efficient iP™
DEFINING SMART DDI

Product Description

SOLIDserver DDI for DNS, DHCP and IPAM

Key Benefits

- Design and deploy cost-effective, integrated, highly available and secure DNS, DHCP, IPAM and VLANs services.
- Efficiently support your company's growth and improve productivity with intelligent policy-driven deployment automation.
- Increase network reliability and security with error-free configurations, centralized management and best practices enforcement.
- Get ready to IPv6 and lead the IPv4/IPv6 coexistence and transition.
- Decrease operating costs.
- Team work efficiency with smart tasks delegation and work flow.
- Anticipate problems with pro-active services monitoring, user-defined reports and tracking

SOLIDserver™ suite of appliances is designed to deliver high-performance solutions for critical IPAM-DNS-DHCP-NTP-TFTP services. SOLIDserver™ provides vital benefits for performance, reliability, resiliency and security of your network services architecture.

The solution is based on a wide range of software and hardware models to match varying requirements, from small branch offices, to the largest enterprises.

The SOLIDserver™ operating system is reliable, manageable, scalable, and secure. It includes all the required components and features to simplify deployment and management while reducing operational costs.

- Built-in zero administration database: no data corruption, errors, or loss
- Hardened Operating System
- Embedded stateful firewall
- Network services: DNS (Domain Name System), DHCP (Dynamic Host Configuration Protocol), NTP (Network Time Protocol), TFTP (Trivial File Transfer Protocol)
- Centralized IPAM Built-in functionalities allowing registration, provisioning, planning and management of the full life-cycle of IPv4/IPv6 addressing and naming services.
- Multi-vendor DNS & DHCP services management Microsoft – ISC – SOLIDServer™
- System monitoring and log management

Unparalleled IP Address Management

SOLIDserver™ is a comprehensive appliance based solution to manage the global life-cycle of IP addresses from their provisioning and their organization to their deployment and monitoring. EfficientIP provides a global IPAM solution for critical core network services ensuring:

Global Visibility

SOLIDserver™ allows you to have operational access to fundamental IP data as well as the ability to manage your IP infrastructure and monitor your network services. SOLIDserver™ offers a unique and more accurate way to access your data with a transverse view with unilimited search criteria that limits hierarchical tree dependences for unrestricted data visibility.

Enforce your rules with IPAM policies

The key to success in the deployment of IP resources is having users to comply with best practices. By embedding your own IPAM policies using custom classes, templates and rules while exploiting object inheritence you can easily achieve this objective or even go further automating triggered actions.

You therefore mask the complexity of IPAM related processes and deliver a user-friendly application guiding users through an automated policies enforcement.

- Streamline resource qualification with templates
- Organize resource consumptions
- Rationalize resource configurations
- Automate your naming conventions
- Map IP plan organizations to fit your company's organizational needs

Automate deployment workflow using DDI

SOLIDServer is designed to provide you with an extended API and all the necessary tools to make your private cloud service orchestration easier.

Embedded DDI orchestration processes are easily tunable through GUI, allowing you to extend default behaviors according to your own policies while masking the complexity of driving multi-vendor/multi-tenant DNS/DHCP environments.

You therefore gain in service deployment agility while increasing the visibility on your cloud platform enhancing your provisionning process.

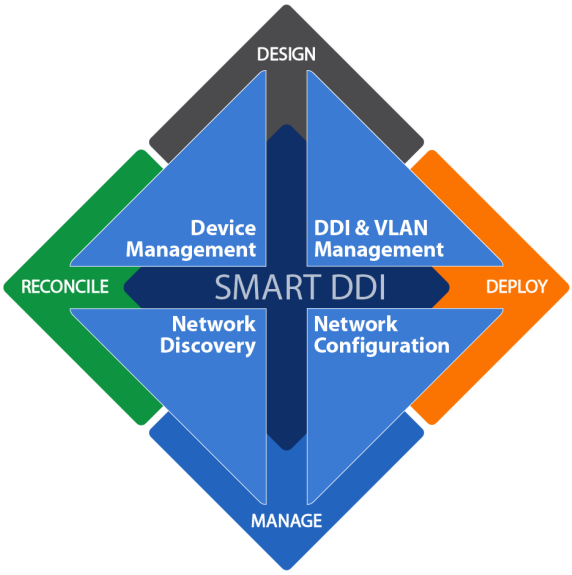
100% Web Based GUI

The SOLIDserver's management GUI is used to manage centrally or indivdually SOLIDServer appliances and compatible multi-vendor DNS and DHCP servers.

