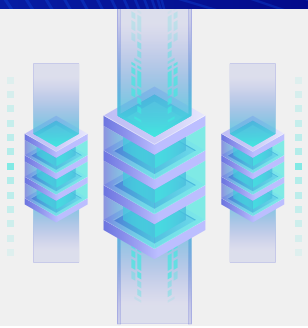
Kron TECHNOLOGIES

DATASHEET

IPDR Logging Solution

Purpose-built Logging Platform for Telecom Operators

Kron IPDR Logging Solution fulfills your regulatory requirements with its high-capacity data ingestion, processing, and efficient storing capabilities.



In today's hyper-connected world, broadband penetration and the footprint of network usage are on the rise. The metadata associated with broadband usage serves as a valuable source of information, providing insights into network behavior and user interactions. Efficient processing and storage mechanisms are essential for telecom operators to effectively govern this data.

The increased use of broadband and its associated metadata, combined with the introduction of CGNAT due to IPV4 depletion and the adoption of IPV6, has led to more complex IPDR logging requirements for both fixed and mobile networks. Kron IPDR Logging offers a cost-effective solution for logging this increased traffic and sessions, specifically tailored to meet regulatory requirements and for forensic purposes.

Kron IPDR Logging is a crucial component of your data management ecosystem, streamlining the ingestion and processing of your log data. It enables the seamless replication of IPDR logs to other analytical systems, providing a wide range of users with access to querying, analysis, and reporting capabilities.

In summary, Kron IPDR Logging is a vital component for modern telecom operators, offering real-time network intelligence to efficiently manage the growing broadband landscape while meeting regulatory requirements, enhancing forensic capabilities, and providing a purpose-built pipeline for streamlined data ingestion and storage solutions.

Kron's IPDR logging solution has extensive references across various CGNAT topologies, **multi-vendor** network devices, and DPI solutions. It is designed for collecting, processing, **correlating,** and enriching logs with contextual information.

The solution acts as a data **pipeline for various monitoring** and security tools, including NPM, NDR, SIEM, and NWDAF, specifically tailored for 5G networks.

Kron IPDR logging is capable of storing data on a **petabyte scale,** supported by both vertical and horizontal scaling. Additionally, it offers the flexibility to use cost-effective storage alternatives for less critical data, which helps in reducing storage costs.

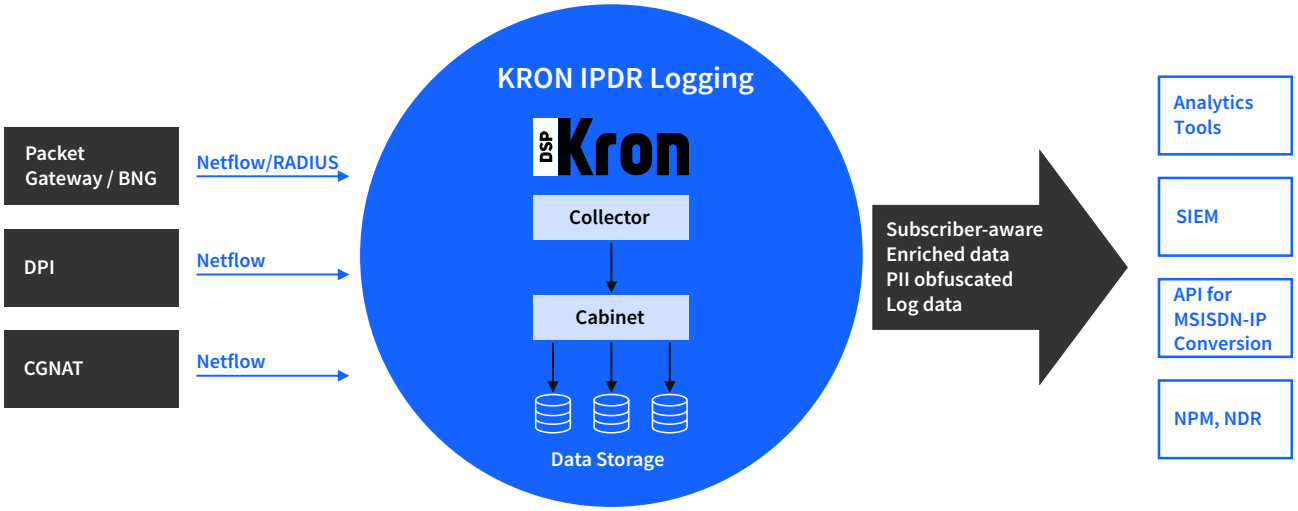
How IPDR Logging Solution Works?

The Kron IPDR Logging consist of two major components to provide deployment flexibility:

Data Collector and Data Cabinet.

Data Collector: The Data Collector collects and ingests flow and event data from network devices, including CGNAT, PGW, GGSN, BNG, and others. Additionally, it obtains subscriber details, correlates this information, and forwards the consolidated log records to the Data Cabinet.

Data Cabinet: The Data Cabinet receives and archives logs in the necessary formats, leveraging advanced compression algorithms to achieve an approximate compression ratio of 90%.



Features & Benefits

Better value with lower total cost of ownership - Purpose-built data store architecture supporting high volume of data storing with low-cost storage solutions.

Scalable architecture - Flexible architecture for growing logging capacity needs or new site expansion.

Zero data loss architecture - Mission-critical log capturing, transferring, and storing without any data loss.

Extra security & reliability on protocols - Transmit logging data from remote sites with a reliable protocol and buffering mechanism.

SQL Compatible Query - Fast Query with massive parallel processing.Fast query with massive parallel processing.

Filtering noisy protocols - Reduce your log by filtering chatty protocols like DNS.

High capacity throughput - Up to 2M flow per second ingestion capacity in a single instance.

High level efficiency - Storage area and disk efficiency with compression algorithms and filtering mechanisms for unnecessary fields and protocols.

Flexible Correlation Mechanisms - Support correlation of multiple streaming data.