



Course Synopsis

Course : IP Billing

Duration: 1 day

ETS Code : ETS423

The Internet Protocol (IP) is the world's dominant data communications protocol. However, traditional ways of billing by telcos doesn't fit IP. The classic 'time and distance' paradigm is not applicable to bursty traffic. Nevertheless, IP must be billed if carriers are to stay profitable.

This one day course examines how this goal can be achieved. It starts by looking at the IP chain of services necessary to deliver IP-based services to customers before looking at major characteristics of IP. This is not an in-depth IP course but some aspects of IP are essential to understand how to bill IP.

The course examines both fixed and mobile IP Billing as well as a major IP application (from the carriers viewpoint) – Voice over IP.

Course Contents

- **The IP Billing Chain**
 - The Food Chain
 - Volume Billing and its Limitations
- **So what is this 'IP', anyway?**
 - Data Traffic
 - Connection Types
 - Layered Systems
 - IP Features
 - TCP
 - IP Routing
 - The Internet
- **Voice over IP**
 - Why Voice over IP?
 - Patterns of Use
 - Voice and Data are Different
 - All the Protocols Needed
 - Billing Implications
- **IP Billing Components**
 - Content or just Bytes
 - Example from ADSL
 - Problems and Mediation
 - Viewpoints
 - Online Trading Example

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- What could we charge for?
- IP Security
- IPDR
- TOM
- JAIN Initiative
- Parlay

- **Mobile IP Billing**
- GSM & GPRS
- The Basis of 3G
- Tariffs
- Roaming
- Location-Based Services
- Prepay
- Charging Principles
- Quality
- CDRs
- Conclusions to Ponder

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