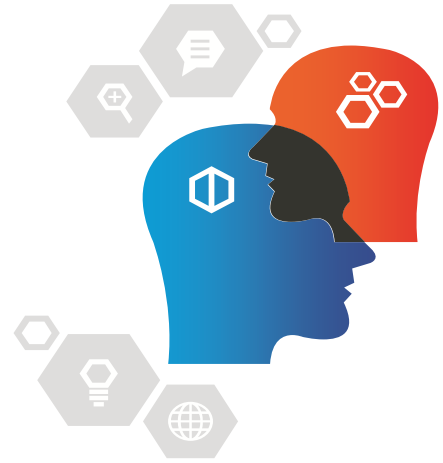# Gamma Analytics De-serializer

Big Data to Big Results

This is the era of big data where the cost of processing power is at the lowest than ever before. CSPs have expertise in enrichment, loading and analysis but lack the technology to de-seralize efficiently. Gamma Analytics is here to solve that problem for the CSPs by providing their best in the industry de-serializer that converts raw files to human readable format. Gamma Analytics provides flexible options: CSPs can either have the entire ETL performed by Gamma Analytics or can use existing tools/technology to collect the raw files from the source, enrich de-serialized files from Gamma Analytics and load the enriched files to Database for report generation/ analysis

Gamma Analytics' De-serializer has the capability to convert raw files to CSV in real-time

File formats that are typically de-serialized are ASN.1, Binary, ASCII, XML, HTML, DB Dumps, TAP3, Text, PDF, AMA, CSV, MIME, JSON

Typical data feeds include B/OSS Systems such as Roaming, GSN, CMTS, IPDR, CRM, MSC, IN, DOCSIS 1.X/2.0, Rated CDRs, SMSC, MMSC…

FEATURES
- Pre-built connectors to telecom BSS OSS
- Parsers and transformers for telecom data formats
- Fast file/data sniffing – Event based, periodic or fetch as scheduled
- Duplicate check on files level as well as CDR level
- Handles multi-transfer protocols
- Inbuilt compression and decompression handling
- High volume and high velocity

TYPE OF FEED SOURCE
- AWS, Google
- SFTP/SMTP/SNMP
- H LR, MSC, Mediation
- TAP, GSN, CGW, IN, VAS
- Billing, CRM, Provisioning, DW

AUDIT REPORTS
- File sequence check
- Duplicate check
- Backup
- Logs, Audit trail

BENEFITS
- Best in the industry de-serializer
- Real-time
- Configurable
- Low setup and operational cost
- Data backup and storage management
- Ability to leverage the existing tools and technology of the CSP

