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SIP URL Scheme

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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
```

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4 Bibliography

[1] M. Handley, H. Schulzrinne, and E. Schooler, "SIP: session initiation protocol," Internet Draft, Internet Engineering Task Force, Mar. 1997. Work in progress.

[2] T. Berners-Lee, L. Masinter, and M. McCahill, "Uniform resource

locators (URL)," RFC 1738, Internet Engineering Task Force, Dec. 1994.