

SIP

I. UA

1. UA – UA

| | | |
|---|----------------|---|
| 1 | | |
| 2 | | |
| 3 | SDP Capability | OPTIONS |
| 4 | | re-INVITE (Modifying an Existing Session) |
| 5 | Extensions | REFER |

2. UA – Proxy – UA

| | | |
|----|----------------|---|
| 1 | | |
| 2 | | |
| 3 | Proxy | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | Record-Route |
| 8 | | Redirect |
| 9 | SDP Capability | OPTIONS |
| 10 | | re-INVITE (Modifying an Existing Session) |

3. UA

| | | |
|---|------|-----------------------------------|
| 1 | | TCP/UDP/TLS |
| 2 | | (G.711, G.723.1, G.729a) |
| 3 | | Auto negotiation |
| 4 | DTMF | Out-of-band/In-band |
| 5 | FAX | FAX Tone FAX |

II. Proxy

1. UA – Proxy – UA

| | | |
|----|----------------|---|
| 1 | | |
| 2 | | |
| 3 | Proxy | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | Record - Route |
| 8 | | Forking |
| 9 | Forking | |
| 10 | Redirect | |
| 11 | SDP Capability | OPTIONS |
| 12 | | re-INVITE (Modifying an Existing Session) |

2. Proxy – Proxy

| | | |
|---|-------|-------------------------|
| 1 | Proxy | |
| 2 | | |
| 3 | | Multiple Authentication |

3. Proxy

| | | |
|---|-------|--------------------------------------|
| 1 | Proxy | Loop detection |
| 2 | | Transport (UDP, TCP, TLS) Conversion |