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SIP base a VOIP Protocol

Course objective:

To introduce a Session Initiation Protocol (SIP) applied in V oIP.

To introduce the advantage and improvement of SIP over others VoIP protocol.

To give the knowledge in SIP application, configuration and performance evaluation method that will be a benefit for VoIP engineer.

Audience qualification : engineer, technical Manager or Senior engineer

Course Duration :2 day

Course outline:

1. Multimedia over IP
    a. Why over IP?
    b. What over IP?
    c. How over IP?
2. Overview of SIP
    a. Information about SIP
        i. SIP Capabilities
        ii. SIP Components
    b. How SIP works with a Proxy Server
    c. How SIP works with a Redirect Server
    d. SIP Call flows
        i. Call Setup and Disconnect
        ii. Call via SIP Redirect Server
        iii. Call via SIP Proxy Server
3. Basic SIP configuration on CISCO Gateway
    a. How to perform basic SIP configuration
    b. Configuration examples for basic SIP configuration
4. Achieving SIP RFC Compliance
    a. Information to configure SIP RFC compliance (RFC 2543, 2782, 3261, 3262 and 3264)
    b. How to configure SIP RFC compliance
    c. Configuration examples for SIP RFC compliance
5. SIP special features
    a. Call-transfer
    b. AAA
    c. Connection-oriented media
    d. Bind
    e. DTMF
    f. ISDN
    g. QoS
    h. Message Writing Indication (MWI)
6. Trends and SIP-based services

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