

CIBERNET[®]
Voice, Data & m-Commerce Transaction Management

Roaming Billing & Settlement

CDMA Latin America Roaming Forum

Rio de Janeiro, Brasil

26 May, 2004



The Global Leader in Wireless Financial Settlement



Agenda

- Things to know about Roaming Billing & Settlement
 - Roaming Agreement
 - CIBER
- Billing Guidelines
- Financial Settlement
- Upcoming enhancements and changes



Billing begins with your Roaming Agreement

- What Services
 - Telephony (voice)
 - Data
 - Supplemental services
- Billing
 - Billing & settlement cycle
 - Data exchange
 - What records used (CIBER)
- Primary contacts
- Fraud prevention/liability
- Settlement
 - When
 - What method
- Charging Principles
 - Rates (wholesale)
 - Mobile terminating
 - Mobile originating
 - Toll / Data / Messaging
 - Other



CIBER[®]

The Cellular Inter-carrier
Billing Exchange Roamer
record (and process)



History of CIBER

- Started by CTIA Roamer committee in 1987
- CIBERNET formed by CTIA in 1988
 - Administer, maintain, and enhance CIBER
 - Introduced 1st financial settlement program
- Over 200 Operators and Vendors use CIBER today (AMPS, CDMA, TDMA)
- Current Release of CIBER is version 2.5



What is CIBER?

- The Cellular Inter-carrier Billing Exchange Roamer record was developed to facilitate the exchange of roaming call details among roaming partners for settlement.
- CIBER Specification consists of:
 - Record formats
 - Data dictionary, descriptions, and edits
 - Processing rules and guidelines
 - Reference and industry tables



CIBER Enhancements & Changes

- Proposed new record specifically for mobile data billing (Type 82)
- Table 30 updates for new roaming types
 - Packet data
 - WiFi
- Bulk SMS/MMS exchange
- Support for new Mobile Equipment Identifier (MEID), replaced ESN# which is less digits.
- Potentially retire older CIBER records (10, 20, 30, etc.)



Roaming Billing & Settlement Summary

- CIBER is used today for wholesale billing and settlement of:
 - Voice
 - Data
 - SMS/MMS
 - Pre-paid roaming (wholesale settlement)
 - Inter-standard roaming
 - New roaming services & partners
 - WiFi (WLAN)
 - Content & 3rd party services/applications



Billing Guidelines

- Developed by CDMA Development Group's International Roaming Team
 - CDG document #59 - Billing Specification
 - Helpful in understanding and implementing CIBER
 - Charging principles
 - Field population
 - Use of indicators (Time Zones, etc.)
- International Roaming Team has also developed
 - Sample Tech Data Sheet
 - Roaming Agreement template
 - Wireless Data Roaming Requirements (Phase 1)



CIBER User Group Meeting

Opportunity to learn more about CIBER changes and enhancements, and discuss your current and future billing & settlement requirements.

When: 16 June, 2004

Where: Miami Beach, Florida

Cost: Free to CIBER licensees

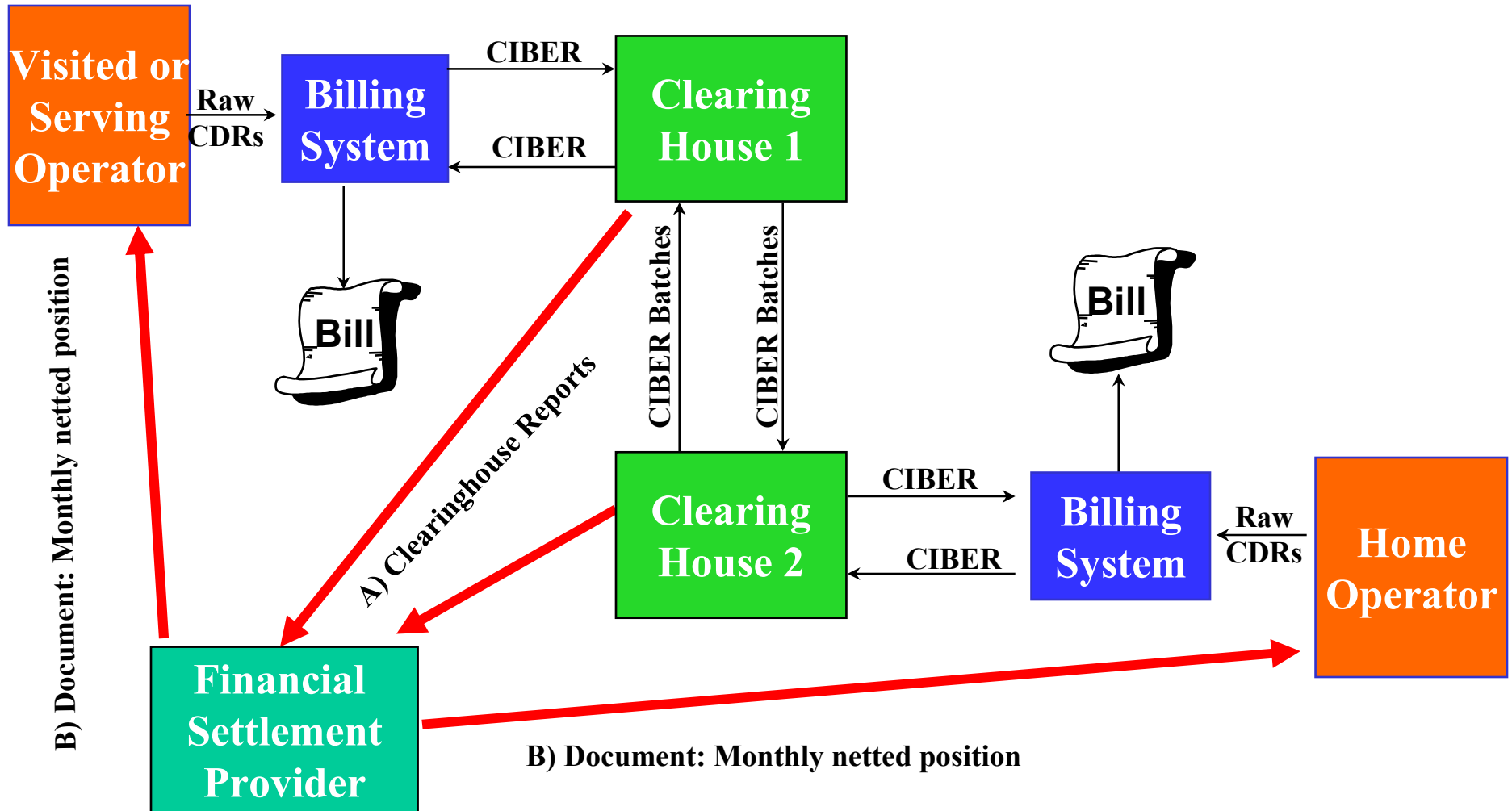
For more information contact: Gepsie Cox gcox@cibernet.com



Financial Settlement



Financial Settlement Process





Multilateral Financial Settlement

- Net Settlement Program
 - Settled in \$ (US Dollars)
 - Multilateral Only (for now)
 - Cycle is 16th - 15th of the following month
 - Automates funds exchange – Only 1 monthly transaction per operator
 - Regional programs (Canada, Mexico & America Sur ?)
 - Input from Data Clearinghouses is reconciled and balanced each month
 - Settlement statement and funding instructions monthly



Questions?

Thank You

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