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ExaPackets Wireless Big Data is a high performance and scalable Hadoop based platform that allows storing billions of protocol packets and other logs, deriving CDRs from 3G and 4G wireless protocol packets. The platform includes a call analyzer, search engine, reporting, charting and analytics module to facilitate visualization of data and root cause analysis.

Product Overview

- Store billions of rows of logs and protocol data.
- Complete support for 3G and 4G protocols.
- Call trace engine groups the wireless packets by calls and creates Call Data Records.
- · Visualize and map data interactively.
- Correlate data, e.g., failures against cell identifiers.
- The system provides processing power of 75000 records per second on a single server.
- The solution provides 14x increase in ETL using optimized Java Native Interface for C++.
- Fully automated ASN.1 and NAS compiler, decodes protocol with no manual coding.
- Ansible provide full configuration and installation of platform on a local cluster of servers or cloud requiring only SSH.
- Web based user interface allows user to run the software without any program installation.

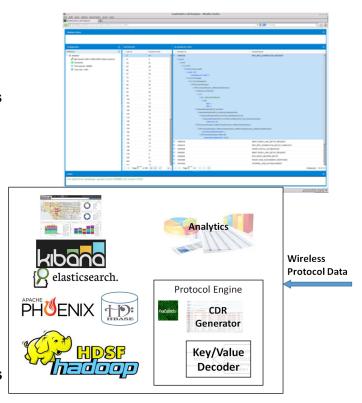
Performance on a single Server for 15 minutes of RNC Data

Server Specification

Intel Dual Xeon E5-2630 V3 2.5 GHz 8 Core, 64 GB RAM 45 Million records, 3.5 GB raw data

Extraction, Decode, Load, Index Time	675 seconds (11 minutes)
Counting Packets (all rows)	283 ms
Fetching Packets for a given CDR	200 ms
Cloud Deployment of a cluster of 3 servers	90 seconds

Operation	ExaPackets	HBase Map/Reduce	Comaprison
Bulkload to database	339 seconds	4865 seconds	14x faster
Packet Row Count	283 ms	692 sec	2445x faster
Fetch CDR Packets	200 ms	241 seconds	1205x faster



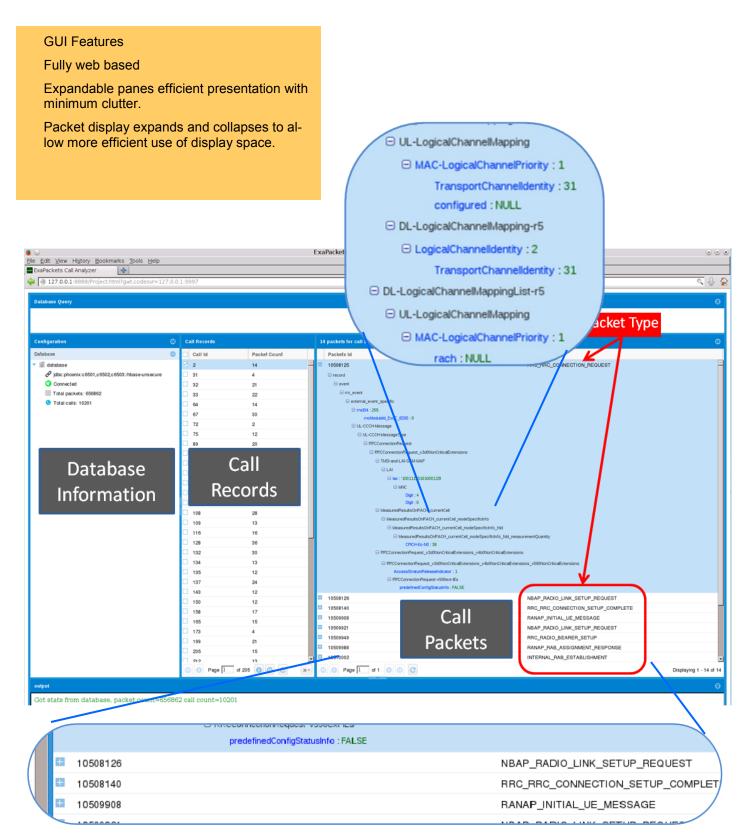
Supported Protocols

LTE 4G	UMTS 3G
RRC 3GPP 36.331	RRC 3GPP 25.331
S1AP 3GPP 36.413	NBAP 3GPP 25.433
X2AP 3GPP 36.423	RANAP 3GPP 25.413
NAS 3GPP 24.301	RNSAP 3GPP 25.423
	PCAP 3GPP 25.453
	SABP 3GPP 25.419
	NAS 3GPP 24.008



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The platform is integrated with Elasticsearch and Kibana allowing user to search and visualize the data interactively. The visualization includes, graphs, charts and geo-maps. All the visualization can be placed in a dashboard. The dashboard allows specification of threshold and monitoring of SLAs.





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Hadoop Features

Hadoop and Yarn version 2.7.0

Hbase version 0.98.9

Apache Phoenix version 4.3.1

Hive version 1.2.0

Pig version 0.14

flume version 1.6.0

Kafka version 0.8.1

Storm version 0.9.5

Elasticsearch 1.6.0

Kibana 4,1,1