IA770 systems (with preserve private marking).
- Avaya IA770 Message Delivery Reports are provided to IA770 users indicating whether a message was delivered, accessed or failed delivery.
- Message Destination Addresses are checked at message creation time (e.g., 2345 is completed as 2345@g350-1, email destination addresses are validated.)
- Other addressing options, such as “reply to sender” and address lists operate as expected.
- New message waiting indication (e.g., the phone message waiting light) operates as expected.)

Messages received from the Avaya IA770 appear in a Microsoft Exchange client (e.g., Outlook) Inbox with the message as an attachment.

The SMTP protocol for message delivery to Microsoft Exchange was used without encryption.

2. Equipment and Software Validated

Equipment	Software
Avaya S8300 Server in an Avaya G350 Media Gateway	Avaya Communication Manager 5.0 (R015x.00.0.825.4)
Avaya S8400 Server in an Avaya G650 Media Gateway	Avaya Communication Manager 5.0 (R015x.00.0.825.4)
Avaya C363T-PWR Converged Stackable Switch	4.5.14
Avaya INTUITY™ Message Manager	R5.1
Microsoft Exchange Server	6.5.7638.2

3. Relevant Avaya S8300 and S8400 Server Installation

Installation of the servers follows the instructions from [S8300_INST] or [S8400_INST] with the following notes:

- Select <Yes> when prompted “Run AUDIX Installation”
- Configure the Domain Name Server (DNS) IP address (192.40.40.237).

Using a DNS server is the most flexible way to allow the Avaya IA770 to find the Microsoft Exchange server address.

3.1. Avaya S8300 and S8400 Server Interface and DNS Settings

The following are shown for later reference. To see the IP settings of the Avaya S8300 Server, open a browser to the Avaya S8300 Server management IP address. Log in with the appropriate credentials.

1. Select the **Launch Maintenance Web Interface** hyperlink. Select **Server Configuration**→**Configure Server**.
2. Select **Continue** to reach the option to **Configure individual services** and select that option.
3. Select **Continue**.
4. Select **Configure Interfaces**.
5. Ensure that the Integrated Messaging (Avaya IA770) has an IP address assigned.

The screenshot displays a web browser window titled "Configure Individual IP Services - Windows Internet Explorer". The address bar shows the URL "https://192.16.50.15/cgi-bin/configSrv/w". The page content is divided into a left sidebar and a main area. The sidebar, titled "Configure Individual IP Services", lists several options: Review Notices, Set Identities, Configure Interfaces, Configure LSP, Configure Switches, Set DNS/DHCP, Set Static Routes, Configure Time Server, and Set Modem Interface. The main area, titled "Configure Server", has a sub-section "Configure Interfaces". Under this, there are two interface configurations: "Ethernet 0: Laptop" and "Ethernet 1: Control Network". "Ethernet 0: Laptop" shows an IP address of 192.11.13.6 and a subnet mask of 255.255.255.252. "Ethernet 1: Control Network" shows an IP address server1 (g350-1) of 192.16.50.15, a gateway of 192.16.50.1, and a subnet mask of 255.255.255.0. Below these, the speed is listed as "Current speed : 100 Megabit full AUTO SENSE duplex". There is also a section for "Integrated Messaging" with an IP address server1 (g350-1) of 192.16.50.50. At the bottom of the main area, there is a text prompt "Click CHANGE to change values." and three buttons: "Change", "Close Window", and "Help". The browser's status bar at the bottom shows "Done", "Trusted sites", and a zoom level of "100%".

Interface	IP address	Subnet mask	Gateway	Speed
Ethernet 0: Laptop	192.11.13.6	255.255.255.252		
Ethernet 1: Control Network	192.16.50.15	255.255.255.0	192.16.50.1	Current speed : 100 Megabit full AUTO SENSE duplex

Service	IP address
Integrated Messaging (g350-1)	192.16.50.50

6. Select **Set DNS/DHCP** and ensure that the DNS server IP address and corresponding DNS domain are set in the **IP Address 1** and **DNS Domain** fields respectively.

Configure Individual IP Services - Windows Internet Explorer

https://192.16.50.15/cgi-bin/configSrv/w

Configure Individual IP Services

Configure Individual IP Services

- Review Notices
- Set Identities
- Configure Interfaces
- Configure LSP
- Configure Switches
- Set DNS/DHCP
- Set Static Routes
- Configure Time Server
- Set Modem Interface

Configure Server

Set DNS/DHCP
Note: If DNS is not used, leave these fields blank.

Name Servers

IP Address 1: 192.40.40.237

IP Address 2:

IP Address 3:

DNS Domain: smm.com

Search Domain 1:

Search Domain 2:

Search Domain 3:

Search Domain 4:

Search Domain 5:

Click CHANGE to change values.

Change **Close Window** **Help**

Trusted sites 100%

The following two screen shots are from the Avaya S8400 Server. The instructions are the same as just given for the Avaya S8300 Server, but with the Avaya S8400 Server specific values.

The screenshot shows a web browser window titled "Configure Individual IP Services - Windows Internet Explorer". The address bar displays "https://192.60.60.10/cgi-bin/configSr". The page content is divided into a left sidebar and a main configuration area.

Configure Individual IP Services

- Review Notices
- Set Identities
- Configure Interfaces
- Configure Switches
- Set DNS/DHCP
- Set Static Routes
- Configure Time Server
- Set Modem Interface
- Configure MPC

Configure Server

Configure Interfaces

Ethernet 1: Laptop

IP address 192.11.13.6
Subnet mask 255.255.255.252

Ethernet 2: Control Network A

IP address server1 (s8400-1) 198.152.254.201
Subnet mask 255.255.255.0
Speed (Current speed : 100 Megabit full duplex) 100 Megabit full duplex
☐ Enable VLAN
802.1q priority tagging

Ethernet 3: Enterprise LAN Interface

IP address server1 (s8400-1) 192.60.60.10
Gateway 192.60.60.1
Subnet mask 255.255.255.0
Speed (Current speed : 100 Megabit full duplex) AUTO SENSE
☐ Enable VLAN
802.1q priority tagging

Integrated Messaging

IP address server1 (s8400-1) 192.60.60.50

Local intranet 100%

Configure Individual IP Services - Windows Internet Explorer

https://192.60.60.10/cgi-bin/configSr

Configure Individual IP Services

Configure Individual IP Services

- Review Notices
- Set Identities
- Configure Interfaces
- Configure Switches
- Set DNS/DHCP
- Set Static Routes
- Configure Time Server
- Set Modem Interface
- Configure MPC

Configure Server

Set DNS/DHCP

Note: If DNS is not used, leave these fields blank.

Name Servers

IP Address 1 192.40.40.237

IP Address 2

IP Address 3

DNS Domain smm.com

Search Domain 1

Search Domain 2

Search Domain 3

Search Domain 4

Search Domain 5

DHCP Service on this Server:
(This server may not function properly if this option is set incorrectly. See Help for details.)

☒ Enable DHCP service on this server for IPSIs

Click CHANGE to change values.

Change **Close Window** **Help**

Local intranet 100%

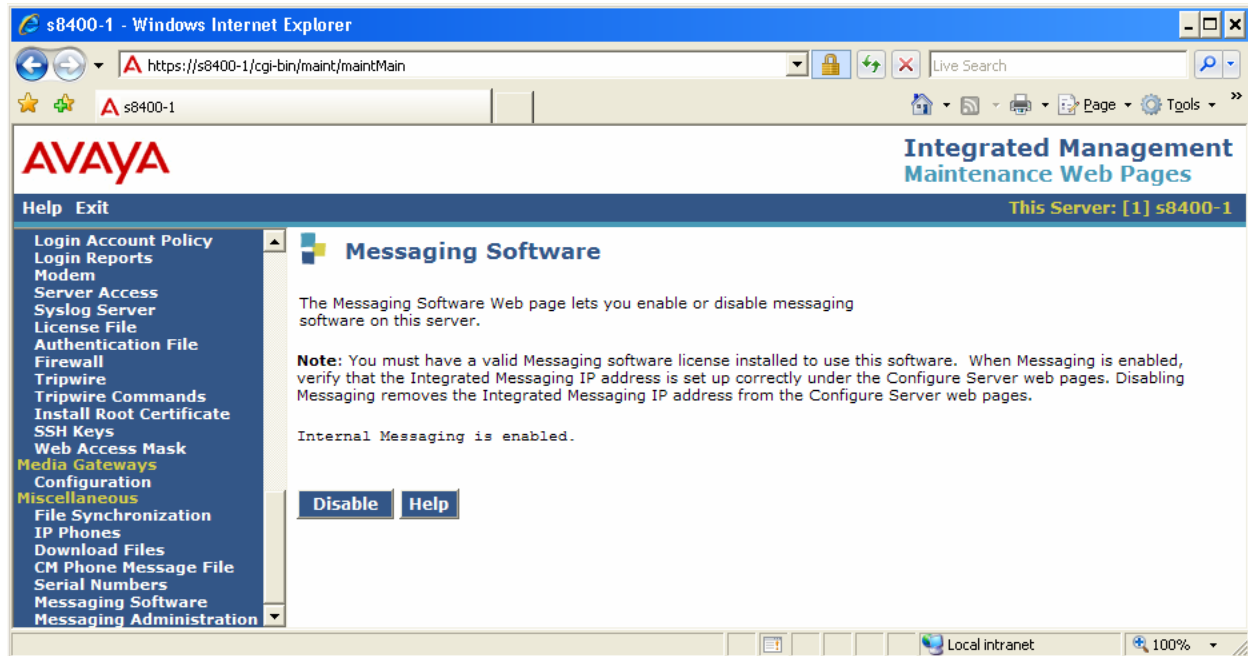
4. Avaya IA770 Web Configuration

This section describes the Avaya IA770 Web Configuration relevant to the message networking between sites. The steps shown are applicable to both the Avaya S8300 and S8400 Servers.

