

Message Waiting for SIP

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Current Expectations

- **Users expect notification of new messages wherever they are**
 - IP phones/appliances**
 - Analog or PBX phones**
 - Mobile phones**
- **MWI is traditionally just a boolean**
- **Must provide comparable service on SIP-capable devices**

Questions

- **Why not use another protocol?**

No other compelling choice?

**SUBSCRIBE/NOTIFY is
sufficient and pre-standard
implementations already exist**

Time:	NTP
Transfer:	HTTP
Directory:	LDAP
Message	SIP +
Waiting:	Sub/Ntfy?

- **Why not just use a simple boolean?**

We can do better:

“You have 3 new messages (1 urgent)”

Overview

- **UA subscribes to message-summary events for a period of time**
- **Uses SUBSCRIBE/NOTIFY for subscription management and fetches**
- **Message Summary delivered in text or XML**

Why two formats?

- **Simple text:** minimal display requirements
traditional boolean MWI +
basic summaries
- **XML:** extensible display options
basic summaries +
multiple mail folders
use with XSL style sheets

Example of XML format

```
<MESSAGE_SUMMARY>  
  <MAILBOX>  
    <NAME>Inbox</NAME>  
    <VOICEMAIL>  
      <UNTOUCHED total="1">  
        <READ total="2"/>  
        <ANSWERED total="1" urgent="1"/>  
        <DELETED total="2"/>  
      </VOICEMAIL>  
    </MAILBOX>  
  </MESSAGE_SUMMARY>
```

Linearization

In IMAP4 flags can overlap (ex: \Seen, \Answered, \Deleted, and \Flagged). Create precedence.

Deleted

Answered

Flagged

Read

Skipped

Untouched

Mapping media types from VPIM

multipart/Voice-Message -> voice

multipart/Fax-Message -> fax

multipart/Video-Message -> video

everything else -> email

To do

- **Consistent SUBSCRIBE behavior from Bar BOF**
- **Clean up XML format**
`<read total="25" urgent="4" />`
vs.
`<read urgent="4">25</read>`
- **VPIM WG input**
- **Examples with XSL**
- **real mime-type registration?**

Contacts

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- **Thank You**



