Product Description

SOLIDserver DDI for DNS, DHCP and IPAM

SOLIDserver™ Product Series is designed to provide high-performance solution for important IPAM-DNS-DHCP-NTP-TFTP service.

SOLIDserver™ has good advantages of network service, architecture performance, stability, recovery, and security.

This solution is based on a wide range of software & hardware models that meet various requirements of small-to-large enterprises.

SOLIDserver™ operating system features excellent stability, manageability, scalability, and security. It has all components and functions essential to reduce an operating cost and simplify establishment and management.

- Zero Management Database: No data damage, error, or loss
- Robust operating system
- Stateful firewall built-in
- Network service: DNS(Domain Name System), DHCP(Dynamic Host Configuration Protocol), NTP(Network Time Protocol), TFTP(Trivial File Transfer Protocol)
- Centralized IPAM built-in function for registering, provisioning, planning, and managing the total life cycle of IPv4/IPv6 address assignment and naming service
- Management of many DNS & DHCP service of many different manufacturers, such as Microsoft, ISC, and SOLIDServer™
- System monitoring and log management

Key Benefits

- Design and distribute Cost-efficient, integrated, and highly-available security DNS, DHCP, IPAM, and VLAN service.
- The intelligent policy based automated establishment helps to efficiently support your company growth and improve your productivity.
- Improved network reliability and security by errorless setting, centralized management and exemplary cases
- Complete preparation for IPv6 and IPv4 / IPv6 coexistence or conversion
- Operating cost saving
- Efficient team work through smart work and workflow
- Problem prediction through precautionary service monitoring, user definition report and tracking
Unrivalled IP address management

SOLIDserver™ is the comprehensive appliance based solution for managing the global life cycle of IP addresses, such as provisioning and distribution & monitoring in organization. EfficientIP provides the global IPAM solution for a core network service.

Global Visibility
With SOLIDserver™, it is possible to manage IP infrastructure, monitor network service, and have operation access rights for basic IP data. SOLIDserver™ uses limited search criteria to restricting hierarchical tree dependence for unlimited data visibility and provides an unique and accurate method for data access.

IPAM policy based rules application
The secret of successful establishment of IP resources is to let users follow exemplary cases. With a user’s IPAM policy based on object inheritance, user defined class, template and rules, it is possible to easily achieve an object and automate triggered work.

Accordingly, the complexity of IPAM process is removed, and a user is able to get its friendly application by applying an automated policy.

- Simple resource verification with the use of templates
- Resource consumption component
- Rationalization of resource components
- Automation of name rules
- Map an IP plan in line with your organizational requirements.

Automated distribution work with the use of DDI
SOLIDserver™ is designed to provide extended APIs and all necessary tools to make easier the private cloud service combination.

Built-in DDI orchestration process is able to easily adjust GUI so that it is possible to hide the complexity of multi-vender/multi-tenant DNS / DHCP environment and extend the basic operations along with a user’s policy.

Therefore, it is able to enhance provisioning process, increase the visibility of cloud platform, and raise the ability of service implementation.

100% web-based GUI
The management GUI of SOLIDserver™ is used to manage SOLIDserver™ appliance, compatible other venders’ DNS and DHCP servers in a centralized or individual way.
Unrivalled IP address management

In compliance with web standards and 100% application of universal web technology, Responsive Web Interface is provided so as to automatically change depending on a user’s browser size.

Since there is no dependence between web client and SOLIDserver™ appliance, no cost for updating occurs to users.

With the use of this interface, an authorized user is able to configure SOLIDserver™ (configuration, update, backup & monitoring, or execute management work related to IPAM, DNS or DHCP.

Global control for management improvement

SOLIDserver™ guarantees DNS-DHC server configuration and consistency of IPAM data in order to remove the risks of setting error, IP address or subnet duplication.

- Guarantee data consistency
- Solve the problem with IPAM storage and operating network
- Search for the devices not approved in network
- Collect IP address and ports not used
- Plan outsourcing and workflow depending on an corporate organization

Integrated IPAM and DNS-DHC management

SOLIDserver™ guarantees the best quality and efficiency and dynamically conducts integrated management of IPAM with DNS and DHCP in a single process. Accordingly, a network administrator’s work greatly is lessened and simplified.