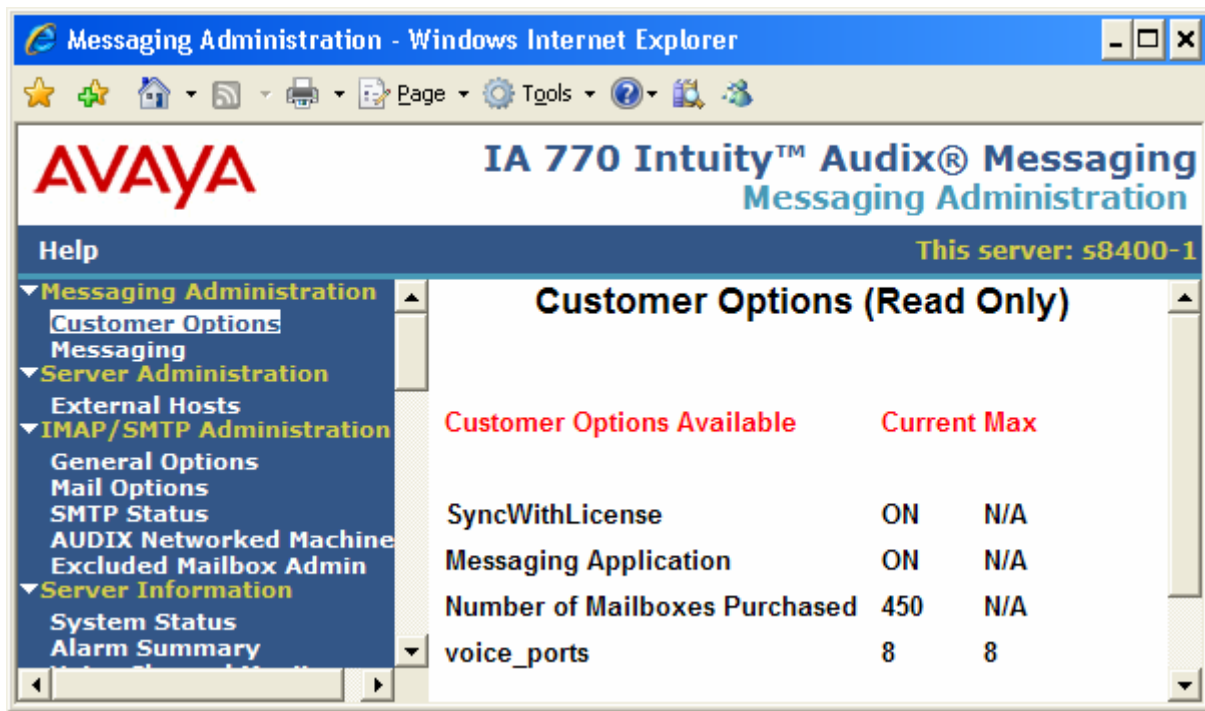
1. Open a browser to the Avaya IA770 IP address and log in with appropriate credentials.
Select the **Launch Maintenance Web Interface** link.



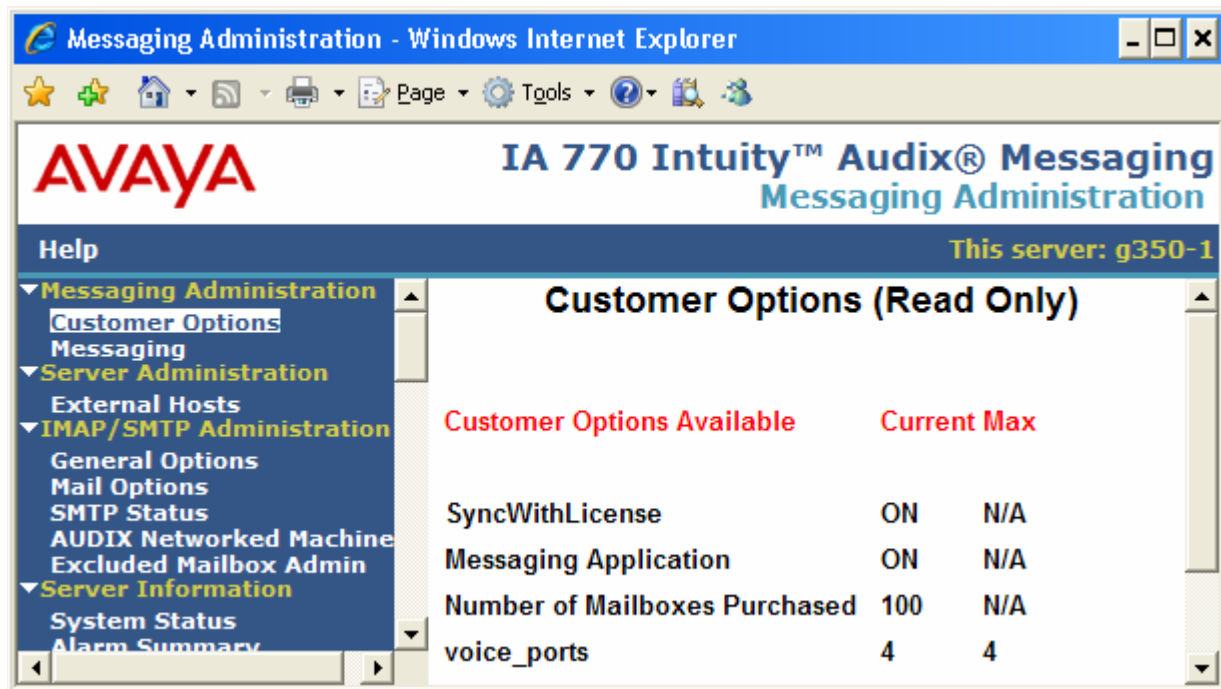
2. Select **Miscellaneous**→**Messaging Software**. Ensure that the system is in the “**Internal Messaging is enabled**” state.



3. Select **Miscellaneous**→**Messaging Administration**→**Customer Options** to verify that the license values are as expected. Otherwise, contact your Avaya representative for the appropriate license.



For the Avaya S8300 Server IA770, the settings were as shown:



AVAYA IA 770 Intuity™ Audix® Messaging Administration

Help This server: g350-1

▼ Messaging Administration
Customer Options
Messaging
▼ Server Administration
External Hosts
▼ IMAP/SMTP Administration
General Options
Mail Options
SMTP Status
AUDIX Networked Machine
Excluded Mailbox Admin
▼ Server Information
System Status
Alarm Summary

Customer Options (Read Only)

Customer Options Available	Current	Max
SyncWithLicense	ON	N/A
Messaging Application	ON	N/A
Number of Mailboxes Purchased	100	N/A
voice_ports	4	4

4. Select **IMAP/SMTP Administration→General Options** and ensure that **SMTP public LAN access enabled** and **SMTP SSL on alternate port enabled** are set to **yes** if message networking to Microsoft Exchange is desired.
5. **IMAP4 client access enabled** and **IMAP4 SSL on alternate port enabled** are set to **yes** on this configuration so that IMAP clients can be used to withdraw messages from the Avaya IA770.

Messaging Administration - Windows Internet Explorer

AVAYA IA 770 Intuity™ Audix® Messaging Administration

This server: s8400-1

Help

- ▼ Messaging
 - ▼ Server Administration
 - External Hosts
 - ▼ IMAP/SMTP Administration
 - General Options
 - Mail Options
 - SMTP Status
 - AUDIX Networked Machine
 - Excluded Mailbox Admin
 - ▼ Server Information
 - System Status
 - Alarm Summary
 - Voice Channel Monitor
 - Server Notes
 - ▼ Utilities
 - Start Messaging
 - Stop Messaging
 - ▼ Logs
 - Administration History
 - Administrator
 - Alarm
 - Backup
 - Software Management
 - IMAP/SMTP Messaging
 - Restore
 - ▼ Reports
 - System Evaluation
 - IMAP/SMTP Traffic
 - ▼ Diagnostics
 - SMTP Connection
 - POP3 Connection
 - IMAP4 Connection

General Options and Settings

[Maximum number of INCOMING SMTP sessions:](#) 3 ▼

[Maximum number of OUTGOING SMTP sessions:](#) 2 ▼

[Put RFC822 headers into text?](#) no ▼

[Accept mail from Trusted Server?](#) yes ▼

[POP3 client access enabled?](#) no ▼

[POP3 SSL on alternate port enabled?](#) no ▼

[IMAP4 client access enabled?](#) yes ▼

[IMAP4 SSL on alternate port enabled?](#) yes ▼

[SMTP public LAN access enabled?](#) yes ▼

[SMTP SSL on alternate port enabled?](#) yes ▼

[LDAP public LAN access enabled?](#) no

[LDAP SSL on alternate port enabled?](#) no

Save Help

6. Select **IMAP/SMTP Administration→Mail Options**. Leave this form unchanged to allow the Avaya IA770 to use DNS to find an SMTP server as a next destination for mail. For example, if a voice message is destined for splitter@smm.com, the IA770 will query the DNS server to find the email system for smm.com. In this configuration, that server will be a Microsoft Exchange Server.

The screenshot shows a web browser window titled "Messaging Administration - Windows Internet Explorer". The page header includes the Avaya logo and "IA 770 Intuity™ Audix® Messaging Administration". A status bar at the top right indicates "This server: s8400-1".

