

SDP Extensions and Conventions for Collaboration Applications

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IPR notification

- Nokia Siemens Networks Oy has filed an IPR declaration about this draft.
- The details of the IPR declaration are available at:

<https://datatracker.ietf.org/ipr/931/>

Main idea

- Use an existing session to enrich it with collaboration media streams.
- Collaboration includes:
 - View sharing with remote manipulation
 - Co-web browsing
 - File transfer
 - Whiteboard, etc
- Not the intention to re-invent media protocols: use existing ones

View sharing with remote manipulation

- The draft considers two media protocols:
 - T.120 suite of specifications
 - T.128 is application sharing
 - Remote Framebuffer protocol (RFB), which is used by Virtual Network Computing (VNC)

SDP extension for view sharing with remote manipulation

- Use m=application line
 - Specify the protocol: TCP/RFB, TCP/TLS/RFB, TCP/T120, or TCP/TLS/T120
- T.120 requires two new attributes
 - a=confname links the T.120 stream with this description
 - a=t120apps lists the supported application. For view sharing this is t128

SDP example: view sharing / RFB

```
v=0
o=alice 2890844526 2890844526 IN IP4
  host.atlanta.example.com
s=
c=IN IP4 host.atlanta.example.com
t=0 0
m=application 42034 TCP/RFB *
a=setup:active
a=connection:new
```

SDP example: view sharing / T.120

```
v=0
o=alice 2890844526 2890844526 IN IP4
  host.atlanta.example.com
S=
c=IN IP4 host.atlanta.example.com
t=0 0
m=application 23093 TCP/T120 *
a=setup:active
a=connection:new
a=confname:623847692,789234789,78687afded2
  78bd@example.com
a=t120apps:t128
```

Co-web browsing

- Emulate someone copying a URL into a chat screen and sending to the remote party
- Each endpoint loads the URL independently
- The draft defines a simple XML document (and its MIME type) that contains the URL and a timestamp.
- This XML document can be sent with MSRP.
- The a=accept-types in the MSRP media description contains the new MIME type

SDP example: co-web browsing

```
v=0
o=alice 2890844526 2890844527 IN IP4
  alice.example.com
S=
c=IN IP4 alice.example.com
t=0 0
m=message 7394 TCP/MSRP *
a=accept-types:application/co-web-browsing+xml
a=path:msrp://alice.example.com:7394/2s93i9ek2a;tcp
```

Co-web browsing: XML document

```
<?xml version="1.0" encoding="UTF-8"?>  
  <co-web-browsing>  
    <timestamp>2008-01-27T16:49:29Z</timestamp>  
    <url>http://www.example.com/index.html</url>  
  </co-web-browsing>
```

File transfer

- The draft largely refers to the file transfer mechanism draft (draft-ietf-mmusic-file-transfer-mech) or the T.127 spec (part of T.120)

Other collaboration applications

- Whiteboard
 - T.126 covers whiteboard. Any other protocol?

Next steps

- Is this something we should be working on?