Infortrend®

National Immigration Agency (NIA) Adopts Reliable EonStor RAID Solution for their Digital Recording System



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Business:	*Taiwan National Immigration Agency (NIA)*
Challenge:	*Large capacity, cost-effective, rugged solutions for digital recording system on a tight budget*
Solution:	*EonStor® RAID subsystems met the challenge for:* *- high capacity* *- high availability* *- excellent price/performance*

NATIONAL IMMIGRATION AGENCY (NIA) of Taiwan provides immigration and naturalization services to foreigners as well as the citizens of Taiwan and investigates offenses against the Immigration Act. The organization includes four teams, five brigades, and nationwide service centers.

In order to keep track of the many immigration interviews and interrogations, NIA decided to install a digital recording system (DRS) in each of their 34 service centers to record all formal interactions taking place at every location. The DRSs would be part of a network system that would allow NIA to easily manage all digital records from a central location.

RELIABLE STORAGE ON A BUDGET

NIA required a large capacity, cost-effective, rugged storage solution to fit their particularly tight budget. The blueprint of their digital recording system included the ability to not only store video of all procedures but to also provide a way so that they can be reviewed at any time. NIA started looking at external RAID storage systems because they knew RAID

arrays could handle the tremendous amount of space required for video storage. The digital recording systems needed to be easy to manage as they would be located in the individual service centers without any network administrators onsite. Plus, the temperature and humidity at the installation sites can fluctuate so the RAID systems had to be able to operate under less-than-ideal conditions.

EONSTOR: A NATURAL CHOICE

After considering their requirements and evaluating solutions from the world's leading manufacturers, NIA decided to adopt EonStor RAID subsystems from Infortrend Technology, Inc. They purchased 34 EonStor SCSI-to-SATA RAID subsystems that connect to the DRS severs via SCSI host links.

NIA selected EonStor arrays for their ability to meet demanding requirements and their feature-rich functionality. For instance, the EonStor A16U-G2421 can house 16 750GB SATA hard drives in a 3U space, allowing NIA to store up to 12TB of data in less space.

Since NIA cannot provide a separate equipment room at its service centers, employees appreciate the EonStor systems' noise reduction and power-saving features, such as thermal and fan speed controls, when the systems are installed in the corner of the office.

GUARANTEED RAID PERFORMANCE

To insure uninterrupted 24x7 operations under a variety of conditions, the EonStor arrays are tested at all stages, including running under high temperature, vibration, and humidity.

Furthermore, Infortrend's DrvSmart™ technology constantly scans hard drives for potential bad blocks and repairs them before the defects can produce data inconsistencies. System auto-shutdown and automatic cache flush also prevent further damage. With these advanced functions, NIA can store digital records on the EonStor subsystems without worries.



16-bay EonStor RAID Subsystem

Technical specialist of Hipact Technology Inc., the system integrator for the DRS project, commented, "The EonStor systems provide good I/O performance and fast response time to clearly capture the images and conversations of the recorded events. Moreover, the subsystems are highly stable and easy to configure and manage.

"Hipact Technology strongly recommends Infortrend's RAID arrays for their excellent reliability, scalability, and availability. Their performance in aspects such as capacity expansion, system upgradeability, and technical support has far exceeded NIA's expectations and has once again become a dependable storage solution for a customer who will enjoy EonStor RAID robustness and reliability for a long time."

ABOUT NIA

Taiwan National Immigration Agency (NIA) was established on January 2, 2007. The main functions of NIA can be roughly divided into service and enforcement parts to respectively provide services to foreigners as well as the citizens of Taiwan in matters such as immigration, naturalization, and to investigate offenses against the Immigration Act. The organization includes four teams, five brigades, and service centers located nationwide.

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