The left sidebar contains a navigation menu with the following items:

- Help
- ▼ Messaging Administration
 - Customer Options
 - Messaging
 - ▼ Server Administration
 - External Hosts
 - ▼ IMAP/SMTP Administration
 - General Options
 - Mail Options**
 - SMTP Status
 - AUDIX Networked Machine
 - Excluded Mailbox Admin
- ▼ Server Information
 - System Status
 - Alarm Summary
 - Voice Channel Monitor
 - Server Notes
- ▼ Utilities
 - Start Messaging
 - Stop Messaging
- ▼ Logs
 - Administration History
 - Administrator
 - Alarm
 - Backup
 - Software Management
 - IMAP/SMTP Messaging
 - Restore
- ▼ Reports
 - System Evaluation
 - IMAP/SMTP Traffic
- ▼ Diagnostics

The main content area is titled "Mail Options" and contains the following configuration fields:

Mailbox Gateway Machine Name	☐ If set, all outgoing mail is delivered to this machine
Server Alias	
Warn about undeliverable mail after	never
Report undeliverable mail and delete it after	never
Check for mail every	10 seconds
Replace this DID string...	
...with this string	

At the bottom of the form are "Save" and "Help" buttons.

7. Select **IMTP/SMTP Administration**→**Audix Networked Machine**. Enter the name of an Audix system that mail might be received from and that system's Fully Qualified Internet Host Name in the **Networked Machine Name** and **Fully Qualified Internet Host Name** text boxes, respectively. Select **Add** and ensure that the name becomes listed in the **Remove AUDIX Networked Machine** drop-down box. These entries are used by the Avaya IA770 to modify the mail headers that desktop clients can use for replies.

8. Select **Switch Administration**→**Switch Link Admin** and ensure that the **Extension Length** is set to the length of the mailboxes to be used in this configuration.

Messaging Administration - Windows Internet Explorer

AVAYA IA 770 Intuity™ Audix® Messaging Administration

Help This server: s8400-1

Switch Link Administration

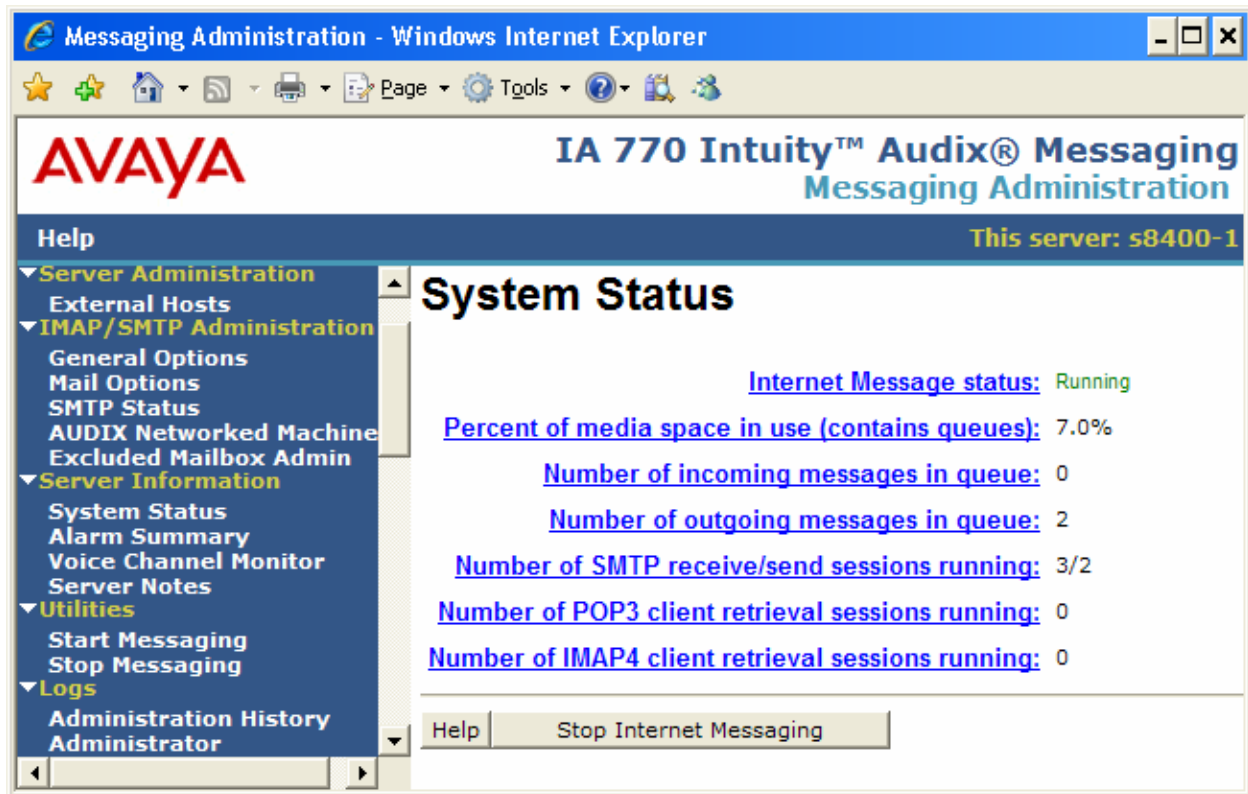
Switch Number: 1

Extension Length: 4

Audix Number: 1

Submit Help

9. Select **IMAP/SMTP Administration**→**SMTP Status**. Ensure that the **Internet Message status** shows **Running**. Otherwise, select **Start Internet Messaging** (not shown.)



4.1. Avaya IA770 Command Line Interface Configuration

This section describes the Avaya IA770 Command Line Interface configuration relative to message networking. The example is from the Avaya S8300 Server IA770, but the Avaya S8400 IA770 configuration was similar.

1. Log in to the Avaya IA770 using one of the terminal emulation options and the appropriate credentials.
2. The **display machine name** command, where the Avaya S8300 Server IA770 **name** is **g350-1**, shows that the **Machine Type** is **tcpip** and the **Address Ranges** section is set for the mailbox range for this site.

g350-1	Active	Alarms:	A	Logins: 2
display machine				Page 1 of 2
MACHINE PROFILE				
Machine Name: g350-1	Machine Type: tcpip	Location: local		
Voiced Name? n	Extension Length: 4			
Voice ID: 0	Default Community: 1			
ADDRESS RANGES				
Prefix	Start Ext.	End Ext.	Warnings	
1:	2000	2999		
2:				

3. The **display machine name** command, where the Avaya S8400 Server IA770 **name** is **s8400-1** shows that the **Machine Type** is **tcpip**, the **Extension Length** matches that of the associated remote system and the **Address Ranges** section matches the remote site. (Use the “add machine name” command to add information about a remote AUDIX machine.)

g350-1	Active	Alarms:	A	Logins: 2
display machine s8400-1				Page 1 of 2
MACHINE PROFILE				
Machine Name: s8400-1	Machine Type: tcpip	Location: remote		
Voiced Name? n	Extension Length: 4			
Voice ID: 2	Default Community: 1			
ADDRESS RANGES				
Prefix	Start Ext.	End Ext.	Warnings	
1:	3000	3999		

4. The **system-parameters features** form includes the settings for rescheduling unsuccessful messages.

g350-1	Active	Alarms: A	Logins: 2
display system-parameters features			Page 3 of 4
SYSTEM-PARAMETERS FEATURES			
CALL TRANSFER OUT OF AUDIX			
Transfer Type: none		Transfer Restriction: subscribers	
Covering Extension:			
ANNOUNCEMENT SETS			
System: us-eng		Administrative:	
RESCHEDULING INCREMENTS FOR UNSUCCESSFUL MESSAGE DELIVERY			
Incr 1: 0 days 0 hrs 5 mins		Incr 2: 0 days 0 hrs 15 mins	
Incr 3: 0 days 0 hrs 30 mins		Incr 4: 0 days 1 hrs 0 mins	
Incr 5: 0 days 2 hrs 0 mins		Incr 6: 0 days 6 hrs 0 mins	
Incr 7: 1 days 0 hrs 0 mins		Incr 8: 2 days 0 hrs 0 mins	
Incr 9: 7 days 0 hrs 0 mins		Incr10: 14 days 0 hrs 0 mins	

5. The **display subscriber *subscriber*** form shows the **Email Address** that can be used, for example, by a Microsoft Exchange user to address messages to an IA770 account.

