

Customer Success

Nari Group Information Systems Integration Corporation

Nari embraces the Era of Hyper Convergence with Veritas

China State Grid Corporation, a vital part of China's national economic lifeline and the safeguard of national electric power energy. Nari Group Information Systems Integration (Nari Integration) under China State Grid Corporation is responsible for the R&D of its information communication solutions, design and services of overall infrastructure. When the national power network data security takes supreme priority, the security of information system is undoubtedly at top level. Nari is dedicated to strengthening core business value and accelerating innovation, Nari Integration leverages Hyper Convergence by integrating industry's leading information management technologies to optimize enterprise information systems and protect most valuable asset-data, thereby accomplishes its mission of rendering a safer, more economical and sustainable electric power supply ecosystem.



NARI

ORGANIZATION PROFILE

- Website: <http://www.sgepri.sgcc.com.cn>
- Industry: Energy
- Headquarters: Nari Group
- Number of employees: 17,000

Transform to digitization

Global energy network, unified business data center, sourced grid load interaction, smart grid.....Today's energy industry is facing many new challenges. Nari Integration, as the provider of state grid systems integration and software, is the one who solves the puzzles in building a complexed information structure.

Nari Group offers informatization architecture solutions to users in power industry. In recent years they came to realize that it's getting more and more difficult in system supports. Furthermore, to meet all user demands, the business volume of the state grid increases rapidly, which heavily increases complexity in supporting the relevant businesses. While data grows exponentially, the ability to analyze data is obviously insufficient. With the drastic increase of volume in data storage, many application systems are facing the bottleneck of storage accessibility. Complexity of administration ramps up along with the deployment of new technologies. What is more worrisome is less benefit despite of hefty IT investment.

If to continue using the traditional construction mode, the following problems ought to be addressed: low usage of CPU, insufficient concurrent processing ability, difficulties in manage complex systems.....

Base on rich industry experience, Nari Integration decided to pursuing a more innovative approach by adopting the solution of "on-demand customization + in-depth integration" : through the in-depth integrations of IT infrastructure, such as servers, switches, storage, high-performance IO, operating systems and database, and configuring relevant parameters with the most practical values, the solutions featuring a complete convergence of in-depth software and hardware are designed to truly fit the actual business needs of enterprises, eliminate bottleneck to achieve the optimal balance, and fully support enterprise information infrastructure through platform extension.

Key challenges

According to the particularity of the power industry and the high requirements on data security, Nari Group needs to choose the advanced and secure solutions to the modern infrastructure in the market carefully.

- IT industry has stopped purchasing Unix servers.
- The state grid business volume rises rapidly.
- Many application systems face the bottleneck of storage access performance
- Stored data volume increases dramatically

Solutions

- Veritas InfoScale™ FSS solution
- Veritas InfoScale™ DST solution
- Veritas NetBackup™ (backup and recovery) solution
- Veritas NetBackup™ Appliance

Benefits

- Storage performance up to 1 million IOPS
- Application performance improved by 3 times
- Reliability of 99.999%
- Cost lower than 50% of the TCO of traditional Unix server+ high-end storage

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“In consideration of the security of national power network data, we combine and integrate market’s cutting edge technologies, and apply application knowledge in our industry, “seal” them in the application boxes, by looking into to the specific requirements of each different user and project, we then provide to our industry users who have extremely high standards in terms of technology and security.”

Xu Ji
CTO

Nari Group Information Systems Integration Corporation

Veritas Infoscale™, strong support to Ruiteng high performance computing platform

Inspired by the concept of hyper convergence architecture, Nari Integration created Ruiteng high performance computing platform, which empowers user to flexibly configure calculation and storage nodes according to user’s actual requirements. Its read operation successfully enables extremely short IO path directly from PCI-E bus, supporting cool-hot tiering with dynamic migration and different databases, with over 1 million IOPS thermal layer IO capability.

Even the minimal configuration can store more than 60TB data. It takes just 15 minutes to input 1.5TB data via data pump, 8 minutes to recover 1.5TB data via RMAN, 8 seconds for grouping statistics of a 100G data table, 7 seconds to scan a 100G data table, and merely 25 seconds to index on a 100G gigantic data table. All these statistics demonstrate the excellent computing ability of Ruiteng platform.

“In order to let data effectively work in business, it is necessary to build an on-demand customization and in-depth integration information systems which is closer to enterprises’ actual business needs. More than a decade ago, we have already chosen to leverage Veritas NetBackup™, Veritas leading backup and recovery technology, later on Veritas NetBackup™ Appliances and Veritas Infoscale™ solutions are also identified and used for our data backup, storage and disaster recovery solutions.”



Xu Ji
CTO

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Similarly, Veritas Infoscale™ FSS is selected and integrated into Ruiteng high-performance computing platform to manage core storage and data tiering.

As a pioneer of software-defined storage, with more than 10 years mature technologies, Veritas is always able to provide its users with the storage performance close to the hardware limit in the hyper convergence architecture: with reliability up to 99.999%, application performance improved by three times, storage performance of 1 million IOPS. Hierarchical storage-based technical features guarantee the cost performance of overall solution, with its cost reduced up to 50% by comparing with those of traditional Unix server + high-end storage solution .

Harness the Power of Information to Win the Future

Practice is the only criterion for truth. Nari Integration's practice is a proven success for its long term customer satisfaction, it's also well exemplifies the core value of Veritas Infoscale™ as a resilient storage architecture. Integrate and converge leading solutions to meet enterprises' business demands, not only effectively offer enterprise users with the most advanced technologies, more importantly, accelerate the convergence in data and business to retain customers with high quality services.

For more information:

Please contact local Veritas sales representatives or partners, or visit:

[Veritas NetBackup™](#)

[Veritas NetBackup™ Appliance](#)

[Veritas Business Continuity](#)

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