

# 5 Reasons Why EfficientIP DDI is Better

Evolving networks and acceleration of strategic IT initiatives have caused IT infrastructure to become incredibly complex to manage and to secure. The consequences of this are important – inaccurate configurations, slow service rollout, loss of control, weaker security, reduced resilience, and siloed incorrect data.

DDI (DNS-DHCP-IPAM) plays a big part in helping mitigate these risks, as it is foundational for managing apps and networks - DNS routes users to their apps - DHCP enables devices to connect to networks - IPAM consolidates IP data into a central repository & manages the IP Address plan.

But not all DDI solutions are equal.

## **Issues Encountered By Organizations Who Have Implemented a DDI From Other Vendors**

- complex administration and siloed management of appliances and configurations
- difficulty coping with a mishmash of too many function-specific appliances
- DDI licensing costs spiraling out of control
- upgrades always being a big headache
- IPAM solution having a limited level of flexibility

EfficientIP's SOLIDserver DDI gives you a smarter choice, designed to boost efficiency, lower costs, and reduce risks. Trusted by over 1,000 customers worldwide, SOLIDserver stands out thanks to its:

- **Simpler, more scalable architecture** for streamlined operations
- **Greater flexibility** to adapt and customize to your needs
- **Broader policy enforcement** for stronger governance and compliance
- **Stronger, more efficient DNS security** to protect against evolving threats
- **Proven, cost-effective TCO** delivering long-term value

### **Seamless, Risk-free Migration to EfficientIP DDI**

With proven expertise, experience, and technology, EfficientIP ensures your transition is smooth and stress-free. There is no need to change the way you work, we simply make it simpler.

Having delivered countless successful migrations and deployments worldwide, our team is ready to design, migrate, test, implement, and deploy your new, enhanced DDI solution with confidence.

Driven by a customer-first culture, we take the time to understand your business goals and are fully committed to making your move to EfficientIP easy and error-free.

## **Customer Testimonials**

**"We needed a solution that could support all of our facilities together, on Linux, onsite. Our current solution was also becoming far too expensive to maintain."**

Daniel Erlendson, IT Manager - **NEVADA DEPARTMENT OF CORRECTIONS**

**"The easy option would have been to carry on with Infoblox, but financially, it made sense to go with EfficientIP. Their DDI solution was three times less expensive and more feature-rich."**

Justin Michell, Network Engineer - **MANCHESTER METROPOLITAN UNIVERSITY**

**"Business needs were 100% covered by EfficientIP [...] 99.999% uptime of the DHCP service [...] easily manageable via intuitive GUI and API-calls."**

Koen VAN CAUWENBERGHE, Solution Engineer - **PROXIMUS**

# 5 Reasons

## to Choose SOLIDserver DDI

Moving to EfficientIP's leading integrated DDI solution will future-proof your infrastructure by bringing:

### 1 Simplified management of DDI services from a unified and consistent interface

EfficientIP's [SOLIDserver™ DDI](#) delivers an integrated DNS, DHCP, and IPAM (DDI) solution that gives administrators complete visibility and control of their IP infrastructure from a single pane of glass. From appliance configuration and user management to DNS and DHCP operations, everything is managed through a unified, consistent interface across all modules. With Multi-Vendor DNS and DHCP Management, organizations can centrally control and manage heterogeneous environments in overlay, ensuring consistency, reducing complexity, and streamlining operations.

At the core, [SmartArchitecture™](#) simplifies and automates the design, deployment, and management of multi-vendor DNS and DHCP services across EfficientIP appliances, Microsoft® Windows DNS & DHCP, ISC BIND/DHCP on Linux, and native cloud DNS such as Azure DNS and AWS Route 53. Predefined, policy-driven templates enforce security, standardization, and best practices, while abstraction of core services from the underlying hardware accelerates operations, simplifies management, and minimizes the effort required for server replacements or topology changes.