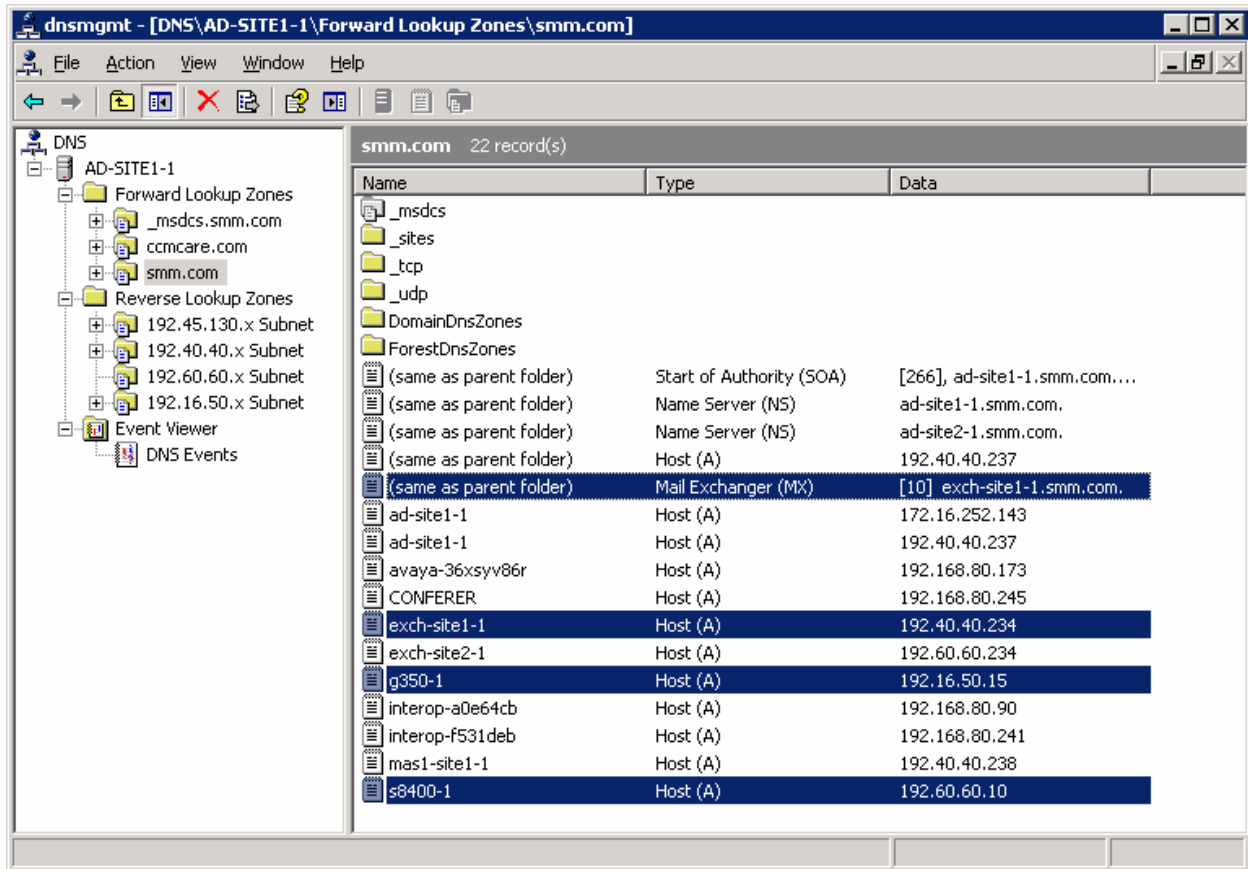
g350-1	Active	Alarms: A	Logins: 2
display subscriber 2345			Page 1 of 2
SUBSCRIBER			
Name: mr g350-1		Locked? n	
Extension: 2345		Password:	
COS: class00		Miscellaneous 1:	
Switch Number: 1		Miscellaneous 2:	
Community ID: 1		Miscellaneous 3:	
Secondary Ext:		Miscellaneous 4:	
Account Code:		Covering Extension:	
		Broadcast Mailbox? n	
Email Address: 2345@g350-1.smm.com			

6. On page 2 of the subscriber form, note that **IMAPI Access** and **IMAPI Message Transfer** can be enabled to allow an IMAP client to retrieve messages. (Be aware of the IA770's limit on the number of simultaneous IMAP sessions to a login.)

SUBSCRIBER CLASS OF SERVICE PARAMETERS		
Addressing Format: extension		
Login Announcement Set: System		
System Multilingual is ON		
Call Answer Primary Annc. Set: System		
Call Answer Language Choice? n		
Call Answer Secondary Annc. Set: System		
PERMISSIONS		
Type: call-answer	Announcement Control? n	Outcalling? n
Priority Messages? y	Broadcast: none	IMAPI Access? y
IMAPI Message Transfer? y	Fax Creation? y	Trusted Server Access? y
INCOMING MAILBOX		
Order: fifo	Category Order: nuo	
Retention Times (days), New: 10	Old: 10	Unopened: 10
OUTGOING MAILBOX		
Order: fifo	Category Order: unfda	
Retention Times(days), File Cab: 10	Delivered/Nondeliverable: 5	
Voice Mail Message (seconds), Maximum Length: 1200		
Minimum Needed: 32		
Call Answer Message (seconds), Maximum Length: 1200		
Minimum Needed: 8		
End of Message Warning Time (seconds):		
Maximum Mailing Lists: 25		
Total Entries in all Lists: 250		
Mailbox Size (seconds), Maximum: 8400		
Minimum Guarantee: 0		

5. Domain Name Server

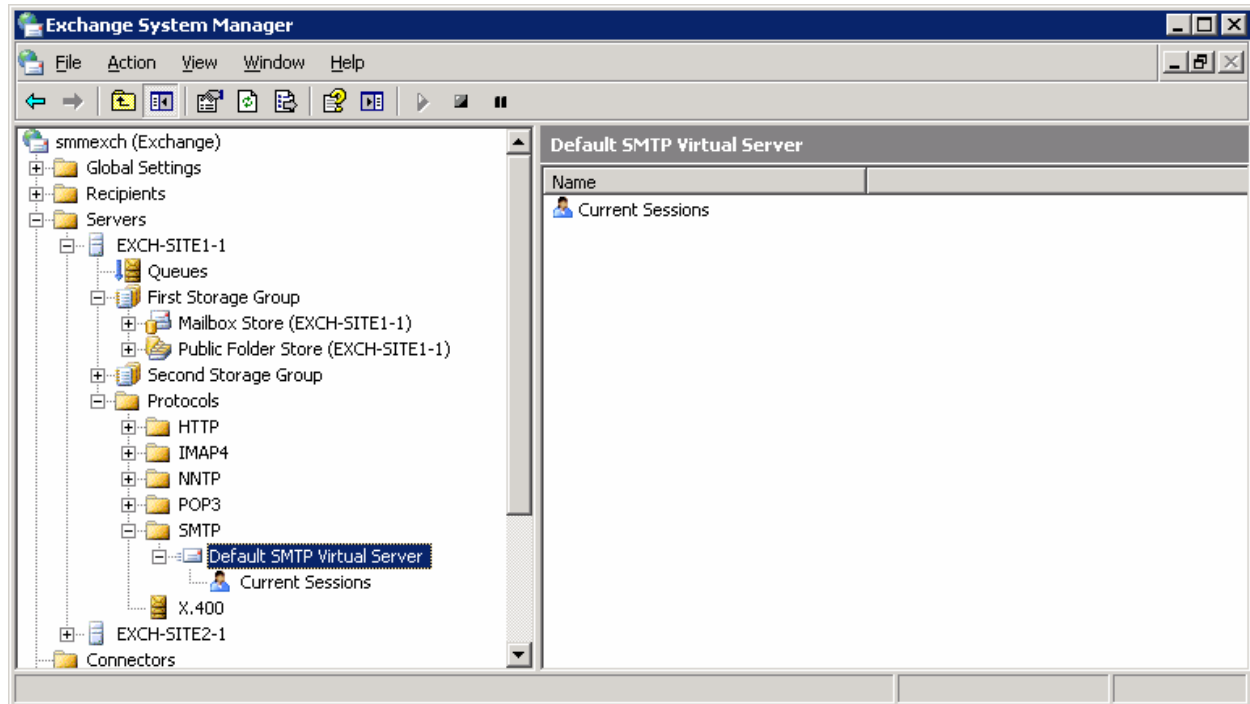
The following screen shot of the Microsoft DNS application shows the key DNS entries involved in this setup, including an entry for each Avaya IA770 system (**g350-1** and **s8400-1**) and the Microsoft Exchange server (**exch-site1-1**).



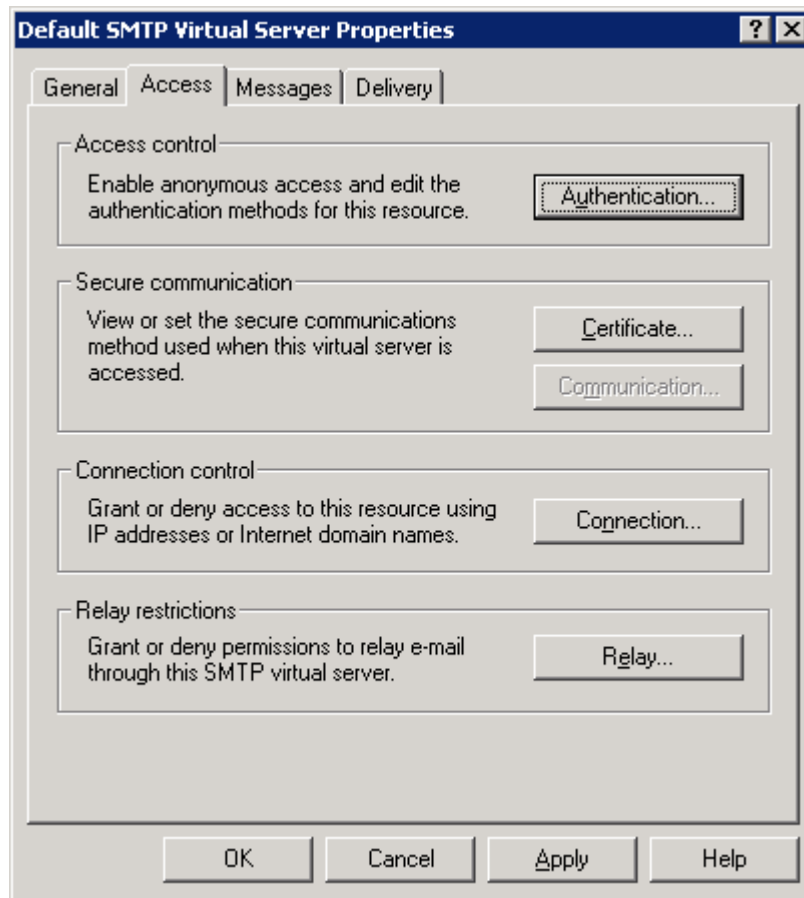
6. Microsoft Exchange Configuration

This section covers the specific points about the Microsoft Exchange configuration relative to the interworking with Avaya IA770.

