



Open Source Telecom Signaling

# Release Notes

## for Core Network Analyzer v6.0

Reigniting telecom innovation and sustainable profitability via open source signaling solutions



# Core Network Analyzer

## CNA version 6.0 Release Notes

Constant innovation is a core value of PAiCore Technology and the new release of our CNA, version 6.0, is the latest proof of this continuous improvement drive.

This update includes significant enhancements to our Core Network Analyzer, including improved troubleshooting capabilities, a more flexible and intuitive user experience, and integration with third-party monitoring systems.

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| LATEST VERSION: 6.0             |
| RELEASE DATE: February 28, 2025 |
| IMPROVEMENTS: 10                |

# Enhancements & New Features vs Previous Version

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- **Enhanced User Interface**

The user interface has been completely redesigned with a modern look and feel, providing a more intuitive user experience.

- **Integration with Grafana Dashboards**

Our CNA now supports integration with Grafana dashboards, enabling us to monitor KPIs with the flexibility of a well-known open-source product.

- **Implementation of Partitioned Tables and DB Views**

More efficient data management and query performance through the implementation of partition tables and DB views.

- **Download PCAP Feature Optimized to Support Different Encapsulation Types**

Traces from different environments, such as Ethernet (IP) and TDM, have different encapsulation types. Our download PCAP feature has been optimized to support all of them, allowing users to download a single PCAP file with information from different environments.

- **Correlating Messages by MSISDN or IMSI**

Queries have been optimized to correlate messages in a flow either by MSISDN or IMSI.

- **Search Option Optimized to Support Different Formats**

The following formats are now supported:

- Country code + MSISDN in national format
- 0 + MSISDN in national format
- MSISDN in national format"

- **Optimized Offnet Traffic Handling**

Queries and the backend have been optimized to better correlate SRIs and MTs in Offnet traffic scenarios.

- **Improved Handling of Incomplete SIP Trace Files**

A retry mechanism has been implemented to reprocess traces that were incomplete during the initial processing attempt.

# Improvements vs Previous Version

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## Bug Fix – Only requests where displayed for CAMEL traffic

- **Issue:** Only requests where displayed for CAMEL traffic
- **Fix:** CAMEL queries were optimized to display both InitialDP (Requests) and responses.

## Bug Fix – Some GTP frames were not processed

- **Issue:** Some of the GTP traces were not ingested entirely which causes the user couldn't find those messages in the frontend.
- **Fix:** The ingestion service was optimized to ensure all of the GTP traffic is processed correctly.