Programmable Content CDR™
from Inet Technologies, Inc.

Reduce operating costs and revenue losses due to fraud with Inet's Programmable Content CDR™ Network operators are losing an estimated $1 billion each month to fraud, while fierce competition is forcing them to accelerate the introduction of revenue-generating services. Numerous industry mergers, rapid advancements in technology, and a shortage in skilled personnel have increased the challenge of integrating complex multi-vendor networks. Inet's Programmable Content Call Detail Record (CDR) can help you solve today's fraud problems, introduce new billing and revenue-generating services across different technologies, and help you plan for future growth. In short, Inet enables you to take control of your business and Simplify Your Network.

One Solution for Many Challenges

For most operators, subscriber fraud accounts for the largest revenue losses and is the most difficult to detect. Inet's Programmable Content CDR application provides the world's leading automated fraud systems with the information to fight:

- *PBX Hacking - real-time detection by focusing on short calls and single number origination*

- *Calling Card Fraud - real-time detection of large numbers of calls originating from a single number*

- *Traffic Refiling - real-time protection by detecting unusual frequencies of single calling party numbers, and alerting operators of suspect activity almost instantaneously*

Similarly, by streaming Programmable Content CDR to customer care tools, decision support systems, special studies or billing verification systems, you can reap the benefits of optimizing network deployment, identifying troublesome traffic patterns, and spotting revenue-generating market trends.

Flexibility, Timeliness, Efficiency

Flexibility is vital in today's competitive landscape, which is why Inet has developed a CDR application that allows you to include any SS7 parameter in the CDR. Traditional CDRs have fixed formats and pre-defined content that gradually evolve to meet the needs of a broad range of customers. Also, infrastructure providers can require as much as two years of development time to change their CDRs, usually at an additional cost.

Inet's **GeoProbe**™ system non-intrusively monitors all the SS7 signaling in your network and generates a comprehensive Programmable Content CDR without requiring information from your switches. Flexibility to program only relevant content gives users control over bandwidth requirements. The system also provides the flexibility to change content in real-time, better meeting your specific, dynamic business needs.

Additionally, switch overload conditions can impact the availability of switch-based CDRs because call completion takes priority over CDR generation. GeoProbe provides a dedicated platform, ensuring uninterrupted CDR delivery. Furthermore, because the CDR is based on the signaling in your network, the Programmable Content CDR is vendor-independent and can produce the same format of output, regardless of underlying switch types. GeoProbe produces a single CDR format for your entire network, thus facilitating integration into post-processing systems. Programmable Content CDRs can be generated at various or even multiple instances during the call, compared to switch-based CDRs that can only generate CDRs at call release.

SOFTSWITCHING NETWORKS | INTERCONNECT MANAGEMENT | QUALITY OF SERVICE | CUSTOMER CARE | SPECIAL STUDIES | NETWORK SECURITY | DIAGNOSTICS | WE SIMPLIFY NETWORKS℠

