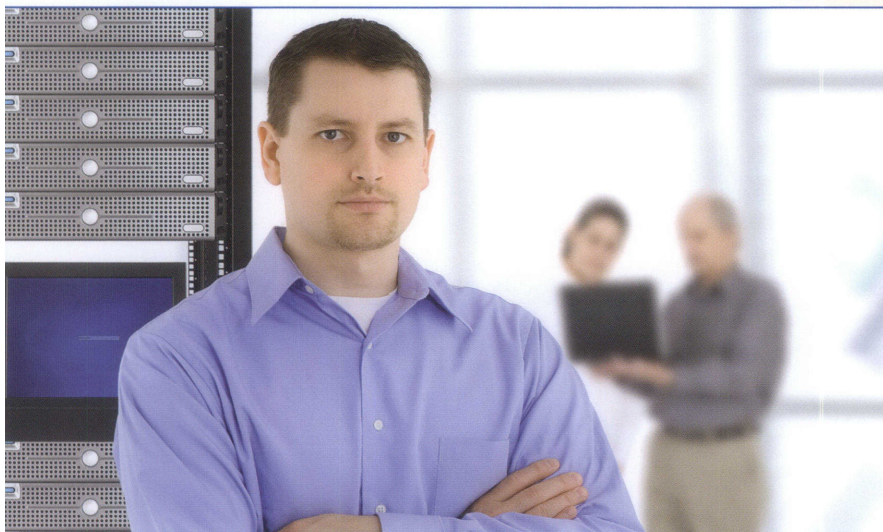


Utimaco DRS™

Automated Data Retention for Telecommunications Service Providers



Automated Data Retention for Telecommunications Service Providers

Retention of subscriber data and communications related data has become a legal requirement for telecom operators and service providers around the world. Laws and regulations like the EU Directive 2006/24/EC oblige telecommunications service providers to retain CDRs, IPDRs, as well as subscriber data for a period of six to twenty-four months. While much of the data required is being recorded by providers already for billing and marketing purposes, these new regulations put some cumbersome and potentially costly obligations on CSPs in regards to data security, delivery of data, and completeness of information.

Utimaco has addressed these challenges with a brand-new approach that is affordable, quickly implemented, and secure. Utimaco Data Retention Suite (DRS) is a state-of-the-art, purpose-built management system for secure data retention and fast data retrieval. The system has been designed to easily integrate into existing network infrastructures that generate thousands of data records or even up to several billion records per day.

Utimaco DRS incorporates a configurable workflow management system which reduces operational expenses by automating the administrative tasks of request handling and delivery of search results to authorized agencies. Comprehensive security mechanisms like granular user management functionality, strong access control, encrypted storage and handover, and full audit trails of all user and system events, are fundamental features to support compliance with national regulations for data protection and for public safety.

About Utimaco

For more than 25 years Utimaco is a leading global provider of data security solutions. Since 1994 Utimaco has been providing lawful interception systems for mobile and fixed network operators and Internet service providers. Utimaco Data Retention Suite was introduced in response to the EU directive 2006/24/EC and at the request of telecom customers for integrated LI and DR solutions. With more than 160 installations in 60 countries, Utimaco is a leading global supplier in the LI market.

While Utimaco data security products are now distributed by Sophos, the business units „Lawful Interception and Monitoring Solutions“ and „Hardware Security Module“ form Utimaco's operating businesses.

Features

- ◆ Collects communications data (CDR, IPDR) and subscriber data from any telecommunications network
- ◆ Retains large amounts of data in a powerful and secure data warehouse
- ◆ Provides very fast search and analytics in billions of data records
- ◆ Automates request processing and delivers data to authorized agencies by fax, e-mail, or secure IP interfaces

Benefits

- ◆ Complete solution to satisfy the data retention obligations of communications service providers
- ◆ Lowest operating costs due to high automation of workflows
- ◆ Cost-effective integration in existing networks of any size with various communication services
- ◆ Suitable for large networks with several billions of CDRs per day
- ◆ Reliable system security and data protection

