



Solution Brief

Bloombase transparent data security for Dell EqualLogic storage

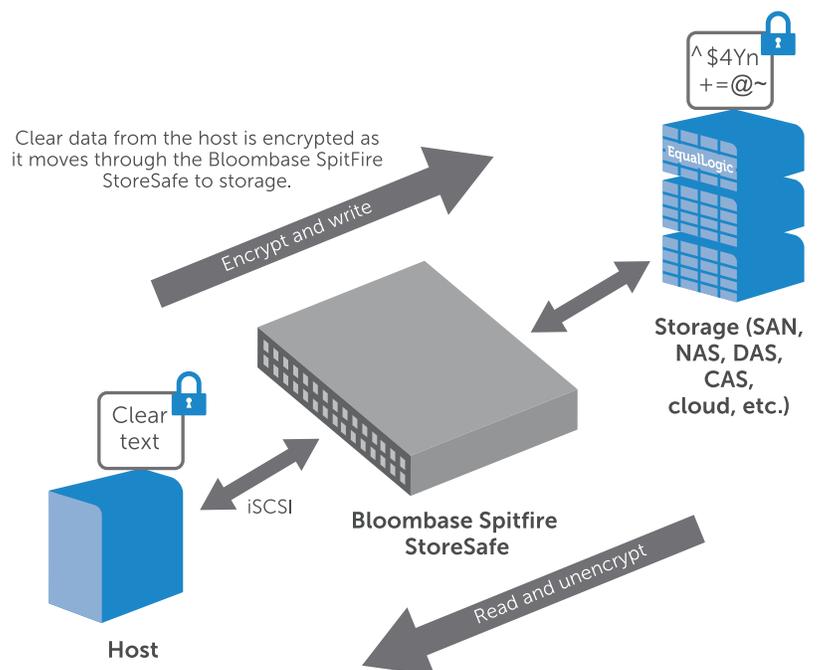
Bloombase Spitfire StoreSafe is a versatile software platform that provides agentless, non-disruptive, application transparent, at-rest data encryption on Dell EqualLogic storage. The solution can help you:

- Maximize your return on investment (ROI) with easy-to-implement, scalable security-hardened EqualLogic iSCSI SAN storage systems
- Easily manage security rules and encryption policies of your data
- Protect your business critical and time sensitive data
- Quickly and securely retrieve your secret data for various trusted and authorized requests including regulatory compliance

Traditional Information Technology security studies regard outsiders as the originators of cyber-attacks. Technologies such as firewalls, Intrusion Detection Systems (IDS), Intrusion Prevention Systems (IPS), content filters, anti-virus, anti-malware, anti-spyware, SSL-VPN, Unified Threat Management (UTM), all sit at the frontline defending the perimeter of core IT infrastructure.

Data breaches have increased in terms of spread and scale, despite the numerous IT security measures and best practices implemented. Data exposure is caused by a range of threats: hardware theft, backup tape loss, viral attacks, malwares or insider threats.

As unknown attacks, insider threats and targeted attacks are on the rise, sensitive plain-text data residing on core enterprise storage leaves computing and business automation systems with huge vulnerabilities. Many users are relying on encryption technologies to ward off those threats and avoid massive data exposure. Encryption of at-rest data is technically perceived as the last line of defense as stated in numerous industry best practices. Nevertheless, enterprises adopting application-specific encryption usually have to put forth tremendous effort on implementation and as a result push the mission-critical applications towards degraded performance and increased risks.



Bloombase and Dell EqualLogic storage have worked together to provide a high performance turnkey solution that can help you achieve data privacy for various information regulatory compliance needs. It works to provide a sustainable, easy to deploy solution that is scalable and effortless to integrate.

Bloombase was created to provide Transparent Data Security (TDS), enabling data owners to access encrypted storage data easily and securely. It also provides high performance at-rest data encryption software for application-transparent unified protection of critical data from endpoint, through data center, to the cloud. Bloombase data protection solutions stand out as independent, versatile, unified and powerful standard-based software for organizations to secure their complex heterogeneous enterprise application and storage infrastructure easily, risk-free and cost-effectively.

The Bloombase agentless encryption security solution performs as storage proxy, providing transparent encryption and un-encryption of content stored in Dell EqualLogic Storage Area Network (SAN) for authorized hosts and applications.

Unlike traditional data, at-rest encryption offerings take the form as closed and proprietary hardware appliances, Bloombase assumes a software-based approach to providing real-time encryption of enterprise storage systems. Bloombase Spitfire StoreSafe is ready to deploy on any Dell PowerEdge x86-architecture hardware server appliance.

Extending to the virtual data center, Bloombase Spitfire StoreSafe offers the capability and flexibility to run as virtual appliances on any QEMU-compliant virtual hypervisors securing virtual machine disk data and virtual storage systems.

Bloombase runs the Spitfire StoreSafe encryption software on Dell high performance and highly scalable compute node PowerEdge servers. Combined with simplified, scalable, virtualized EqualLogic iSCSI SAN storage, enterprises can achieve reliable protection for sensitive, business-critical data as it travels in the IT environment.

How does it work? Trusted applications and authorized hosts leverage virtual storage resources provided by Bloombase Spitfire StoreSafe to trigger encryption and un-encryption of at-rest data stored at actual storage systems. When host applications write plain-text data to actual storage via Bloombase Spitfire StoreSafe, the encryption engine extracts plain payloads and converts them as cipher-text in real-time before they get persisted at the storage media. Reversing the process, as hosts read

from actual storage through Bloombase Spitfire StoreSafe, the unencryption engine is triggered to retrieve cipher-text from storage and converts them to virtual plain-text on-the-fly before getting recomposed as plain payloads and presented to host applications. Storage data stays naturally encrypted and permanently locked, therefore, it is private and safe.

Comparatively, data encryption at hosts requires drastic and potentially risky application changes, whereas encryption at storage mandates costly hardware replacement. Rather than adopting proprietary hardware encryption appliances, Bloombase provides easy to deploy, effortless and cost-effective at-rest data encryption that works to secure data moving between Dell EqualLogic storage and Dell PowerEdge servers in a fully open and scalable architecture.

Bloombase software supports Dell hardware with an encryption solution that will persist over time. Not only does it protect physical storage and hosts, but Bloombase is designed to secure virtual servers, virtual desktop infrastructures and virtual storage, thereby providing cost savings and ease of management. Bloombase Spitfire StoreSafe offers a rich selection of security features that meet multiple and dissimilar security requirements from a range of industries and geographies. It is highly scalable with the hardware it runs on ensuring emerging encryption needs are fulfilled dynamically and efficiently. Bloombase Spitfire StoreSafe with clustering feature is fault-tolerant and provides high availability to ready users for mission critical secure data protection. Combined with Bloombase Spitfire KeyCastle or other third party key management tools, Spitfire StoreSafe strengthens security and enhances full life-cycle management of keys which is vital to secure deployment of data encryption services.

Bloombase helps you meet information privacy regulatory compliance with a low-cost, turnkey approach that delivers protection at the last line of defense in your IT environment.

Services to help find the right solution

Dell EqualLogic is a highly-virtualized, IP-based storage area network that optimizes your storage and meets your business goals. Dell IT Consulting Services* can work collaboratively with you to determine a blueprint that fits within your specific business needs through a catalog of well-defined engagements, including best practice data archiving design.

* Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicesdescriptions

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