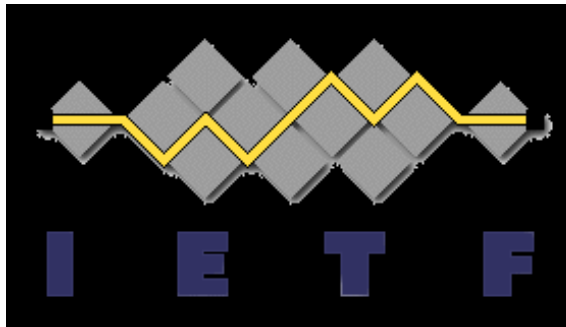# Internet Voice Message

draft-ietf-vpim-ivm-00.txt

Stuart McRae

stuart_mcrae@lotus.com

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Highlights

- Merge (with joint authorship) of:
  - draft-ema-vpim-voicemsg-00 (Stuart McRae)
  - draft-ema-vpim-simplev3-01 (Glenn Parsons)
    - Plus feedback from list/WG meetings on earlier drafts

- Based on Goals: draft-ema-vpimv3-goals-01

- Focus on Voicemail Messages within e-mail
  - ► Unified Messaging (UM) solution interoperability
  - ► Handling of UM messages on non UM client
  - ► Voicemail server & e-mail interoperability <u>not</u> primary goal

- MAY offer VPIMv2 Interoperability
  - ► Rather than SHOULD

Philosophy

- MUST if required for desktop e-mail interoperability
- SHOULD if provides added value for Voice Mail
- MAY for VPIMv2 interoperability

Contents

- Internet Voice Message (IVM)
  - ► Rather than Internet Voice <u>Mail</u>?
- Introduction
  - ► High level "What we are trying to do"
    - Enough? Complete? Accurate? -> list
- Removed IMAP extension discussion
- Removed vCard (MAY) reference

Message Format

- Refers to DRUMS
- SHOULD use Primary Content: draft-burger-vpim-pc-00
    - ◆ Primary-Content: voice-message
  - ► Update required to Content Hint (draft-ietf-vpim-hint-00)
      - ◆ Content-Hint: voice-message
  - ► SHOULD or MUST?
    - – What exactly makes it an IVM?
- SHOULD be multipart/mixed
  - ► MAY use multipart/voice-message (VPIM v2)
    - – If recipient supports VPIMv2
  - ► SHOULD or MUST (except VPIMv2)?

Message Format (cont.)

- SHOULD use Critical Content: draft-burger-vpim-cc-00
  - Content Notification: NOTIFY (for audio content)
  - Content Notification: PARTIAL (e.g. forwarded original)
  - Content Notification: IGNORE (e.g. vCard)

  - ►Requires update for: draft-ietf-vpim-cc-00
    - Content-Criticality: CRITICAL (for audio content)
    - Content-Criticality: IMPORTANT (e.g. forwarded original)
    - Content-Criticality: IGNORE (e.g. vCard)

- Delivery Notification MUST be multipart/report

Transport

- Refers to DRUMS
- SHOULD request DSN

Addressing

- Any Internet Mail address
- Service Selectors for onramp/offramp (RFC 2303)
- Refers to VPIM Addressing draft:

  draft-ema-vpim-address-01

- Refers to VPIM Directory work:

  draft-vaudreuil-vpimdir-principles-00.txt

Notifications (DSN)

- MUST support DSN
  - ► MUST return NDN if not delivered
- SHOULD return PNDN if Primary Content (Content Hint) is voice-message and all media types cannot be delivered
  - ► Not MUST?
  - ► Not applicable for a "hint"?
    - Content-Hint is for the UA not a Relay
      - ◆ "Does not imply any disposition or delivery notification"
- Critical Content draft requires MTAs deleting content to return NDN/PNDN as appropriate

Notifications (MDN)

- SHOULD support MDN
  - ► But note that MDN Mandates that return of notification is optional
- SHOULD give the user the option of returning an MDN if all Critical Content cannot be displayed
  - ► Needs updating once PMDN is defined
  - ► Text needs updating for new Critical Content draft

Voice Contents

- MUST use Audio/WAV
  - ► Unless know recipient can handle something else
- MAY use Audio/32KADPCM
  - ► If know the recipient handles VPIMv2
- SHOULD include originator/recipient spoken name (if known) per VPIMv2
    - ◆ e.g. Content-Disposition: inline; voice=Originator-Spoken-Name
- MAY provide Spoken Subject per VPIM v2
    - ◆ e.g. Content-Disposition: inline; voice=Spoken-Subject

Voice Contents (cont.)

- MUST send using MS-GSM encoding
  - ◆ Audio/WAV; codec-31
  - ► MAY find the capabilities of the recipient instead (e.g. via Content Negotiation)
- MUST be able to play MS-GSM
- MAY be able to play Audio/32KADPCM
  - ► For VPIMv2
    - – SHOULD?

Voice Contents and VPIMv2

- Table Added following discussion on list
  - ►Is it useful?

	No VPIMv2 Support		VPIMv2 Support	
Codec	Record	Playback	Record	Playback
MS-GSM	MUST	MUST	MUST	MUST
32KADPCM	MAY	MAY	MUST	MUST
Other	MAY	MAY	MAY	MAY

VPIMv2 Interoperability

- "May be subject of further work"
- Should we have references throughout?
  - ► Or collect them together?
    - – MAY use multipart/voice-message
      - ● In which case SHOULD implement VPIMv2 in full
        - ◆ Ought this to be MUST?
    - – MAY generate Audio/32KADPCM
    - – MAY play Audio/32KADPCM
- Need to verify that DSN/MDN requirements match VPIMv2 (or document differences)
- Other issues?

Other

- **Fax Contents**
  - ► RFC 2532 (Extended Facsimile using Internet Mail
- **Further Work**
    - ◆ Further VPIM v2 Interoperability consideration
    - ◆ Content Negotiation
    - ◆ VPIM Directory
    - ◆ Spoken Header fields
    - ◆ Originators caller id/telephone number
    - ◆ Interoperability with existing e-mail clients
    - ◆ Add IMAP?
- **Security Considerations**
  - ► Per VPIMv2
    - – Ideas welcome on other issues