SDP offer/answer for file transfer

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draft-garcia-mmusic-file-transfer-mech-00.txt

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Summary

- Mechanism to address the requirements of:
  - draft-isomaki-sipping-file-transfer-01.txt

- How to describe in SDP a file to be transferred
  - The answerer needs to be able to reject the offer before the actual transfer starts.
  - SDP extensions to describe files
  - Uses MSRP to do the actual transfer. MSRP messages carry the usual MIME container describing the file to be transferred.

- Recommendations on how to perform the transfer with MSRP
  - Each MSRP session carries one file at a time
  - Several MSRP sessions can be multiplexed over the same TCP connection.

Example

```
v=0
o=alice 2890844526 2890844526 IN IP4 pc.example.com
s=
c=IN IP4 alicepc.example.com
t=0 0
m=message 7654 TCP/MSRP *
i=This is my latest picture
a=sendonly
a=accept-types:*
a=path:msrp://pc.example.com:7654/jshA7we;tcp
a=filename:My cool picture.jpg
a=filetype:image/jpeg
a=disposition:inline
a=filesize:4096
a=creation-date:Mon, 15 May 2006 15:01:31 +03:00
a=icon:cid:id2@pc.example.com
a=hash:SHA 72245FE8653DDAF371362F86D471913EE4A2CE2E
```

Open issues

- The draft assumes that the file transfer starts at offset 0
  - Folks want to enable a file transfer a different offset, e.g., for resuming failed transfers.
  - Solution is to add an 'a=byte-ranges' attribute to the SDP offer

- Is this ready to become a WG item?