



PRODUCT DATA SHEET

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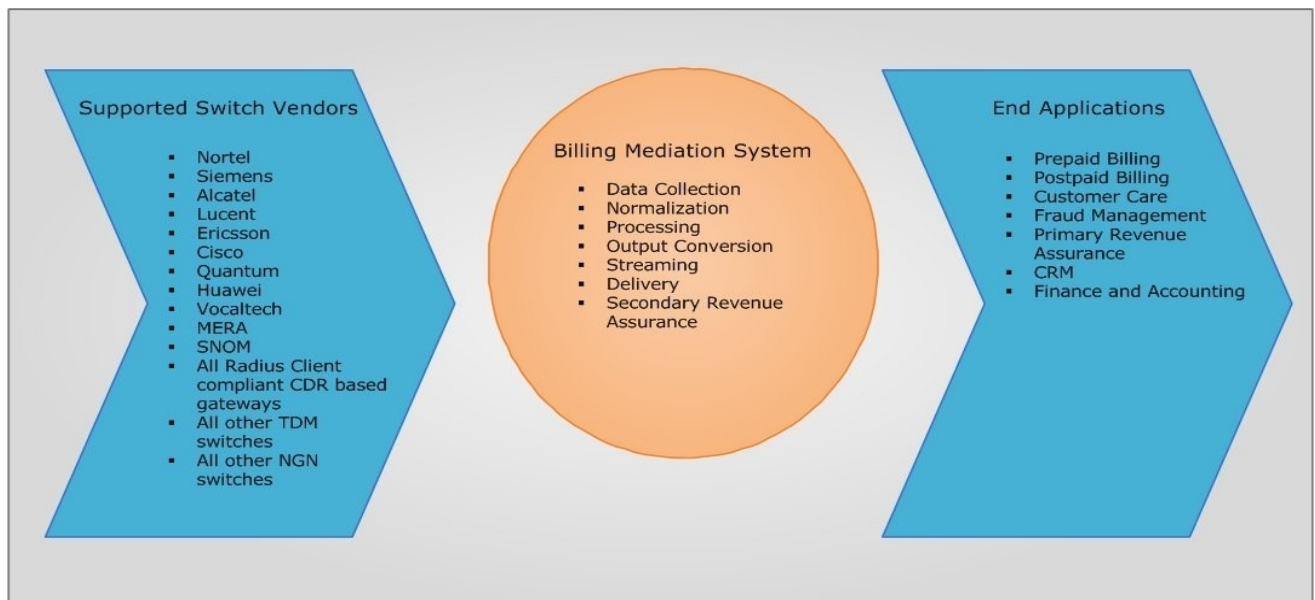
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1 AdvOSS Mediation

Mediation is process that transforms the Call Detail Records (CDRs) or Usages Details Records (UDRs) from one format to other. Mediation has always been a very critical process in the telecomm service providers' world where the records are generated by the system from one vendor and are consumed by the system from other. The accuracy of the CDRs transformation along with flexibility is the key requirements for the service providers for

- Revenue Assurance
- Fraud Management
- Prepaid and Postpaid Billing
- Network Traffic Analysis
- Business Reporting for Decision Making
- Reconciliation of Records

AdvOSS Mediation is comprehensive solution for CDR/UDRs Mediation and is widely deployed in telecom carriers' ranging from small-grade carriers to national-grade carriers across the globe. It supports mediation and CDR formats of all leading switch vendors.



2 Modules

The AdvOSS Mediation is composed of modules& features listed below:

2.1 Data Collection

- FTP Application
- Radius Server
- Diameter Server

2.2 Format Conversion

- Text Files
- Supported CDR formats for variety of industry leading Gateways & Switches including
 - Nortel
 - Siemens
 - Huawei
 - Clarent
 - Nextone
 - Cisco
 - MERA
 - Lucent
 - Ericsson
 - Avaya
 - Vocaltech
 - SNOM
 - Sonus
 - Teles
 - Other NGN Switches
 - Customized Parser (For generic customization/parsing of text based CDRs)

2.3 CDR Correlation & Merging

- Based on different Charging Identifiers (ICIDs)
- Rules Based

2.4 Filtration Rules

- Garbage CDRs removal
- Out of bound values
- Incomplete records

2.5 Auto Correction Rules

- Date Time format conversion
- Time zone conversion
- Mappings from one list to other

2.6 Number Rewriting

- Dialed Prefixes
- International Prefixes
- Premium Numbers
- On-Net calls

2.7 Per Source Rules

- Source Identifiers
- Filtration, Correction and Rewriting rules

2.8 Dispatching mechanisms

Text Files based

- CSV
- XML
- JSON

Web Services

- http
- https

Multiple database system calls

- Oracle
- MySQL
- MS-SQL Server

Database Streams

- Oracle Streams

2.9 Revenue Assurance

- Missing CDR detection

2.9.1 Reconciliation

- Missing on origin
- Missing on destination
- Different Duration
- Different Time of Call
- Different QoS parameters

2.9.2 Alarms Generation

- Source lost
- Destination Lost
- Abnormal traffic pattern

3 Integration Points

AdvOSS Mediation offers points of integration with the following systems:

3.1 Media Gateways/Softswitches:

For CDR collection AdvOSS Mediation is integrated with CDR sources such as Media Gateways & Softswitches etc.

3.2 Billing Systems:

AdvOSS Mediation interface with the Billing Systems. After applying mediation rules and processing of CDRs, AdvOSS Mediation parses the CDR files into the Billing System.

4 Key Benefits

AdvOSS Mediation offers the following key benefits to the CSPs, in addition to its feature set:

4.1 Scalability:

The System can scale linearly offering substantial advantages in terms of cost reduction and ease of scalability. Scalability is achieved using various techniques like distributed database design.

4.2 Reliability:

The system provides high reliability and ensure mechanism to avoid system downtime though fully redundant DB architecture

4.3 Robustness:

The system is very robust and keeps performing in the fact of errors.

4.4 Disaster Recovery:

The System can be deployed in two geographically distant data centers, for disaster recovery reasons. AdvOSS Database solutions provide real-time DB replication to remote slaves. This gives the remote location an almost real-time image of the live database and the system can fall back to remote location in a disaster situation.

4.5 Flexibility:

The system is service agnostic and has the architectural provision to support any business model. This allows for easy customizability to support specific requirements of a CSP.

4.6 Resilience:

The system works at high loads within its thresholds and gracefully keeps working by handling the situations even beyond the guaranteed thresholds e.g. by rejecting requests.

4.7 Speed:

The system guarantees high speed of operations and latency times associated with the operation.