Anritsu Networks Co., Ltd.

Anritsu Networks uses MySQL to centralize statistical information management enabling up to 255 PureFlow devices to achieve full network visualization

> "We were able to achieve integrated management of up to 255 PureFlow devices using a single management server and also create statistical reports by embedding MySQL into our management tool "Monitoring Manager 2". With the high availability of MySQL, we have yet to encounter MySQL related problems even in mission critical environments such as those in financial instructions."
> —Mitsuru Higashiyama, Vice President, Development Department, Anritsu Networks Co., Ltd.

Anritsu Networks, established in 2006 and based out of Kanagawa, Japan, is a subsidiary of Anritsu Corporation which supports the development of cable and wireless communications for the modern age. From the very beginning this group aimed to contribute to the continued building of safe and secure social networking infrastructures in order to support a growing society with an affinity for technology and communication. With an emphasis on human networks and future technologies, Anritsu has enabled users to communicate with anyone, anywhere, and at any time through advanced IP networking technologies. These IP conversion technologies have allowed for crosslinks to legacy networks facilitating an increase in integration through the building of public systems. To support these groundbreaking technologies, Anritsu needed a database that could grow, scale, and deploy as rapidly as their company has.

Challenges

- Develop a network visualization solution to enable gathering of statistical information in order to easily create reports on Anritsu's "PureFlow" series unified network controller (UNC) product group which supports features such as WAN acceleration and bandwidth control
- Structure a system capable of creating reports at constant high speeds regardless of data size, all through a single management server to centrally manage up to 255 PureFlow series devices on over 40,000 scenario types
- Adopt a high-performance, low-cost database capable of quick and reliable implementation
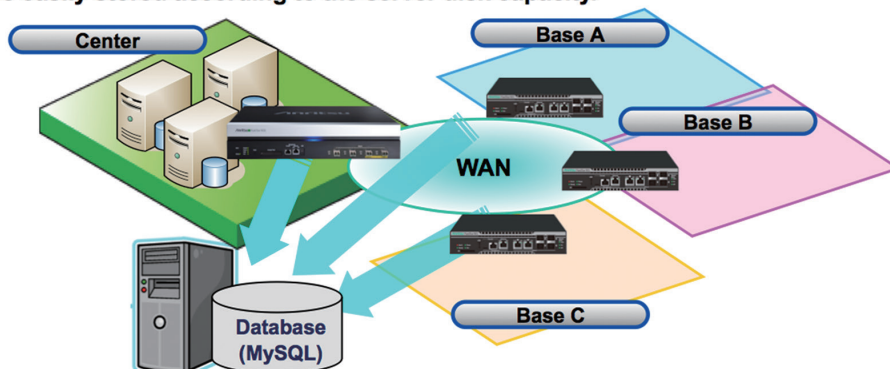
Results

- Allowed PureFlow series to achieve extreme performance by enabling the recording of over 20,000 statistical traffic records across 40,000 types of scenarios per second as well as perform the retrieval of 60,000 records per second in order to create reports
- Achieved superior network reliability across multiple network environments such as the financial and manufacturing industries which cannot afford downtime
- Enabled Monitoring Manager 2 to run across various IT environments including high-speed performance servers and individual PC servers due to MySQL's small footprint
- Maximized return on investment (ROI) and reduced overall cost by standardizing on a single yet flexible database solution capable of handling of various sized network environments
- Realized an environment that allows companies to centrally and securely manage PureFlow from single location and on a global scale
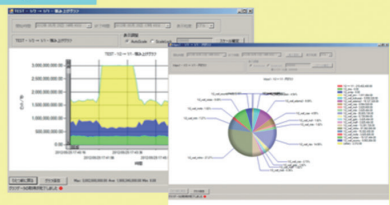
■ Integrated Management Software: PureFlow® Monitoring Manager 2

Monitoring Manager 2 is an integrated management software product capable of centrally managing traffic statistics data collected by PureFlow. This data, covering an extensive period of time, can then be easily stored according to the server disk capacity.

PureFlow® Monitoring Manager 2

- Traffic monitoring
  - By location, app
- Above threshold alert
- Statistics period report
- Top counter display, etc.

Monitoring Manager 2 can collect traffic statistic reports of up to 255 PureFlow devices in real time, creating reports while storing data in a database (MySQL).

Mitsuru Higashiyama

Vice President,
Development Department,
Anritsu Networks Co., Ltd.

Takeshi Sasai

Senior Manager, Marketing Team,
Appliance Business Unit,
Anritsu Networks Co., Ltd.

Why Oracle

"Other than meeting our requirements for reducing costs, maintaining high network reliability for our financial customers, and achieving consistent high read & write performance on large volumes of statistical information, MySQL also allows for easy implementation with a small footprint. One additional factor was that MySQL is open source software. The big benefit there that if we ever encounter an issue, we can usually resolve it on our own because of the open source code; there is also a large developer community to gain knowledge and ideas from. Finally if we do need to open a ticket, all of our past experiences with Oracle support have been extremely positive and they have lots of expertise and know-how in developing, deploying, and managing a database."
–Takeshi Sasai, Senior Manager, Marketing Team, Appliance Business Unit, Anritsu Networks Co., Ltd.

Future Plan

"We are also considering utilizing Oracle's MySQL Cloud Service in the future. Due to the increase in customer demand for PureFlow series and Monitoring Manager 2, we would like to ensure support of future technologies from Oracle such as Cloud, big data, IoT and machine learning. We think MySQL Cloud would be the best way to achieve that."
–Takeshi Sasai, Senior Manager, Marketing Team, Appliance Business Unit, Anritsu Networks Co., Ltd.

Go to Market Products

•MySQL Enterprise Edition

Oracle Customer

Anritsu
envision : ensure

ORACLE Gold Partner

Anritsu Networks Co., Ltd.

・URL：www.anritsu-networks.com/en/
・Industry：High Technology
・Customer Revenue：
　US$ 837.489 Million
　(FY2015 Consolidated)
・Employees：159