It is 100% web based relying only on standardized, widely used, web technologies offering a reactive interface.

Therefore, as there is no dependency between the web client and SOLIDservers appliance, updates are transparent to the user, instantaneous and free of cost.

Authorized users can use this interface to configure SOLIDServers (configuration, updates, backups and monitoring) or perform administrative tasks related to IPAM, DNS or DHCP management.



Global Control to Improve Management

SOLIDserver™ ensures overall consistency of DNS-DHCP server configurations and IPAM data in order to eliminate all risks of conflicting configurations, duplicate IP addresses or subnet overlaps.

- Ensure global data consistency
- Resolve conflicts between the IPAM repository and network reality
- Discover unauthorized devices on the network
- Reclaim unused IP addresses and ports
- Plan delegation and Work Flow according to the company organization

Integrated IPAM and DNS-DHCP Management

SOLIDserver™ ensures a dynamic and integrated management of IPAM with DNS and DHCP services in a single process, ensuring the highest level of quality and efficiency. The tasks of network administrators are therefore dramatically reduced and simplified.

For instance, it is possible to create a /24 subnet, in one

operation, with IP ranges allocated to DHCP services. All configurations will be carried out automatically by SOLIDserver™ and will configure DNS and DHCP services according to specified options.

SmartArchitecture™: Manages DNS-DHCP Services at the Architecture Level

EfficientIP offers the SmartArchitecture™, a unique technology to intelligently simplify and automate design, deployment and management of vital DNS & DHCP services.

SOLIDserver™'s SmartArchitecture is state of the art consistent policy-driven templates of DNS & DHCP architectures.

State-of-the-Art DNS Services

DNS is a mission critical network service. Without it, every other service, utility and application simply can't function. The critical nature of the DNS and the opportunity to cripple a business and/or network at a single point of failure puts DNS as a target for network attacks. Every DNS outage is costly in terms of decreased productivity, increased cost and lost revenue. The risk caused by not having a hardened DNS deployment impacts future business and reputation. Without question, IT organizations must take every action to design, implement, and pro-actively manage and secure redundant, and reliable DNS services.

EfficientIP offers a SOLIDserver™ suite of reliable DNS appliances that address security, reliability, and stability and it is delivered with end-to-end automation.

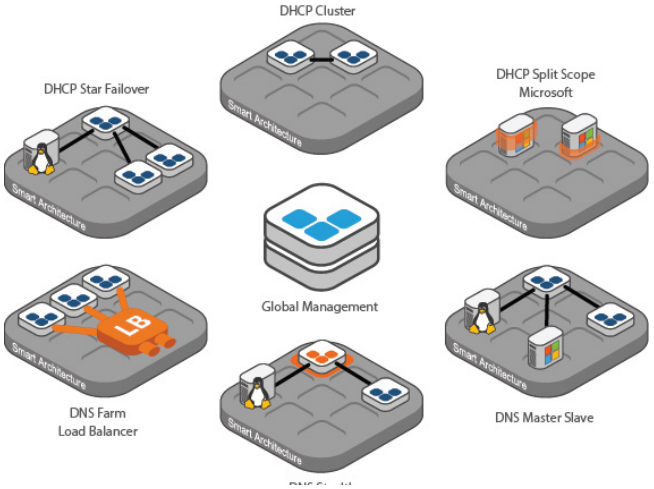
Flexible DNS Architecture Deployment and Management

EfficientIP simplifies the design, deployment, and administration of multi vendor DNS services through a policy driven approach. SmartArchitectures™ are templates of DNS architecture that automatically apply best practices to configure the initial server setup (DNS Master-Slave, Multi-Master DNS, Stealth DNS, DNS Load Sharing), and then manage the architecture as a single, integrated deployment. SmartArchitectures™ ensure reliable and secure DNS services, which is the foundation of your network infrastructure. Deploying DNS and DHCP services is now fast, easy and secure.

