

Ericsson – BSNL

GSM Zonal & GMCS WAN and “SDP”

Business Requirements

- To establish redundant WAN connectivity between various BSNL Zonal offices and Mobile Switching Center (MSC) locations of BSNL for collecting the Call Detail Records (CDRs) as part of Mega GSM Phase V expansion in Eastern and Northern region.
- Zonal Office to be connected to DC, DR and Near line DR.
- Implementation of required DC and DR IT infrastructure.

Solution Components and Approach

Solution Component:

- Oracle Servers and EMC Storage
- Consolidation of Backup Solution,
- BEA Application Server, TOMCAT, JBOSS and Oracle DB – Tech Stack
- Tele Stream server deployment,
- DC Switching (Core and Access) with Extreme Networks,
- Firewall with Juniper ISG 2000,
- SNMP gateway with Zone Ranger
- ADC with F5 networks LTM 3400 for application load balancing and reverse proxy,
- Wide Area network connectivity for CDR with Three Tier Router Architecture,
- Total of 6 Zonal connectivity was provided with 40+ GMSC / Zone

Business Results

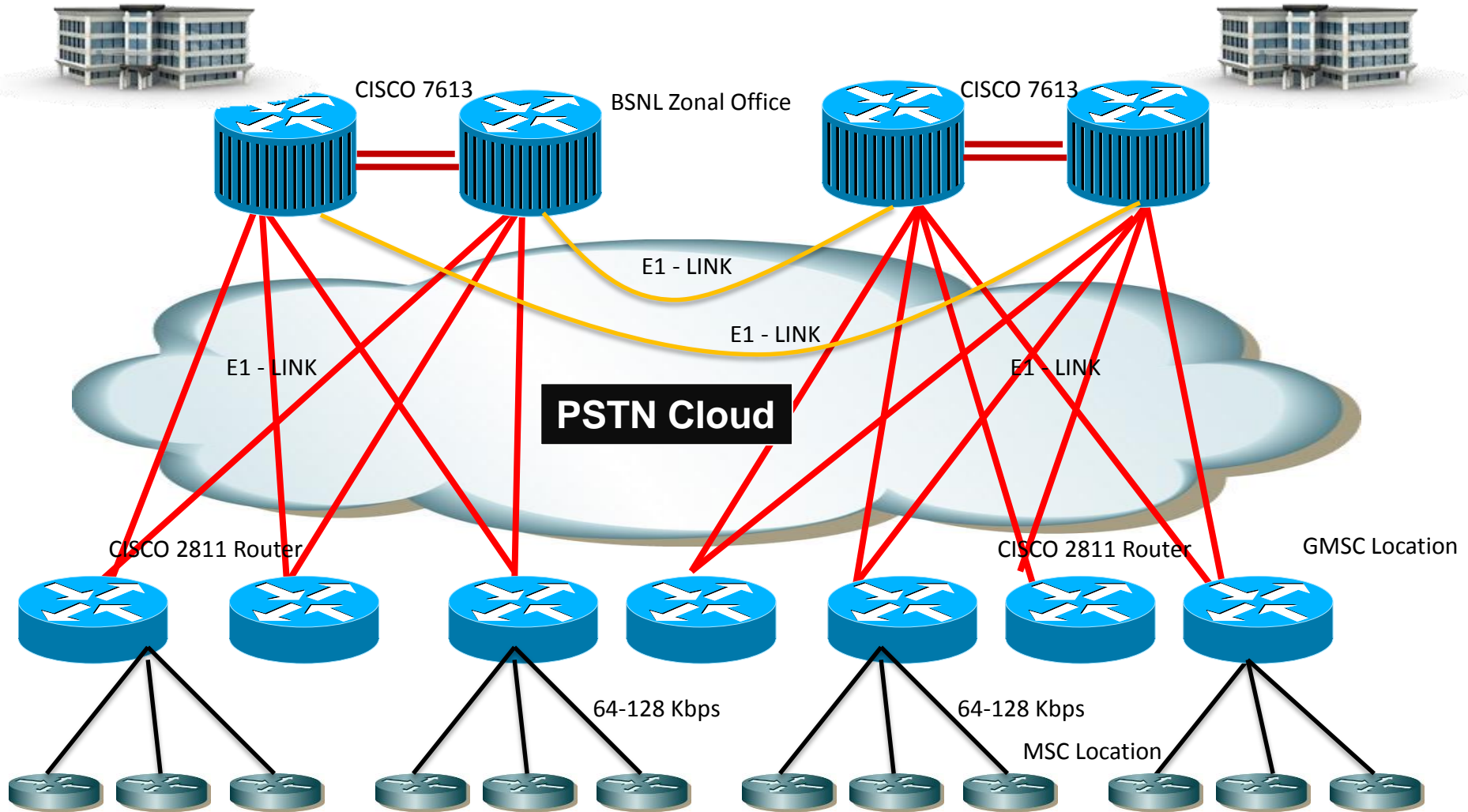
For Customer

- Completely redundant network built on Cisco7613 router with 80+ E1 Ports and configured in HA mode (HSRP) in Zonal offices
- Cisco28xx Integrated Services router for GMSC Locations with 2 Clear Channel E1 connecting with head end Zonal Routers and E1 PRI interface connecting to other MSC locations via 64 Kbps links
- Link Redundancy with BGP

For AFL:

- First and Largest Telecom Deal
- Large Referral Site for Network and Backup Consolidation

Ericsson – BSNL GSM Zonal Solution Architecture



Ericsson – BSNL SDP Solution Architecture

