Airtel Intellza Regulatory Compliance Solution

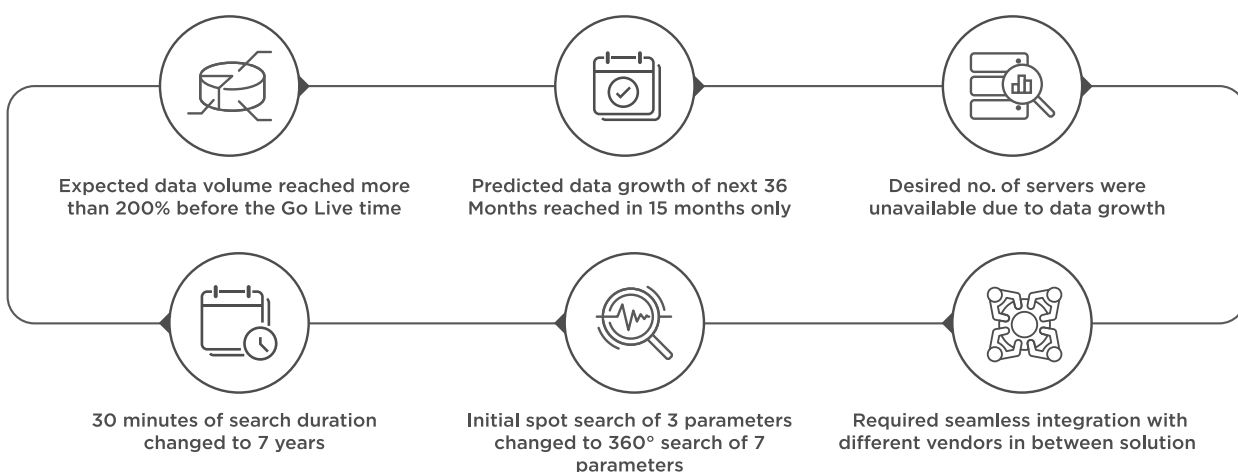A STL White MIRROR story

PROJECT BACKGROUND

Bharti Airtel Limited is 2nd largest global mobile service providers with with 411.42 million subscribers and operations in 18 countries across Asia and Africa. The company's product offerings include 2G, 3G and 4G LTE, 4G+, wireless services, mobile commerce, fixed line services, high speed DSL broadband, IPTV, DTH, enterprise services including national & international long distance services to carriers.

This case study depicts how STL solution helped Airtel in order to adhere to regulatory compliance which includes storing subscriber details, securing data in a specific format, extracting meaningful insights and retaining data quickly to LI agencies when required. Failing to do so will Airtel will be forbidden to deliver any services like, expansion, migration, new technology adoption etc.

CSPs Requirements

- System Reliability to handle humongous Data Volume
- Collect Data from 7 sites including Delhi, Mumbai, Chennai, Hyderabad, Kolkata, Bengaluru and Mohali
- Integration of Data using Parsing & Correlation of User & NAT Records
- Cost-effective Storage due to Enormous Data Growth
- Quickly Search Records for Minimum Duration of 30 minutes
- Secured Data Storage for 10+ Years

CHALLENGES THAT WE FACED (AND MITIGATED)

Expected data volume reached more than 200% before the Go Live time

Predicted data growth of next 36 Months reached in 15 months only

Desired no. of servers were unavailable due to data growth

30 minutes of search duration changed to 7 years

Initial spot search of 3 parameters changed to 360° search of 7 parameters

Required seamless integration with different vendors in between solution

STL INTELLZA - REGULATORY COMPLIANCE SOLUTION

Intellza is a next-gen solution trusted by tier 1 CSPs, launched in 2012 the solution helps CSPs meet regulatory compliance mandated by government. It is a heavy data management solution having a market share of 66% in India catering data services of 2G, 3G, 4G and LTE. Intellza – Regulatory Compliance Suite is a cutting-edge solution offering:

- Interception, monitoring, storage and analyzes subscriber data through Mobile, Fixed and ISP Networks
- It helps find meaningful insights from digital footprints to stop criminal activities
- It searches IP & Usage records based on Date Time Stamp, Private IP & Source Port and fulfill LEA's requests by submitting suspect's communication details

YEAR	2012	2020
EPS	300K	24,165k
Search Duration	30 Min	1 Min to 1 Year
Total Storage	700TB	8.5 PB
Monthly Data Management	3TB	705TB
Search Parameters	MSISDN, Public IP, Private IP	MSISDN, Public IP, Private IP, Cell ID, IMEI, IMSI, Destination IP
Long Search More than 1 Days	0	5 Lakh+

IMPACT DELIVERED

LI Queries- scans
20
Trillion
Records in an hour

Hyper Scalable with 3.5x server growth
235x
Data Growth
Handled

Cost Effective storage
93%
Compression Ratio

CDR Volume processed in a day
1200+
Billion

LEA's Requests fulfilled
5 lakh+
of 1 day+ duration search

Data Storage since deployment
8.5
PB

No Network outage
99.999%
System online

P1s Raised
0
Since deployment