### 2 Asset discovery and DDI-enabled NSoT for unified visibility, stronger assurance, and automation at scale

SOLIDserver™ serves as a centralized, authoritative [Network Source of Truth](#) (NSoT), delivering accurate and consistent visibility into critical network resources. Extending beyond DDI, it builds a comprehensive "IP data lake" that consolidates VLANs, VxLANs, VRFs, applications, and network objects into a structured model. This flexible data model not only captures objects, their relationships, and actionable metadata, but also allows organizations to enrich it with custom attributes tailored to their needs. For example, an IP subnet can carry metadata such as security zone information, allowing firewalls to automatically apply the right policies, or business unit identifiers, enabling accurate cross-billing of IP resource usage. Exposed through open APIs, all information remains easily searchable, queryable, and navigable—even at massive scale.

SOLIDserver™ integrates asset discovery and reconciliation to continuously increase NSoT data quality. Asset discovery automatically consolidates any objects across cloud, on-premises, and hybrid infrastructures to deliver unified visibility and control. The built-in data reconciliation engine continuously compares discovery results with the NSoT, identifying discrepancies between the intended and actual network states and providing remediation options, ensuring data accuracy. By ensuring reliable data, SOLIDserver™ DDI delivers holistic network visibility, robust network assurance, end-to-end automation, and enhanced operational efficiency.

### 3 Robust automation, flexible policy enforcement, and process modeling for API-driven ecosystem integration

EfficientIP's SOLIDserver™ leverages its built-in NSoT to act as a [Network Automation Hub](#), scaling automation to streamline IT workflows and maximize operational efficiency. Built natively on APIs with 100% feature and service coverage, it offers no-code, low-code, and pro-code integration to seamlessly connect with the broader network and security ecosystem. The platform combines a fully customizable GUI, where layouts, dashboards, and reports can be tailored to user profiles, with full headless API usage, often blending both for flexibility. An embedded reporting engine continuously collects metrics and insights, while open APIs enable integration with enterprise analytics platforms. Beyond northbound APIs, user-triggered events can be pushed via websockets and enterprise service bus messages, ensuring smooth integration into IT workflows.

SOLIDserver™ enhances automation with flexible policy enforcement and advanced process modeling, enabling organizations to standardize and accelerate resource management. Pre-built policies automatically apply conventions, such as naming rules, subnet sizing, and attribute assignments. This streamlines data consistency and documentation, making administration simpler. Advanced process modeling enables full DDI lifecycle management from provisioning to decommissioning, through reusable templates and blueprints. This empowers IT, DevOps, and NetOps teams to rapidly deploy complex, multi-service environments while maintaining compliance with corporate standards and driving faster service delivery.

### 4 AI-powered, Protective DNS Security for Zero Trust, data protection, and service continuity

EfficientIP's [360° DNS Security](#) acts as the DNS-centric first line of defense, empowering security and network teams to protect, detect, and respond to evolving threats throughout their lifecycle. It safeguards public and private DNS infrastructures across hybrid multi-cloud, ensuring data protection, service continuity, and operational efficiency. Positioned among industry-leading [Protective DNS](#) solutions, it is built on a hardened, secure-by-design architecture with Hybrid DNS Engine, combining BIND and NSD/Unbound, and offers the world's fastest DNS cache handling up to 17 million queries per second at ultra-low latency. This ensures resilience, even during large-scale DDoS attacks, and eliminates single points of failure, while delivering unmatched performance. Designed for Zero Trust, it enforces granular access control through Client Query Filtering (CQF), enabling micro-segmentation, user-based filtering, and preventing lateral movement. EfficientIP's AI-driven threat intelligence continuously analyzes billions of queries daily, producing rich domain insights and a curated feed against malicious domains.

