

Session Description Protocol

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Purpose and Content

- The purpose of SDP is to convey information about media streams in multimedia sessions to help participants join or gather info of a particular session
 - SDP includes
 - Session name and purpose
 - Time(s) the session is active
 - The media comprising the session
 - Information to receive those media (addresses, ports, formats and so on)
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Format

- SDP is a short structured textual description
- It conveys the name and purpose of the session, the media, protocols, codec formats, timing and transport information
- A tentative participant checks these information and decides whether to join a session and how and when to join a session if it decides to do so
- The format has entries in the form of $\langle type \rangle = \langle value \rangle$, where the $\langle type \rangle$ defines a unique session parameter, and the $\langle value \rangle$ provides a specific value for that parameter.

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Session Description Parameters - 1

- **Session description** (* denotes optional)
 - v= (protocol version)
 - o= (owner/creator and session identifier)
 - s= (session name)
 - i=*(session information)
 - u=*(URI of description)
 - e=*(email address)
 - p=*(phone number)
 - c=*(connection information - not required if included in all media)
 - b=*(bandwidth information)

One or more time descriptions (see next slide)

- z=*(time zone adjustments)
- k=*(encryption key)
- a=*(zero or more session attribute lines)

Zero or more media descriptions (see next slide)

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Session Description Parameters -2

- **Time description** (* denotes optional)
t= (time the session is active)
r=* (zero or more repeat times)
- **Media description** (* denotes optional)
m= (media name and transport address)
i=*(media title)
c=*(connection information - optional if included at session-level)
b=*(bandwidth information)
k=*(encryption key)
a=*(zero or more media attribute lines)
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An Example

- Below is an example session description, taken from RFC 2327:

v=0

o=mhandley 2890844526 2890842807 IN IP4

126.16.64.4

s=SDP Seminar

i=A Seminar on the session description protocol

u=http://www.cs.ucl.ac.uk/staff/M.Handley/sdp.03.ps

e=mjh@isi.edu (Mark Handley)

c=IN IP4 224.2.17.12/127

t=2873397496 2873404696

a=recvonly

m=audio 49170 RTP/AVP 0

m=video 51372 RTP/AVP 31

m=application 32416 udp wb

a=orient:portrait

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- This presentation is only a rough introduction. For better understanding go through the document of RFC 2327
- If you have suggestions or have a better presentation to share with others, email to intro_to_multimedia@yahoo.co.in. Your contribution will be appreciated and acknowledged.
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