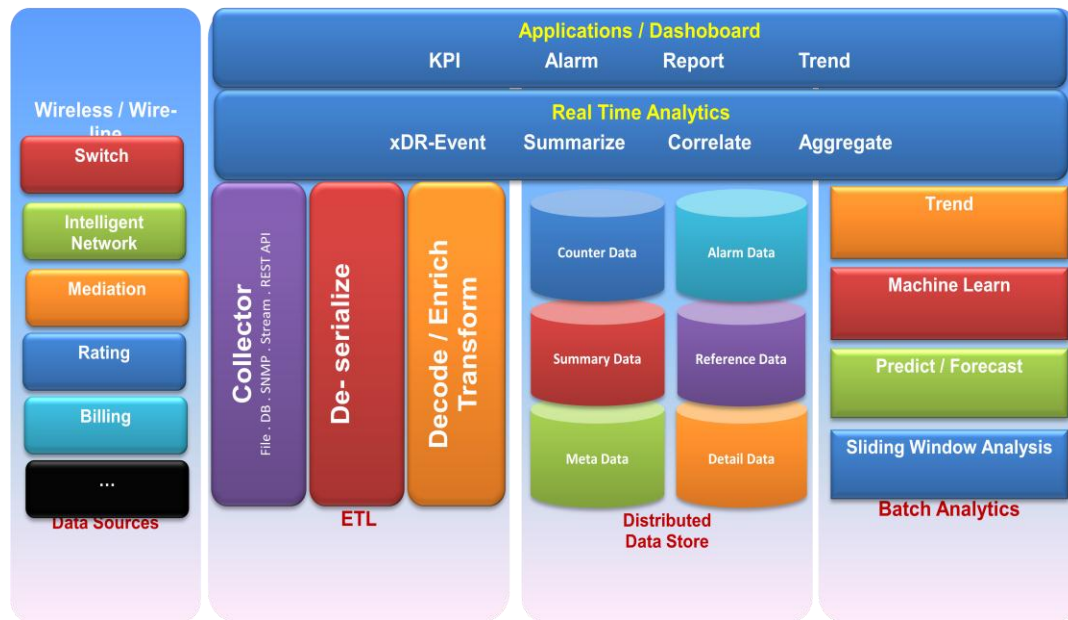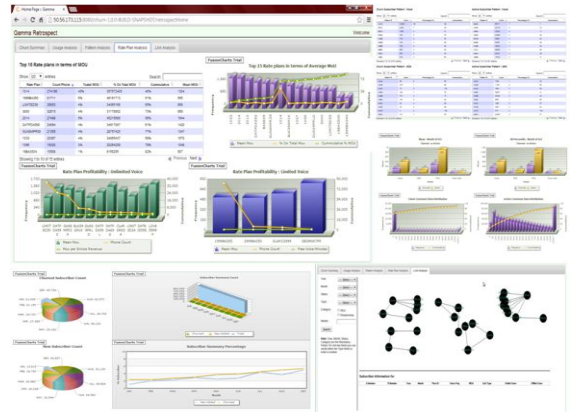| DOMAIN SPECIFIC	DATA ACCESS	DATA ANALYSIS	DATA SCIENCE	ANALYSES AS SERVICE

GAMMA

WWW.GAMMANALYTICS.COM

About – Gamma Analytics

THE FIRST BIG DATA ANALYTICAL PROVIDER THAT INCLUDES DOMAIN INTELLIGENCE TO ENABLE, STREAMLINE AND MANAGE TELECOM DATA PROCESSING, DATA SCIENCE AND ANALYSIS

- Designed and optimized for communications providers
- Solution includes pre defined analytics for telecom operators
- System set up and go-live in days
- Product as a service model to eliminate HW / SW expenses and minimize HR
- Currently deployed in the Americas and processing terabytes of data daily
- Advanced technology to support real time analyses
- Advanced visualization and dashboard that can also be viewed from Android and iOS
- First and only telecom solution to fully incorporate Data Science Services
- Cost model to allow immediate ROI

Diagram

Data Sources — Wireless / Wire-line: Switch, Intelligent Network, Mediation, Rating, Billing, …

ETL — Collector (File . DB . SNMP . Stream . REST API), De-serialize, Decode / Enrich Transform

Applications / Dashboard — KPI, Alarm, Report, Trend

Real Time Analytics — xDR-Event, Summarize, Correlate, Aggregate

Distributed Data Store — Counter Data, Alarm Data, Summary Data, Reference Data, Meta Data, Detail Data

Batch Analytics — Trend, Machine Learn, Predict / Forecast, Sliding Window Analysis

PRODUCT OFFERINGS

- ETL Connector
- De-serializer
- Enrichment Plugin
- Loader
- Data Warehouse Builder
- Data Analyzer
- Dashboard
- Predesigned reports for IT operations
- Standard reports for telecom operations
- Churn Management
- Mobile Money

WHY GAMMA ANALYTICS

Typically CSP look to the provider for technology expertise and the provider looks to the CSP for domain expertise. This often results in expectations and results mismatch.

Gamma Analytics bundles Data Science services as a component which means the apps have pre-defined functionality that includes Data Science elements as well as Data Scientist consultants and consulting as part of the solution set

This becomes an important differentiator as a standard analytical set includes

- Structured and Unstructured data
- Streaming and batch records
- Internal and external sources
- Private and public systems

Full branding and localization support processes to reduce costly errors and potential revenue loss.

ADVANCED TECHNOLOGY SUPPORT   ANALYTICS   DATA SCIENCE AS A SERVICE

GAMMA / TELECOM BIG DATA ANALYTICS