IP Applications & Billing

Billing Platforms - Today and Tomorrow

This section introduces to the students IP, networks, and the billing environment. A discussion of IP and the impact IP is having on the carriers and on the billing systems will be held.

- PSTN
- Signaling Systems and IN Services
- IP Impact on Billing

The Internet Building Blocks

Familiarize the student with how the internet works. IP terminology and concepts discussed form the basis for future discussions.

- Networks
- Client-Server Interaction
- Packet Switching
- IP Addresses and Domains
- Firewalls
- ISP and NSP

IP and Data Networks

This section introduces the students to the OSI model as background for discussion of network architecture, network elements and data services.

- OSI Model
- Network Access
- Routers and Switches
- Circuits and Packets
- LAN and WAN
- X.25/Frame Relay/ATM
- IP Internetworking

Voice Over IP

This section describes why VoIP is so popular, the components of a VoIP call and the challenges that remain for VoIP.

- Turning Voice into Packets
- Digital Signal Processors
- Gateways/Gatekeepers
- IP Telephony Protocols
- Quality of Service (QoS)
- Pricing and Billing for VoIP

IP Applications & Services

This section explores the different applications that the IP networks have developed and the unlimited opportunities remaining for the industry.

- Internet Fax
- Mobile IP and Wireless Internet
- Unified Messaging
- Multimedia IP Applications, Video Conferencing
- E-Commerce
- Voice-Enabled Web Sites
- Telemarketing and Call Centers
- Virtual Private Networks (VPN)
- Applications Service Prividers (ASP)
- Billing Implications

IP Mediation

This section explores content and content collection. What is needed, where the data resides and for how long are a few questions to be answered when addressing your companies mediation needs. We will explore the challenges in collection, enrichment, and provisioning in the IP environment.

- Key Role of Mediation
- Data Collection
- Collection Points
- Data Enrichment
- Real-TIme Mediation

IP Rating and Billing

This section explains the billable elements required for billing, the complexities involved with measuring QoS, the role of the clearinghouses, taxation issues, and convergent billing.

- Traditional Billing
- ISP Billing
- IP Pricing Models
- QoS/SLA
- Rating Engine
- Real Time and Prepaid Service

Wireless IP

This section will explore the merging of wireless and IP. A discussion will follow with the services available currently, how the services work, and how the industry is handling the billing of such services.

- Wireless Technologies Review
- Wireless Data Services

Trends, Opportunities, and Predictions

The students will discuss the new technologies and equipment that are opening up new possibilities along with the new applications and services for new revenue streams.

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