For example, with the use of a range of IP addresses assigned to DHCP service, it is possible to create 24 subnets at once.

All configurations are automatically executed by SOLIDserver™, DNS and DHCP service can be configured depending on specified options.

SmartArchitecture™: DNS-DHC service management in the level of architecture

EfficientIP provides SmartArchitecture™, the unique technology for simplifying and automating the design, distribution and management of DNS and DHCP service intelligently.

SmartArchitecture™ of SOLIDserver™ is the advanced policy based template of DNS and DHCP architecture.
Advanced DNS service

I DNS security: Detection - Protection - Improvement
DNS Guardian, which is the solution to completely understand traffic, monitors DNS cash operation in the level of transaction in order to obtain end-to-end visibility.

Through real-time transaction analysis, it is possible to determine a particular signature of different DNS attacks, take proper measures, and start improvement work.

Hybrid DNS engine provides three types of service (Bind, NSD, and Unbound) in order to easily change standard DNS technology to a different DNS technology when the DNS server in use has security failover.

DNS Blast is the DNS cash device that supports up to 17 million queries per second and can absorb the traffic flow from DDoS attack.

DNS Cloud is able to integrate Amazon Web Services Route 53 and manage in-office and cloud DNS infrastructure in a single management console.

DNS firewall detects and blocks malware activities, identifies an infected device, and prevents a new attack.

DNSSEC automation: SOLIDserver™ automates and simplifies the integration of DNSSEC for DNS and removes the complexity of configuration and the risk of incorrect setting.

Stealth DNS architecture setting and configuration can be complete quickly and easily without any knowledge for distributing the advanced DNS architecture.

The most robust DHCP service

I High availability of DHCP supporting Active-Active Failover
SmartArchitecture™ of EfficientIP guarantees the continuity of DHCP service in the unique access method of service high-availability and performance. SOLIDserver™ provides highly available architecture with Active-Active mode for DHCP service.

- Auto setting with no need of management
- Immediate activation
- Distribution between remote sites

Automated configuration makes it possible to guarantee service availability and optimize performance.

- DHCP Star failover
- 1:1 DHCP failover
- DHCP cluster
- Microsoft® DHCP Split Scope

I Protection against Denial of Service attack
EfficientIP has SOLIDserver™ appliance technology built in to analyze DHCP requests and identify an improper client’s request for a network administrator.

SOLIDserver™ ignores an incorrect request so as to prevent DHCP service from being stopped.
There are 9 types of EfficientIP products in terms of DNS, DHCP and IPAM services depending on a customer’s particular requirements.

1. **SOLIDserver™ 50**: DNS-500 qps (query per second), DHCP-20 rps (request per second).
   - DNS and DHCP only supported; Good for small offices

2. **SOLIDserver™ 260**: DNS-7,000 qps; DHCP-125 rps. Good for small offices and branch offices

3. **SOLIDserver™ 550**: DNS-25,000 qps; DHCP-500 rps. Good for small and middle business

4. **SOLIDserver™ 1100**: DNS-50,000 qps; DHCP-1,000 rps. Good for medium sized business

5. **SOLIDserver™ 2200**: DNS-125,000 qps; DHCP-2,500 rps. Good for large companies

6. **SOLIDserver™ 3300**: DNS-250,000 qps; DHCP-6,000 rps. Good for large companies, data centers, and ISPs

7. **SOLIDserver™ 4000**: DNS-3,000,000 qps; Good at high-performance and DNS security service (IPAM and DHCP excluded)

8. **SOLIDserver™ 5000**: DNS-10,000,000 qps; Good at high-performance and DNS security service (IPAM and DHCP excluded)

9. **SOLIDserver™ 5500**: DNS-17,000,000 qps; Good at high-performance and DNS security service (IPAM and DHCP excluded)

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**EfficientIP Solution**

EfficientIP Solution is able to meet an organization’s requirements to improve business efficiency through its innovative IT.

DNS-DHCP-IPAM integrated management framework for device and network configuration improves security, availability, and agility of IT infrastructure.

EfficientIP Solution is selected and used by hundreds of customers with various requirements in all industries.

**Domestic Distributor**

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