



## F5 and Secerno

# End-to-end Application and Database Security

### Introduction

Secerno offers award-winning database activity monitoring and database policy enforcement solutions that provide a high level of protection against internal and external threats, optimize compliance auditing and help to improve the efficiency and security of applications.

Interoperability between Secerno DataWall™ and F5's BIG-IP Application Security Manager (ASM) has been verified by F5 which means that Secerno DataWall's database activity monitoring and database policy enforcement appliances now integrate with F5's BIG-IP ASM to provide enterprises with an end-to-end, layer 7 application and database security solution.

The combined offering of ASM and Secerno DataWall gives application business owners and security professionals alike the peace-of-mind that their application is benefiting from comprehensive threat prevention that includes protection of their core database assets, no matter from where they are accessed. They have an almost instantaneous remediation channel for either application code or database transactions which makes this a compelling offering for regulated environments with multiple technically diverse applications to protect.

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### F5 BIG-IP® Application Security Manager™ (ASM)

ASM is an advanced application firewall capable of simultaneously securing multiple applications across a range of protocols (HTTP, HTTPS, SOAP/XML, FTP, and SMTP) with a simple and easy to understand deployment model. ASM's combination of positive and negative security models, together with the automated Policy Builder, allows customers to quickly configure security policies in full blocking mode without the high rate of false positives that limit other solutions. ASM's flexible and granular application controls enable the support of any HTTP application written for delivery platform, old or new.

ASM is a tightly integrated element of F5's BIG-IP product suite that encompasses global server load balancing, advanced local load balancing, TCP optimization and application acceleration—all built upon the TMOS™ platform, F5's proprietary intelligent architecture.