Inet®

DALLAS   FRANKFURT   LONDON   PARIS   SAO PAULO   SINGAPORE   TOKYO   SYDNEY

An Integrated Solution

For efficiency, every Programmable Content CDR consists of a fixed and variable section. The fixed section contains some management information and content that is used by the majority of users (such as called and calling numbers). The variable section contains the information that will meet each user's unique requirements. Not only can a user program the content required in the CDR, but they can also establish the diverse criteria for which they would like to generate a CDR.
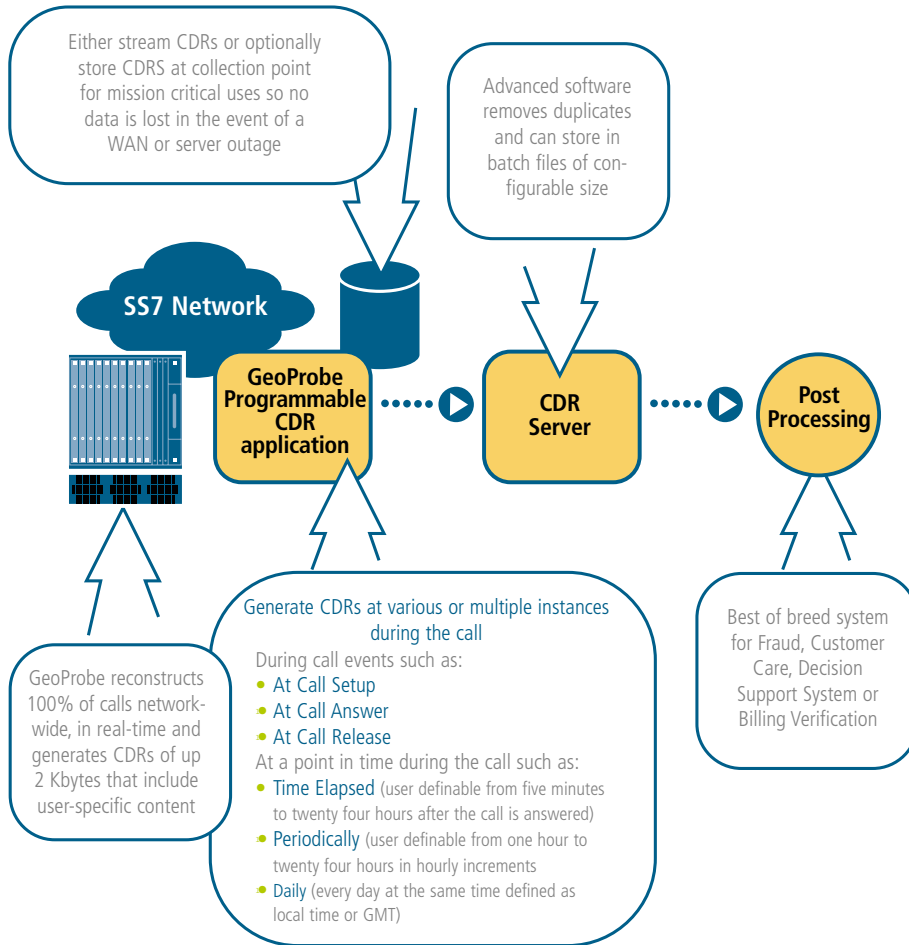
These include:

- *Start and stop time*

- *Filter by network element (originating, terminating or relationship)*

- *Subscriber digit number, including the use of wildcards*

- *Timeout conditions*

- *User-definable failed call criteria*

- *Release reasons*

For mission-critical applications, Inet's solution can be configured to store CDRs at the point of collection, ensuring that no CDRs are lost during possible WAN or server outages.

About Inet

Founded in 1989, Inet Technologies is a global provider of communications software solutions that enable carriers to more effectively design, deploy, diagnose, monitor and manage communications networks that carry signaling information used to control and deliver communications sessions and services. Inet's solutions also address the fundamental business needs of communications carriers, such as improved billing, targeted sales and marketing, fraud prevention and enhanced call routing. Inet is headquartered in Richardson, Texas and is an ISO 9001 registered company. For more information, visit Inet on the Internet at www.inet.com.

Either stream CDRs or optionally store CDRS at collection point for mission critical uses so no data is lost in the event of a WAN or server outage

Advanced software removes duplicates and can store in batch files of configurable size

SS7 Network

GeoProbe Programmable CDR application

CDR Server

Post Processing

GeoProbe reconstructs 100% of calls network-wide, in real-time and generates CDRs of up 2 Kbytes that include user-specific content

Generate CDRs at various or multiple instances during the call

During call events such as:
- At Call Setup
- At Call Answer
- At Call Release

At a point in time during the call such as:
- Time Elapsed (user definable from five minutes to twenty four hours after the call is answered)
- Periodically (user definable from one hour to twenty four hours in hourly increments
- Daily (every day at the same time defined as local time or GMT)

Best of breed system for Fraud, Customer Care, Decision Support System or Billing Verification

An ISO 9001 Registered Company

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