Automated Failover Deployment for Service Continuity

EfficientIP's SmartArchitecture™ delivers flexible DNS failover designs, for local and/or remote sites, enabling automated deployments, ensuring services availability, and optimizing performances.

- No DNS time out
- High scalability with unlimited number of servers
- Compliant with Best Practices



DNS Security: Detect - Protect - Remediate

DNS Guardian monitors DNS cache-recursive activity at the transaction level to get end-to-end visibility on resolutions for complete understanding of the traffic. The real-time transactions analysis will allow you to determine specific signatures of different DNS attacks, take appropriate counter measures and initiate remediation actions.

Hybrid DNS Engine offers 3 technologies (Bind, NSD, Unbound) in 1 appliance to eliminate single point of failure following security alerts on standard DNS technologies.

DNS Blast is a DNS cache appliance that can support up to 17 millions queries per second and can therefore absorb any traffic flow coming from DDoS attacks.

DNS Cloud integrates Amazon Web Services Route 53 and provides you the ability to manage an in-house and cloud DNS infrastructure from a single management console.

DNS Firewall detects and blocks malware activity, identifies infected devices and prevents new attacks.

DNSSEC Automation: SOLIDserver™ automates and simplifies the integration of DNSSEC on DNS servers, eliminating the complexity of configuration and the risks of misconfigurations.

Stealth DNS architecture set up and configuration is quickly and easily completed and without the need of any special or specific DNS expertise required to deploy state of-the-Art DNS architecture.

Highly Robust DHCP Services

DHCP High Availability with Active-Active Failover

EfficientIP's SmartArchitecture™ ensures DHCP services continuity through a unique approach combining service high availability and performance. SOLIDserver™ supplies high availability architecture for DHCP services in active/active mode.

- Zero-Admin deployment: Automatic configuration
- Instantaneous activation
- Deployment across Remote sites

It enables automated deployments, ensuring services availability and optimizing performances.

- DHCP Star failover
- DHCP failover one-to-one
- DHCP cluster
- Microsoft® DHCP Split Scope

Protection Against Deny of Service Attacks

EfficientIP has embedded intelligence in its SOLIDserver™ appliance to analyze DHCP request behaviors and identify inappropriate client requests to inform network administrators. SOLIDserver™ then prevents an interruption of DHCP services by ignoring bad requests.

SOLIDserver™ Appliances

To fulfill each customer's specific needs, EfficientIP's suite of appliances include 9 models with different levels of performance for IPAM and DNS – DHCP services.

1. **SOLIDserver™ 50:** DNS-500 qps (query per second); DHCP-20 rps (request per second). Designed for deployment in local offices. DNS & DHCP only.

2. **SOLIDserver™ 260:** DNS-7,000 qps; DHCP-125 rps. Designed for deployment in small enterprise or branch office.

3. **SOLIDserver™ 550:** DNS-25,000 qps ; DHCP-500 rps. Designed for deployment in small to medium enterprises.

4. **SOLIDserver™ 1100:** DNS-50,000 qps ; DHCP-1,000 rps. Designed for deployment in medium-sized enterprises.

5. **SOLIDserver™ 2200:** DNS-125,000 qps ; DHCP-2,500 rps. Designed for deployment in medium to large sized enterprises.

6. **SOLIDserver™ 3300:** DNS-250,000 qps ; DHCP-6,000 rps. Designed for deployment in large enterprises, Data Centers and service provider environments.

7. **SOLIDserver™ 4000:** DNS-3,000,000 qps. Designed for high performance and DNS security, doesn't include IPAM or DHCP functions.

8. **SOLIDserver™ 5000:** DNS-10,000,000 qps.

Designed for high performance and DNS security, doesn't include IPAM or DHCP functions.

9. **SOLIDserver™ 5500:** DNS-17,000,000 qps. Designed for high performance and DNS security, doesn't include IPAM or DHCP functions.

ABOUT EFFICIENTIP

EfficientIP solutions address organizations' needs to drive business efficiency through the innovative use of IT. Its unified management framework for DNS-DHCP-IPAM, devices and network configurations enhances security, availability and agility of the IT infrastructure. EfficientIP's solutions have been chosen by hundreds of the most demanding organizations across all industries.
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