

Chronos

IP Log Management System

Chronos keeps records of subscriber internet activity and stores them securely for future queries. It enables you, as a network operator, to fully comply with regulations that require the logging of subscriber internet activity, while keeping compliance costs at the bare minimum. Plus, it's designed to grow with your network, meeting your future logging needs.

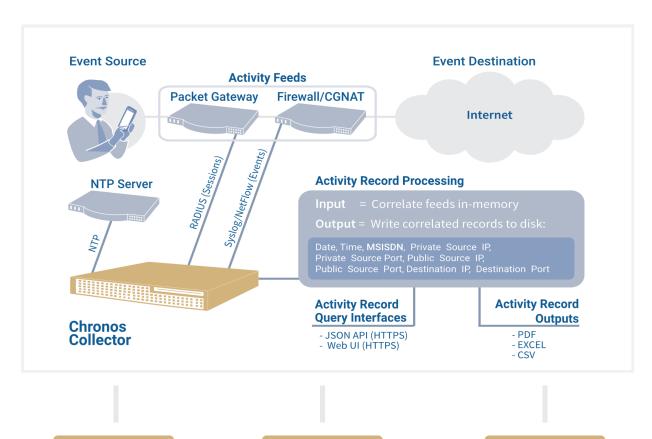
Functionality

- Activity Logging: Chronos logs mobile subscriber internet activity in near real time as accurate, space-saving, secure, tamper-proof records.
- Activity Querying: Chronos enables authorised personnel to easily search through massive volumes of subscriber activity records at high speed using its secure JSON API or Web UI.
- Activity Reporting: Chronos provides Law Enforcement
 Agencies with reports—in PDF, Excel, CSV format—that include
 evidence of subscriber internet activity, along with the
 MSISDNs of the subscribers who performed the activity.



Key Benefits

- Get accurate tamper-proof evidence
- Minimise storage costs
- Safeguard against loss of data
- Accelerate investigations with fast searches



Ensure Compliance

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Reduce Costs Scale Massively

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Why Chronos?

Current Mobile Device Use

In 2024, mobile devices are the main source of global internet traffic, making up 55.7% of all online activity. This trend is particularly striking in Africa, where mobile devices account for an impressive 73.6% of internet traffic. South Africa leads the way with an even higher figure of 77.97%. In comparison, North America has a lower share at 45%, while Europe is around 52%. This shows that Africa significantly exceeds the global average.

Future Mobile Device Use

Looking ahead, mobile internet usage is expected to grow rapidly each year as more and more people engage in online activities using their smart devices.

Achieving Regulatory Compliance

To comply with internet activity record-keeping legislation and cope effectively with logging the surge of data growth, Pharos has created a specialised IP log management system designed for network operators: Chronos provides regulatory compliance, carrier-grade availability, minimal setup and running costs, and high scalability for your future logging needs.

Sources of Statistics:

- Sunil Gill, "Internet Traffic From Mobile Devices Stats 2024," Priori Data, August 23, 2024, https://prioridata.com/data/mobile-internet-traffic/
- Daniel Ruby, "69 Mobile Internet Traffic Statistics for 2024 (Worldwide Usage)," DemandSage, January 22, 2024, https://www.demandsage.com/ mobile-internet-traffic/

Ensure Compliance



Chronos makes your network compliant with regulations that require you to log, store, and provide (on request) activity records containing the internet destinations that subscribers have accessed using your network.

Extreme Performance

Chronos is designed to be a powerful IP log management system. It handles the massive task of consistent collecting, processing, and storing billions of internet usage records—in near real-time for millions of concurrent network users.

Trustworthy Evidence

Accurate Records: Chronos uses live subscriber activity network feeds to record internet activity and timestamps records precisely using servers that are synchronised using NTP.

Tamper-Proof Records: Chronos guards activity records with blockchain-inspired security and stores them in its protected time-series database before archiving them to long-term storage.

Reduce Costs



This slashes the cost of mass storage space you need to archive the massive volume of network usage records generated each day.



Scale Massively

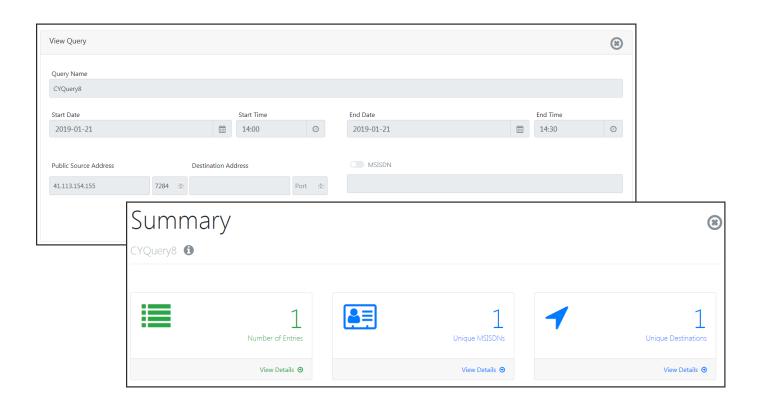
Chronos is designed to scale to accommodate your future demands for data traffic growth. Its modular design enables you to horizontally scale the system by adding additional servers.

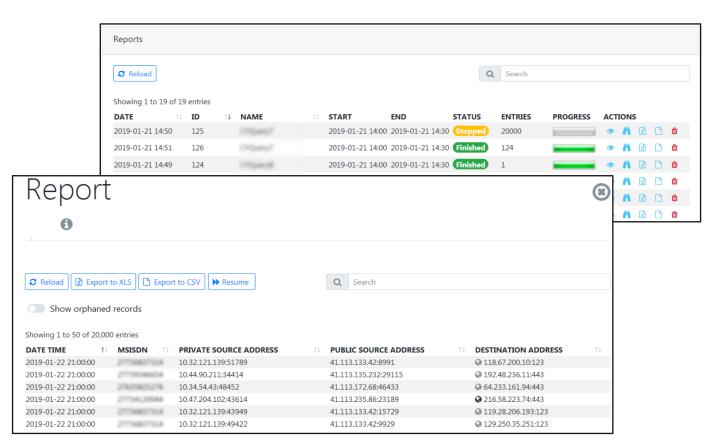
Chronos performs parallel processing by distributing its workload across all servers in the Chronos cluster, which provides you with predictable scaling and high performance.

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The Chronos UI





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Why Pharos?

Our formula for your success:





Telco Expertise

Since 1997, we have been actively engaged in the telecom industry, acquiring extensive expertise and knowledge in telco networks and technologies.

History Of Innovation

Our history reflects a strong record of delivering innovative solutions through our mature technology framework, customtailored to meet the specific needs of our customers.

CONTACT

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In-House Technology

We believe technology should support business needs. With a broad technology portfolio and industry experience, we craft solutions tailored to your requirements.