Korea East-West Power Co., Ltd.

Leading energy supplier uses FalconStor VTL/SIR for enterprise-wide disaster recovery (DR) and data deduplication

Background

Korea East-West Power Co., Ltd. (EWP) was one of five power producers spun off from Korea Electric Power Corporation (KEPCO) in 2001 as part of a governmental restructuring plan of the domestic power industry. EWP generates electrical power at six locations across the country, and its installed capacity totals 9,500 megawatts. Two new 1,000-megawatt plants are under construction at a Dangjin location as well.

Challenge

IT disasters threaten service levels, power generation, and distribution

EWP has played an important role in the Korean power industry, which is a key sector for national development. Because their facilities are widely dispersed and equally critical, the IT organization felt an increasing need to establish disaster recovery (DR) centers for business continuity (BC) in the event of system failure or site-level disaster.

EWP's firm belief in change and innovation has helped them to become the force that they are today. They are resolved to continue to move forward and remain a top-tier company that leads the power generation industry by offering the best energy value. They have invested in IT with this spirit of innovation in mind. As such, they wanted an intelligent storage and data protection platform that could allow them to build a next generation IT infrastructure and DR site.

FalconStor Solution

Disk-based data protection with global deduplication

FalconStor® Virtual Tape Library (VTL) with integrated FalconStor Single Instance Repository (SIR) is a comprehensive solution that optimizes backup and restore, and provides data deduplication to maximize resource utilization, enable centralized data consolidation, improve replication bandwidth efficiency, and simplify data export from virtual to physical tape.

EWP adopted FalconStor VTL with SIR to implement a DR strategy including setting up a remote DR site and leveraging global data deduplication to eliminate redundant data across the organization. FalconStor VTL enables remote replication for DR through an existing WAN. By replacing traditional manual transportation with network transfer and data encryption, FalconStor VTL lowers tape management costs and the risks of data loss. FalconStor VTL supports both one-to-one and many-to-one replication configurations to enable tape infrastructure consolidation at a centralized data site.

FalconStor SIR is a unique global data deduplication solution that improves manageability and scalability by supporting up to four nodes in a performance cluster available to all FalconStor VTL nodes, with built-in N+1 failover. The SIR deduplication engine allows EWP to either schedule deduplication to run concurrently with backup or after the first backup completes, reducing storage costs without impacting the backup window.

Industry

Energy/Utilities

IT Environment

- Line of Business (LOB) systems
- Customer self-services web system
- MIS systems
- Internet portal

Challenges

- Needed a DR center to protect data
- High WAN bandwidth costs for traditional remote replication
- Isolated LAN-based backup of data was management-intensive