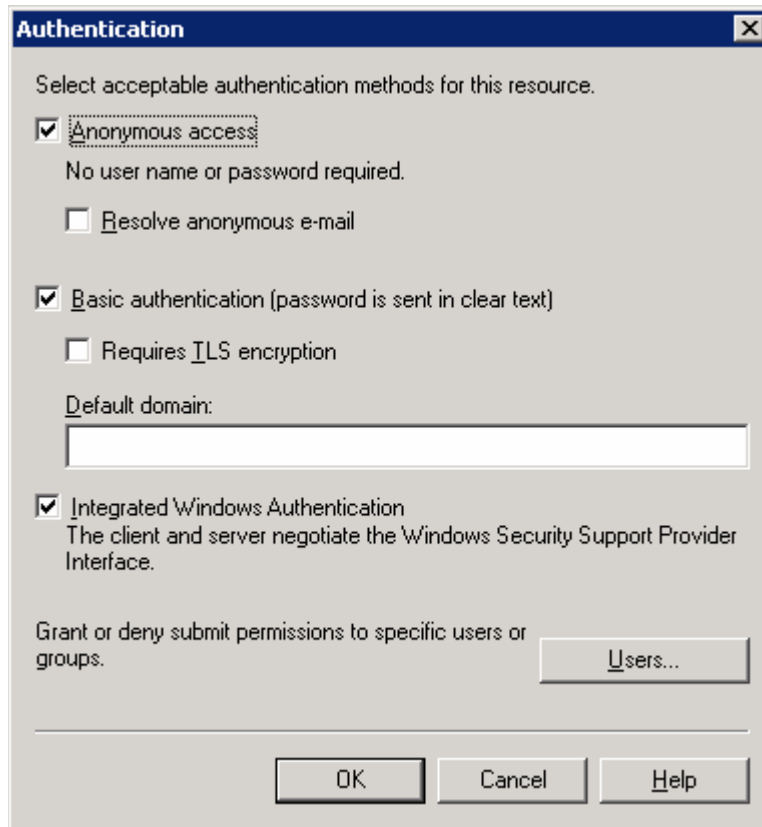
1. Run the Exchange System Manager and under **Servers**→**EXCH-SITE1-1**→**Protocols**→**SMTP** verify that the SMTP service is running by right clicking on the name of the SMTP Virtual Server and see that the **Start** item is grayed out.
2. From the same right click menu, select **Properties** and then select the **Access** tab.



3. Select **Authentication...**



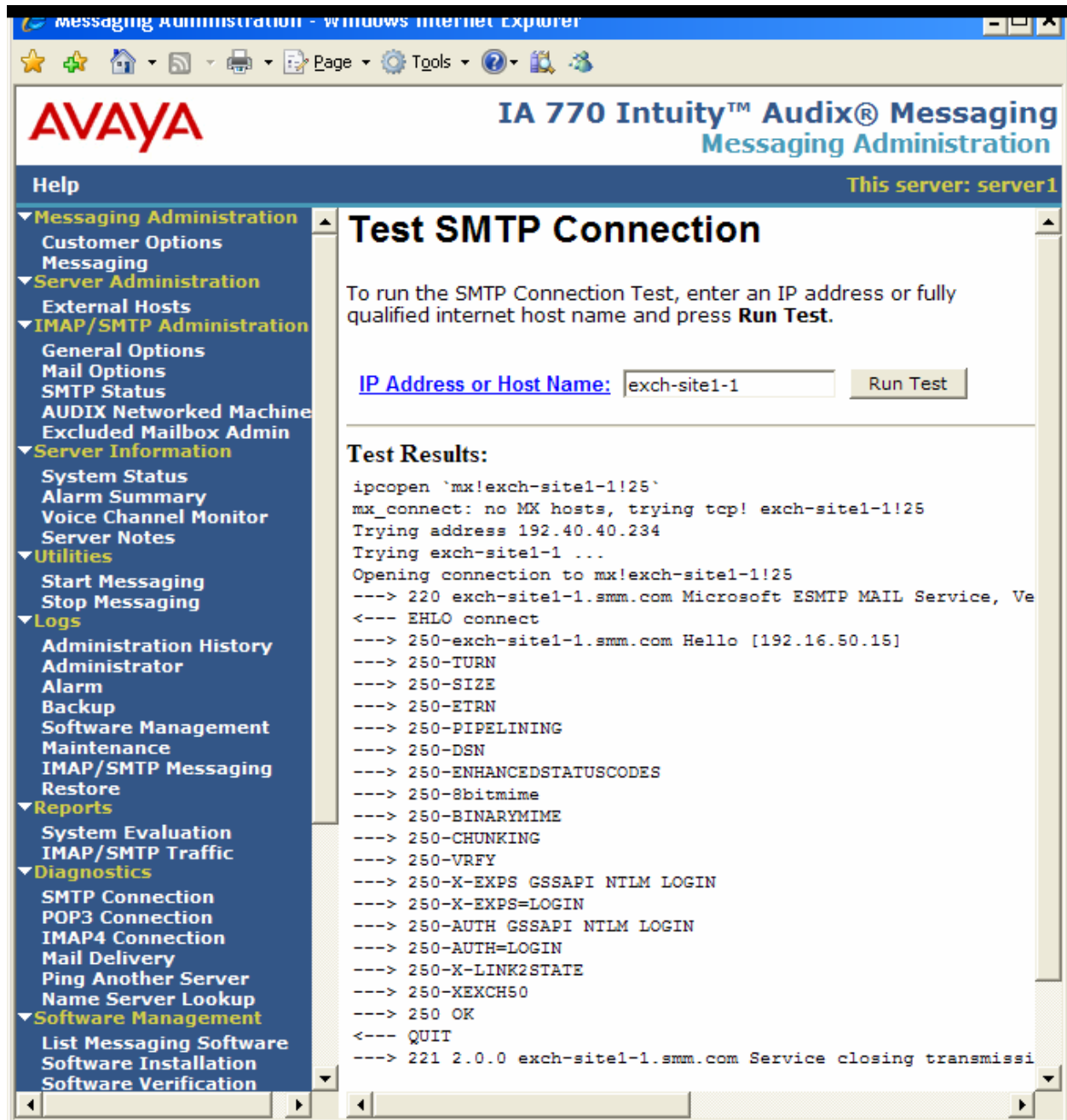
4. As shown in this example, **Anonymous access** was enabled for the Avaya IA770 systems to use.



7. Verification and Troubleshooting

- Create and send messages from each system to users on each of the other messaging systems to validate reception.
- If a message is not delivered:
 - From the Avaya IA770 Messaging Administration Web Interface, select **SMTP Status** as shown in **Section 4, Step 10** to verify that the **Internet Message** status is **Running**.

- From the Avaya IA770 Messaging Administration Web Interface, select **Diagnostics**→**SMTP Connection**, enter the destination server in the **IP Address or Host Name** field, click **Run Test**, and verify that the SMTP protocol handshakes successfully. This test can be run with the IA770 itself, as the SMTP host, to verify that its SMTP service is running.



- If there is a failure, depending on the type, checking the **Ping Another Server** or **Name Server Lookup** Diagnostics might help pinpoint the issue.

- Check the **Logs→IMAP/SMTP Messaging** entries for confirmation as to how far the message progressed.
- From the Avaya IA770 command line, useful tools include the **list measurements subscriber day ext** command as shown:

```

s8400-1      Active      Alarms:  A      Logins: 1
list measurements subscriber day 3456      Page 1

      SUBSCRIBER DAILY TRAFFIC

Name: s8400-3456      Extension: 3456
Date: 12/13/07      Ending time: 16:02

      Community ID: 1
Mailbox Space Used: 18      Space Allowed : 8400
Maximum Space Used: 30      Space Guaranteed : 0

SESSION TRAFFIC

      CALL ANSWER      VOICE MAIL
      Prime      Non-Prime      Prime      Non-Prime
Sessions      : 0      0      31      24
Session Usage : 0      0      8004      18000

Press [NextPage], [PrevPage] or [Cancel]

```

```

s8400-1      Active      Alarms:  A      Logins: 1
list measurements subscriber day 3456      Page 2

      SUBSCRIBER DAILY TRAFFIC

Name: s8400-3456      Extension: 3456
Date: 12/13/07      Ending time: 16:02

VOICE MAIL MESSAGES RECEIVED      Prime      Non-Prime
Local Mail Messages      : 1      0
Voice Components      : 0      0
FAX Components      : 0      0
Binary Attachments      : 1      0
Text Components      : 0      0
Remote Mail Messages      : 4      0
Voice Components      : 1      0
FAX Components      : 0      0
Binary Attachments      : 1      0
Text Components      : 3      0
Undeliverable Notifications      : 1      0

CALL ANSWER MESSAGES RECEIVED      : 0      0
Voice Components      : 0      0
FAX Components      : 0      0

```

8. Conclusion

This document shows an example where an Avaya S8300 Server IA770 and an Avaya S8400 Server IA770 can be configured to support Message Networking. Users can create and forward messages between IA770 applications and to and from the Microsoft Exchange server.

