



RainStor embedded in AdaptiveMobile data retention solution

AdaptiveMobile is the leading mobile security provider of unified customer protection for enterprises and individuals. The company offers comprehensive proactive protection from the increasingly prominent threat of mobile viruses, malware, inappropriate content, unsolicited communications, and spam, at a corporate and consumer level. AdaptiveMobile's software works across all mobile and fixed networks, for all services, including voice, messaging, and internet content.

AdaptiveMobile Partner Overview

Challenge: Launch new message and traffic log data retention service to market quickly, to satisfy market demand.

Solution: Development of Message Retention module utilizing RainStor as underlying data management platform.

Benefits: Delivery of simple and cost-effective data retention solution to customers, with minimal development and ongoing support.

Regulations and national security legislation drive message and traffic log retention

AdaptiveMobile enables mobile operators of all sizes to protect their customers and reputation by safeguarding their services and infrastructure. In addition, mobile operators need MMS, SMS, and email retention services, and logging of browsing activity, to meet regulatory requirements without the complexity of traditional Lawful Intercept (LI) platforms. In many countries, operators are being required, under national security legislation, to maintain archives of subscribers' data traffic for access.

In addition, the growth of legislation to enforce corporate governance and industry-specific risk management, such as Sarbanes-Oxley, Gramm-Leach-Bliley, HIPPA, and BASEL-II, means corporate customers need services to archive messages and communications for their mobile devices to match the level of archiving and inspection that is in place on the corporate's fixed network, and are willing to purchase these services from mobile operators.

Cost-effective and resilient archive platform for long term data storage and management

In response to the message and traffic log retention requirements of the mobile operators, AdaptiveMobile developed their add-on Message Retention module. The core component of this module is the highly compressed and accessible archive store provided by RainStor for storing and managing the message and traffic log data. The RainStor software was seamlessly embedded in the AdaptiveMobile Message Retention module using the RainStor Software Developer Kit (SDK). This allows developers to easily integrate RainStor technology into their own applications. "Using the SDK, our developers were able to embed RainStor within the Message Retention module in a matter of weeks with minimal support," says Gareth Maclachlan, VP Products, AdaptiveMobile. "The ability for us to bring this new service to market so quickly was an important driver in our buy-versus-build decision when evaluating whether to OEM the RainStor software."



The RainStor technology allows AdaptiveMobile to provide mobile operators with a scalable and resilient platform for the long-term storage of MMS, email, SMS, and traffic logs. “When we were evaluating the data management platforms that could be used to underpin the Message Retention module, we realized that RainStor would enable our customers to store and manage historical data far more cost-effectively and simply than traditional relational databases and data warehouses,” adds Gareth Maclachlan. “In addition, it was apparent that the deployment and support of the Message Retention module at customer sites was going to be extremely straightforward, with the underlying RainStor software requiring no schema or index creation, and minimal house-keeping using standard file systems.”

Extreme data volumes require extreme data compression and scalability

Today, a key AdaptiveMobile customer uses the Message Retention module to collect and store more than 18TB of SMS and MMS data over a 3-month retention period. At peak times, the RainStor software processes more than 7000 SMS messages per second, utilizing low specification commodity servers. The ability for AdaptiveMobile to scale their customer deployments easily using RainStor’s MPP (Massive Parallel Processing) architecture is an important benefit of the RainStor software. In addition, mobile operators quickly generate Terabytes of message and traffic log data. Therefore, AdaptiveMobile’s ability to leverage the extreme data compression offered by RainStor to minimize their customers’ storage requirements is also critical.

In summary, the storage savings experienced by AdaptiveMobile customers complement the operational efficiencies that result from the low-touch and maintenance-free environment provided by RainStor. However, while the simple, cost-effective retention of message and traffic log data is a key requirement of the mobile operators, it is equally important that end-users are able to quickly and easily retrieve data for enterprise audit or personal data recovery purposes. “Using the RainStor-powered Data Retention module, mobile operators are able to query vast amounts of data using standard reporting or business intelligence tools to satisfy the discovery requests of all customer types,” comments Gareth Maclachlan. “Our customers have been very satisfied with the load and query performance of RainStor given the billions of records that must often be stored and searched.”