

# DataCast

## Mediation Platform



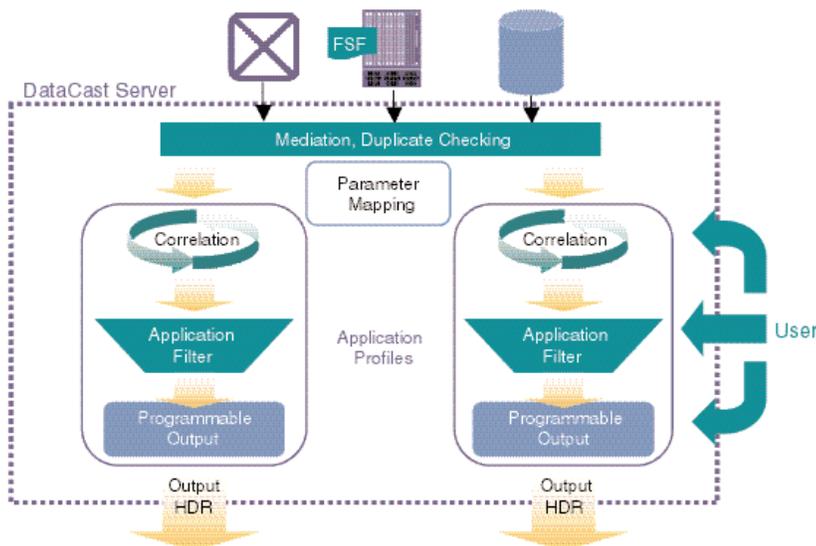
While the best source for business intelligence lies in the signaling network, getting the data out and transforming it into useful information is no easy task. Traditionally deployed to address billing applications, legacy "mediation" platforms are based on out-dated technologies and are easily burdened by excessive, non-billing information requests.

Additional applications magnify the problem with costly dedicated server configurations. Often deployed one-to-one, mirrored installations can create data overlap and duplicate processing. The end result is a potentially intensive manual assembly of information for any ad-hoc analysis. Tektronix' DataCast Mediation Platform meets these unique challenges head-on, efficiently turning fixed, mobile and converged networks into an information gold mine on which business managers can depend.

### Signaling—The Common Denominator for Data Collection

- With DataCast, disparate data record fields are intelligently combined to raise the level of readily available information for multiple processes and uses within an operator's business.
- A vendor-independent source of information on actual network and customer traffic performance, DataCast is ideal for support of existing OSS applications.

DataCast provides flexible content feeds to Unified Assurance applications with streamlined, efficient xDR processing features.



Leveraging signaling as the common denominator, DataCast provides for the most efficient and flexible data collection and distribution.

Datacast provides a selected variety of correlation capabilities for the following.

- SS7
- GSM
- GPRS
- UMTS
- UTRAN
- VoIP

DataCast supports streamed output: for near real-time applications as well as FTP output: for push/pull processes.

## Minimize LAN/WAN Capacity Requirements with Efficient xDR Processing Features

### Duplicate Checking and Error Discard

- DataCast automatically detects and removes duplicate and erroneous input records based on matching criteria within a specified time frame.

*\*Duplicate checking available for CDRs and TDRs only.*

### Application Filtering

- Application filtering provides an additional level of efficiency by screening incoming xDRs against user-specified parameters applicable to downstream applications.

## HDR Outputs Offer Customized Content Delivery In Sync with Individual Application Requirements

### Programmable HDR Output

- With programmable HDR output, you can include or exclude specific content from incoming xDRs. HDR Output configuration supports both fixed and variable content for CDRs, ADRs, TDRs and PDRs.

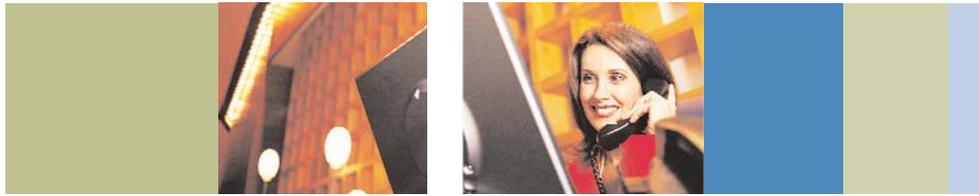
### Record Correlation\* and Mapping

- With DataCast, relevant information may be pulled from multiple record types to create comprehensive hybrid detail records (HDRs).
- Advanced number mapping capabilities facilitate the correlation\* process through the automatic association of IMSIs, TMSIs, MSISDNs and IMEIs. The mapping of Calling and Called Party Numbers to specific high value corporate accounts is also supported.

