

IP LOG Management Solution (IPLMS)

Architect Intel for Security



Overview

Social Media is the new-age communication platform whether for information sharing, marketing or connecting with friends. The popularity of this platform has caused a great surge in the no. of devices like smartphones, tablets, net-books & IOT devices and in turn triggered the exponential rise in data traffic. Total data growth is expected to reach 175 Zeta bytes by 2025 with 75% of total population having a digital data engagement over 4,900 times per day, about once every 18 seconds. This causes the challenge of handling such volumes of data with ingestion, processing and storage.

Moreover, the internet as exposed is exploited by criminals and increasing incidences of cybercrimes are witnessed around the globe. Cybercrime is predicted to cause damage of \$6 Trillion USD annually by 2021 and is more profitable than the global trade of all major illegal drugs combined. This raises the challenge for government and lawful agencies to monitor and intercept all suspected communication activities and prevent such attacks.

Also, Regulatory authorities in every country are making it mandatory for CSPs to capture detailed information of every data session for every subscriber with all necessary details. For CSPs, log management is essential to ensure that records are stored with sufficient detail, for an appropriate period of time in order to aid Lawful Interception (LI) authorities and investigative agencies.



What is IPLMS?

IP Log Management Solution (IPLMS) is a fully automated one click software solution that offers CSPs a web based system to provide end-to-end information for suspected user and incidences. It is an intelligent solution empowering CSP's and investigating agencies to store &

retrieve data with lightning search. It provides end-to-end IP details and subscriber details based on: Time stamp & Date, Source Private IP, Source Port, MSISDN No, Destination IP, Destination Port, MACID, NATed Public IP etc.



KPIs

LI Queries Scan

20

TrillionRecords in an Hour

Hyper Scalable
With only 3.5x Server Growth

235x

Data Growth Handled in Tier 1 CSP Web-Scale
Data Ingestion

30

PB/Year

CDR Volume Processed in a Day

1200+

Billion

LEA's Request Fulfilled

5Lakh +

of 1 day +Duration Search

SPEED OF DEPLOYMENT

24_{Hrs} to 4_{Weeks}

End to End

No Solution
Outage

99.999%

System Online O P1s For last 8 Years Cost Effective Storage

93%

Additional Compression

More than Competition

Easy Integration Easy integration with standard network elements with no additional cost incurred (Microservices Architecture) Modular Architecture

Restful APIs for easy integration with

Operator's GUI and / or with legal agency's country specific LI system /

Cloud, NFV, SDN Virtual deployment

IPLMS

Benefits

Faster Implementation

Single site IPLMS implementation can be done in 72 hours in-turn assuring cost effective implementation TAT.

Collection S

Distributed Architecture

Collection Service at Different Sites and Processing at Central Site with to Save Cost



Easy Management

Faster and risk free deployments and upgrades on single and / or multiple instances.

Scalability & Availability

Deployment Agnostics

compliant

99.9999% availability of live use cases with horizontal and vertical scalability (Webscale support)



Network Management

Public - Private IP Pool allocation, deallocation/ reallocation area wise, IP Pool Configuration with timestamp, MSISDN and IMSI range configuration with time stamp significantly helps in area management.

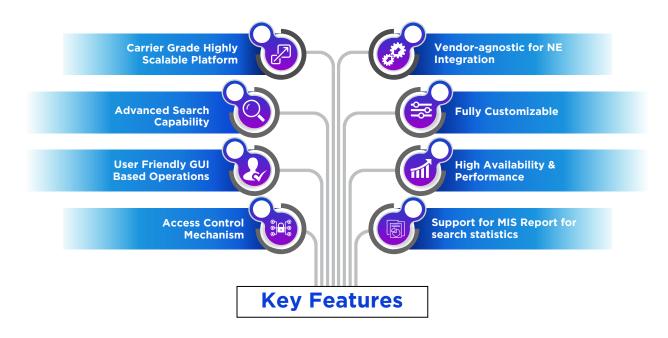
Platform Highlights

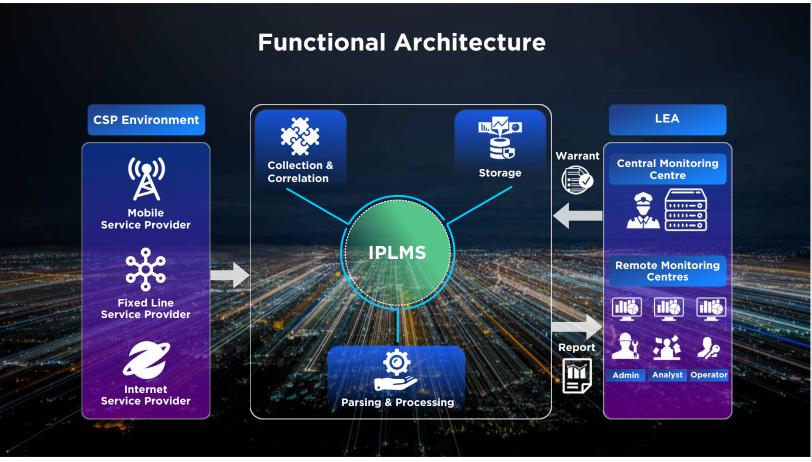
One Click Software Solution to Provide end-to-end Information of the Suspected User and Correlated Network Information

Easy integration with standard network elements with no additional cost incurred (Microservices Architecture) 1 Trillion Data record processes in a day

Hyperconverged Infrastructure NFV/SDN Compatible 1 Million EPS/Server

Microservices and Docker Enabled IPv4 & IPv6 Enabled Cloud native architecture with auto-scaling features Pre-configured Integration with Leading Network Elements Subscriber Tracking







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