9. Additional References

From support.avaya.com:

- [S8300_INST] “Installing and Upgrading the Avaya G700 and Avaya S8300 Media Server”
- [S8400_INST] “Installing and Configuring the Avaya S8400 Media Server”
- [IA770_Server] “Avaya IA 770 INTUITY AUDIX Messaging Application Release 4.0 Administering Media Servers to Work with IA 770”
- [INT_ADMIN] “IA 770 INTUITY AUDIX Messaging Application Documentation”

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APPENDIX A: Avaya Communication Manager Configuration

This section displays system settings which, while required for general messaging configurations, are not specific to message networking and so are not described.

This section follows the instructions of [IA770_Server]. The considerations are the same for the Avaya S8300 and S8400 Servers except that extension and IP address ranges are assigned specifically (x2xxx to the S8300 Server and x3xxx of the S8400 server). Please see [IA770_Server] for further instruction detail.

display system-parameters customer-options		Page 2 of 10
OPTIONAL FEATURES		
IP PORT CAPACITIES		USED
Maximum Administered H.323 Trunks: 200		9
Maximum Concurrently Registered IP Stations: 450		2
Maximum Administered Remote Office Trunks: 0		0
Maximum Concurrently Registered Remote Office Stations: 0		0
Maximum Concurrently Registered IP eCons: 0		0
Max Concur Registered Unauthenticated H.323 Stations: 0		0
Maximum Video Capable H.323 Stations: 0		0
Maximum Video Capable IP Softphones: 0		0
Maximum Administered SIP Trunks: 0		0
Maximum Administered Ad-hoc Video Conferencing Ports: 0		0
Maximum Number of DS1 Boards with Echo Cancellation: 0		0
Maximum TN2501 VAL Boards: 0		0
Maximum Media Gateway VAL Sources: 0		0
Maximum TN2602 Boards with 80 VoIP Channels: 0		0
Maximum TN2602 Boards with 320 VoIP Channels: 0		0
Maximum Number of Expanded Meet-me Conference Ports: 0		0
(NOTE: You must logoff & login to effect the permission changes.)		

display system-parameters customer-options		Page 3 of 10
OPTIONAL FEATURES		
Abbreviated Dialing Enhanced List? n	Audible Message Waiting? n	
Access Security Gateway (ASG)? n	Authorization Codes? n	
Analog Trunk Incoming Call ID? n	CAS Branch? n	
A/D Grp/Sys List Dialing Start at 01? n	CAS Main? n	
Answer Supervision by Call Classifier? n	Change COR by FAC? n	
ARS? y	Computer Telephony Adjunct Links? n	
ARS/AAR Partitioning? y	Cvg Of Calls Redirected Off-net? n	
ARS/AAR Dialing without FAC? n	DCS (Basic)? n	
ASAI Link Core Capabilities? n	DCS Call Coverage? n	
ASAI Link Plus Capabilities? n	DCS with Rerouting? n	
Async. Transfer Mode (ATM) PNC? n		
Async. Transfer Mode (ATM) Trunking? n	Digital Loss Plan Modification? n	
ATM WAN Spare Processor? n	DS1 MSP? n	
ATMS? n	DS1 Echo Cancellation? n	
Attendant Vectoring? n		

display system-parameters customer-options Page 4 of 10
OPTIONAL FEATURES

Emergency Access to Attendant? y	IP Stations? y
Enable 'dadmin' Login? y	
Enhanced Conferencing? n	ISDN Feature Plus? n
Enhanced EC500? n	ISDN/SIP Network Call Redirection? n
Enterprise Survivable Server? n	ISDN-BRI Trunks? n
Enterprise Wide Licensing? n	ISDN-PRI? y
ESS Administration? n	Local Survivable Processor? n
Extended Cvg/Fwd Admin? n	Malicious Call Trace? n
External Device Alarm Admin? n	Media Encryption Over IP? n
Five Port Networks Max Per MCC? n	Mode Code for Centralized Voice Mail? n
Flexible Billing? n	
Forced Entry of Account Codes? n	Multifrequency Signaling? y
Global Call Classification? n	Multimedia Call Handling (Basic)? n
Hospitality (Basic)? y	Multimedia Call Handling (Enhanced)? n
Hospitality (G3V3 Enhancements)? n	Multimedia IP SIP Trunking? n
IP Trunks? y	
IP Attendant Consoles? n	

(NOTE: You must logoff & login to effect the permission changes.)

display system-parameters customer-options Page 5 of 10
OPTIONAL FEATURES

Multinational Locations? n	Station and Trunk MSP? n
Multiple Level Precedence & Preemption? n	Station as Virtual Extension? n
Multiple Locations? n	
Personal Station Access (PSA)? n	System Management Data Transfer? n
PNC Duplication? n	Tenant Partitioning? n
Port Network Support? n	Terminal Trans. Init. (TTI)? n
Posted Messages? n	Time of Day Routing? n
	TN2501 VAL Maximum Capacity? y
Private Networking? y	Uniform Dialing Plan? y
Processor and System MSP? n	Usage Allocation Enhancements? y
Processor Ethernet? y	
	Wideband Switching? n
Remote Office? n	Wireless? n
Restrict Call Forward Off Net? y	
Secondary Data Module? y	

(NOTE: You must logoff & login to effect the permission changes.)

display system-parameters customer-options Page 8 of 10
QSIG OPTIONAL FEATURES

Basic Call Setup? y
Basic Supplementary Services? y
Centralized Attendant? n
Interworking with DCS? n
Supplementary Services with Rerouting? y
Transfer into QSIG Voice Mail? y
Value-Added (VALU)? y

(NOTE: You must logoff & login to effect the permission changes.)

display dialplan analysis

Page 1 of 12

DIAL PLAN ANALYSIS TABLE

Location: all

Percent Full: 2

	Dialed String	Total Length	Call Type	Dialed String	Total Length	Call Type	Dialed String	Total Length	Call Type
1		3	dac						
2		4	ext						
3		4	udp						
4		4	udp						
6		10	ext						
7		13	ext						
8		1	dac						

display feature-access-codes

Page 1 of 6

FEATURE ACCESS CODE (FAC)

Abbreviated Dialing List1 Access Code:
Abbreviated Dialing List2 Access Code:
Abbreviated Dialing List3 Access Code:
Abbreviated Dial - Prgm Group List Access Code:
Announcement Access Code:
Answer Back Access Code:
Attendant Access Code:
Auto Alternate Routing (AAR) Access Code: 8
Auto Route Selection (ARS) - Access Code 1: Access Code 2:
Automatic Callback Activation: Deactivation:
Call Forwarding Activation Busy/DA: All: Deactivation:
Call Forwarding Enhanced Status: Act: Deactivation:
Call Park Access Code:
Call Pickup Access Code:
CAS Remote Hold/Answer Hold-Unhold Access Code:
CDR Account Code Access Code:
Change COR Access Code:
Change Coverage Access Code:
Contact Closure Open Code: Close Code:

change system-parameters features

Page 1 of 17

FEATURE-RELATED SYSTEM PARAMETERS

Self Station Display Enabled? n
Trunk-to-Trunk Transfer: all
Automatic Callback - No Answer Timeout Interval (rings): 3
Call Park Timeout Interval (minutes): 10
Off-Premises Tone Detect Timeout Interval (seconds): 20
AAR/ARS Dial Tone Required? y
Music/Tone on Hold: none
Music (or Silence) on Transferred Trunk Calls? no
DID/Tie/ISDN/SIP Intercept Treatment: attd
Internal Auto-Answer of AttD-Extended/Transferred Calls: transferred
Automatic Circuit Assurance (ACA) Enabled? n

Abbreviated Dial Programming by Assigned Lists? n
Auto Abbreviated/Delayed Transition Interval (rings): 2
Protocol for Caller ID Analog Terminals: Bellcore
Display Calling Number for Room to Room Caller ID Calls? n

change system-parameters features

Page 8 of 17

FEATURE-RELATED SYSTEM PARAMETERS

ISDN PARAMETERS

Send Non-ISDN Trunk Group Name as Connected Name? n
Display Connected Name/Number for ISDN DCS Calls? n
Send ISDN Trunk Group Name on Tandem Calls? n

PARAMETERS FOR CREATING QSIG SELECTION NUMBERS

Network Level:
Level 2 Code:
Level 1 Code:

QSIG/ETSI TSC Extension: 2999
MWI - Number of Digits Per Voice Mail Subscriber: 4

National CPN Prefix:
International CPN Prefix:
Pass Prefixed CPN to ASAI? n
Unknown Numbers Considered Internal for AUDIX? y
USNI Calling Name for Outgoing Calls? n
Path Replacement with Measurements? y
QSIG Path Replacement Extension: 2998
Path Replace While in Queue/Vectoring? y

Maximum Length: 4

display dialplan parameters

DIAL PLAN PARAMETERS

Local Node Number: 1
ETA Node Number:
ETA Routing Pattern:
UDP Extension Search Order: local-extensions-first

Retry ARS/AAR Analysis If All-Location Entry Inaccessible? n

EXTENSION DISPLAY FORMATS

	Inter-Location/SAT	Intra-Location
6-Digit Extension:	xx.xx.xx	xx.xx.xx
7-Digit Extension:	xxx-xxx	xxx-xxx
8-Digit Extension:	xx.xx.xx.xx	xx.xx.xx.xx
9-Digit Extension:	xxx-xxx-xxx	xxx-xxx-xxx
10-Digit Extension:	xxx-xxx-xxx	xxx-xxx-xxx
11-Digit Extension:	xxxx-xxx-xxx	xxxx-xxx-xxx
12-Digit Extension:	xxxxxx-xxxxxx	xxxxxx-xxxxxx
13-Digit Extension:	xxxxxxxxxxxx	xxxxxxxxxxxx

display node-names ip

IP NODE NAMES

Page 1 of 2

Name	IP Address
default	0.0.0.0
g650-clan	192.60.60.5
messaging	192.16.50.50
procr	192.16.50.15

```
display ip-interface proc
```

