# Cisco Small Business SBCS Technical Enablement Lab (TEL)



Lab 21

SMTP Notification of UC500 Voice Mail to EMAIL

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# Introduction

The roadmap for CCA 2.x includes the implementation of adding an SMTP Notification to an external mail server for voice mails left on the UC500 phones. This can include sending the attachment in the EMAIL, which seems to be a very frequently used feature.

This is in addition to IMAP integration of the Voice Mail box of the UC500 phone to the user's PC Mail Client, which is configurable as a Smart Application in CCA.

Until we offer the SMTP capability, this lab will help you configure this feature using the CUE GUI. This configuration will not affect CCA and it can still be used to manage everything else on the system.

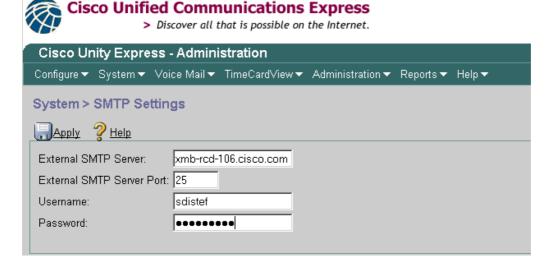
# **Prerequisites**

Make sure you have your mail server and credentials ready and the UC500 connected so it can ping the mail server from within CUE (As long as you are connected to the WAN, this routing will work with the default configuration).

I do not have a specific firmware tied to this document, but I performed this on CUE 7.1.3, which is included in the UC500 8.0.2 bundle zip, just so you have a point of reference. I recommend 7.1.3 or later for this lab.

## **Mail Server**

I created this lab on an internal Lab network, which has an Exchange Server for Cisco EMAIL and I used that server and my own email credentials. Make sure when you first try this, you check your junk mail folder, because the mail may end up there until you specify it as a trusted domain and sender ©

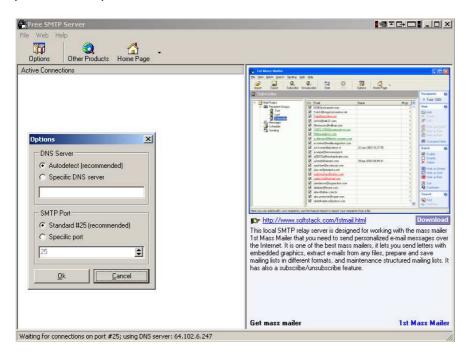


An alternative shown below is a way to circumvent the hassle of testing CUE connection to the actual mail server if you are practicing in a lab, and perhaps didn't yet have WAN connectivity. This freeware

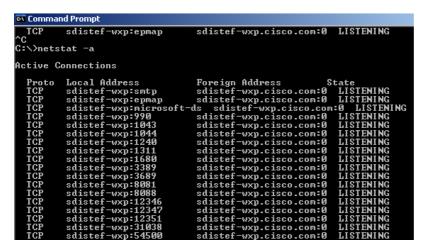
can run on your PC connected to the UC500 and you just use your PCs IP address as the SMTP server address inside CUE to confirm this operation.

# http://www.softstack.com/freesmtp.html

After installation, we have Free SMTP server running on my PC with IP Address from UC560 Data VLAN (192.168.10.12):



In the case you are using the freeware, you can confirm binding with DOS command 'netstat –a' (shows the PC Listening for SMTP traffic (port 25)):



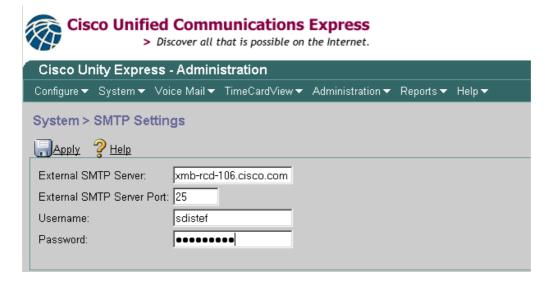
# **Cisco Unity Express**

Now we are ready to configure Voice mail to email notification on CUE. As mentioned in the introduction, a future release of CCA will included this, but for now, we use the CUE GUI (browser to 10.1.10.1) to configure this. No CLI is required.