Patented DNS Transaction Inspection (DTI) technology performs real-

time, in-depth analysis of DNS traffic, including requests, responses, fragments, recursion, and latency. These insights power user behavior analysis, enabling early detection of sophisticated threats such as zero-day exploits, DNS tunneling, command-and-control activity, phantom/sloth attacks, and cache poisoning. AI-driven algorithms accelerate detection with Tuple Clustering for DGAs and Natural Language Processing (NLP) plus image recognition for phishing. Adaptive countermeasures respond dynamically: Quarantine Mode isolates suspicious clients, and Rescue Mode ensures 100% cache continuity during severe attacks. Actionable DNS insights integrate with SIEM, SOAR, or NAC tools for automated remediation and increased SOC efficiency. Fully integrated with SOLIDserver™, all policies and security mechanisms are centrally managed, simplifying enforcement, ensuring consistency, and delivering comprehensive DNS security at scale.

## 5 Lower TCO with unified DDI and simplified architecture

EfficientIP's SOLIDserver™ platform significantly reduces Total Cost of Ownership (TCO) by consolidating DNS, DHCP, IPAM, DNS security, and application traffic management into a single, all-in-one solution. This unified architecture eliminates the need for multiple servers or dedicated systems for discovery, monitoring, and dashboarding. A single management platform can oversee heterogeneous environments, such as Microsoft® DNS/DHCP servers, ISC BIND/DHCP on Linux, and native cloud services like AWS Route 53 and Azure DNS. The platform is also highly flexible, supporting deployment in the cloud, on physical appliances in the datacenter, or as lightweight service engines embedded in Linux systems, containers, or virtualized environments for edge sites and branch offices. Regardless of topology, all deployments maintain the same central integration and control, ensuring consistency across diverse infrastructures. The result is simplified administration, [reducing TCO by up to 75% and management time by up to 80%](#), which directly translates into operational cost savings.

In addition, SOLIDserver™ drives efficiency and scalability through its built-in Network Source of Truth (NSoT), advanced automation, and industry-leading performance. SmartArchitecture™ templates, flexible policy enforcement, and process modeling enable full lifecycle automation of DDI resources, ensuring error-free deployments, simplified compliance, and significant time and cost savings. With scalability to manage up to 80 million IP addresses, 1000+ servers, and DNS query rates exceeding 17 million QPS, the platform delivers robust resilience against growing demands and DDoS threats without costly re-architectures. Together, these capabilities lower operating costs while protecting long-term investments, making EfficientIP one of the most cost-effective and future-ready DDI solutions on the market.

## Key Takeaways

EfficientIP offers a clear path to free yourself from the complexity and cost of your current DDI solution without risk or disruption, so there's no reason to hesitate. Here's how SOLIDserver™ makes the difference:

### • Enhance Your Technology

Unify DNS, DHCP, IPAM, DNS Security, and application traffic management in a single platform. Simplify architecture, remove management complexity, and gain deployment flexibility across datacenter, cloud, and edge. Built-in Network Source of Truth (NSoT) and policy-driven automation accelerate the design, deployment, and scaling of services.

### • Lower Your Costs

Consolidate infrastructure with an all-in-one solution and flexible deployment model. Eliminate unnecessary servers, simplify licensing. Reduce management time by up to 80% and lower TCO while protecting long-term investment. At the same time, accelerate automation across the full DDI lifecycle to guarantee error-free configurations, streamline operations, and maximize efficiency at scale.

### • Migrate with Confidence

Benefit from a proven, project-based methodology that goes beyond "like-for-like" migration. Backed by in-house expertise and dozens of successful projects, EfficientIP ensures a smooth transition from any existing DDI environment.



As one of the world's fastest growing DDI vendors, EfficientIP helps organizations drive business efficiency through agile, secure and reliable network infrastructures. Our unified management framework for DNS-DHCP-IPAM (DDI) and network configurations ensures end-to-end visibility, consistency control and advanced automation. Additionally, our unique 360° DNS security solution protects data confidentiality and application access from anywhere at any time. Companies rely on us to help control the risks and reduce the complexity of challenges they face with modern key IT initiatives such as cloud applications, virtualization, and mobility. Institutions across a variety of industries and government sectors worldwide rely on our offerings to assure business continuity, reduce operating costs and increase the management efficiency of their network and security teams.

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