FalconStor Solution

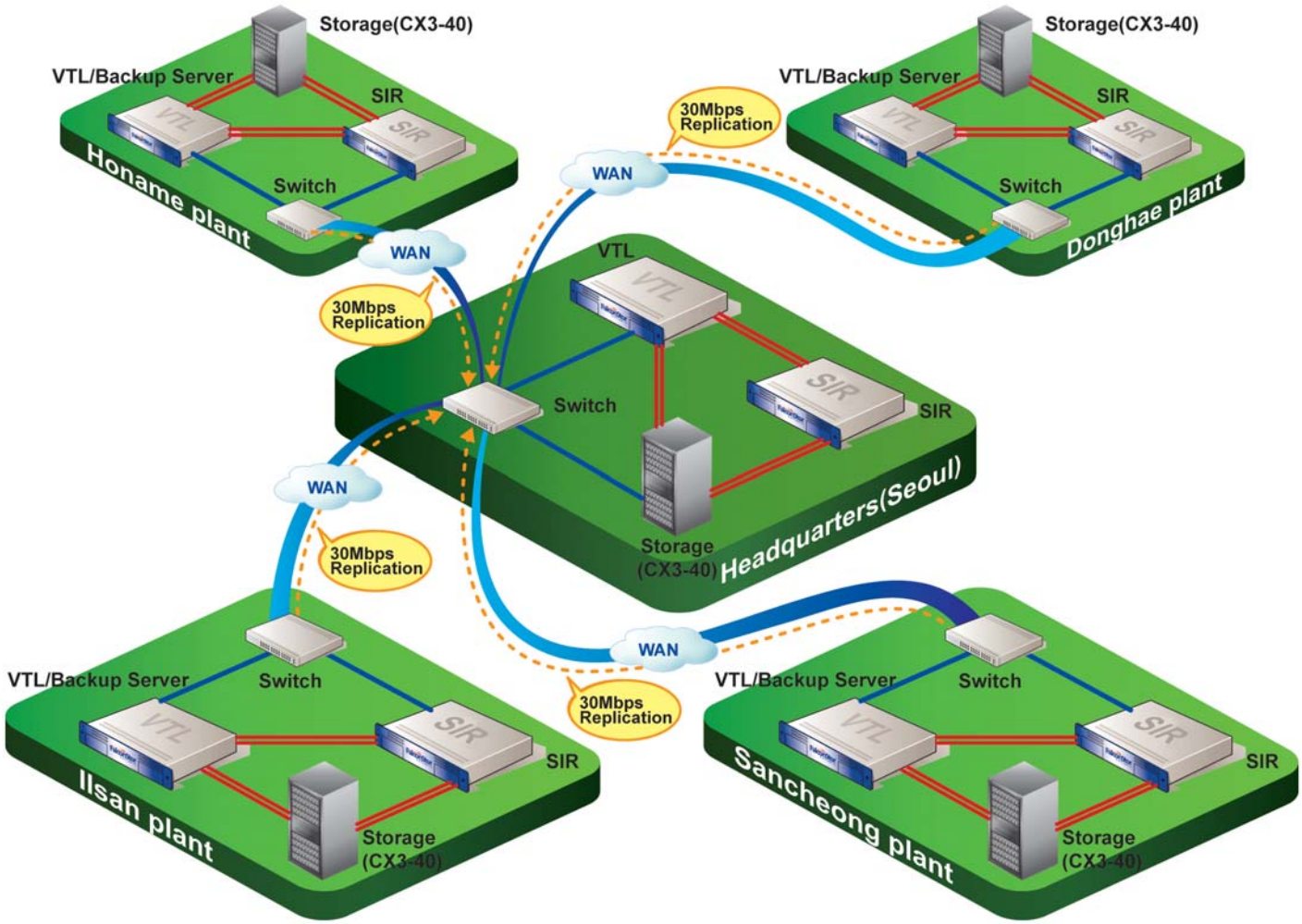
FalconStor VTL Enterprise Edition
with FalconStor SIR data deduplication

- Replication option with compression and encryption

Benefits

- Increased storage efficiency, data availability, and business continuity
- Optimized storage utilization and minimized bandwidth requirements
- Lowered network traffic by 95%
- Flexible, scalable next-generation DR infrastructure
- Reduced DR and management costs

Many-to-one DR system leveraging FalconStor VTL with integrated global deduplication



System Configuration

- 5 FalconStor VTL/SIR appliances
- EMC NetWorker 7.3.2
- 5 EMC storage CX3-40 (21 TB in total)
- 45 application servers

Benefits

Intelligent data protection platform ensures business continuity

By deploying FalconStor VTL with SIR as the intelligent data protection platform for their DR environment, EWP has significantly increased storage efficiency, business continuity, and data availability.

During remote replication, only unique data blocks are replicated to the remote site, reducing network traffic by as much as 95% based on a 20:1 deduplication ratio. This helps reduce network traffic and DR costs.

In order to further reduce storage infrastructure costs, EWP's IT division now consolidates data from four distributed sites to the data center. The flexibility of FalconStor VTL makes it easy for the company to grow and continually scale its storage and DR infrastructure over time.

FalconStor VTL with SIR has played an important role in helping EWP build a next-generation data storage environment and write a new chapter in the history of the Korean energy industry.

For more information, visit www.falconstor.com or contact your local FalconStor representative.

Corporate Headquarters
USA
+1 631 777 5188
sales@falconstor.com

European Headquarters
France
+33 1 39 23 95 50
infoeurope@falconstor.com

Asia-Pacific Headquarters
Taiwan
+866 4 2259 1868
infoasia@falconstor.com

FalconStor Software