

## **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**



## **Ccna Voice Quick Reference Guide:**

**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 **CCNA Voice Quick Reference** Michael Valentine, 2008 **CCNA Voice 640-461 Official Cert Guide** Jeremy Cioara, Michael H. Valentine, 2011-08-18 Trust the best selling Official Cert Guide series from Cisco Press to help you learn prepare and practice for exam success They are built with the objective of providing assessment review and practice to help ensure you are fully prepared for your certification exam CCNA Voice 640 461 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques Do I Know This Already quizzes open each chapter and enable you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly Master Cisco CCNA Voice 640 461 exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks Practice with 200 realistic exam questions on the CD ROM CCNA Voice 640 461 Official Cert Guide focuses specifically on the objectives for the CCNA Voice ICOMM exam Senior voice consultants and trainers Jeremy Cioara and Michael Valentine share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills Material is presented in a concise manner focusing on increasing your understanding and retention of exam topics The companion CD ROM contains a powerful Pearson IT Certification Practice Test engine that enables you to focus on individual topic areas or take a complete timed exam The assessment engine also tracks your performance and provides feedback on a module by module basis laying out a complete assessment of your knowledge to help you focus your study where it is needed most Well regarded for its level of detail assessment features comprehensive design scenarios and challenging review questions and exercises this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time The official study guide helps you master all the topics on the CCNA Voice exam including Voice and data convergence IP phone connections to the LAN infrastructure Cisco Unified Communications Manager Express CUCM Express IP phone configuration and voice productivity features Gateways and trunks Cisco Unity Express Smart Business Communications System UC500 series for voice CCNA Voice 640 461 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e

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Networking Basics Wendell Odom, Thomas Knott, 2006 The completely revised and only authorized textbook for the Cisco Networking Academy Program CCNA 1 curriculum

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Cisco CCNA Voice Simplified Paul William Browning, Farai Tafa, 2010-03 This guide serves as both an essential exam study tool and a handy desktop reference manual for any Cisco engineer involved in voice networking Each topic is explained in detail and accompanied by real world applications and detailed diagrams

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