



PertSol[®]
Simple Solutions for Complex World

WHITE PAPER

iSecureHL

Harnessing
The Power of
Metadata/IPDR

NEED FOR IPDR SYSTEM

Introduction

With a tremendous surge in mobile data usage & shift in telecom industry from voice to data, all service providers are moving towards an IP network that delivers voice, data, video & mobile applications. Therefore, to safeguard public from threats like cyber-crime, cyber bullying, cyber terrorism etc. & to help LEAs with their investigations, Regulatory Authorities across globe have recommend TSPs/ISPs to gather meta data information of their users which may help LEAs with their investigations & Intelligence generation.

IN addition this info can also help enterprises for building future growth strategies including trading, buying and selling data to gain insights and drive profits. MetaData generated is being used to create predictive models, automated processes, and predictive analytics for the subscriber database.

Tracing IP addresses to subscriber devices and their actual users can be very detrimental in investigating and fighting modern day crimes. In current scenario, with everyone leaving a digital footprint finding the source IP address, TCP port number, date and time of session can lead to criminals.

Therefore, service providers need an IPDR System / IP Log Management System in their network which shall support Government Agencies by gathering and managing IPDR (Internet Protocol Detail Record) logs of the subscribers and help provide the data which can become the building block of LEAs' investigations & intelligence generation.

iSecureHL

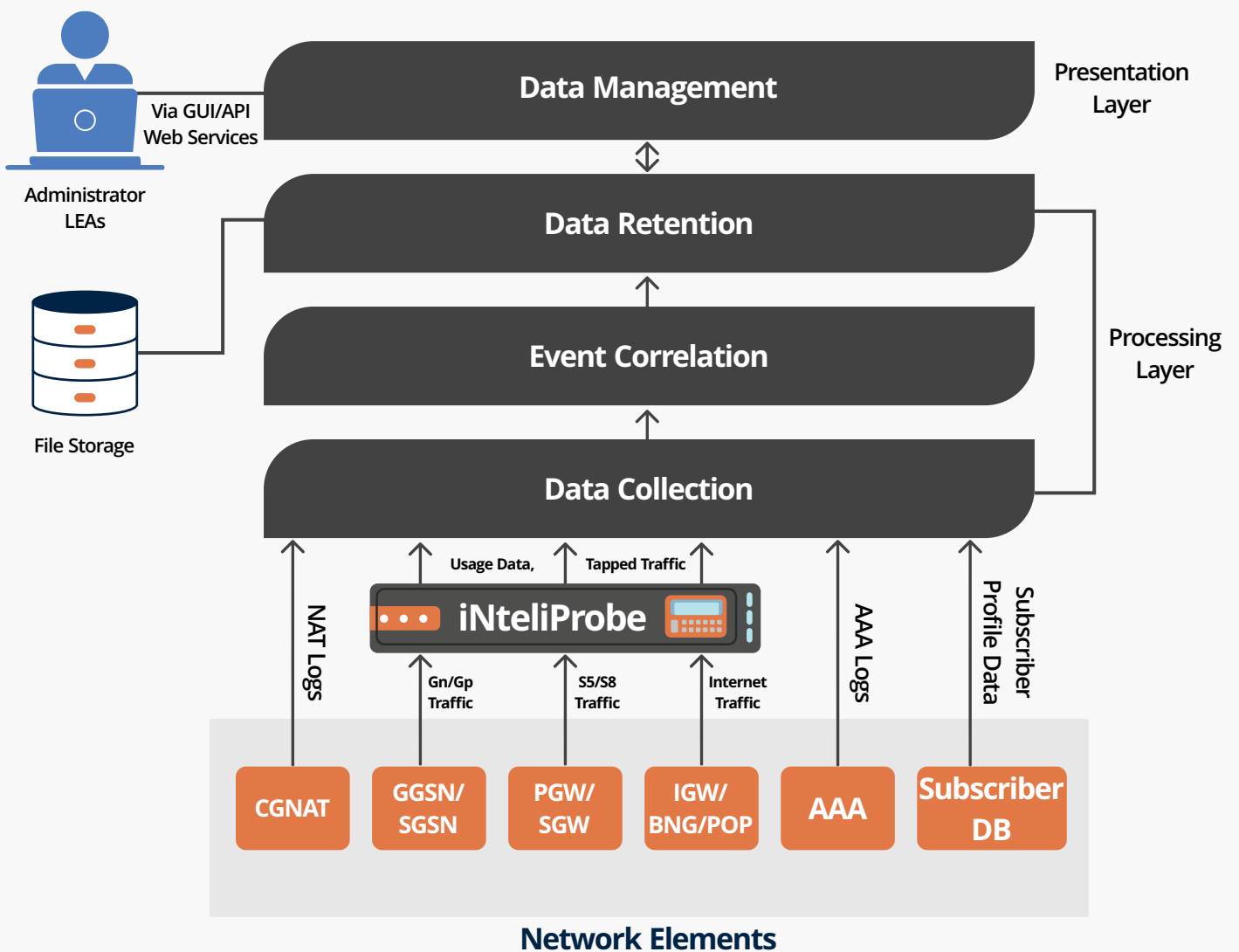
IPDR Management Platform

PertSol iSecureHL is a fully automated IPDR management solution that offers consistent and high-quality IP Logs across operator's network domains. It is a web-based system which fetches data from various sources like Internet Traffic, GTP traffic, CGNAT Logs, AAA traffic etc. and stores them in the

form of IPDR. It helps telecom CSPs and LEAs in protecting the public against Cybercrime by providing IPDRs.

