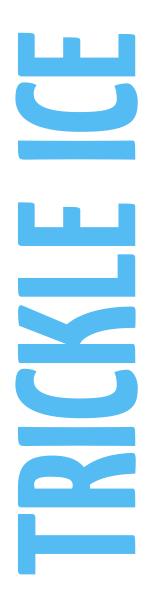
# 



### draft-ietf-mmusic-trickle-ice Emil Ivov, Eric Rescorla, Justin Uberti

95%

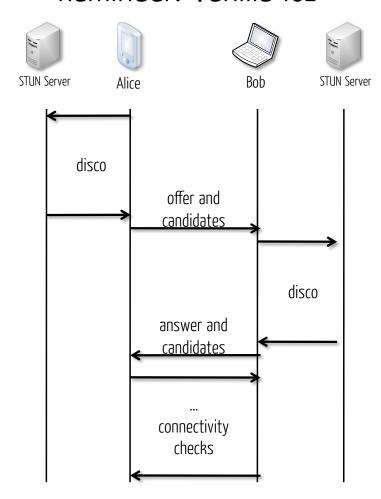
draft-ietf-mmusic-trickle-ice-sip E Ivov, Thomas Stach, E Marocco, C Holmberg

98%

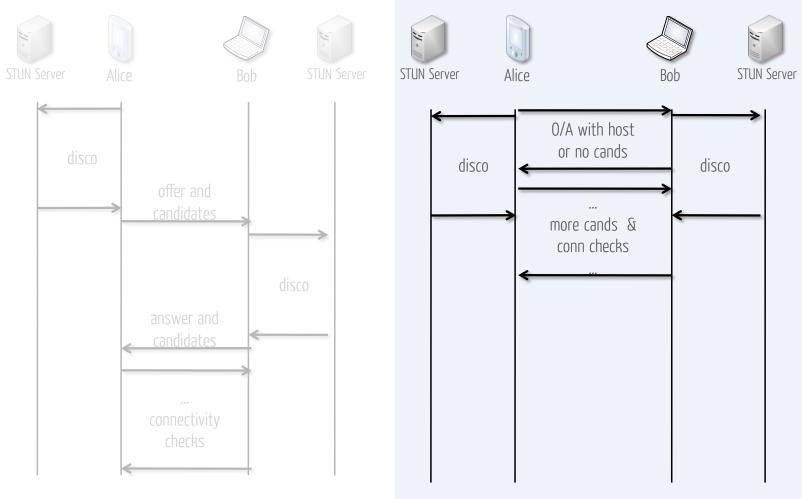
draft-ivov-disspatch-sdpfrag-03 Emil Ivov, Adam Roach, Anyone Else?

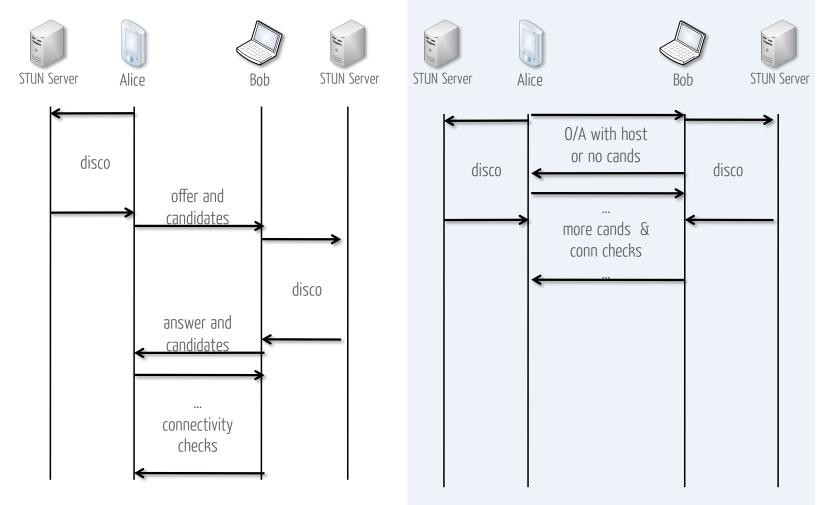
merged with draft-ietf-mmusic-trickle-ice-sip

#### Reminder: Vanilla ICE



#### Reminder: Vanilla ICE vs Trickle ICE





Vanilla ICE as per RFC 5245

Trickle ICE

### draft-ietf-mmusic-trickle-ice Emil Ivov, Eric Rescorla, Justin Uberti

95%

Thanks: Rajmohan Banavi & Peter Saint-Andre

### there is this one issue:

```
c=IN IP6 ::
```

a=ice-options:trickle
a=ice-pwd:asd88fgpdd7
a=ice-ufrag:8hhY

## using IP6 :: seems to wreak havoc

### draft-ietf-mmusic-trickle-ice Emil Ivov, Eric Rescorla, Justin Uberti

95%

Mostly done. How about a working group last call?

