

## 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

## Product Description

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### SOLIDserver DDI for DNS, DHCP and IPAM

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SOLIDserver<sup>TM</sup> suite of appliances is designed to deliver high-performance solutions for critical IPAM-DNS-DHCP-NTP-TFTP services. SOLIDserver<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup>
- 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 unlimited 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 comply with best practices. By embedding your own IPAM policies in your IPAM solution, you can easily achieve this objective in. You can mask the complexity of IPAM processes and deliver a user-friendly application which guides users through automated IPAM 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

### 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.

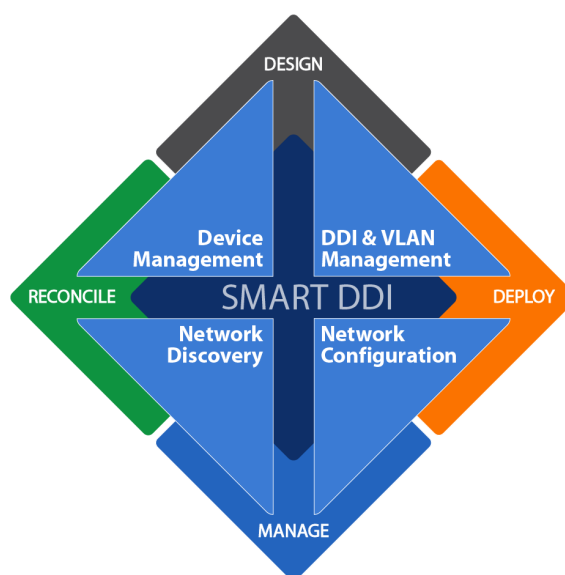
- Ensure global data consistency
- Resolve conflicts between the IPAM repository and network reality
- Discover unauthorized devices on the network
- Reclaim unused IP addresses and ports
- Plan delegation and Work Flow according to the company organization

### 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.

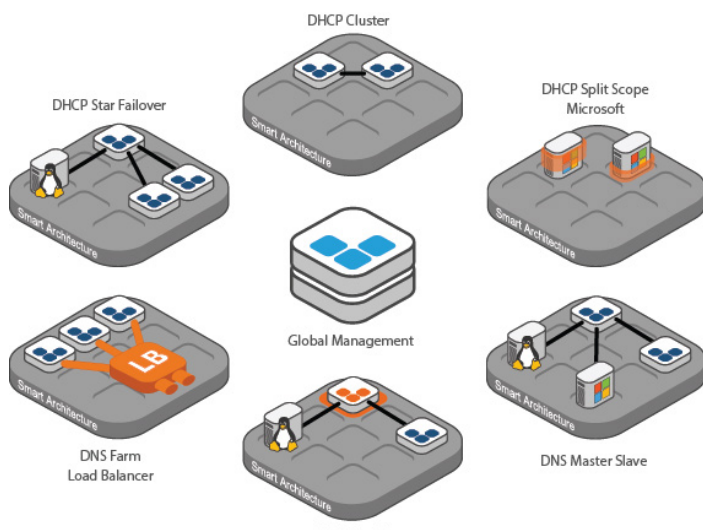
### Automated Failover Deployment for Service Continuity

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

### Security Mechanisms to Protect Against DNS Services Attacks

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 supports up to 17 millions queries per second and per appliance 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.

## 100% Web Based GUI

The SOLIDserver™ GUI is 100% web based. Thanks to the product's use of standardized and widely used technology, the deployment and updates of the clients are easy, instantaneous and at free of cost. There is no dependency between the web client and SOLIDservers™ appliances.

The GUI can be used to manage an appliance locally, and also to manage remote appliances or multi-vendor DNS and DHCP servers from a central SOLIDserver™ appliance. The EfficientIP GUI enables the management of various administrative tasks from IPAM, DNS and DHCP to system management tasks such as updates, backups, disaster recovery and monitoring.

## SOLIDserver™ Appliances

To fulfill each customer's specific needs, EfficientIP's suite of appliances include 7 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.
2. SOLIDserver™ 250: DNS-7,000 qps (query per second); DHCP-125 rps (request per second). Designed for deployment in small enterprise or branch office.

3. SOLIDserver™ 500: DNS-25,000 qps ; DHCP-500 rps. Designed for deployment in small to medium enterprises.
4. SOLIDserver™ 1000: DNS-50,000 qps ; DHCP-1,000 rps. Designed for deployment in medium-sized enterprises.
5. SOLIDserver™ 2000: DNS-75,000 qps ; DHCP-1,500 rps. Designed for deployment in medium to large sized enterprises.
6. SOLIDserver™ 3000: DNS-125,000 qps ; DHCP-2,500 rps. Designed for deployment in large enterprises, Data Centers and service provider environments.
7. SOLIDserver™ 5000: DNS-10,000,000 qps. Designed for DDoS attack mitigation, doesn't include IPAM or DHCP functions.
8. SOLIDserver™ 5500: DNS-17,000,000 qps. Designed for DDoS attack mitigation, 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.

[www.efficientip.com](http://www.efficientip.com)

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