

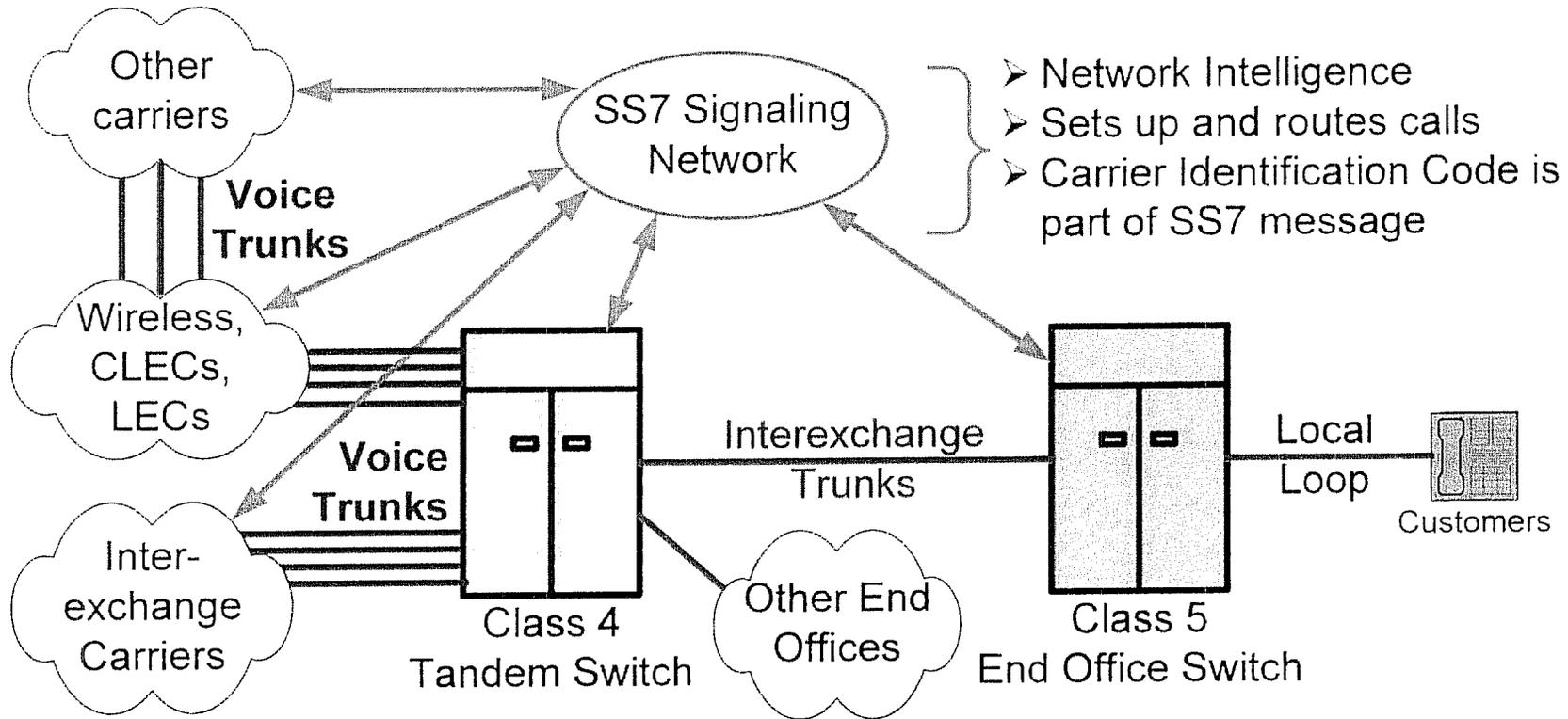
Expert Report of Larry Thompson

Prepared for

*Civil No. 04-3014, U.S. District Court,
District of South Dakota, Central Division*