IP INTERFACES

Type: PROCR

Node Name: procr
IP Address: 192.16 .50 .15
Subnet Mask: 255.255.255.0

Enable Ethernet Port? y
Network Region: 1

Allow H.323 Endpoints? y
Allow H.248 Gateways? y
Gatekeeper Priority: 5

Target socket load: 1700

```
display ip-network-region 1
```

Page 1 of 19

IP NETWORK REGION

Region: 1
Location: 1 Authoritative Domain: smm.com
Name: g350-1 local
MEDIA PARAMETERS Intra-region IP-IP Direct Audio: yes
Codec Set: 1 Inter-region IP-IP Direct Audio: yes
UDP Port Min: 2048 IP Audio Hairpinning? n
UDP Port Max: 3329
DIFFSERV/TOS PARAMETERS RTCP Reporting Enabled? y
Call Control PHB Value: 46 RTCP MONITOR SERVER PARAMETERS
Audio PHB Value: 46 Use Default Server Parameters? y
Video PHB Value: 26
802.1P/Q PARAMETERS
Call Control 802.1p Priority: 6
Audio 802.1p Priority: 6
Video 802.1p Priority: 5 AUDIO RESOURCE RESERVATION PARAMETERS
H.323 IP ENDPOINTS RSVP Enabled? n
H.323 Link Bounce Recovery? y
Idle Traffic Interval (sec): 20
Keep-Alive Interval (sec): 5
Keep-Alive Count: 5

```
change ip-codec-set 1
```

Page 1 of 2

IP Codec Set

Codec Set: 1

	Audio Codec	Silence Suppression	Frames Per Pkt	Packet Size(ms)
1:	G.711MU	n	2	20
2:				
3:				
4:				
5:				
6:				
7:				

display ip-codec-set 1

Page 2 of 2

IP Codec Set

Allow Direct-IP Multimedia? n

	Mode	Redundancy
FAX	t.38-standard	0
Modem	off	0
TDD/TTY	US	3
Clear-channel	n	0

display signaling-group 1

SIGNALING GROUP

Group Number: 1 Group Type: h.323
Remote Office? n Max number of NCA TSC: 5
SBS? n Max number of CA TSC: 5
IP Video? n Trunk Group for NCA TSC: 1
Trunk Group for Channel Selection: 1
TSC Supplementary Service Protocol: b
T303 Timer(sec): 10

Near-end Node Name: procr Far-end Node Name: messaging
Near-end Listen Port: 1720 Far-end Listen Port: 1720
Far-end Network Region: 1
LRQ Required? n Calls Share IP Signaling Connection? y
RRQ Required? n

DTMF over IP: out-of-band Bypass If IP Threshold Exceeded? n
Link Loss Delay Timer(sec): 90 H.235 Annex H Required? n
Enable Layer 3 Test? n Direct IP-IP Audio Connections? n
IP Audio Hairpinning? n
Interworking Message: PROGRESS
DCP/Analog Bearer Capability: 3.1kHz

display trunk-group 1

Page 1 of 21

TRUNK GROUP

Group Number: 1 Group Type: isdn CDR Reports: y
Group Name: messaging COR: 1 TN: 1 TAC: 101
Direction: two-way Outgoing Display? n Carrier Medium: H.323
Dial Access? n Busy Threshold: 255 Night Service:
Queue Length: 0
Service Type: tie Auth Code? n
Member Assignment Method: auto
Signaling Group: 1
Number of Members: 4

display trunk-group 1

Page 2 of 21

Group Type: isdn

TRUNK PARAMETERS

Codeset to Send Display: 6 Codeset to Send National IEs: 6
Charge Advice: none
Supplementary Service Protocol: b Digit Handling (in/out): enbloc/enbloc

Digital Loss Group: 18
Incoming Calling Number - Delete: Insert: Format: pub-unk

Disconnect Supervision - In? y Out? n
Answer Supervision Timeout: 0

display trunk-group 1 Page 3 of 21
 TRUNK FEATURES
 ACA Assignment? n Measured: none
 Internal Alert? n Maintenance Tests? y
 Data Restriction? n NCA-TSC Trunk Member: 1
 Send Name: n Send Calling Number: y
 Hop Dgt? n Send EMU Visitor CPN? n
 Used for DCS? n Format: public
 Suppress # Outpulsing? n UUI IE Treatment: service-provider
 Replace Restricted Numbers? n
 Replace Unavailable Numbers? n
 Send Connected Number: n
 Hold/Unhold Notifications? y
 Modify Tandem Calling Number? n
 Send UUI IE? y
 Send UCID? n
 Send Codeset 6/7 LAI IE? y

display trunk-group 1 Page 4 of 21
 QSIG TRUNK GROUP OPTIONS

 TSC Method for Auto Callback: drop-if-possible
 Diversion by Reroute? y
 Path Replacement? y
 Path Replacement with Retention? n
 Path Replacement Method: better-route
 SBS? n
 Display Forwarding Party Name? y
 Character Set for QSIG Name: eurofont
 QSIG Value-Added? y
 QSIG-Value Coverage Encoding: proprietary

display route-pattern 1 Page 1 of 3
 Pattern Number: 1 Pattern Name: messaging
 Secure SIP? n

Grp No	FRL	NPA	Pfx	Hop	Toll	No.	Inserted	DCS/ IXC
No			Mrk	Lmt	List	Del	Digits	QSIG Intw
1:	1	0						n user
2:								n user
3:								n user
4:								n user
5:								n user
6:								n user

BCC VALUE	TSC	CA-TSC	ITC	BCIE	Service/Feature	PARM	No. Numbering	LAR
0 1 2 M 4 W		Request					Dgts Format	
1:	y y y y y n	y none	rest					rehu
2:	y y y y y n	n	rest					none
3:	y y y y y n	n	rest					none
4:	y y y y y n	n	rest					none
5:	y y y y y n	n	rest					none
6:	y y y y y n	n	rest					none

change aar analysis 2222 Page 1 of 2
 AAR DIGIT ANALYSIS TABLE
 Location: all Percent Full: 2

Dialed String	Total	Route	Call	Node	ANI
	Min Max	Pattern	Type	Num	Reqd
2222	4 4	1	aar		n
3	4 4	10	aar		n

display public-unknown-numbering 2					Page 1 of 2
NUMBERING - PUBLIC/UNKNOWN FORMAT					
Ext	Ext	Trk	CPN	Total	
Len	Code	Grp(s)	Prefix	CPN	
				Len	
4	2			4	Total Administered: 3
					Maximum Entries: 240

display hunt-group 1		Page 1 of 60	
HUNT GROUP			
Group Number: 1		ACD? n	
Group Name: messaging		Queue? n	
Group Extension: 2222		Vector? n	
Group Type: ucd-mia		Coverage Path:	
TN: 1		Night Service Destination:	
COR: 1		MM Early Answer? n	
Security Code:		Local Agent Preference? n	
ISDN/SIP Caller Display: grp-name			

display hunt-group 1		Page 2 of 60	
HUNT GROUP			
LWC Reception: none		AUDIX Name:	
Message Center: qsig-mwi			
Send Reroute Request: y			
Voice Mail Number: 2222			
Routing Digits (e.g. AAR/ARS Access Code): 8		Provide Ringback? n	
TSC per MWI Interrogation? n			

display coverage path 1			
COVERAGE PATH			
Coverage Path Number: 1		Hunt after Coverage? n	
Next Path Number:		Linkage	
COVERAGE CRITERIA			
Station/Group Status	Inside Call	Outside Call	
Active?	y	y	
Busy?	y	y	
Don't Answer?	y	y	Number of Rings: 2
All?	n	n	
DND/SAC/Goto Cover?	y	y	
Holiday Coverage?	n	n	
COVERAGE POINTS			
Terminate to Coverage Pts. with Bridged Appearances? n			
Point1: h1	Rng: 2	Point2:	
Point3:		Point4:	
Point5:		Point6:	

S8400 specific screen shots follow:

display node-names ip		Page	1 of	2
		IP NODE NAMES		
Name	IP Address			
clan-01a05	192.60.60.5			
default	0.0.0.0			
medpro-01a05	192.60.60.6			
messaging	192.60.60.50			
procr	192.60.60.10			
site1-voice	192.16.50.15			

```
display ip-interface procr
```

IP INTERFACES

Type: PROCR

Node Name: procr
IP Address: 192.60 .60 .10
Subnet Mask: 255.255.255.0

Enable Ethernet Port? y
Network Region: 1

Allow H.323 Endpoints? y
Allow H.248 Gateways? y
Gatekeeper Priority: 5

Target socket load: 1700

```
display ip-interface 01a05
```

IP INTERFACES

Type: C-LAN
Slot: 01A05
Code/Suffix: TN799 D
Node Name: clan-01a05
IP Address: 192.60 .60 .5
Subnet Mask: 255.255.255.0
Gateway Address: 192.60 .60 .1
Link: 1
Enable Ethernet Port? y
Network Region: 1
VLAN: n
Allow H.323 Endpoints? y
Allow H.248 Gateways? y
Gatekeeper Priority: 5

Target socket load and Warning level: 400
Receive Buffer TCP Window Size: 8320

ETHERNET OPTIONS

Auto? y

```
display ip-interface 01a06
```

IP INTERFACES

Critical Reliable Bearer? n
Type: MEDPRO
Slot: 01A06
Code/Suffix: TN2602
Node Name: medpro-01a05
IP Address: 192.60 .60 .6
Subnet Mask: 255.255.255.0
Gateway Address: 192.60 .60 .1
Enable Ethernet Port? y
Network Region: 1
VLAN: n
VOIP Channels: 80