# **SYSTEM: SMTP Settings**

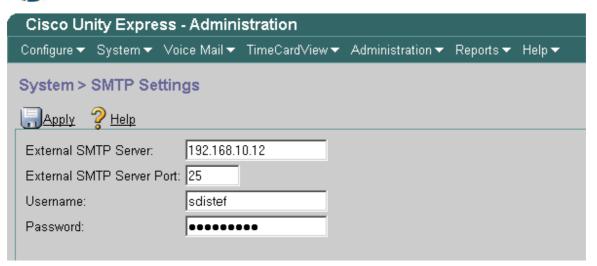
(authentication can be left out if not required by your mail server)

The EMAIL Server configuration:



Or the Freeware screen shot:





# **Voice Mail > Message Notification > Notification Administration**



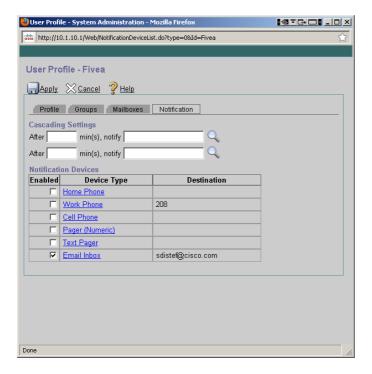
Cisco Unity Express - Administration	
Configure ▼ System ▼ Voice Mail ▼ TimeCardView ▼ Admi	nistration▼ Reports▼ Help▼
Voice Mail > Message Notification > Notification A	dministration
Apply ? Help	
Notification Configuration  ✓ Enable system-wide notification for All Messages  ✓ Allow user to login to voicemail box to retrieve voicemail who  ✓ Attach message to outgoing email notification.  □ Enable Cascading Notifications  □ Enable system-wide notification for live recordings.  If phone is not answered, hang up after 48 seconds. (Rang Restriction Table Name: msg-notification	

# **Voice Mail > Message Notification > Subscriber Notification Management**

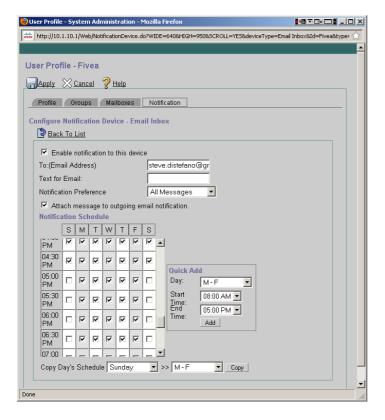
We will use phone named Fivea with extension 208

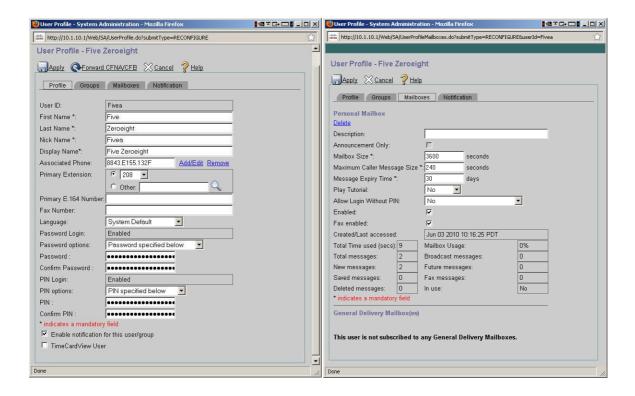


Specify the notification email for this voice mail user.



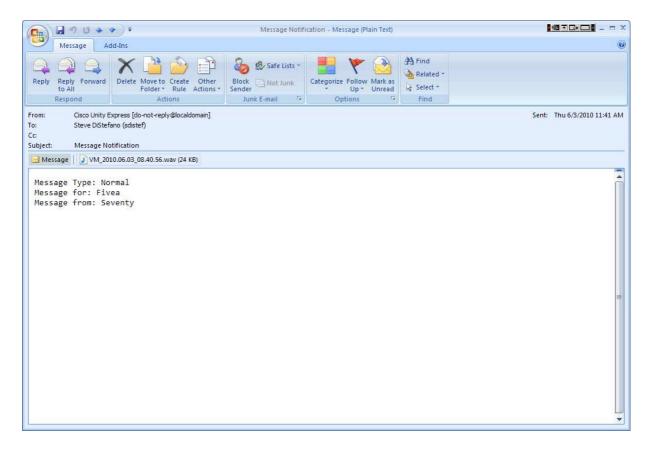
Set the schedule when you want this to work. Make sure your CUE time is the correct day and time of day, because if its not, you may not see the notifications, since its not the time you think it is ;-)





# **Verify Operation**

Leave a voice message for Fivea check for email.