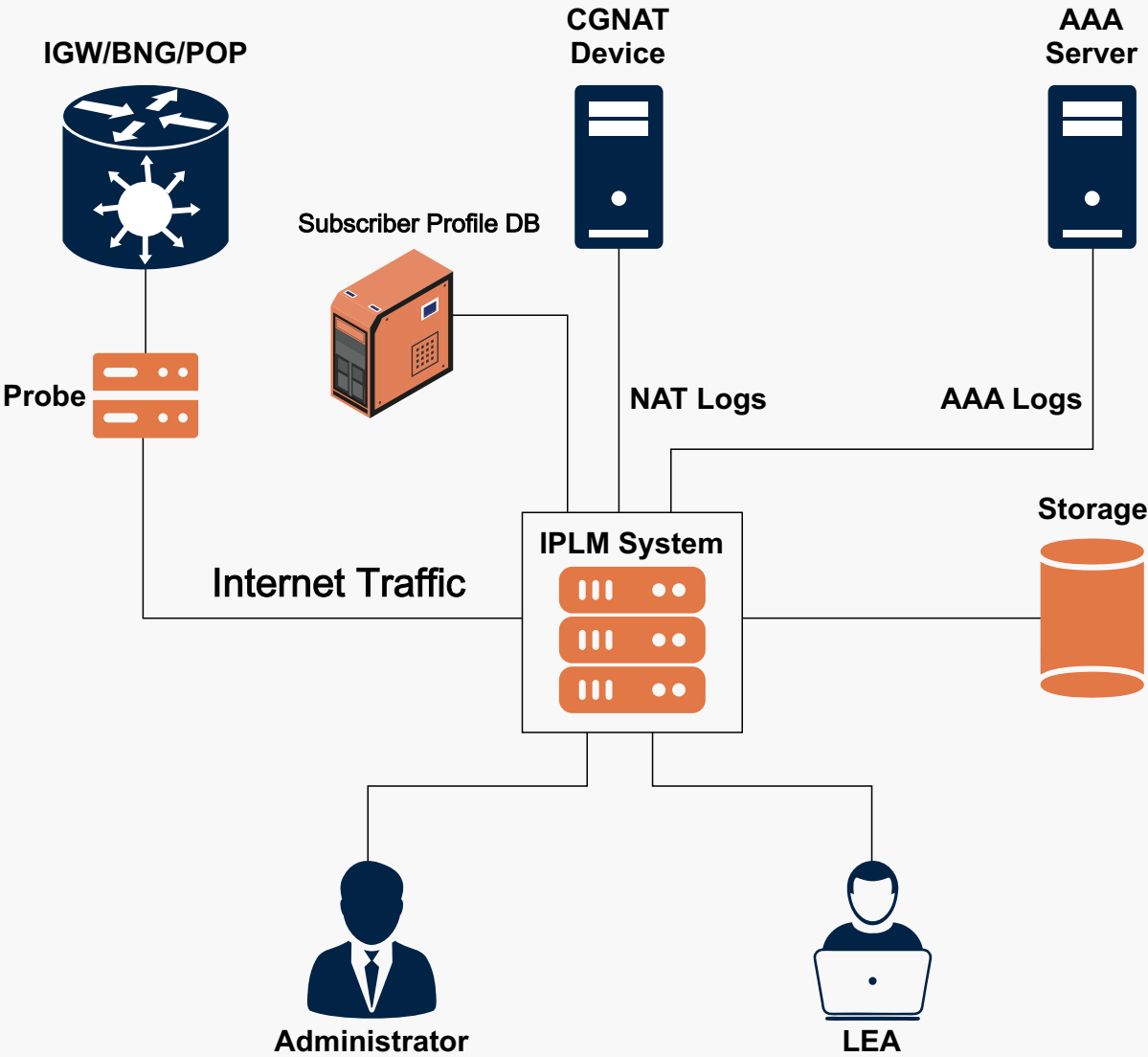
iSecureHL in combination with PertSol iNteliProbe deliver the most comprehensive monitoring solutions. It can simultaneously monitor Internet Traffic for control plane and User plane. Packets can be captured via interface cards that support 10G, 40G, 100G interfaces. It is also capable of decoding captured traffic from layer 2 to layer 7.

