Lemonade Status Updates of assigned drafts (*) for IETF'65.5 in Ottawa

May 31, 2006 / June 1, 2006 WG sessions

(*) Other updates are to be presented by others and missing from this presentation

OUTLINE

- VFOLDER + VIEW Update
- WITHIN Update
- NOTIFICATIONS Update
- CONVERT Update
- TCP Challenged Environment Updates
- Profile Bis Updates

VFOLDER and VIEW

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VFOLDER+VIEW

- Per WG feedback, merge of VFOLDER and Arnt Gulbrandsen's VIEW drafts

- Issues:
  - Both VFOLDER and VIEW place restrictions on some operations, and don't mandate behavior in others
  - Resolution in merger: Lift restrictions making VFOLDER+VIEW a superset, but allow server to refuse operation

VFOLDER+VIEW

- Example:
  - VFOLDER doesn't allow searches on message attributes, VIEW does. New draft allows the search, but some implementations are free to return a BADPARAMETERS response code
  - VIEW doesn't allow APPEND/COPY on views, but VFOLDER+VIEW does, however, server MAY reject it.

VFOLDER+VIEW

- Major issue is the additional SHOULDs and MAYs places additional error checking and recovery code on the client

- Do not expect all SHOULDs/MAYs to make it to final draft. But useful to collect options in draft so WG may discuss them and decide on what compromises are needed

VFOLDER+VIEW

- Summary of Changes:
  - VFOLDER did not prohibit RECENT/NEW/OLD session search keys
    - Corrected by inclusion of VIEW text
  - VFOLDER Did not deal with \Recent flag
    - Corrected by inclusion of VIEW text
  - VIEW did not mandate any behavior for DELETE/RENAME.
    - VFOLDER mandated DELETE. New draft mandates behavior for both, but via enumerated options instead of open-ended behavior

VFOLDER+VIEW

- LIST command uses LISTEXT and new \vfolder mailbox flag, denotes which folders are vfolders (adopted from VIEW)
  - However, server MAY by default choose to hide vfolders from client for backwards compatibility with older clients
  - So Lemonade clients should use vfolder selection option to discover vfolders

VFOLDER+VIEW

- VIEW semantics for ACL adopted
  - However, 'I' right MAY be granted (VIEW prohibited this)
  - Server can decide whether it wants to allow COPY/APPEND on vfolders

VFOLDER+VIEW

- A section mandating IDLE behavior has been added stating that IDLE should function on vfolders the same as regular folders

VFOLDER+VIEW

- Informative section discussing possible duplicate download problems
  - Refer to Alexey's Disconnected IMAP options spec for some possible solutions

NEXT STEPS

- Implement latest feedback from Alexey

Thanks

- To Arnt for the VIEW spec and for comments that helped improve VFOLDER
- To Alexey for feedback as usual ☺

WITHIN
Update

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WITHIN Changes

- Per Arnt's suggestions
  - Granularity of time interval now days, not seconds
  - Search keys changed to YOUNGER and OLDER instead of 'WITHIN'

Other issues?

- When does server need to recompute? Should we add informative section on implementation technique?

Notifications Update

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Notifications Update

- LPROVISION/LGETPREFS/LSETPREFS removed

  – Client control of notification now handled by mailbox annotations

- Out of band notification payload for both "WAKEUP" and "EXTENDED" notification messages described:

  – New details specification of format derived from EMN and extended.

Notifications Update

- Inband notification issues
  - As mentioned in CLEARIDLE draft, IDLE spec is ambiguous even if there is work to clarify this in progress
  - But even CLEARIDLE only handled a subset of events defined in Chris Newman's MSGEVENTS draft.
  - Future work may be needed to more clearly define which events generate which unsolicited responses, and what if any response extensions are needed for events which have no mapping to existing responses\
    - we may need a lemonade idle event draft
  - Future work may include possibly update MSGEVENTS, keeping what is necessary, and adding new ones like LOCKDOWN

Notifications Update

- Introduction of s2s notifications in draft
  - Incorporated as a specification (not requirements) in the draft
  - Does not define API of notification mechanisms (left to the notification mechanisms):
    - Is more needed
  - S2S Notification is also used by NF between message store and Notification Mechanisms
    - Fits and details nicely…
  - To be reviewed and sanitized

CONVERT
Update

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Draft seems mostly finished

- Remaining issue at last meeting was MTI conversions
  - Mailing list seems to have settled on only ISO-8859-n to UTF-8 for text/plain
  - Added to spec
- Text/html -> plain listed as desirable but not mandatory
- Same for image conversions.
- ABNF was updated to detail structure of mailbox annotations which describe transcoding capabilities of server

Compression

- Section on possibly using object level compression added to CONVERT.
  - Issue: how to represent to client? Compressed content transfer encoding? Content-type parameter?
  - Other compression algorithms?

Object level encryption

- Section on potentially transcoding to some secure format discussed (S/MIME, OpenPGP, etc

- Algorithm selection and key setup/ exchange to be added and reviewed by Security area

TCP Challenged Environments Update

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TCP Challenged Environments Update

- Per WG feedback:
  - Renames
  - Individual draft
- Removed firewall.
- Emphasize "challenged networks" aspect.
  - Added example of Satellite Communications in telematics industry. The #1 application in that industry is email over satellite modem (ala ORBCOMM), but TCP/IP is *impossible*. Vint Cerf and IETF itself says TCP/IP is a bad idea over satellites. HTTP over a message oriented protocol is alot better.
- Cleaned up some formatting.
- Fixed some examples that had "text/plain" as content-type.
- Added discussion of URLs, content types.
- Introduced new header X-HTTP-Binding so servers can track traffic (Content-Type can't be used, because SOAP/WebDAV have their own content type requirement)
- Separate types for IMAP and SMTP (X-Http-Binding and Tunneling sections)
- No negotiation added – Need to decide if needed or if one technique is picked instead

Profile bis Update

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Profile-bis update

- Update of references and text related to encryption, compression and intermediaries.
- A few new sections as place holder
- Proposed disposition of new extensions / normative statements per D. Cridland's email
- Address comments including request to have refer by key word instead of number