SIP URL Scheme

STATUS OF THIS MEMO

ABSTRACT

        A family of new URL schemes, "sip*:", is defined. It is
        used to establish multimedia conferences using the
        Session Initiation Protocol (SIP).

1 URL Syntax

   This URL does not designate a data object, but rather requests the
   initiation of a conference with the designated party using the
   Session Initation Protocol (SIP) [1]. The details of this conference,
   such as the type and parameters of media to be used, are not
   specified by this URL but may be negotiated by the protocol itself.

   A SIP URL is based on the Common Internet Scheme Syntax described in
   section 3.1 of RFC 1738 [2]. It has the general forms:

```
sip://<user>:<password>@<host>,<ttl>:<port>
sips://<user>:<password>@<host>,<ttl>:<port>
sipt://<user>:<password>@<host>,<ttl>:<port>
sipu://<user>:<password>@<host>,<ttl>:<port>
```

The " :<password> ", " ,<ttl> ", " :<port> " parts are optional. If
the port is omitted, then port TBD is assumed for schemes sip: ,
sipu: , and sipt: and port TBD for scheme sips:

The URL scheme name also designates the transport protocol to be used
by SIP. For sip: , either UDP or TCP may be used, depending on the
preference of the entity resolving the URL. sipu: and sipt:
explicitly request use of UDP and TCP. sips: requests use of SSL
over TCP.

The ttl value designates the multicast time-to-live value. This field
MUST NOT be used if the host part of the URL is a unicast address.
The default value is one. The ttl value is mandatory if the host
address designates an IPv6 multicast address. (The textual
representation of IPv6 addresses contain colons and thus cannot be
delineated from the port identifier.)

2 SIP URL BNF

The following BNF includes the generic definitions of RFC 1738,
Section 5.

```
sip_URL        = ( "sip:" | "sips:" | "sipt:" | "sipu:" ) "//" login
login          = [ user [ ":" password ] "@" ] host_ttl_port
host_ttl_port  = host [ "," ttl ] [ ":" port ]
ttl            = digits
```

3 Author's Address

Henning Schulzrinne
Dept. of Computer Science
Columbia University
1214 Amsterdam Avenue
New York, MY 10027
USA
electronic mail: schulzrinne@cs.columbia.edu

4 Bibliography

[1] M. Handley, H. Schulzrinne, and E. Schooler, "SIP: session
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[2] T. Berners-Lee, L. Masinter, and M. McCahill, "Uniform resource

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