

Review of VPIM V2

`draft-ietf-vpim-v2r2-00.txt`

Formerly
`draft-ema-vpim-v2r2-01.txt`

What has Changed

- General
 - Various and substantial editorial updates to improve readability.
 - Separated send rules from reception rules to aid clarity.
 - Clarified the behavior upon reception of unrecognized content types(eg. Unsupported non-audio contents should be discarded to deliver the audio message.) expected with the interworking between voice and unified messaging systems.

- added `_ Normal_` sensitivity for consistency
- should not use MDN Content-Disposition options
- *Changed "must not include "to": fields in distribution list messages if all are not known" to "should not"
- *Lessend required for inclusion of spoken error reason in NDN to "may" from "Should"
- *Now "MAY" use names and addresses in headers to be used for address book population (was "SHOULD NOT")

- 2. Content

- Changed handling of received lines by a gateway to SHOULD NOT delete in a gateway. In gateways to systems such as AMIS, it is not possible to preserve this information. It is intended that such systems be able to claim conformance. **OPEN ISSUE**
- Eliminated the vCard as a supported VPIM V2 content type.

- Transport
 - Nothing

- Compliance
 - Aligned the table of Appendix A to the requirements in the text.

What has been clarified

- Lots of Text
 - Reorganized content-type sections
 - Added separate send vs receive rules
- Discard rules for non-support of media within Multipart/Voice-message
- Relationship between Multipart/voice-Message and Multipart/Mixed

What Still Needs to be Done

- Fix lots of new cut-and-paste-o's, spelling errors, and formatting errors
- ??

VPIM Routing

`draft-ietf-vpim-routing-00.txt`

Greg Vaudreuil

VPIM Routing

- Two modes: One for full service, one for rapid deployment
 - VPIMDIR enabled full service
 - Simple mode
- Both rely upon ENUM-related facilities

VPIMDir

- The ENUM service provides a URL for the VPIM directory. VPIM directory provides Email address plus other good stuff.
- Mail routed as normal to destination system.
- Schema defined in draft-ietf-vpim-schema-00.txt

VPIMDir Location Issues

- Need to reconcile with ENUM
 - Use NAPTR records to indicate URL for VPIMDir rather than SRV records.
 - Need to re-think VPIMDir redundancy requirements... is SRV necessary?

“Simple mode”

- Given expected obstacles to universal deployment of VPIMdir, an interim, send-and-pray service is defined.
 - Requires no knowledge by sender of recipient
 - Exposed minimum information of recipients systems, eliminating many security concerns
 - Requires DNS configuration and inbound mail router gateway provisioning

Constructing the Address

- Principles:
 - Must be algorithmic, without external info
 - Must enable an inbound mail gateway to redirect based on service
 - Must work with existing mail routing system with addition of only new MX records.

Constructing the Address

- Proposal:
 - Construct a domain name per ENUM, with the addition of a service-specific suffix. (e.g.
+1 214 823 9385 =>
vpim.5.8.3.9.3.2.8.4.1.2.1.e164.arpa
 - Construct a local part using VPIM rules
+1 214 823 9385 =>
+12148239325
 - Resulting in:
+12148239325@vpim.5.8.3.9.3.2.8.4.1.2.1.e164.arpa

Routing the Message

- Inter-domain routing is as per existing email
 - Provide MX records at appropriate place in the ENUM tree.
 - Message delivered to designated mail router of recipient domain
- Intra-domain routing is per existing facilities
 - Directory-enabled... find inter-domain email address based on telephone number
 - Service-specific... Route all messages of a given service type to a specialized, service-specific system.

VPIM Schema

draft-ietf-vpim-schema-00.txt

Anne Brown

Greg Vaudreuil

Consensus Proposal

- Merged two documents
 - Anne Brown’s “draft-ema-vpimdir-schema-01.txt
 - Greg Vaudreuil’s “draft-vaudreuil-vpimdir-avs-00.txt

Structure

- Indexed by telephone number
 - Eliminated the “ed” tree
 - Directory server indicated by SRV/NAPTR records in DNS through ENUM process

Attribute Groupings

- VPIM Email Address
- Recipient Identification
- Mailbox capabilities
- User Agent Capabilities
- Mailbox Status
- SubMailbox Support

VPIM Email Address

- vPIMrFC822Mailbox
 - Provides the address to send VPIM message to.
 - May be the same as “regular” email.

Recipient Identification

- vPIMSpokenName
 - Only one attribute, for the standard 32kbadpcm.
 - No mechanism to request “if not X then Y” in LDAP. Simultaneous retrieval of multiple versions eliminates the advantages of smaller encodings.
 - Retrieval of alternatives requires iterative “go fish” queries
 - Proprietary / additional attributes may be added where worth the cost of additional “go fish” queries

Recipient Identification

- vPIMTextName
 - Provides textual confirmation
 - May be cached for “dial-by-name”
 - Character set TBD, expected to be consistent with Calling-Name telco services

Mailbox Capabilities

- vPIMSupportedEncodingTypes
 - List of acceptable media types
 - audio/32KADPCM
 - image/tiff
 - May be extended as needed
- vPIMMaxMessageSize
 - Provides composition guidance to sender

User Agent Capabilities

- supportedUABehaviors
 - Superset of capabilities of all clients
 - Provides guidance to sender about optional UA features such as MDN read receipt
 - One standard attribute defined, may be privately extended
 - MessageDispositionNotication

MailBox Status

- extendedAbsenceStatus
 - Provides indication of status of recipient mailbox
 - “real time” vacation notice
 - Three values defined:
 - "Off"
 - "On"
 - "MsgBlocked"

Sub-Mailbox Support

- subMailbox
 - enumerates list of submailboxes / subaddresses available for this address
 - Iterative query may retrieve address confirmation attributes for submailboxes

