

## ACTIVITIES

### ACTIVITY 6.1

1. Read sections 1 to 5 of RFC3262 (Reliability of provisional responses)
2. Read section 13.2.1 of RFC3261 (base SIP spec). It contains the following paragraph:

*"If the initial offer is in an INVITE, the answer MUST be in a reliable non-failure message from UAS back to UAC which is correlated to that INVITE. For this specification, that is only the final 2xx response to that INVITE. That same exact answer MAY also be placed in any provisional responses sent prior to the answer. The UAC MUST treat the first session description it receives as the answer, and MUST ignore any session descriptions in subsequent responses to the initial"*

3. According to the above, please show a call flow between two User Agents (Alice and Bob) in which there is early media, prior to the establishment of the call. Assume that Alice UA does not support PRACK.
4. Same as 3, but now assume that both Alice UA and Bob UA support PRACK

### ACTIVITY 6.2

1. One typical use case of Early Media is for the Ring Back Tone service, whereby a caller can receive a customized announcement (eg. music) configured by the called party while the destination device is ringing.
2. Ring Back Tone service is usually implemented with a network application server (acting as a B2BUA) and a media server (which provides the music announcement)
3. Please depict the SIP/SDP call flow necessary to implement this service in two scenarios:
  - a. Alice UA does not support PRACK
  - b. Both Alice UA and the App Server (AS) support PRACK

