

BSNL, FMCC Project, India

BSNL is one of the leading telecom operators, operating across all the telecom circles in India. The service offering of BSNL consist of comprehensive range of telecom services like PSTN, CDMA mobile, GSM mobile, Broadband, carrier service, MPLS-VPN, VSAT, VoIP and IN services. 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.

To prevent the leakages, BSNL in a critical strategy deployment initiative wanted to install a system that would detect frauds in real-time and non-real-time and plug revenue leaks to increase profit margins and help sustain competition from other operators.

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 deployed a fraud management solution for BSNL, which would detect real and non-real time frauds on BSNL's GSM- CellOne subscriber network across India.

Xalted delivered the solution on an Oracle database using xMedDy, its mediation product and FraudTrace its fraud management solution. 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.

FraudTrace further 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. It enables detection of various fraud types like blacklisted and unknown subscribers, illegal routing and voucher recharge, SIM clone and CDR tamper.

The hardware platform consists of Sun V1280 servers, SS7 Protocol Analyzers and Oracle 8i database. Xalted's fraud management solution execution was integrated across 4 regions, covering around 10 million GSM subscribers. An interesting feature of the fraud detection exercise was that each region recorded unique network fraud types.

The system is being in operation for more than one year now.

Reference:

Mr. Ravishankar, DGM, BSNL.
Email: mravishankar@bsnl.co.in

Note:

1. Xalted need to inform the above officer, prior to contacting them directly.
2. Figures mentioned above are as on August 2008