## SpeechView Feature TOI

Connection 8.0.2 Jim Kerr

#### Overview

- Subscription Service
- Transcribes voice messages
- IMAP
- SMS and SMTP notifications
- Multilingual

## Third-Party Service

- Transcriptions are done off-site
- SMTP transport
- Human-Assisted

#### Security

- Transport uses S/MIME
- No identifying information included
- Private messages not transcribed
- Secure messages configurable

#### What is transcribed?

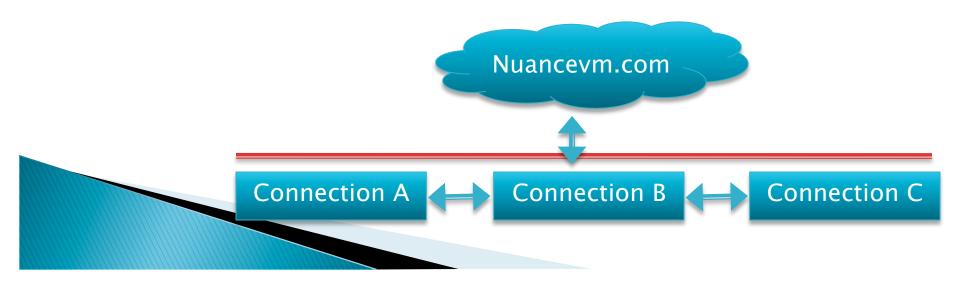
- Voice messages to users and DL's
- Governed by recipient's Class of Service
- Interview handlers
- Forwarded messages
- Truncated at 500 characters

#### What is NOT transcribed?

- Dispatch messages
- Broadcast messages
- Private Messages
- Secure messages (configurable)
- Messages with no recipients in an enabled COS
  - (Even if the sender has the feature enabled)

#### SpeechView Proxy

- In an intra-site network, one Connection server may act as a proxy for others.
- Simplifies configuration
- Each node needs its own SpeechView license
- No license pooling
- Internode communication is SMTP



#### Active/Active Clusters

- License is cluster-wide
- SpeechView Processor is only activated on the acting primary

# SpeechView Configuration

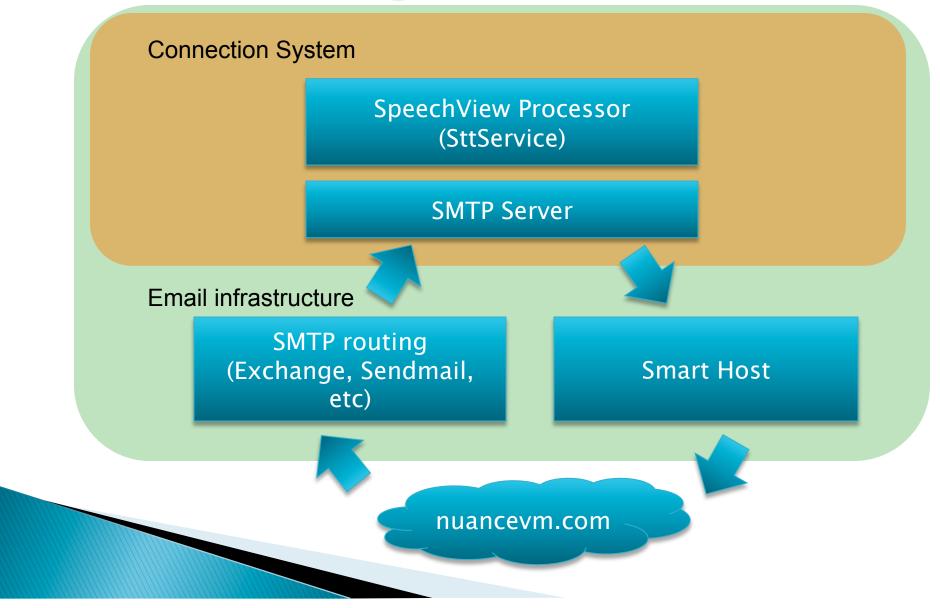
## Configuration Steps

- Email routing (for incoming)
- SmartHost (for outgoing)
- Install license
- COS
- Service Settings
- Register
- Test!
- Personal Settings

### **Email Routing**

- Organization's email infrastructure must forward incoming SpeechView mail to stt-service@<connection smtp domain>
- Connection's SMTP config must be set to trust the incoming router, or allow untrusted connections
- Outgoing SpeechView traffic is routed through the smarthost.

## **Email Routing**



#### Licensing

Licensed users (COS enabled) will have incoming messages transcribed.

