Sapphire DNSSEC appliances.

Reliable, fully automated DNSSEC zone signing.

Secure your DNS namespace.

DNS Security Extensions (DNSSEC) technology enables organizations to digitally sign DNS data so resolvers can be assured of the validity of the publisher of the data and of the DNS data itself.

Automation with control.

DNSSEC is the only definitive solution identified for dangerous cache poisoning attacks. Unfortunately, DNSSEC configuration and operation requires strong technical expertise not only for initial configuration but for ongoing monitoring and maintenance of signed zone data. Among these tasks are creation of key signing and zone signing keys, signing zone information and rolling keys.

The Sapphire Sx20 and Sx10D appliances from BT Diamond IP are secure DNSSEC appliances that provide automated key generation, zone signing, and key rollover based on user-defined policies. The Sx models provide "set and forget" policy operation to automate the setup and ongoing management tasks associated with signed zones.

> DNSSEC helps DNS administrators assure the integrity of their published DNS namespace. The Sapphire Sx line of DNS appliances streamlines and automates complex DNSSEC implementation and lifecycle management.

Multi-master redundancy.

The Sapphire Sx20 and Sx10D appliances can be deployed as standalone authoritative DNS appliances or in a multi-master pair. This intra- or inter-site redundancy enables seamless transitioning of signed zone integrity in the event of a failure of an Sx appliance or its corresponding site. Our unique dual corroboration technology facilitates reliable failover while minimizing flapping and flash key rollovers.

Seamless IPAM integration.

DNSSEC policies can be defined using a dedicated secure Sapphire DNSSEC administrator account. The IPControl system enables comprehensive management of your IPv4 and IPv6 address space, your DNS domain space, which zones to sign and your DNS and DHCP server configurations.

IPControl™ software from Diamond IP provides comprehensive DNS management for your signed and unsigned zones with support of all BIND option parameters, views, all resource record types and much more. Zones can be deployed to the Sapphire Sx20 and Sx10D appliances for automated signature maintenance. IPControl also enables configuration of DNSSEC validation parameters for your stock BIND servers or Sapphire appliances serving as validating resolvers on behalf of your clients.

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Sapphire DNSSEC appliances.

Features.

The Sapphire Sx20 is a highly redundant, highly scalable DNSSEC appliance while the Sx10D supports mid-tier deployments. Both models provide substantial cost savings by automating and simplifying your DNSSEC implementation. These savings can be realized through the following critical automation features.

Simple DNSSEC configuration.

- Automate DNSSEC management with policies for:
    - Number of keys per zone.
    - Key algorithms and sizes per type.
    - Key generation and lifetimes.
    - Key rollover cycles per key type.
    - Signature expiration intervals.
- Automated zone signing, key generation and rollovers.
- NSEC and NSEC3 support.
- Automated DS record generation and publication for managed zones or notification to contact parent zone administrators.
- Use existing BIND servers or use Sapphire appliances as secure zone slaves.

Extensive security.

- Support of PKCS#11 API for optional secure private key storage on an external hardware security module (HSM).
- Secure purpose-built hardened Sapphire operating system.
- Configure additional security-oriented options such as BIND and port ACLs, rate limiting, views, update-policy and TSIG keys.
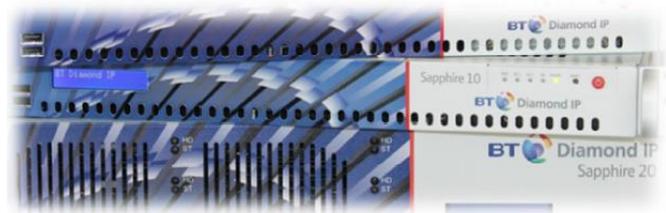
Flexible redundancy and manageability.

- Multi-master authoritative server deployments.
- Direct and IPControl corroboration of master peer status for reliable failovers.
- Dual hot-swappable power supplies.
- RAID-5 hard disk redundancy.
- IPMI lights-out interface.
- OS, kernel, and services upgrades can be deployed from the centralized IPControl interface.
- Signed and unsigned DNS zone management via IPControl.
- Static and dynamic zones support.
- Centralized monitoring and control via EX or IPControl appliance dashboard.
- SNMP MIBs and traps facilitate performance reporting and management integration.

Unsurpassed lifecycle support.

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

Find out more at:

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