*\*When using DataCast to feed non-UA applications, Tektronix will provide assistance to optimize correlation capabilities specific to the network. Contact your sales representative for initial correlation and ongoing professional services pricing.*

### Unicast and Multicast Options

- DataCast's unicast and multicast options streamline the processing of input xDR streams-processing occurs once-resulting HDR output is made available for multiple back-end applications.



## Reliability Features Ensure Protection of Mission-critical, Revenue-affecting Applications

### High Availability Servers\*

- With either geographically diverse servers or co-located servers using Veritas or Sun Microsystems solutions, your DataCast system is protected with a standby server that can accept xDR traffic when a primary DataCast server experiences technical problems.
- Alternatively, Veritas Cluster Server or Sun software may be used to automate switch over capabilities for co-located servers.

*\*Contact your Veritas or Sun representative for more information.*

### HDR Store and Retrieve

- In the event that the communication between the DataCast server and any application is lost or interrupted, the HDR store and retrieve feature activates to provide temporary storage for collecting and recovering HDRs.

### Real-Time Alarm Capabilities

- All DataCast alarms may be displayed in real time via the GeoProbe® system. Identified by severity, alarms will activate and clear based on user-defined thresholds.

### Key Benefits

- Enable unique services and management capabilities that require an intelligent combination of disconnected data sources in your network.
- Reduce operational costs by minimizing the amount of data traveling over your LAN/WAN between your network elements and multiple applications.
- Expand the output streams from DataCast to additional applications at any time.
- Extend the life of existing billing mediation systems that can be off-loaded and returned to their original purpose.
- Minimize integration and development costs with flexible HDRs.
- Easily integrate multiple applications including open interface applications and Tektronix' Unified Assurance applications.
- Feed data warehouses or data marts for ad-hoc analysis.
- Generate HDRs that match the needs of each application with configurable filtering, correlation and parameter mapping.

## Available xDR Filters

- IMSI
- MSISDN
- IMEI
- Application ID
- OPC values (or range)
- DPC values (or range)
- CIC range
- Calling Party Number(s)
- Calling Party NOA(s)
- Called Party Number(s)
- Called Party NOA(s)
- Calling Party Category (CgPC)
- Condition Indicator
- DR-INTERFACE-TYPE
- Equipment Id
- Processor
- Application Protocol
- Interface Id
- Source Server IP Address
- Destination Client IP Address
- Call Type
- Response Code Cause GI
- Status Bits
- Timeout Bits
- Condition Indicator
- Mobile Station Ip
- APN
- Subscriber Type
- Subscriber Group
- GB Interface Id
- GB LAC
- GB RAC
- GB Current Cell Id
- GB MCC
- GB MNC
- GB BSC Name
- GB SGSN Name
- GTP Interface Id
- GTP Monitored IP
- GTP Remote IP
- GTP SGSN Name
- GTP GGSN Name
- Global Cell ID=
- GB MCC + GB MNC + GB LAC + GB Cell Id (or)
- lu MCC + lu MNC + lu LAC + lu SAC
- IP Address Pairs
- lu Interface Id
- lu LAC
- lu RAC
- lu SAC
- lu RNC Name
- lu SGSN Name
- lu MCC
- lu MNC

## About Tektronix:

Tektronix has more than 60 years of experience in providing network operators and equipment manufacturers a comprehensive and unparalleled suite of network diagnostics and management solutions for fixed, mobile, IP and converged multi-service networks.

These solutions support such architectures and applications as fixed mobile convergence, IMS, broadband wireless access, WiMAX, VoIP and triple play, including IPTV.

## For Further Information:

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

Please visit [www.tektronix.com/communications](http://www.tektronix.com/communications)

## Contact Tektronix:

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