- User Count
- Expiration Date
- Trial licenses available
- Can be rehosted

#### Class of Service

- Checkbox under Licensed Features
- Secure message option:
  - Do not transcribe
  - Transcribe
  - Transcribe & allow notifications
- Allow IMAP access to mailbox if desired

## Service Configuration

- Access Directly
  - Incoming SMTP address.
    - Email sent from outside the organization must be routed to the stt-service@ alias on this smtp server.
  - Advertise Proxy Service to other Cxn nodes
- Access through a Proxy Location
  - Proxy location must be set up to access directly and must be advertising proxy service

### Register and Test

- "Register" exchanges license info with nuancevm.com. Transcriptions will not work until registration is successful.
- "Test" does a real transcription operation with Nuance.
- In a proxy setup, only the proxy system must "Register", any system can "Test"

#### Mobile Devices

- SMS and SMTP notification devices
  - Transcription notifications must be enabled on the device via CUCA or PCA
- Users can forward their cell phone's voice mail to their Connection mailbox
  - Example: http://www.mobilitee.org/archives/514

## Troubleshooting SpeechView

## What can go wrong?

- Organizational SMTP routing
- Connection SMTP Server config
- License expiration
- Inter-node communication (proxy setup)
- Configuration gotchas

#### First Steps

- Try the "Test" button on the SpeechView configuration page.
- Check the License page for warnings
- Verify connectivity with "run cuc smtptest"
- Gather micro traces
  - SMTP Server
  - SpeechView Processor (SttService)
  - MTA
  - Notifier

#### SMTP routing

- New CLI command:
   run cuc smtptest <email address>
  - Pass it an external email address.
- Logs from organization's email smart host or email routing software
  - Ensure message is getting forwarded to <u>stt-service@my.connection.domain</u>
  - Ensure my.connection.domain is resolvable in DNS

### Outgoing Message Flow

- New incoming voice message for delivery
- At least one recipient has SpeechView enabled
- MTA posts request to SQL table UnityDynDb:vw\_SttRequestQ
- SttService checks the SttRequestQ and updates status to Pending
- SttService builds an SMTP message and writes it to the SMTP pickup directory
- SMTP server sends the request via Smart Host

#### Incoming Message Flow

- Nuance sends message to "Incoming SMTP address"
- Organization forwards the message to <u>stt-service@my.connection.server</u>
- Connection SMTP server receives message and writes it to the stt drop directory
- SttService checks drop directory and updates UnityDynDb:vw\_SttRequestQ with results
- MTA checks vw\_SttRequestQ and adds text to the message in the Connection mail store.

#### Using a Proxy

- SMTP messages are routed to stt-service@ alias on the proxy
- Responses are routed to stt-service@ user on the local machine.
- Check digital network health with Serviceability "Voice Network Map" tool.
- Troubleshoot the proxy.

## Configuration Gotchas

- Class of Service settings
  - Special setting for secure messages
- Private messages are never transcribed.
- SMTP server trust settings
- Email gateway's DNS might not resolve Connection's SMTP domain

#### License Violations

- If the license expires, transcriptions stop
- If usage exceeds the licensed user count, only the first n users can use the feature on that day.
- ▶ 30-day warnings on the License page in CUCA.

#### Licensing Example

- May 1 2010: Customer installs a license for 100 users.
- 2. July 1: Customer adds another license for 100 more users, total of 200.
- 3. 200 users have the COS enabled and are enjoying the feature a great deal.
- 4. May 1 2011: the first license expires. 200>100, so we have a license violation.
- 5. The first 100 people to use the feature each day will receive transcriptions.
- 6. July 1: Transcriptions stop working entirely.

### Filesystem

- /var/opt/cisco/connection/
  - spool/stt/drop : SpeechView Processor drop dir
  - spool/stt/diag : Last 10 incoming/outgoing
     SpeechView messages
  - spool/stt/badmail : SpeechView badmail dir
  - security/certs/stt\_vendor.p7b : The vendor's PKCS7 public certificate chain
  - security/certs/stt\_ca\_cert.der : Self-signed root CA for generating the local key pair

#### Fore more info

- vw\_SttRequestQ: see the Data Dictionary, <a href="http://databot/docs/murnau/UnityDynDb.pdf">http://databot/docs/murnau/UnityDynDb.pdf</a>
- Informal project wiki:
  <a href="http://zed.cisco.com/confluence/display/CUC/Connection+Speech">http://zed.cisco.com/confluence/display/CUC/Connection+Speech</a>
  <a href="http://text#ConnectionSpeechtoText-Troubleshooting">http://text#ConnectionSpeechtoText-Troubleshooting</a>