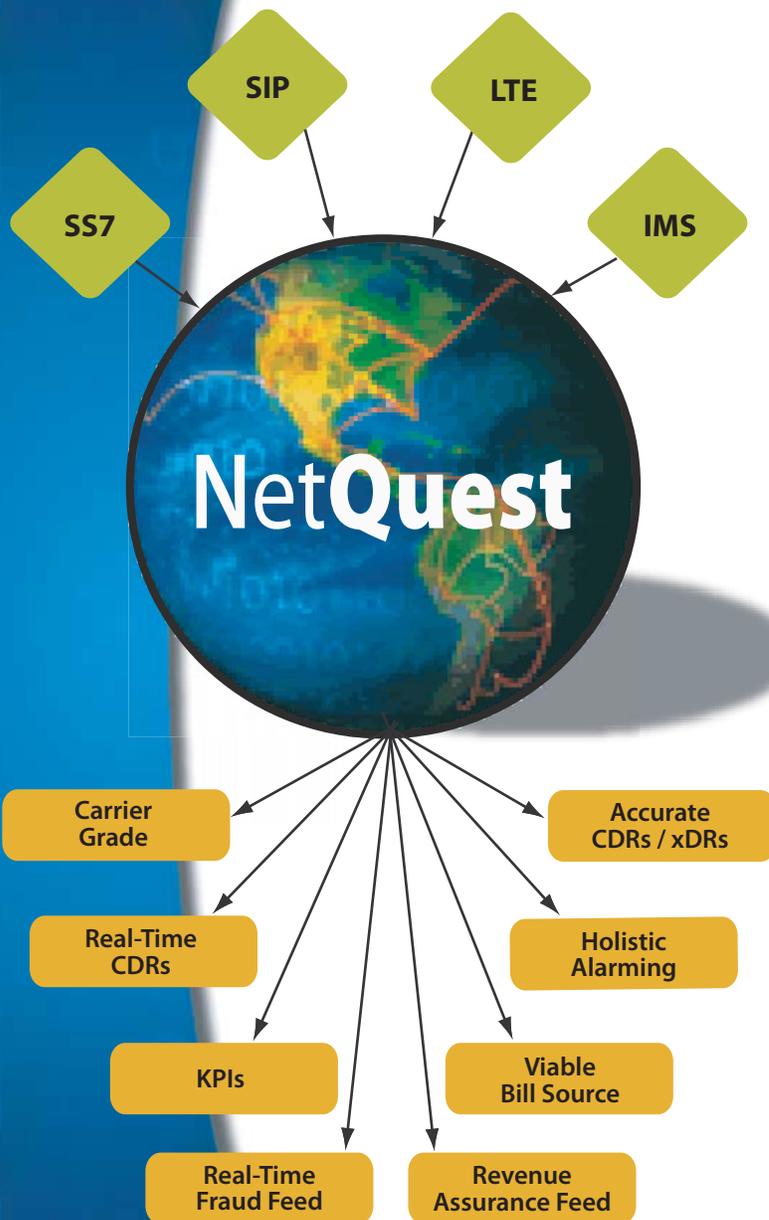


NetAnalyzer (CDR/xDR)

Generates Super Accurate CDRs/xDRs directly from the signaling network to 3rd Party Applications or Carrier Back Office Applications for Converged Wireless/Wireline and NGN Networks



The NetQuest Advantage

As carriers manage and deploy LTE/IMS/SS7/C7, converged and next generation network topologies, the requirement for a single source of super accurate CDRs/xDRs to feed a multiplicity of applications becomes a requirement and a prerequisite as carriers focus on increasing profitability and quality of service/experience from the switching/signaling infrastructure while trying to lower operating costs. Tekno Telecom's CDR/xDR Generator, NetAnalyzer, is uniquely designed to fulfill those objectives.

Attaining real-time and exceptionally accurate call, session, and transaction detail records directly from the signaling network provides access to an incredible amount of data in a correlated fashion is the achieved objective and primary benefit of the NetAnalyzer CDR/xDR Generator.

NetAnalyzer provides "Applications" access to all parameters in the **Diameter/IMS/SIP/SS7** (GSM, IS-41, ISUP, and IN signaling stream) with powerful filtering and formatting capabilities to provide the "Application" exactly what it requires with exactly the right kind of data in exactly the right kind of format with the right level of accuracy!

