

Cedros TerraCDR

High data-throughput for Data Retention Solutions

Telephony Operators and Internet Service Providers are bound to supply law enforcement authorities with access to customer and connection data records on request as required by national law and the EU Data Retention Directive.

The data must be stored in an accessible repository that enables organizations to respond to information requests from competent authorities “without undue delay.”

Cedros TerraCDR is prepared to support operators responding to challenging EU Data Retention Directive requirements.

Features

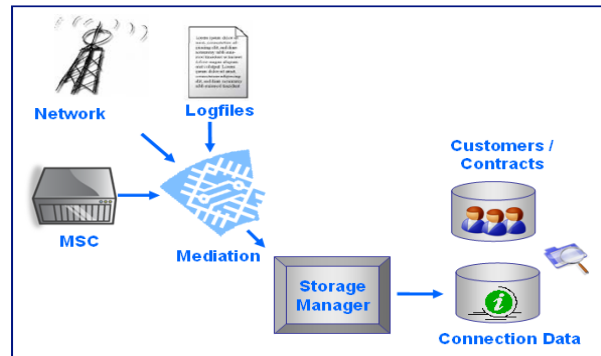
- **High Data Throughput**
Import > 1000 records/s per CPU-Core
- **Multiple-Import Formats**
 - Standard Formats (CDR/XDR/IPDR)
 - CSV, ASCII, XML, Log files
- **Real-time Subscriber Supervision and Alarm Definition**
- **Real-time Export Interface**
- **Runs on Linux**

TerraCDR's flexible Transaction Processing Kernel has been optimized for processing various types of data streams. As part of the mediation process these data types are transformed into “human-readable” format.

As an analogue for CCS7 the kernel supports IP monitoring systems which are capable of filtering or aggregating important IP-events.

TerraCDR's storage manager uses a highly optimized file system providing excellent data throughput and scalability.

Data is rarely available in standard CDR-Format as requested. A flexible data formatting tool that supports a wide range of data formats and exchange protocols is provided.



TerraCDR's Web-based User Interface offers two types of queries:

- Direct Mode – direct response on indexed data within seconds
- Batch Mode – non-indexed queries with delayed responses

In addition a real-time export interface is available. Based on a flexible filter definition, the system immediately forwards events matching the filter criteria, e.g. for supervision of a specific subscriber.

Benefits

- **TCO 40-80 % lower than other solutions**
- **Compliant to EU-Requirements**
- **Modular Design fits new requirements**

Project Management and Integration

Cedros realises large and complex projects as a general contractor or in co-operation. Based on our wide experience we guarantee a secure system implementation meeting time and quality demands.

EU Data Retention Directive Requirements

Telephony

- A- and B-Subscriber Identity, C-Forwarding identities if available
- Start-/End time of Connection related to TZ
- Mobile Location (Cell IDs), Service Details / Call type (Speech, Fax/Data, GPRS, etc.)
- Supplementary Services Activation and Prepaid Status

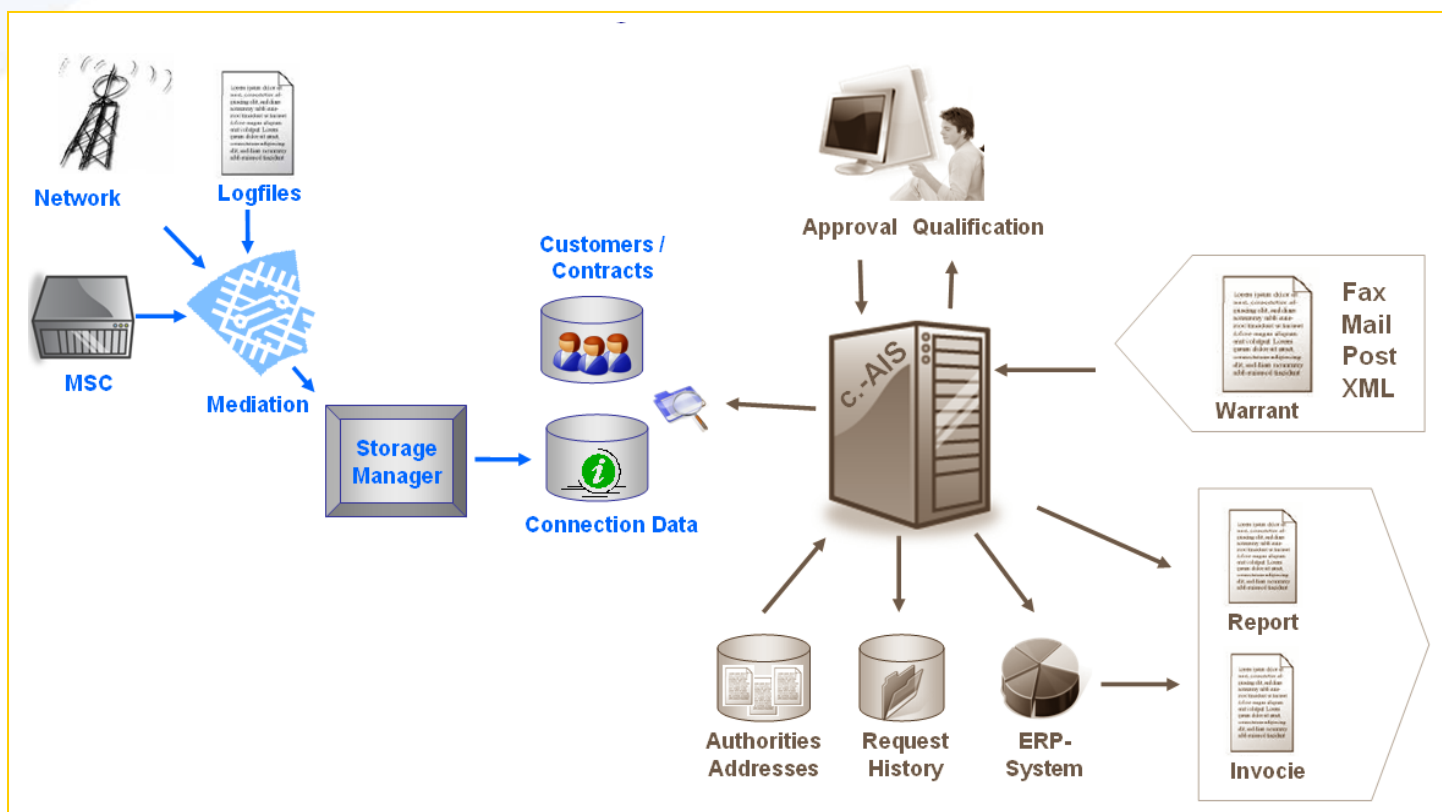
Internet

- Login-Names
- Subscriber-IP-Addresses
- Access-Identities and optionally Service Types
- Start- and End time of Connection

e-Mail

- Server-Outgoing-Email: Sender Address, IP-Address, Recipient-Address(es), Date & Time
- Server-Incoming-Email: Sender Address, IP-Address, Recipient-Address, Date & Time
- Access to E-Mail-Server: Server-Address and IP-Address of Client

Data Retention Scenario



Cedros

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System Requirements:

- Red Hat Linux / Solaris
- Intel® Quad-Core CPU or comparable
Import: About 1000 Records/s per core
- External Storage & Backup
About 120MB for 1 Mio CDRs