SIP: Changes based on WG last-call

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SIP proposed bug fixes based on last call

- Checked and capitalized or rewrote “may”, “should” and “must”.
- Consistent use of “header field” throughout the spec.
- Warning messages updated.
- Added method URL parameter that indicates request method. Now allows complete construction of SIP request from within a web page and a **Location** header. The latter is particularly useful for third-party call control.
- Clarified use of SRV DNS records. TCP and UDP may have equal priority, but different weight.
- Added 486 (Busy here) status when there might be other branches, such as answering machines, ready to take the call.

- Added **expires** parameter to **Location** header field to allow reporting of expiration times for each location.

- Clarified 481 as referring to a mismatch in describing a call leg (**BYE**) or transaction (**CANCEL**).

- Clarified that the **CSeq** method in the request is always the same as the request method, even for **ACK**.
Location syntax

Problem:  • HTTP: Location: \textit{uri}
  • SIP: Location: \textit{uri}_1 ;\text{parameter=value}, \textit{uri}_2
  • but: \textit{uri} may contain unescaped commas and semicolons

Solutions:  1. Contact: \texttt{quoted-string} \implies Contact:
   "mailto:john,doe@host" ;q=0.8,
   "sip:john.doe@host;transport=udp"

  2. only allow one \textit{uri} per Location entry; LWS between \textit{uri} and parameter

  3. Like To: Contact: \texttt{display-name <quoted-string>}
     ;\texttt{par} \implies Contact: John Doe
<mailto:john,doe@host> ;q=0.8, John Doe
<sip:john.doe@host;transport=udp>