The fundamental key is NetAnalyzer's design architecture patented focus on the accuracy of CDRs that NetAnalyzer generates. Proven in hundreds of revenue assurance and inter-carrier billing disputes the NetAnalyzer is more accurate than any switch or network element! Combined with NetAnalyzer's series of holistic alarming, multiple checks of data, numerous accuracy reports to provide verification of accuracy, visual representation of the flow of processing of the data, and the ideal scenario of a self-contained patented real-time CDR Generator, NetAnalyzer stands above all other sources of data in terms of accuracy, variety and reliability of data!

Dramatic Return On Investment

Carrier's internally develop or purchase "Applications" from an array of talented "application" development companies for billing, revenue assurance, fraud management, business intelligence/analytics, least cost routing, missed call alert, roamer analysis, inter-carrier billing, content billing, QoE/QoS Systems, KPI Analytics, etc. The "Applications" can provide carriers an amazing return on investment if they can easily, quickly and cost effectively attain super accurate CDRs/xDRs.

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Utilizing the NetAnalyzer as a front-end source for CDR/xDR generation allows these applications to ultimately provide carriers the ability to achieve the promised "ROI" with minimal investment of time, personnel, infrastructure and money. Revenue realization, increased customer satisfaction and business intelligence positions carriers to realize profits that could not be achieved otherwise.

Key Benefits

- Super Accurate CDRs/TDRs/SDRs/xDRs
- Patented Solution
- CDR Generation extracted from Diameter, SS7/C7, SIP, and IP in a Single Platform
 - SS7/C7: GSM, ISUP, TCAP, IS-41, AIN, INAP, WIN, CAMEL, Etc.
 - IP: Diameter: SIP, Sigtran, H.248, IMS, etc.
- Available to generate user-defined, EMI, AMA CDR/xDR formats
 - ASCII, Binary, CSV, etc.
- Viable Billing Source
- Accurate Inter-Carrier Billing/Validation
- Real-Time Fraud Feed
- Missed Call Alert Feed
- Business Intelligence/Analytics CDR/xDR Feed
- Revenue Assurance Feed
- Real-Time Least Cost Routing Feed
- Quality of Experience/Quality of Service Feed
- KPI Analytics
- Dynamically Scalable
- Holistic Internal Alarming
- Carrier Grade Platform
- Billing data event capture for next-generation (NGN) application services

The Problem

Presently there is not a cohesive unified approach to CDR/xDR generation. Carriers are forced to attain CDRs/xDRs from whatever source they can retrieve this valuable data. In most

cases, they acquire this information from switches or other network elements. The problem is that these are not the primary functions of these switches/elements and typically vie for processing power with their primary functions (switching, border controlling, data basing, etc.), require human interaction (which in many cases invokes even more inaccuracies), typically are inflexible in their CDR/xDR output formats (many are proprietary or change significantly from one vendor to the next) requiring complex and expensive mediation, and most importantly are not super-accurate, hence any carrier's current revenue assurance effort will produce, at best, sub-optimal solutions. The best and highest "Return On Investment Applications" are then degraded with the "garbage in, garbage out" factor making these Applications of limited viability for achieving the desired goal.

The Solution

NetAnalyzer addresses these issues by generating CDRs/xDRs directly from the cleanest and most accurate source of data: the signaling network (Diameter/SS7/SIP/IMS). Completely independent and non-reliant on switches and other network elements, the NetAnalyzer non-intrusively monitors, collects and correlates the MSUs and packets that are used for the unified communications between switches and network elements to set up and tear down calls, transactions and sessions.

CDR/xDR Generation is the primary function of the NetAnalyzer and is not an adjunct function like other network elements, databases and switches. The NetAnalyzer generates CDRs/xDRs for all successful and failed calls, transactions, and sessions including long or short durations. The NetAnalyzer can accomplish these mission-critical tasks because it has a built-in filtering and formatting (mediating) capability that is unparalleled. NetAnalyzer is amazingly scalable allowing this device to be used in an overlay environment where other network monitoring systems already exist and are inexpensively deployed to provide the desired "Application" to achieve the desired results. Most importantly, NetAnalyzer CDR/xDR Generators are exceptionally accurate and this is the key to the realization of the "Applications" promise for increased revenues and profits from next-generation networks.

About **TEKNO TELECOM, L.L.C.**

Tekno Telecom LLC develops and manufactures Converged Network Monitoring Applications and CDR/xDR Generation Solutions for wireless and next-generation wireline carriers on a worldwide basis. Over 45 years of experience has produced patented industry leading, highly reliable systems that meet carriers' growing needs for profit enhancing knowledge regarding their networks.

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