

BSNL- FMCC Project, India

BSNL is one of the leading telecom operators in India, operating in whole of the country in different zones and providing a comprehensive range of telecom services like PSTN, CDMA mobile, GSM mobile, broadband, carrier service, MPLS-VPN, VSAT, VoIP and IN services and processing 4 billion CDRs per month.

The customer subscriber base of BSNL is over 36 million and the UDRs (Usage Data Records) generated are over 105 million and expected to grow to more than 215 million UDRs in next 3 years.

Xalted's relationship with BSNL spans over four years and commenced with the successful implementation of the Interconnect Operator Billing and Accounting System (IOBAS). Xalted was awarded a contract for implementing all network components for a fraud management control center with Revenue Assurance functionality in the solution. The system collects records from multiple network elements, and handles revenue leakage issues, resulting from fraudulent activity as well as business process inefficiencies.

Xalted offered a centralized solution, on an Oracle database, covering SS7 signal tapping to cover real time frauds and leakages. The system Integrates with 77 MSCs, 4 billing systems, 8 IN systems, multiple CRMs supplied by many vendors. A unique feature of the Xalted fraud management implementation is the deployment of high-impedance digital cross connects and protocol analyzers that tap SS7 signals and generate SS7 CDRs in real-time for all STD, ISD and roaming traffic throughout major BSNL gateways across India, thereby raising fraud alerts instantly. It monitors various data feed by collecting CDRs of MSC, SMSC, MMSC, GPRS, TAP-IN/TAP-OUT, IN, VoMS as well as the customer profiles from the billing data.

The key modules of xTRA provided to BSNL include the following:

- Data collection, loading and management
- Problem identification
- Problem resolution strategies
- Poller
- Parser

xTRA provided the following major benefits to BSNL:

- Identification of source of revenue leakages including both internal and external sources
- Removing further leakage of revenue by taking appropriate measures depending upon source of leakage.

The system has been hosted on Sun V1280 servers, SS7 Protocol Analyzers using

Oracle 8i database. It is being used for GSM services of BSNL serving over 10 million subscribers of BSNL.

The solution is running successfully for over 1 years now.

Reference – Mr. Ravishankar, DGM, BSNL

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Note: Xalted need to inform the above officer, prior to contacting them directly.