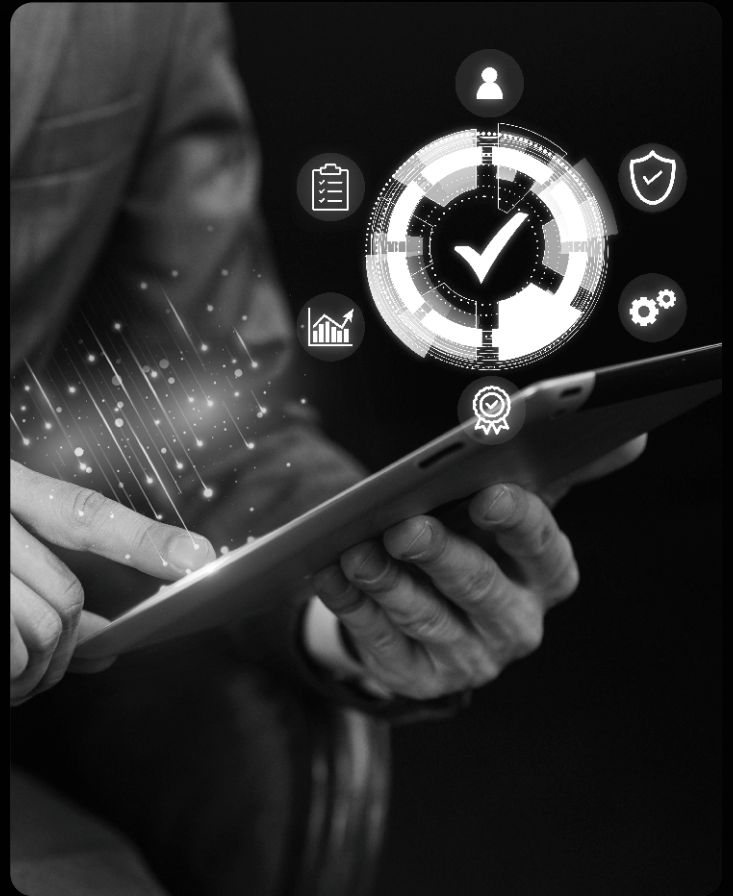


CASE STUDY

APSFL IMPLEMENTS PERTSOL iSECUREHL FOR REAL-TIME IP LOGGING AND REGULATORY COMPLIANCE



INTRODUCTION

Andhra Pradesh State FiberNet Limited (APSFL) enhanced its statewide broadband infrastructure by deploying PertSol's iSecureHL, a high-performance IP Log Management system built for large-scale data environments. The implementation delivered a compliant, scalable, & secure logging framework that supports real-time IPDR generation, streamlined regulatory reporting, and dependable assistance to law enforcement agencies.

CHALLENGES

What wasn't working? What critical problems or inefficiencies existed before the solution?

- ✓ APSFL struggled to manage and analyze the rapidly increasing volume of IP logs generated from multiple sources, including AAA, CGNAT, and IGW.
- ✓ Complex network environments made real-time correlation of logs and accurate identification of subscriber activity difficult.
- ✓ APSFL needed to comply with strict DoT-mandated requirements for secure, long-term storage and easy retrieval of detailed IP logs.
- ✓ Operational inefficiencies and data handling gaps affected APSFL's ability to respond quickly to regulatory audits and law enforcement inquiries.

- ✔ The absence of an integrated system created challenges in maintaining data accuracy, regulatory compliance, and overall operational transparency.

SOLUTION

Solution Implemented PertSol's iSecureHL – IP Log Management System

- ✔ PertSol implemented a centralized solution that enabled APSFL to capture, correlate, analyze, and store large volumes of IP logs seamlessly to generate IPDRs for further lawful processes.
- ✔ The solution consolidated logs from GTP, AAA, CGNAT, and DHCP sources into a unified, searchable platform aligned with regulatory requirements.
- ✔ A user-friendly interface allowed APSFL teams and authorized agencies to search logs instantly using simple filters, eliminating dependency on technical expertise.
- ✔ Real-time reporting and automated data management reduced manual effort and ensured timely responses to legal and regulatory requests.
- ✔ Integration with APSFL's Secure Data Repository (SDR) ensured tamper-proof, encrypted, and compliant data handover to law enforcement agencies.
- ✔ The organization improved customer trust by ensuring transparency, regulatory adherence, & secure handling of subscriber data.

KEY HIGHLIGHTS

Problem	Solution	Impact
Rapid growth in IP log volumes and difficulty correlating data across AAA, CGNAT, and IGW sources	Deployment of PertSol's iSecureHL for centralized log capture, correlation, analysis, and storage	Improved accuracy and real-time visibility into subscriber activities
Challenges meeting strict DoT regulatory requirements for secure storage and retrieval	Integration with SDR for tamper-proof, compliant handover of IPDRs to LEAs	Full compliance with DoT norms and streamlined audit readiness
Operational inefficiencies and delayed responses to legalqueries due to unstructured data	User-friendly interface with instant search, automated reporting, and real-time IPDR generation	Faster response to investigative requests and reduced manual workload
Need for scalable, interoperable system to support growing subscriber base	Multi-vendor CGNAT compatibility and high-performance architecture	Enhanced scalability, reliability, and trust in APSFL's digital services

“Every network generates billions of digital interactions. Effective IP log management transforms those records into trusted information that supports compliance, investigations, and operational integrity.”