Sterlite Tech
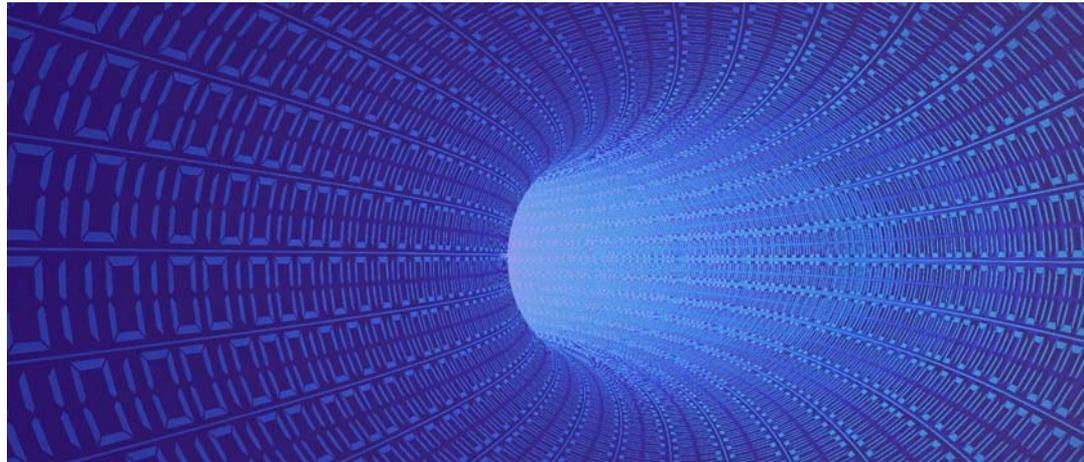
Charging gateway & reporting tool for data networks sign off

At a time when operators are plagued by spectrum costs that can run into millions of dollars, Carrier Wi -Fi presents an opportunity to augment cellular network capacity. It also helps reduce congestion on cellular networks.

THE COMPANY

One of the leading pan-India integrated GSM operators offering 2G, 3G & 4G services, and has its own NLD and ILD operations, and ISP license.

The operator's robust pan-India coverage is built on a network of over 100,000 cell sites, spread across over 55,000 towns in India.

THE CHALLENGES

The cellular space is constantly growing and an evolving business requires high-end IT system to support the new data plans and services making it one of the biggest challenges of this sector.

Also, there is the challenge of effectively handling the colossal volume of data in terms of billions of call and event records generated each day by their networks.

The operator was looking for an integrated Charging Gateway Function (CGF)/Mediation System which is flexible, modular, and has a plug and play architecture that caters to various network elements without much customization. They needed to implement a CGF which can protect investment in their current IT system in the network.

THE SOLUTION

Sterlite Tech, a global technology leader in designing, building and managing smarter digital infrastructure, has end-to-end solutions to meet the challenges of telecom operators. In this case, Sterlite Tech put it place some of its high-end solutions to cater to the obstacles faced by the operator.

› Sterlite Tech CGF retrieved RAWCDRs from GGSN and SGSN over GTP (GTP Prime Protocol). It processed those RAWCDRs and provided the CDRs over FTP in a format accepted by the existing Mediation System.

› Sterlite Tech CGF provided the flexibility to write business rules. Business rules were configured based on the combination of various parameters available in the s-CDR/g-CDR. E.g. IMSI series, MS-ISDN series, SGSN identifier, GGSN identifier, APN, charging characteristics, PLMN, Home-Roam based on the business requirement.

› The solution also supported both ICD & ASN.1 output CDR formats with the help of the rules configured for the output CDRs based on the parameters present the in s-CDR/g-CDR.

› The solution processed 350 Mn CDRs per day to begin with, stored RAW data for 7 days and processed CDR data for 30 days. SAN Storage was proposed accordingly.

› Reporting tool and Manage Engine were responsible to generate MIS and Performance reports respectively for the operator's CGF solution.

STCC19/CS-CPF/2101