



CASE STUDY

Global Telecom and ISP

Zilont Analytic Archive (AA) ingests and stores massive volumes of files, messages, transactions, and other data. The customer T365 bases their business on AA.

The Challenge

T365 receives all SMS, MMS and CDRs from the originating carrier network, loads them into a database to calculate billing and cross-charges for all messages. Fast growth of data and new data types (i.e. mobile banking) has made it impossible to load and process all data using conventional methods during legacy time windows.

AA loads 12 billion SMS & 4 billion CDR per hour for T365, which is 80% of the world's SMS and voice cross-charging

Additional challenges have forced T365 to adopt a system that scaled to current and future data volumes. These include long-running disputes between carriers over cross-charges and government regulations requiring telecoms to store and make data (SMS, CDR, MMS) searchable, for long periods of time (3-7 years). These examples also demonstrate the need for a solution that is also highly flexible with the ability to add new data types, perform new tasks, and extend to new business requirements, such as storing and searching of SMS disputes between carriers over cross-charges.

The Solution

The Analytic Archive can load and index SMS/MMS/CDRs at extreme speeds of 12 billion SMS per day (all of US SMS) using a single node, while multiple nodes can process all of the world's SMS/MMS/CDR. AA can also connect with enterprise systems using SQL and ACID rules. AA enables +99.99% uptime by replicating data to multiple disaster recovery sites. The billing application was developed in parallel for US and European markets, and a certified AA system integrator defined the performance, availability profiles and helped deploy and customize the AA for the customer.

The Advantages

- T365 meets SMS/MMS/packet data growth, meets billing requirements and meets future needs and requirements
- AA's loading velocity is such that a full month of data could be ingested in one day, which could not be done before
- AA meets government regulations that mandate telecoms to store CDR, SMS, MMS and emails.
- Full support for collaboration between multiple teams of government investigators working on the same project

CUSTOMER PROFILE

INDUSTRY

Telecom Operator and ISP

SIZE

10,000

HEADQUARTERS

T365 in Dublin, CA, US

BUSINESS REQUIREMENTS

Billing system based on CDR

SOLUTION SUMMARY

SOLUTIONS

- AA High-Speed Loader
- AA Analytic Repository
- AA Archive Repository
- AA Fraud & Compliance
- AA Discovery

DATA TYPES

SMS, MMS, etc.

KEY BENEFITS

- T365 loads 520 million SMS per hour, 4 billion CDR per hour
- Billing analysis for the US and EU performed in minutes
- Near real-time indexing, searching, collaboration
- Primary and two disaster recovery sites are kept in sync using AA Multi-Site Replicator