In the case you are using just the PC program, the mail may not get out beyond the PC, but you can still confirm the operation since you will see the connection in the Free SMTP window.

# **Debugging**

If you have any problems and are not sure why the email is not working, there are some very good CUE debugs you can perform in CLI mode that are not too verbose, and I will show them here so you can use them.

# Open a Session to the CUE in Command Line (CLI):

UC560#service-module integrated-Service-Engine 0/0 session

Trying 10.1.10.2, 2002 ... Open

# <hit Enter>

se-10-1-10-1#

se-10-1-10-1# no trace all

se-10-1-10-1# trace voicemail msgnotif all

```
se-10-1-10-1# trace configapi smtp all
```

se-10-1-10-1# trace entitymanager notifdevice all

# Now do this when you are ready to leave the voice mail (do it first)

se-10-1-10-1# show trace buffer tail

Press <CTRL-C> to exit...

# Now leave the voice mail for Fivea and hang up...

```
31023 06/04 06:56:10.418 entm dvce 0 Device::Entering constructorfor deviceId: 66,
profile: com.cisco.aesop.entity.notification.NotificationProfile@1b82af9
3475 06/04 07:08:41.675 ACCN STGN 0 Task: 18000000038GetListMember: output
string:outcall
31023 06/04 07:08:41.686 VMSS mnot 0 MessageNotification: Enter
insertIntoMsgNotifQueue(): msg recipient: Fiveanotif target: Fivea
31023 06/04 07:08:41.715 capi smtp 0 SmtpServer: getSysdb(): Attribute: address
2270 06/04 07:08:41.715 capi smtp 0 SmtpSysdbNode: get(): address
31023 06/04 07:08:41.716 VMSS mnot 0 MessageNotification: query: INSERT INTO
outcall email job VALUES ('Fivea', 66, 1275660521686, 14, 0, 'Fivea');
31023 06/04 07:08:41.738 VMSS mnot 0 MessageNotification: Notifying sender threads
31023 06/04 07:08:41.738 VMSS mnot 0 MessageNotification: Exit
insertIntoMsgNotifQueue(): notifyEmailThread=true, notifyPhoneThread=false
2975 06/04 07:08:41.751 VMSS mnot 0 EmailSender: Processing job: 1
2975 06/04 07:08:41.757 VMSS mnot 0 EmailSender: Got a job: Owner=Fivea,
Contact=sdistef@cisco.com, UID=14
2975 06/04 07:08:41.762 VMSS mnot 0 EmailSender: sendEmailNotification:
checkSendPreConditions passed
2975 06/04 07:08:41.762 capi smtp 0 SmtpServer: getSysdb(): Attribute: address
2274 06/04 07:08:41.763 capi smtp 0 SmtpSysdbNode: get(): address
2975 06/04 07:08:41.763 capi smtp 0 SmtpServer: getSysdb(): Attribute: port
2254 06/04 07:08:41.764 capi smtp 0 SmtpSysdbNode: get(): port
2975 06/04 07:08:41.768 capi smtp 0 SmtpServer: getSysdb(): Attribute: userid
2255 06/04 07:08:41.769 capi smtp 0 SmtpSysdbNode: get(): userid
2975 06/04 07:08:41.769 capi smtp 0 SmtpServer: getSysdb(): Attribute: password
2270 06/04 07:08:41.769 capi smtp 0 SmtpSysdbNode: get(): password
2975 06/04 07:08:41.769 capi smtp 0 SmtpServer: getSysdb(): Attribute: authRequired
2274 06/04 07:08:41.769 capi smtp 0 SmtpSysdbNode: get(): authRequired
2975 06/04 07:08:41.770 VMSS mnot 0 EmailSender: Begin processing email job, UID=14 \,
2975 06/04 07:08:41.781 VMSS mnot 0 EmailSender: Attachment body part added, UID=14
2975 06/04 07:08:43.014 VMSS mnot 0 EmailSender: Sent successfully, UID=14
2975 06/04 07:08:43.014 VMSS mnot 0 EmailSender: Send email rc=1
2975 06/04 07:08:43.014 VMSS mnot 0 EmailSender: Deleting email job: Device ID=66,
UID=14
2975 06/04 07:08:43.033 VMSS mnot 0 EmailSender: calculateWaitTime(): current time:
1275660523032, job time: 0
2975 06/04 07:08:43.033 VMSS mnot 0 EmailSender: Wait time=0
```

