

SAPPHIRE APPLIANCES

Secure DNS, DHCP, IPAM (DDI) appliances



Convenience with advanced security

IP address management (IPAM) services are critical for the operation of today's IP networks. Your end users rely on seamless IP address assignment with DHCP or API and rapid name resolution with DNS to easily utilize IP network resources and applications.

Purpose-built for security and reliability

Sapphire appliances provide reliability and security with the convenience of pre-packaged DHCP/DNS/IPAM (DDI) appliances. Sapphire appliances are built from the ground up for security and robustness. Our appliances offer numerous security features including a hardened operating system (OS), network interface access control lists (ACLs), minimal open ports, uninterruptible boot process, jailed file system, and rate limiting to mitigate denial of service (DOS) attacks, to name a few.

Simple deployment with centralized management

All Sapphire models are simple to deploy and are shipped with IPControl IPAM or DHCP and DNS services software pre-installed. Sapphire EX appliances provide centralized monitoring, services control, and patch management of distributed Sapphire appliances.

Deployed Sapphire appliances can be centrally monitored via the IPControl system dashboard and/or via a third-party SNMP manager which can be used to poll Sapphire MIBs and receive traps.

Sapphire appliance models:

- Sapphire 20 series, available as a centralized management (EX20), EX redundancy (EMA), DNS/DHCP (x20), cloud automation appliance (CAA) or DNSSEC (Sx20) offers dual power and RAID5 solid state hard drives.
- Sapphire 10D series offers a dual power supply mid-range platform within the Sapphire family in the form of centralized management (EX10D), EX redundancy (EMA), DHCP/DNS (x10D), cloud automation appliance (CAA), or DNSSEC (Sx10D)
- Sapphire 10 series, available as centralized management (EX10) or DHCP/DNS (x10) offers mid-range price/performance for a wide variety of deployments.
- Sapphire 5 series, available only for DHCP/DNS network services, offers a remote office solution with exceptional price/performance.
- The Sapphire A30 IPAM Auditor appliance is a centralized logging repository and reporting system for IPAM, DHCP and DNS transaction data detail and summaries.
- Sapphire virtual appliances offer robust Sapphire features over a wide variety of cloud platforms including VMware, Xen, Hyper-V, KVM, AWS, Azure, GCP, and Oracle Cloud.

Features

Sapphire appliances help reduce your DDI costs through automation and simplification of DDI services management, monitoring and control.

Powerful, reliable platforms

A variety of Sapphire hardware platforms enable a mix and match deployments for optimal price/performance:

- Virtual Sapphire appliances leverage cloud deployment and virtualization benefits including energy, real estate and shipping savings.
- Standard IPMI interface provides lights out operation on all Sapphire hardware platforms.
- Sapphire 20 features a hot-swappable power supply as well as hot-swappable hard drives.
- Sapphire x-series TwinMirror hardware pairs support effortless auto-synchronization and hardware redundancy.
- OS, kernel and services upgrades can be deployed from the centralized IPControl interface.
- Centralized appliance monitoring via IPControl and via third party SNMP polling and syslog forwarding.

Simply, flexible deployment

- Simplified procurement and deployment with one-stop integrated software and hardware or VMware installation.
- Flexible deployment options: server-based, appliance-based, virtual, and mixed.

DNS security built-in

Sapphire hardware and virtual appliances are built for security, including integrated DNS security features with no additional licensing fees, including:

- DNS firewall (response policy zone) support.
- DNS tunnelling detection with shutdown.
- DNSSEC validation.
- Anycast, port and DNS ACLs, port and response rate limiting, and more.

Scalable, resilient architecture

- DHCP failover and multi-DNS server deployments.
- TwinMirror hardware cluster pairs for DHCP/DNS.
- Replication among Sapphire EX hardware pairs offer redundant IPAM deployments and Executive Monitor Appliance (EMA) automates EX failover.
- Redundancy options are also available for DNSSEC (Sx) and cloud automation (CAA).

Streamlined manageability

- Centralized monitoring and control via EX or IPControl appliance dashboard.
- Auditor (A30) appliance provides DDI transaction details and summary reporting and forensics
- SNMP MIBs and traps facilitate performance reporting and management integration.
- VLAN tagging support.
- Network interface port bonding.

Unsurpassed lifecycle support

- No three-year support expiration unlike competitive appliance offerings.
- Optional managed services offer proactive monitoring, troubleshooting and repair.

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