

# SDP: Session Description Protocol

## SDP/1

## SDP

- not really a *protocol* – data carried by other protocols
- describes multimedia sessions
- several media streams
- used by SAP, SIP, RTSP, H.323, PINT

## SDP/2

### **SDP information**

item	opt.?	description
v		protocol version
o		owner/creator
c	*	connection information
s		session name
b	*	BW available/needed
z	*	time zone adjustment
k	*	encryption key
a	*	session attributes

### **SDP/3**

### **SDP contact information**

item	opt.?	description
i	*	session information
u	*	URI of description
p	*	phone number
e	*	email address

### **SDP/4**

## SDP media description

item	opt.?	description
m		media name and transport address
i	*	media title
c	*	connection information
b	*	bandwidth (kb/s)
k	*	encryption key
a	*	media attributes

## SDP/5

### SDP example

```

v=0
o=g.bell 877283459 877283519 IN IP4 132.151.1.19
s=Come here, Watson!
u=http://www.ietf.org
e=g.bell@bell-telephone.com
c=IN IP4 132.151.1.19
b=CT:64
t=3086272736 0
k=clear:manhole cover
m=audio 3456 RTP/AVP 96
a=rtpmap:96 VDVI/8000/1
m=video 3458 RTP/AVP 31
m=application 32416 udp wb
a=orient:portrait

```

## SDP/6

## **SDP issues**

- can't describe alternatives (“English *or* French”)
- can't indicate preferences
- receive capabilities only
- not rich enough for multimedia presentations
- scheduling  $\neq$  vcalendar

## **SDP/7**