Entity-tags in SIP Events

draft-niemi-sip-subnot-etags-00
Aki Niemi
<aki.niemi@nokia.com>
Usage Scenarios

- **Subscription refresh**
  - Extend expiry, suppress notification
- **Subscription resume**
  - Establish dialog, suppress known state in notify
- **Subscription termination**
  - End subscription, suppress final notify/body
- **Fetch**
  - Fail subscribe if state is known
## Requirements

<table>
<thead>
<tr>
<th></th>
<th>Need success</th>
<th>Need notify</th>
<th>Need body of known state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refresh</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Resume</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Terminate</td>
<td>Yes</td>
<td>Maybe?</td>
<td>No</td>
</tr>
<tr>
<td>Fetch</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Proposal 1: Same for all

- Suppress NOTIFY body only, if contains known state
- SUBSCRIBE with conditional
  - Suppress-Body-If-Match: etag
  - If condition == true, send empty NOTIFY
Proposal 2: Optimize Fetch

- For subscriptions, use a condition to suppress NOTIFY body
  - Suppress-Body-If-Match: etag
  - Empty NOTIFY
- For fetch, condition the SUBSCRIBE
  - If-No-Match: etag
  - If condition != true, respond with 412
Proposal 3: Three Different Cases

- For subscription refresh/termination, conditionally suppress entire NOTIFY
  - Suppress-Notify-If-Match: etag
- For subscription resume/termination, conditionally suppress NOTIFY body only
  - Suppress-Body-If-Match: etag
- For fetch, condition the SUBSCRIBE
  - If-No-Match: etag
  - If condition != true, respond with 412
Conclusion

• Go with Proposal 1
  – It's simple and works
  – Mere aesthetic change to current spec

• WG item?