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Utimaco DRS™

Hardware Specifications

- ◆ Oracle X86 servers
- ◆ Various configurations from single server appliances to multi-server clusters
- ◆ Integrated disk storage (up to 12TB)
- ◆ External SAN from 6TB to 1000TB (RAID)
- ◆ Oracle Solaris 10 Operating System
- ◆ Sybase IQ data warehouse
- ◆ CE marked, FCC compliant, ROHS

Services

- ◆ PSTN telephony
- ◆ Mobile telephony & data (GSM, UMTS, CDMA)
- ◆ Mobile Messaging (SMS, MMS)
- ◆ Internet Access (DSL, cable, Wimax, WLAN)
- ◆ VoIP, Push-to-Talk
- ◆ E-Mail, Webmail
- ◆ Other services on request

Security

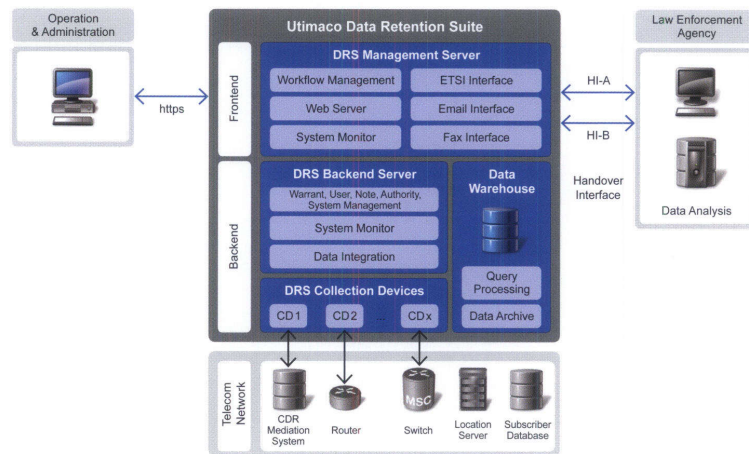
- ◆ Granular rights management
- ◆ Remote access via https (password, certificate)
- ◆ Full audit trail (encrypted)
- ◆ Data integrity protection
- ◆ Encrypted storage (optional)
- ◆ Hardened operating system

Performance

- ◆ Loads up to 100,000 records per second (on one server)
- ◆ Average search performance: 5 sec per 1000 query results

Norms and Standards

- ◆ EU Directive 2006/EC/24
- ◆ ETSI TS 102 656
- ◆ ETSI TS 102 657



Highlights

Seamless Integration

Utimaco DRS has been designed for seamless integration into existing multi-vendor and multi-service networks. The solution can be customized easily to interface with CDR/IPDR systems, log files, sub-subscriber databases, and other network nodes.

Multi-tenancy

One Utimaco DRS system can be used to administer warrants and search requests for multiple network operators and service providers. The granular rights management system of Utimaco DRS can be configured to securely segregate between networks, users, and authorities and thus supports various business models like MVNO models, managed services, or cross-border service platforms.

High Performance & Capacity

Utimaco DRS has been optimized for simultaneous loading of massive data volumes and fast query processing. The system can ingest several billion data records per day, supporting the transaction rates generated by large telecommunications networks with millions of subscribers. Average queries results are returned in seconds not minutes.

Strong Security

Comprehensive security features like role-based access control, encryption and integrity checks prevent unauthorized access and manipulations of sensitive data during storage and handover. Full audit trails are maintained for all system and user events to provide full accountability for evidential quality.

High-availability

Server redundancy, RAID-5 data mirroring and real-time system monitoring are integral concepts of Utimaco DRS to satisfy highest availability demands and disaster resilience.

Cost-efficiency

Utimaco DRS runs on broadly available and cost-efficient X86 servers and uses standard SAS/SATA disks arranged in RAID-5 arrays. This together with the excellent data compression rates reduces hardware expenses to the absolute minimum.

Standards based

Utimaco DRS is fully compliant with latest ETSI standards in support of the European Data Retention Directive 2006/24/EC.

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utimaco
a member of the Sophos Group

Utimaco Safeware AG

Germanusstraße 4
52080 Aachen
Germany
Phone +49 (0) 241-16 96-0
li-contact@utimaco.com