

CyberQuest for Vodafone Romania: A Unique Software Solution for Analyzing Enterprise Data Flows



Overview

As one of the telecom giants worldwide, and on the local market as well, Vodafone Romania has a complex infrastructure, with multiple data centers that integrate many diverse and custom IT systems in order to operate at optimum parameters.

CyberQuest is a revolutionary Security-Driven Analytics Platform that collects events from all the organization's SIEM systems, applications and networks by using a set of innovative mechanisms, in order to unify and organize data in a coherent format that is easy to follow and analyze.

Even if it operates with very large data volumes, CyberQuest orders and makes data accessible in seconds, allowing the user to optimize his operational time.

CyberQuest is a No-SQL based application that has an advanced new-generation search and filter function. The navigation across billions of events is very easy and results are obtained in just a few seconds.

The solution contains unique self-learning algorithms and machine learning capabilities that analyze data flows and adopt patterns of processes, users and systems in order to send automatic real-time alerts once it identifies an anomaly.






The solution is fully compliant with the latest international standards (ISO 27001, COBIT, FISMA, HIPPA, PCP/DSS, SOX) and provides out-of-the-box reporting.

CyberQuest's modules are integrated in a central platform, with an intuitive user-friendly interface built to meet advanced usability needs according to Vodafone's requirements.

All search results are displayed into complex dashboards and easy to read decision trees.

Results

Implementing CyberQuest brings organizations the following benefits:

-  Multi-SIEM / multi-platform data correlation by using a set of unique algorithms
-  A dedicated search module that returns fast results after analyzing tens of millions of events in seconds
-  Unlimited built-in horizontal scalability, with no extra database costs
-  Real-time connectivity to classical SIEM systems for data feeds
-  Friendly user interface with advanced display, search and monitoring functions and customizable filters



- Efficient dashboards that support the decision making process
- Embedded reports for validating the efficiency of the control, work architectures and standards: ISO 27001, COBIT, FISMA, HIPPA, PCI / DSS, SOX
- An innovative real-time alerting system with user-defined alerts that respond to an event's specific needs for insuring great accuracy and minimum false alerts
- The Anomaly Analyzer advanced technology for detecting all anomalies
- An interactive context-sensitive administrative interface (general / network / Active Directory)

Vodafone Romania is the division of Vodafone Group Plc., one of the largest telecommunications group worldwide, which offers a wide range of integrated communication services for voice, messaging and internet. With divisions in 26 countries, 57 partner networks and broadband operations in 17 countries, the telecom operator has more than 454 million users for mobile services and 12.5 million users for broadband globally.

Vodafone brought to Romania the most advanced telecom technologies, which led to becoming a recognized innovation leader. The company implemented the first GSM network in 1997 and has been the first operator to launch 3G services in April 2005. These were followed by the next performance level: HSDPA - 3G broadband and the launch of the first mobile 4G network in Romania in October 2012.

Vodafone has been supporting the Romanian business environment by permanently innovating and developing its products and services and by making major investments in 2G, 3G and 4G data infrastructures.

About Nextgen Software

Nextgen Software is an agile European technology company that delivers innovative cybersecurity software solutions with a local team of expert programmers with over 15 years of experience in implementing IT infrastructure management and security solutions.

Our solutions ensure full visibility, compliance to international standards and regulations, and powerful analytics that keep your company safe and strong.