FUNCTIONAL ARCHITECTURE



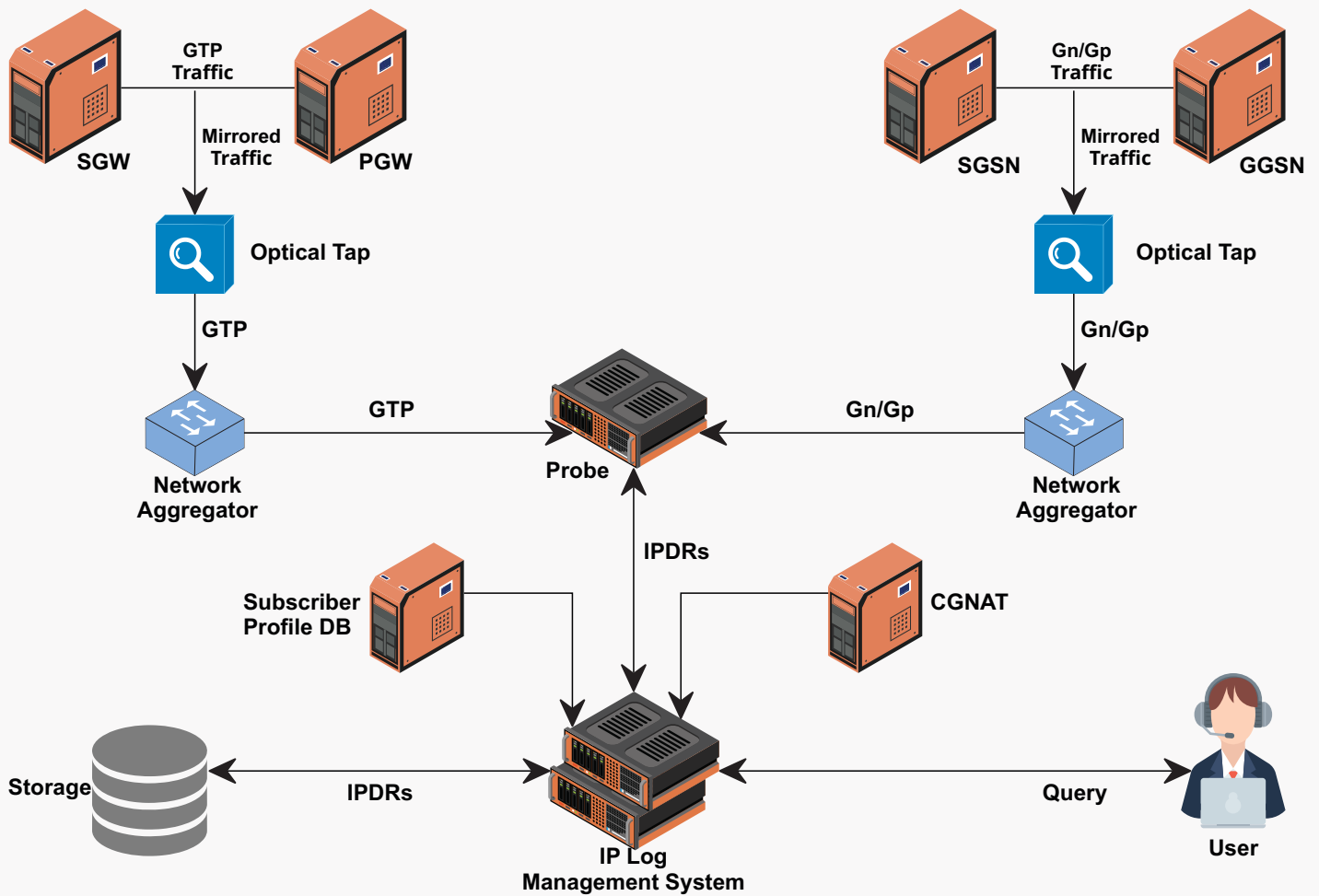
TYPICAL DEPLOYMENT ARCHITECTURE

ISP IPDR Management Architecture



TYPICAL DEPLOYMENT ARCHITECTURE

Wireless IPDR Management Architecture



KEY FEATURES

Solution With Excellent Capabilities



SUPPORTED

IPDR Fields

iSecureHL is capable of delivering IPDRs with all the fields that are asked by the regulators across the world. It provides more around 39 IPDR fields and does not depend upon any third-party data sets to generate IPDRs. Some of the IP fields that it delivers are:

Name of Person/Organisation	Address	Contact Number
Email Address	MSISDN	User ID
IP Address	Static/Dynamic IP Address Allocation	Source IP Address
Source IP Port	Translated IP Address	Translated IP Port
Destination IP Address	Destination IP Port	Start Time
End Time	Start Date	End Date
MAC Address	IMSI	IMEI
Cell ID	eUTRAN Cell Global Identity	Mobile Country Code (MCC)
Mobile Network Code (MNC)	Location Area Code (LAC)	PGW Address
APN	Browser	OS
URL	Domain	Protocol Used
Roaming Circle	Download Volume	Uplink Volume
Total Volume	Packet Count Uplink (Per Socket)	Packet Count Downlink (Per Socket)



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