Message Waiting for SIP

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<table>
<thead>
<tr>
<th>Subscriber</th>
<th>Notifier</th>
</tr>
</thead>
</table>
| A1: SUBSCRIBE (new) | -------->
| A2: 200 OK |<----------------------|
| A3: NOTIFY (sync) |<----------------------|
| A4: 200 OK |---------------------->|
| A5: NOTIFY (change) |<----------------------|
| A6: 200 OK |---------------------->|
| A7: (re)SUBSCRIBE |--------->|
| A8: 200 OK |<----------------------|
| A9: NOTIFY (sync) |<----------------------|
| A10: 200 OK |---------------------->|
| A11: (un)SUBSCRIBE |--------->|
| A12: 200 OK |<----------------------|
| A13: NOTIFY (sync) |<----------------------|
| A14: 200 OK |---------------------->|

**Message Flow from RFC 3842**

- Uses general purpose SIP Events framework defined in RFC3265
  - has an explicit subscription synchronization and lifetime model (robust but chatty)
- A PUBLISH method is also defined but generally used only from endpoint-style user agents to “big servers”
  - PUBLISH uses ETags
Existing notification MIME type

Messages-Waiting: yes
Message-Account: sip:alice@vmail.example.com
Voice-Message: 4/8 (1/2)
Fax-Message: 1/1 (0/0)
Proposed extensions to RFC3842 for Sieve

- Use existing package name in Event header
  - Event: message-summary
  - Event: message-summary;version=4588
- Include sieve filter in most SUBSCRIBEes
  - Content-Type: application/sieve
- Use existing content negotiation to say how you want notification content:
  - Accept: application/sieve-notification+xml
  - Accept: application/simple-message-summary
Message Formats

=== SUBSCRIBE Body ===
require ["enotify"];
if header :contains "from" "example.com" {
    notify :message "Reminder to call about project foobar"
        :options "headerlist" "From,Subject";
}

=== NOTIFY Body ===
<?xml version="1.0"?>
<sieve-notifications notify-counter="4589">
    <notification>
        <header name="From">alice@example.com</header>
        <header name="Subject">Foobar status report</header>
        <message>Reminder to call about project foobar</message>
    </notification>
</sieve-notifications>