

## **CHAPTER-1**

### **Analog circuits:**

**Loop start:** When a phone is on-hook, the CO sees the circuit is broken. As soon as the phone goes off-hook to make an outgoing call, the circuit is completed and a -48V DC current flows. The CO sees the circuit as complete and sends a dial-tone.

When a phone receives an incoming call, the CO sends a 90V AC current and that makes the phone ring.

**Loop start signalling** is ideal for home users but can cause a problem known as "glare".

**Ground start:** This type of signalling is very common between a PBX and a CO switch. Here, both ends can request and confirm the use of circuit by closing the circuits from their end. The two wires are typically called the "tip" and the "ring" wires.

**E&M-** Usually called Ear and Mouth, or Earth and Magneto or Receive and Transmit. This type of signalling is used between PBXs.

**Numbering Plans:** It is a set of rules used to construct numbers. An authority regulates number distribution in the territory. Two types- E.164 and NANP.

The ITU developed an international standard for telephone numbering called the E.164 Addressing. It has 3 components-

- CC - Country Code
- NDC- National Designation Code
- SN- Subscriber Number

It can have a maximum of 15 digits.

### **Telephony signalling:**

**Supervisory signalling:** On-hook, Off-hook and ringing. It communicates the state of the phone.

**Informational signalling:** The local CO sends different frequencies to notify the caller about, once the caller phone goes offhook- dial-tone, busy, ringback, congestion, reorder, receiver-offhook, no such number and confirmation. It communicates the current state of the call.

**Address signalling:** Once the dial-tone is available, user can dial digits. Two types of address signalling- DTMF (tone) and Pulse. The digits dialled are also address signalling.

**Drawbacks:** 1) Distance limitation  
2) One line can only support one phone call at a time.

# Ccna Voice Quick Reference Guide

**Wendell Odom,Thomas Knott**

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**CCNA Voice Quick Reference** Michael Valentine,2008-07-01 As a final exam preparation tool the CCNA Voice Quick Reference provides a concise review of all objectives on the new IIUC exam 640 460 This digital Short Cut provides you with detailed graphical based information highlighting only the key topics in cram style format With this document as your guide you will review topics on concepts and commands that apply to Cisco Unified Communications for small and medium sized businesses This fact filled Quick Reference allows you to get all important information at a glance helping you focus your study on areas of weakness and enhancing your memory retention of essential exam concepts

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