## Control-C

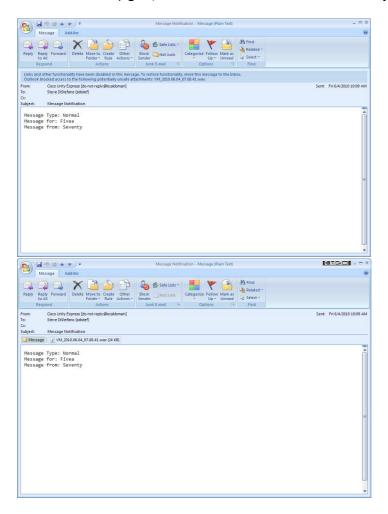
# And Turn Off the trace

se-10-1-10-1#

se-10-1-10-1# no trace all

se-10-1-10-1#

here is this email (again, the unsafe attachment forced mine to junk folder until I allow)



If you are running the Free SMTP, this is a positive verification, even though the PC cant relay the email...

```
3475 06/03 12:41:45.447 ACCN STGN 0 Task: 18000000034GetListMember: output string:outcall
31022 06/03 12:41:45.459 VMSS mnot 0 MessageNotification: Enter insertIntoMsgNotifQueue(): msg recipient: Fiveanotif target: Fivea
31022 06/03 12:41:45.478 capi smtp 0 SmtpServer: getSysdb(): Attribute: address
2254 06/03 12:41:45.478 capi smtp 0 SmtpSysdbNode: get(): address
31022 06/03 12:41:45.478 VMSS mnot 0 MessageNotification: query: INSERT INTO outcall_email_job VALUES ('Fivea', 66, 1275594105459, 12, 0, 'Fivea');
31022 06/03 12:41:45.500 VMSS mnot 0 MessageNotification: Notifying sender threads
31022 06/03 12:41:45.500 VMSS mnot 0 MessageNotification: Exit insertIntoMsgNotifQueue(): notifyEmailThread=true, notifyPhoneThread=false
2975 06/03 12:41:45.518 VMSS mnot 0 EmailSender: Processing job: 1
```

```
2975 06/03 12:41:45.523 VMSS mnot 0 EmailSender: Got a job: Owner=Fivea,
Contact=sdistef@cisco.com, UID=12
2975 06/03 12:41:45.525 VMSS mnot 0 EmailSender: sendEmailNotification:
checkSendPreConditions passed
2975 06/03 12:41:45.525 capi smtp 0 SmtpServer: getSysdb(): Attribute: address
2274 06/03 12:41:45.525 capi smtp 0 SmtpSysdbNode: get(): address
2975 06/03 12:41:45.525 capi smtp 0 SmtpServer: getSysdb(): Attribute: port
2270 06/03 12:41:45.526 capi smtp 0 SmtpSysdbNode: get(): port
2975 06/03 12:41:45.526 capi smtp 0 SmtpServer: getSysdb(): Attribute: userid
2255 06/03 12:41:45.526 capi smtp 0 SmtpSysdbNode: get(): userid
2975 06/03 12:41:45.526 capi smtp 0 SmtpServer: getSysdb(): Attribute: password
2254 06/03 12:41:45.526 capi smtp 0 SmtpSysdbNode: get(): password
2975 06/03 12:41:45.526 capi smtp 0 SmtpServer: getSysdb(): Attribute: authRequired
2274 06/03 12:41:45.527 capi smtp 0 SmtpSysdbNode: get(): authRequired
2975 06/03 12:41:45.527 VMSS mnot 0 EmailSender: Begin processing email job, UID=12
2975 06/03 12:41:45.537 VMSS mnot 0 EmailSender: Attachment body part added, UID=12
2975 06/03 12:41:46.109 VMSS mnot 0 EmailSender: Error sending email, UID= 12
:javax.mail.SendFailedException: Sending failed;
  nested exception is:
       class javax.mail.MessagingException: 550 Invalid recipient: sdistef@cisco.com
2975 06/03 12:41:46.110 VMSS mnot 0 EmailSender: Send email rc=2
2975 06/03 12:41:46.110 VMSS mnot 0 EmailSender: Deleting email job: Device ID=66,
2975 06/03 12:41:46.130 VMSS mnot 0 EmailSender: calculateWaitTime(): current time:
1275594106129, job time: 0
2975 06/03 12:41:46.130 VMSS mnot 0 EmailSender: Wait time=0
```