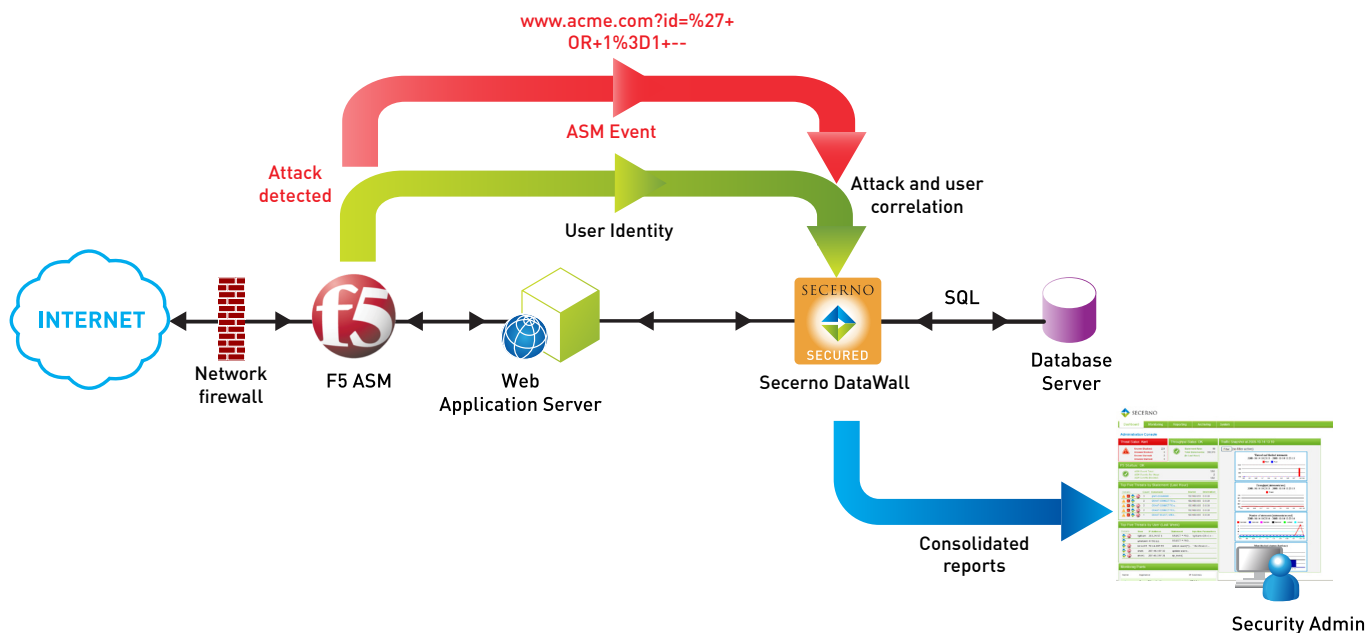
### About Secerno DataWall™

Secerno DataWall delivers advanced, comprehensive and intelligent database security. Organizations can choose to monitor database activity or deploy Secerno DataWall as a full database policy enforcement system.

The Secerno solution can be deployed in a rack-mounted appliance form factor or as a functionally equivalent virtual appliance deployed on a hardware platform of your choice, within a VMware virtual environment.

Secerno's patented SynoptiQ™ Engine, uses Semantic Clustering™ to cluster queries automatically and intelligently into an Intent-Based Model™ of database environments. A zero-defect policy is automatically created, which identifies with fine precision and total accuracy every kind of query that is allowed—and specifies the actions to be taken on out-of-policy activity.

Uniquely, Secerno enforces a 100% positive security policy of only approved behavior, providing the option to either log, alert, block or substitute database requests. Policy Channels™ enable strategists and administrators to add new and complex layers of rules that map policy to a company's specific business needs.



## The Integration

Together, BIG-IP ASM and Secerno DataWall expose the identity of users so that deeper, more granular security policies can be used to secure an organization’s valuable data.

The two solutions share common reporting for web-based attempts to gain access to sensitive data, subvert the database or execute Denial of Service (DoS) attacks against an organization’s databases.

Where threats to data are detected they are monitored, alerted or blocked and the identity of the user is shared between BIG-IP ASM and Secerno DataWall. To protect applications and databases, malicious or compromised users can be isolated, forced to

re-authenticate or be prevented from accessing the application further; in real-time.

Furthermore, subsequent attacks from the same user can be prevented, diverted or rendered inert before the attacker can reach the application. Comprehensive alert and report information delivers immediate information on the type and severity of threats.

Sharing user identity between the F5 Big-IP ASM and Secerno DataWall empowers those responsible for compliance auditing to unequivocally show, and report on over time, how an organization’s data is being accessed—and by whom.

### About Secerno

Secerno is an established provider of active database control. Secerno DataWall™ is Secerno’s award-winning database activity monitoring, database policy enforcement and database compliance auditing solutions.

Uniquely available as either hardware or virtual appliances, Secerno DataWall creates intelligent perimeters around each of your databases, understanding the implications of every SQL query and enforcing policy. Secerno DataWall delivers the highest levels of protection against internal and external threats, optimizes compliance auditing and delivers the ability to improve the security and efficiency of applications.

At the core of Secerno DataWall is the patented SynoptiQ™ Engine, based on breakthrough research into efficient grammatical clustering. The SynoptiQ Engine uses Semantic Clustering™ to cluster queries automatically and intelligently into an Intent-Based Model™ of database environments; so they are distilled into

meaningful information for efficient human review and automatic generation of a zero-defect policy that identifies with fine precision and total accuracy every kind of query that is allowed to reach a specified database—and specifies the actions to be taken on out-of-policy activity.

Secerno DataWall enforce a 100% positive security policy of only approved behavior, providing the option to either log, alert, block or substitute database requests. Policy Channels™ enable strategists and administrators to add new layers of rules that map policy to a company’s specific business needs.

Secerno DataWall delivers value to organizations as it is quick and easy to deploy and simple to manage and maintain. Secerno is replacing traditional database security solutions because it allows its customers to eliminate false alarms and focus on real issues; block threats instead of just monitoring them and fly through audits without wasting resources.

