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 hen 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: *uri*
- SIP: Location: uri_1 ;parameter=value, uri_2
- but: *uri* may contain unescaped commas and semicolons

Solutions:

1. Contact: quoted-string ➠ `Contact: "mailto:john,doe@host" ;q=0.8, "sip:john.doe@host;transport=udp"`
2. only allow one *uri* per Location entry; LWS between *uri* and parameter
3. Like To: Contact: display-name <quoted-string> ;par ➠ `Contact:  John Doe`

```
<mailto:john,doe@host> ;q=0.8, John
Doe
<sip:john.doe@host;transport=udp>
```