SIP

VoIP

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Design of VoIP architecture based on SIP for efficient media negotiation

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가 VoIP (Voice over IP) 가 가 (Diversity Problem)가 (Media Negotiation) SIP(Session Initiation Protocol) 가 SIP VolP VoIP 가 VolP 50% 1. VolP ΙP 가 (Round Trip Time) VoIP 가 가 SIP VoIP 가 SIP (Local Domain) VoIP 가 (Diversity 가 Problem) . VolP SIP SIP VolP SIP PDA xDSL 가 VoIP) 가 가 VolP 5 (Media Negotiation) 2. SIP (Session Initiation Protocol) 2.1 SIP (Next Mobile Network) SIP **IETF** SIP(Session . SIP HTTP Initiation Protocol)[1] VolP

SIP

2001

21

가

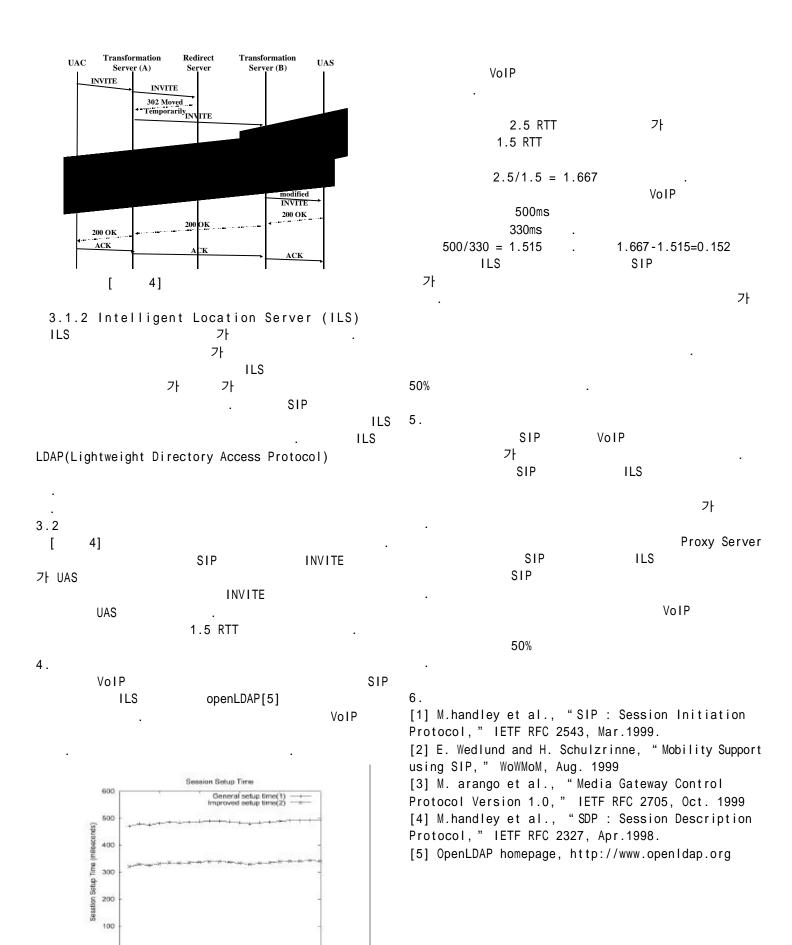
VolP

1]

```
가 . User Agent Client(UAC) User Agent
                                                               UAC
Server(UAS)
              SIP
                                                                       UAC
                                                                                                (Media Gateway)
    . Proxy Server
                        Redirect Server
                                          SIP
                                                                           (Media Transcoding) 가
                             Proxy Server
                                                                                                 INVITE
                                                                   UAS
                                                                                                     UAS
Redirect Server
                                가 가
                                                             가
                                                           " 200 OK "
                                                                                           VoIP
  (Location Server)
                                                                       2.5 RTT(Round Trip Time)
                           가
                                       (User Mobility)
                      [2].
                                                          3.
                                                                        SIP
                                                           3.1
         ▶ Request
                                                                                                      VolP
         ▶ Response
                                                                                   VoIP
                                                                                                          3]
                                                                    Request

    Response

                                                                     ILS(A)
                                       User Agent Server
    User Agent Client
         [
                1] SIP
                               VoIP
                                                                           Server(A)
 2.2 SIP
                                                               User Agent Client
                                                                                                  User Agent Server
 SIP
                mbone
                               VoIP
                                                                     [
                                                                            3]
                                                                                         VoIP
                      IETF
                                           RFC 2543
                                 1999
     SIP
                                                                                VolP
                                                            [
                                                                  3]
  RFC 2543
                                                                                         SIP
                                                                                                       (SIP-based
                                                          Transformation Server)
                                                                                     Intelligent Location Server
                         2]
                                                          (ILS)
                                                                                        가
                                                            3.1.1 SIP
                        Redirect
          Proxy Server (A)
                                 Proxy Server (B)
                                                            SIP
                                                                                    Proxy Server
                                                                 . SIP
                                                                                     ILS
                                                                                                (Registration)
                                        INVITE
                                                                                                 INVITE
                                                                                                               가
                                                                        가
                                                          UAS
                                                                                        INVITE
                                                                                                      가 UAS
                                                            SIP
                                                                        가
                                                                                           가
                                                                        가
                                       Re-INVITE
                                                                                            MGCP(Media Gateway
                                                                          SIP
                                        200 OK
                                                          Control Protocol)[3]
                                                                                                가
                                                                                                            가
                                                                                     UAS
                                                                                       SDP(Session
                                                                  INVITE
                                                                                                      Description
              2] SIP
                                                          Protocol)[4]
                                                                                            . SDP
                                                                                                     SIP
                                                                       가
       UAC가 UAS
                                                               SIP
                                                                                        INVITE
                                                                                                              UAS
INVITE(
                                                                         . [
                                                                                 4]
                                                                                                      VolP
               UAS
                    "606 Not Acceptable"
```



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1]

Entries (counts)