ETHERNET OPTIONS

Auto? y

```
display ip-interface 01a06
```

IP INTERFACES

```
      Critical Reliable Bearer? n
      Type: MEDPRO
      Slot: 01A06
      Code/Suffix: TN2602
      Node Name: medpro-01a05
      IP Address: 192.60 .60 .6
      Subnet Mask: 255.255.255.0
      Gateway Address: 192.60 .60 .1
      Enable Ethernet Port? y
      Network Region: 1
      VLAN: n
      VOIP Channels: 80
```

ETHERNET OPTIONS

```
      Auto? y
```

```
display ip-interface 01a06
```

IP INTERFACES

```
      Critical Reliable Bearer? n
      Type: MEDPRO
      Slot: 01A06
      Code/Suffix: TN2602
      Node Name: medpro-01a05
      IP Address: 192.60 .60 .6
      Subnet Mask: 255.255.255.0
      Gateway Address: 192.60 .60 .1
      Enable Ethernet Port? y
      Network Region: 1
      VLAN: n
      VOIP Channels: 80
```

ETHERNET OPTIONS

```
      Auto? y
```

```
display signaling-group 1
```

SIGNALING GROUP

```
Group Number: 1          Group Type: h.323
                          Remote Office? n      Max number of NCA TSC: 5
                          SBS? n               Max number of CA TSC: 5
                          IP Video? n          Trunk Group for NCA TSC: 1
                          Trunk Group for Channel Selection: 1
                          TSC Supplementary Service Protocol: b
                          T303 Timer(sec): 10

Near-end Node Name: procr      Far-end Node Name: messaging
Near-end Listen Port: 1720     Far-end Listen Port: 1720
                               Far-end Network Region: 1
                               Calls Share IP Signaling Connection? y

                               Bypass If IP Threshold Exceeded? n
                               H.235 Annex H Required? n
                               Direct IP-IP Audio Connections? y
                               IP Audio Hairpinning? n
                               Interworking Message: PROgress
                               DCP/Analog Bearer Capability: 3.1kHz

LRQ Required? n
RRQ Required? n

DTMF over IP: out-of-band
Link Loss Delay Timer(sec): 90
Enable Layer 3 Test? n
H.323 Outgoing Direct Media? n
```

display trunk-group 1 Page 1 of 21

TRUNK GROUP

Group Number: 1 Group Type: isdn CDR Reports: y
Group Name: messaging COR: 1 TN: 1 TAC: 101
Direction: two-way Outgoing Display? n Carrier Medium: H.323
Dial Access? n Busy Threshold: 255 Night Service:
Queue Length: 0
Service Type: tie Auth Code? n
Member Assignment Method: auto
Signaling Group: 1
Number of Members: 8

display trunk-group 1 Page 2 of 21

Group Type: isdn

TRUNK PARAMETERS

Codeset to Send Display: 6 Codeset to Send National IEs: 6
Charge Advice: none
Supplementary Service Protocol: b Digit Handling (in/out): enbloc/enbloc
Digital Loss Group: 18
Incoming Calling Number - Delete: Insert: Format: pub-unk
Disconnect Supervision - In? y Out? n
Answer Supervision Timeout: 0

TRUNK FEATURES

ACA Assignment? n Measured: none
Internal Alert? n Maintenance Tests? y
Data Restriction? n NCA-TSC Trunk Member: 1
Send Name: n Send Calling Number: y
Hop Dgt? n Send EMU Visitor CPN? n
Used for DCS? n
Suppress # Outpulsing? n Format: public
UUI IE Treatment: service-provider
Replace Restricted Numbers? n
Replace Unavailable Numbers? n
Send Called/Busy/Connected Number: n
Hold/Unhold Notifications? y
Modify Tandem Calling Number? n
Send UUI IE? y
Send UCID? n
Send Codeset 6/7 LAI IE? y

display trunk-group 1 Page 4 of 21

QSIG TRUNK GROUP OPTIONS

TSC Method for Auto Callback: drop-if-possible
Diversion by Reroute? y
Path Replacement? y
Path Replacement with Retention? n
Path Replacement Method: better-route
SBS? n
Display Forwarding Party Name? y
Character Set for QSIG Name: eurofont
QSIG Value-Added? y
QSIG-Value Coverage Encoding: proprietary

display route-pattern 1										Page	1 of 3
Pattern Number: 1										Pattern Name: messaging	
										Secure SIP? n	
Grp	FRL	NPA	Pfx	Hop	Toll	No.	Inserted		DCS/	IXC	
No			Mrk	Lmt	List	Del	Digits		QSIG		
								Intw			
1:	1	0							n	user	
2:									n	user	
3:									n	user	
4:									n	user	
5:									n	user	
6:									n	user	
BCC VALUE		TSC	CA-TSC	ITC		BCIE	Service/Feature	PARM	No. Numbering	LAR	
0 1 2 M 4 W			Request						Dgts Format		
								Subaddress			
1:	y	y	y	y	y	n	y	none	rest	rehu	
2:	y	y	y	y	y	n	n		rest	none	
3:	y	y	y	y	y	n	n		rest	none	
4:	y	y	y	y	y	n	n		rest	none	
5:	y	y	y	y	y	n	n		rest	none	
6:	y	y	y	y	y	n	n		rest	none	

display aar analysis 2										Page	1 of 2
AAR DIGIT ANALYSIS TABLE											
Location: all Percent Full: 3											
Dialed String		Total		Route	Call	Node	ANI				
		Min	Max	Pattern	Type	Num	Reqd				
2		4	4	2	aar		n				
2		7	7	254	aar		n				
3		7	7	254	aar		n				
3333		4	4	1	aar		n				
4		7	7	254	aar		n				
5		7	7	254	aar		n				
6		7	7	254	aar		n				
7		7	7	254	aar		n				
8		7	7	254	aar		n				
9		7	7	254	aar		n				

change public-unknown-numbering 1					Page 1 of 2
NUMBERING - PUBLIC/UNKNOWN FORMAT					
				Total	
Ext	Ext	Trk	CPN	CPN	
Len	Code	Grp(s)	Prefix	Len	
					Total Administered: 1
4	3			4	Maximum Entries: 240

display hunt-group 1		Page	1 of 60
HUNT GROUP			
Group Number: 1	ACD? n		
Group Name: messaging	Queue? n		
Group Extension: 3333	Vector? n		
Group Type: ucd-mia	Coverage Path:		
TN: 1	Night Service Destination:		
COR: 1	MM Early Answer? n		
Security Code:	Local Agent Preference? n		
ISDN/SIP Caller Display: grp-name			

display hunt-group 1	HUNT GROUP	Page 2 of 60
LWC Reception: none AUDIX Name: Message Center: qsig-mwi Send Reroute Request: y Voice Mail Number: 3333 Routing Digits (e.g. AAR/ARS Access Code): 8 Provide Ringback? n TSC per MWI Interrogation? n 		

Call Coverage Specific Screen Shots follow:

display system-parameters coverage-forwarding	SYSTEM PARAMETERS CALL COVERAGE / CALL FORWARDING	Page 1 of 2
CALL COVERAGE/FORWARDING PARAMETERS Local Cvg Subsequent Redirection/CFWD No Ans Interval (rings): 2 Off-Net Cvg Subsequent Redirection/CFWD No Ans Interval (rings): 2 Coverage - Caller Response Interval (seconds): 1 Threshold for Blocking Off-Net Redirection of Incoming Trunk Calls: n Location for Covered and Forwarded Calls: called COVERAGE Keep Held SBA at Coverage Point? n External Coverage Treatment for Transferred Incoming Trunk Calls? n Immediate Redirection on Receipt of PROGRESS Inband Information? n Maintain SBA At Principal? n QSIG VALU Coverage Overrides QSIG Diversion with Rerouting? n Station Hunt Before Coverage? n FORWARDING Call Forward Override? n Coverage After Forwarding? y		

add coverage path 1	COVERAGE PATH	Page 1 of 1																												
Coverage Path Number: 1 Hunt after Coverage? n Next Path Number: Linkage COVERAGE CRITERIA <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Station/Group Status</th> <th style="text-align: left;">Inside Call</th> <th style="text-align: left;">Outside Call</th> <th></th> </tr> </thead> <tbody> <tr> <td>Active?</td> <td>y</td> <td>y</td> <td></td> </tr> <tr> <td>Busy?</td> <td>y</td> <td>y</td> <td></td> </tr> <tr> <td>Don't Answer?</td> <td>y</td> <td>y</td> <td>Number of Rings: 2</td> </tr> <tr> <td>All?</td> <td>n</td> <td>n</td> <td></td> </tr> <tr> <td>DND/SAC/Goto Cover?</td> <td>y</td> <td>y</td> <td></td> </tr> <tr> <td>Holiday Coverage?</td> <td>n</td> <td>n</td> <td></td> </tr> </tbody> </table> COVERAGE POINTS Terminate to Coverage Pts. with Bridged Appearances? n Point1: h1 Rng: 2 Point2: Point3: Point4: Point5: Point6:			Station/Group Status	Inside Call	Outside Call		Active?	y	y		Busy?	y	y		Don't Answer?	y	y	Number of Rings: 2	All?	n	n		DND/SAC/Goto Cover?	y	y		Holiday Coverage?	n	n	
Station/Group Status	Inside Call	Outside Call																												
Active?	y	y																												
Busy?	y	y																												
Don't Answer?	y	y	Number of Rings: 2																											
All?	n	n																												
DND/SAC/Goto Cover?	y	y																												
Holiday Coverage?	n	n																												