EXHIBIT 2

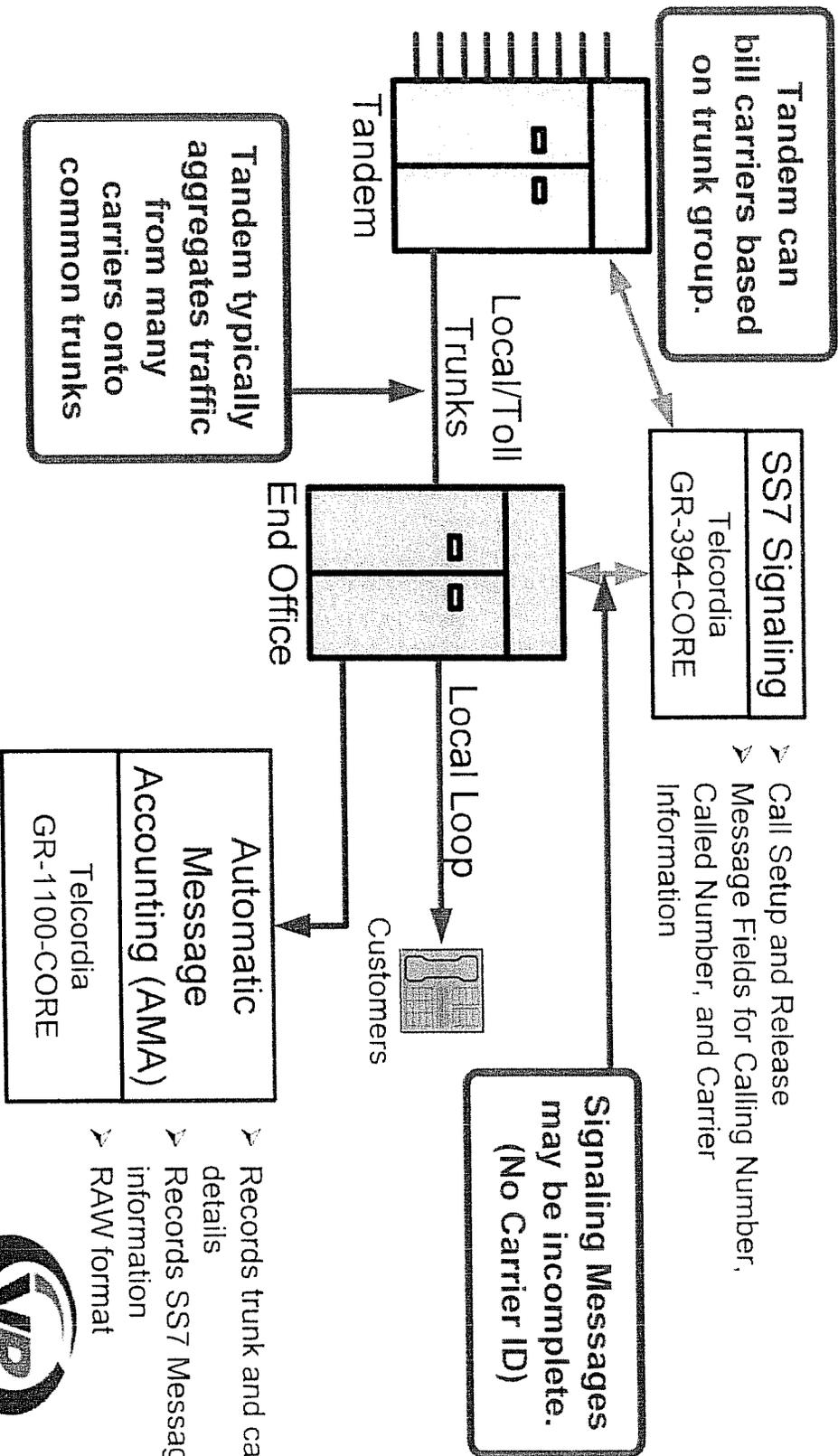
Switching Network



Vantage Point

Customer Focused. Technology Driven.

Call Recording



- Records trunk and call details
- Records SS7 Message information
- RAW format

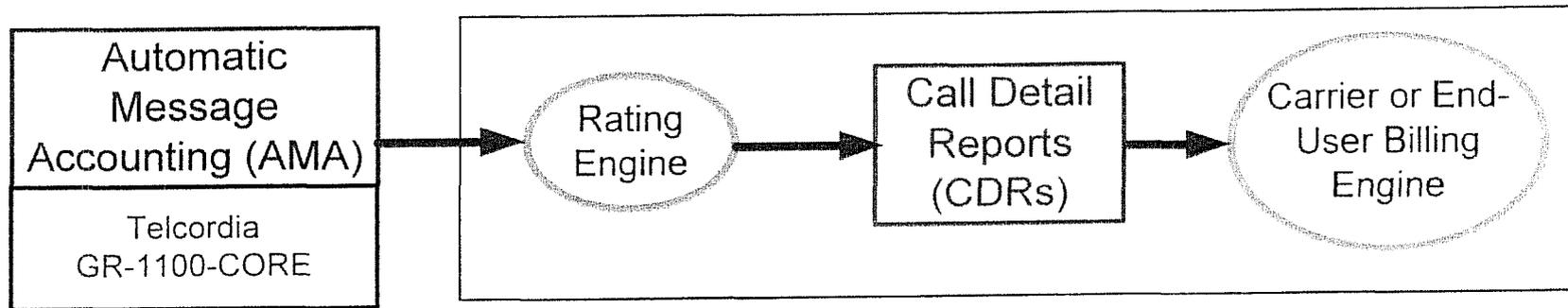


Vantage Point

Customer Focused Technology Provider

Call Processing and Billing

Carrier Customer Care and Billing System



- Recorded on hard disk (or tape) in switch
- Records trunk group, call details, and SS7 message details

Determines WHO to bill based on:

- Carrier ID (preferred)
- Incoming trunk (not possible on common/shared trunks)
- Calling party number (difficult and not accurate)
- Records from transiting carrier (often incomplete)

Determines WHAT to bill based on:

- Type (Local or Toll)
- Jurisdiction (state or interstate)
- Specific carrier contracts
- Time of day
- Call duration



Vantage Point

Customer Focused. Technology Driven.

Issue Summary

- Telephone company cannot properly bill for traffic on their networks
 - Common trunks: Cannot bill based on incoming trunk group
 - Carrier ID: Often missing in SS7 signaling message
- Tandem records may also be incomplete
- Solution: Carriers should be required to use industry standard methods of identifying their traffic so it can be measured and billed properly.



Vantage Point

Customer Focused. Technology Driven.