### draft-ietf-mmusic-trickle-ice-sip E Ivov, Thomas Stach, E Marocco, C Holmberg

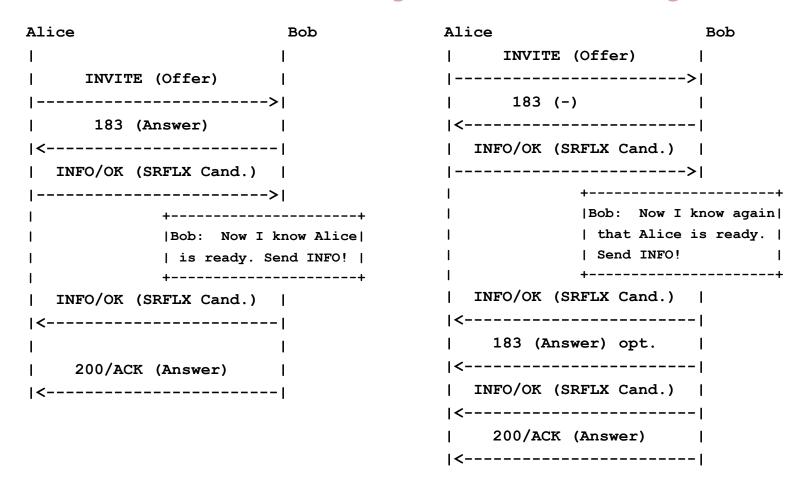
98%

# AS SINCE OIL

IANA Consideration added Security Consideration added

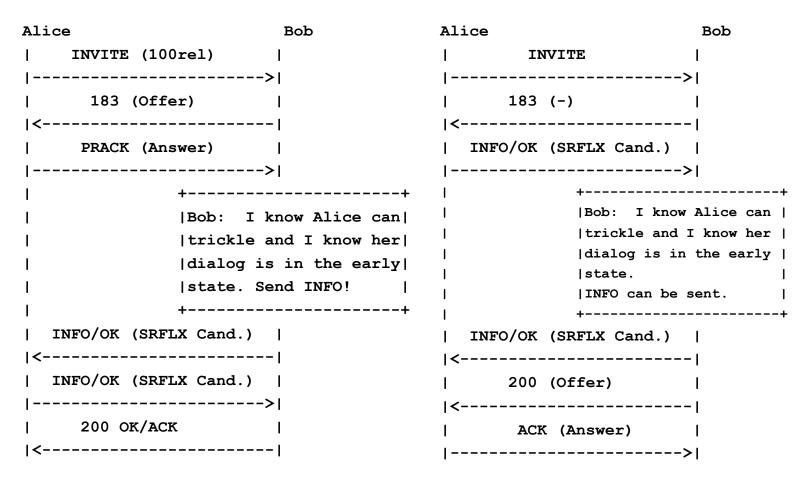
Info Package definition completed as outlined in section 10 of [RFC6086]

### 18x w/o answer creates a dialog that allows for trickling to start



INFO confirms that the dialog is established (independently from Q/A)

### **3PCC Consideration added**



### △S SINCE -O1 Definition of application/sdpfrag

- draft-ivov-mmusic-sdpfrag obsolete
- Based on ABNF of 4566bis, but all lines optional
- Gives some structure
- Take valid SDP and remove unnecessary parts
- Specific application MUST define allowed content

# ΔS SINCE -O1 Info Package trickle-ice

- Uses application/sdpfrag
- Restricts content via ABNF
  - pseudo m-lines and a=mid as separator
  - ICE attributes (ice-ufrag, candidate, end-ofcandidates, ...)
  - a=rtcp-mux, a=group: BUNDLE
     Saves from gathering unnecessary candidates
  - Hook for extensibility

### **∆s since -01**

#### INFO sip:alice@example.com SIP/2.0

...

Info-Package: trickle-ice

Content-type: application/sdp

Content-Disposition: Info-Package

Content-length: ...

a=ice-pwd:asd88fgpdd777uzjYhagZg

a=ice-ufrag:8hhY

m=audio 9 RTP/AVP 0

a=mid:1

a=rtcp-mux

a=candidate:1 1 UDP 1658497328 192.168.100.33 5000 typ host

a=candidate:2 1 UDP 1658497328 96.1.2.3 5000 typ srflx raddr 10.0.1.1 rport 8998

a=end-of-candidates

m=audio 9 RTP/AVP 0

a=mid:2

a=rtcp-mux

a=candidate:2 1 UDP 1658497328 96.1.2.3 5002 typ srflx raddr 10.0.1.1 rport 9000

a=end-of-candidates

**Example** 

### Open Issues: Rate of INFOs

What maximum rate will give a good trade-off?

One INFO every 100ms, 200ms?

easy answer: immitate behaviour for other requests