Izumino Hospital, Bouchikai

Overview:

- *Established:* July 2001
- *Number of beds:* 238
- As a major hospital in northeastern Kochi City, Izumino Hospital Bouchikai has provided community-based healthcare with 12 medical departments since being established in July 2001. The hospital is accredited by Japan Council for Quality Health Care (March, 2005. Ver. 4.0).
  Based on the hospital philosophy of 'focusing not only on disease diagnosis, but also patient examination,' the hospital is dedicated to providing secure and comprehensive patient medical care services.

Challenge:

- The hospital's existing network operated with a standard 100Mbps transmission speed using Layer 3 switches at its core; however, the speed for image data systems only supported 10Mpbs speeds. Consequently, the system was not widely used by doctors and it became essential to establish a higher-speed network environment.
- The installation of an electronic medical record system required the foundation for a highly reliable and secure network, preventing stoppage of overall medical services caused by the shutdown of medical record system in the event of a network failure. In addition, the hospital needed to protect personal and private medical information stored in electronic records.

Solution:

- For the new hospital network, Izumino Hospital adopted Allied Telesis' 'SwitchBlade® 908 and x900 series' as core switches to ensure redundancy with a VCS (Virtual Chassis Stacking) function, and all Gigabit 9400 series floor switches to provide redundant paths between 9400 series, SwitchBlade x908 and x900 series units utilizing link aggregation. This resulted in a highly reliable network and assured high-bandwidth, 2Gbps operation.
- In addition, the hospital deployed 'iBAQS-FX' network authentication appliances to further enhance network security. This provided prevention and detection of unauthorized access via use of MAC address authentication servers.

"The VCS function configured in the Allied Telesis SwitchBlade x908 and x900 series makes implementing redundancy simple compared to VRRP* or STP*. In addition, it enables easy setup and operation, and it provides flexible options for future network expansion."*

"Allied Telesis is a highly reliable company not only for its products, but also for its extensive support services. As a result of the company's prompt response and action as well as their appropriate and helpful advice, we decided to deploy Allied Telesis products as key components of our mission-critical network."

"The system maintains trouble-free stable, efficient, high-performance operation. This enables us to focus on and provide effective medical care services to patients and to provide doctors high-speed access to the image data system."

**VCS: Virtual Chassis Stacking *VRRP: Virtual Router Redundancy Protocol *STP: Spanning-Tree Protocol*