

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

Paul William Browning, Farai Tafa



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Table of Contents Ccna Voice Quick Reference Guide

1. Understanding the eBook Ccna Voice Quick Reference Guide
 - The Rise of Digital Reading Ccna Voice Quick Reference Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ccna Voice Quick Reference Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ccna Voice Quick Reference Guide
 - User-Friendly Interface

4. Exploring eBook Recommendations from Ccna Voice Quick Reference Guide
 - Personalized Recommendations
 - Ccna Voice Quick Reference Guide User Reviews and Ratings
 - Ccna Voice Quick Reference Guide and Bestseller Lists
5. Accessing Ccna Voice Quick Reference Guide Free and Paid eBooks
 - Ccna Voice Quick Reference Guide Public Domain eBooks
 - Ccna Voice Quick Reference Guide eBook Subscription Services
 - Ccna Voice Quick Reference Guide Budget-Friendly Options
6. Navigating Ccna Voice Quick Reference Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Ccna Voice Quick Reference Guide Compatibility with Devices
 - Ccna Voice Quick Reference Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ccna Voice Quick Reference Guide
 - Highlighting and Note-Taking Ccna Voice Quick Reference Guide
 - Interactive Elements Ccna Voice Quick Reference Guide
8. Staying Engaged with Ccna Voice Quick Reference Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ccna Voice Quick Reference Guide
9. Balancing eBooks and Physical Books Ccna Voice Quick Reference Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ccna Voice Quick Reference Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ccna Voice Quick Reference Guide
 - Setting Reading Goals Ccna Voice Quick Reference Guide
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ccna Voice Quick Reference Guide
 - Fact-Checking eBook Content of Ccna Voice Quick Reference Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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