

CASE STUDY

BT ENHANCES ITS IPLC COMPLIANCE AND MONITORING WITH PERTSOL'S iINTERCEPTOR DEPLOYMENT



INTRODUCTION

British Telecom (BT), a leading global communications service provider, modernized its IPLC interception framework with PertSol's iNterceptor, deploying the solution across three critical sites with precision and speed. The result is a fully compliant, scalable, and secure Lawful Interception (LI) environment that ensures seamless IPLC monitoring and dependable support for law enforcement agencies.

CHALLENGES

- ✓ The organization required lawful interception for its IPLC networks across multiple sites in India, while ensuring compliance with stringent legal and regulatory requirements.
- ✓ The project involved three geographically distributed sites with different network configurations and high traffic volumes, increasing deployment complexity, and coordination challenges.
- ✓ BT needed a system capable of handling large-scale IPLC traffic without performance degradation, while meeting national and international regulatory standards.
- ✓ Ensuring data integrity, preventing unauthorized access, and securely transmitting intercepted information to law enforcement agencies were critical security priorities.

- ✓ The existing environment demanded a scalable, flexible, and regulation-aligned solution that could evolve with future network expansions.

SOLUTION

Solution Implemented PertSol's Lawful Interception System (iNterceptor) for International Private Leased Circuits (IPLCs)

- ✓ The solution was deployed across three strategic network sites (Site 1, Site 2, Site 3), each equipped with advanced iNteliProbes for traffic mirroring through existing splitters or newly installed optical taps.
- ✓ The system enabled interception & monitoring of IPLC Traffic Content (TC) and Intercept Related Information (IRI) in near real-time, ensuring secure, compliant delivery to authorized law enforcement agencies.
- ✓ A Central Warrant System, Mediator, and iNterceptor Monitors were deployed to support lawful access, real-time monitoring, and standards-aligned data transmission as per ETSI regulations.
- ✓ The solution leveraged existing infrastructure to reduce hardware requirements, supported multiple high-capacity interfaces (E1 to 100Gbe, OTU2 to OTU4), and maintained strict encryption and integrity validation for intercepted data.

RESULTS

What measurable improvements did the customer experience?

- ✓ The iNterceptor system was fully implemented across all IPLC locations within five months, overcoming integration challenges and achieving rapid deployment.
- ✓ The solution passed all regulatory and law enforcement validation tests in a single demonstration, enabling smooth go-live compliance.
- ✓ The BT's lawful interception capabilities were significantly strengthened through real-time monitoring, secure data handling, and robust data retention across three major sites.
- ✓ The deployment enhanced network integrity, supported legal mandates, & enabled law enforcement agencies to analyze communication flows more effectively.



KEY HIGHLIGHTS

Problem	Solution	Impact
Need for lawful interception across multiple IPLC sites with diverse network setups	Deployment of PertSol's iNterceptor across three strategic sites (Site 1, Site 2, Site 3)	Full IPLC interception system deployed within five months
High-volume IPLC traffic requiring real-time processing and seamless data handling	Advanced iNteliProbes installed for traffic mirroring via splitters/ optical taps	Successful compliance testing and go-live after a single demonstration
Complex multi-site deployment requiring flawless coordination and minimal downtime	Central Warrant System, Mediator, and iNterceptor Monitors aligned with ETSI standards	Strengthened lawful interception and monitoring capabilities
Need for a scalable, regulation-aligned, and secure interception framework	Utilization of existing infrastructure with multi-interface support (E1-100Gbe, OTU2-OTU4)	Enhanced data integrity, secure transmission, and improved support for LEAs



**“Global communication requires more than seamless connectivity.
A trusted lawful interception framework ensures compliance, safeguards data integrity,
and supports authorized investigations without disrupting network operations.”**