

EXHIBIT E

APPENDIX B

US Patent No. 6,965,968

Policy-Based Caching

Claim 1

1a. A policy-based cache manager, comprising:

1b. a memory storing a cache of digital content, a plurality of policies, and a policy index to the cache contents, the policy index including entries that relate cache content and policies by indicating cache content that is known to be allowable relative to a given policy, for each of a plurality of policies;

1c. a content scanner, communicatively coupled with said memory, for scanning a digital content received, to derive a corresponding content profile; and

1d. a content evaluator, communicatively coupled with said memory, for determining whether a given digital content is allowable relative to a given policy, based on the content profile, the results of which are saved as entries in the policy index.

The Qualys Accused Products perform computer security functionality when implemented on either the Qualys Cloud, Appliance Scanners, Virtual Scanners or client computing devices. Devices implementing each Accused Product, either alone or in combination, can be used by turning on their functionality without needing additional software to protect against malicious content downloaded through a network. Each Accused Product described herein includes a policy-based cache manager.

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1b. Contention 1 – Cache of digital content in Malware Detection

Malware Detection includes memory for a cache for storing files that have been or will be scanned by the Malware Detection scanner. As shown below, these cached files are downloaded and stored during “antivirus” operations use (e.g. accessed via the claimed memory) and attached to a content profile that corresponds to the cached file. The memory can store the cache of digital content and policies during the performance of scanning operations.

How does Qualys Malware Detection work?

The service browses your website just a like a user would on a scheduled basis. The service employs four different types of detection methods to identify any potential malware.

1. **Behavioral Analysis:** The most powerful is advanced behavioral analysis that is performed via an instrumented browser that identifies when an infection takes place. Behavioral analysis does not rely on signatures so it can detect even zero day malware, something signature based detection can't match.
2. **Reputation Checks:** Links to external web pages are checked against reputation services to determine if they are untrusted.
3. **Antivirus:** The service downloads and scans documents such as PDFs on the site using antivirus software.
4. **Heuristics:** Pages are analyzed for commonly used JavaScript-based attacks.

<https://www.qualys.com/support/faq/mds/>

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1a. A policy-based cache manager, comprising:

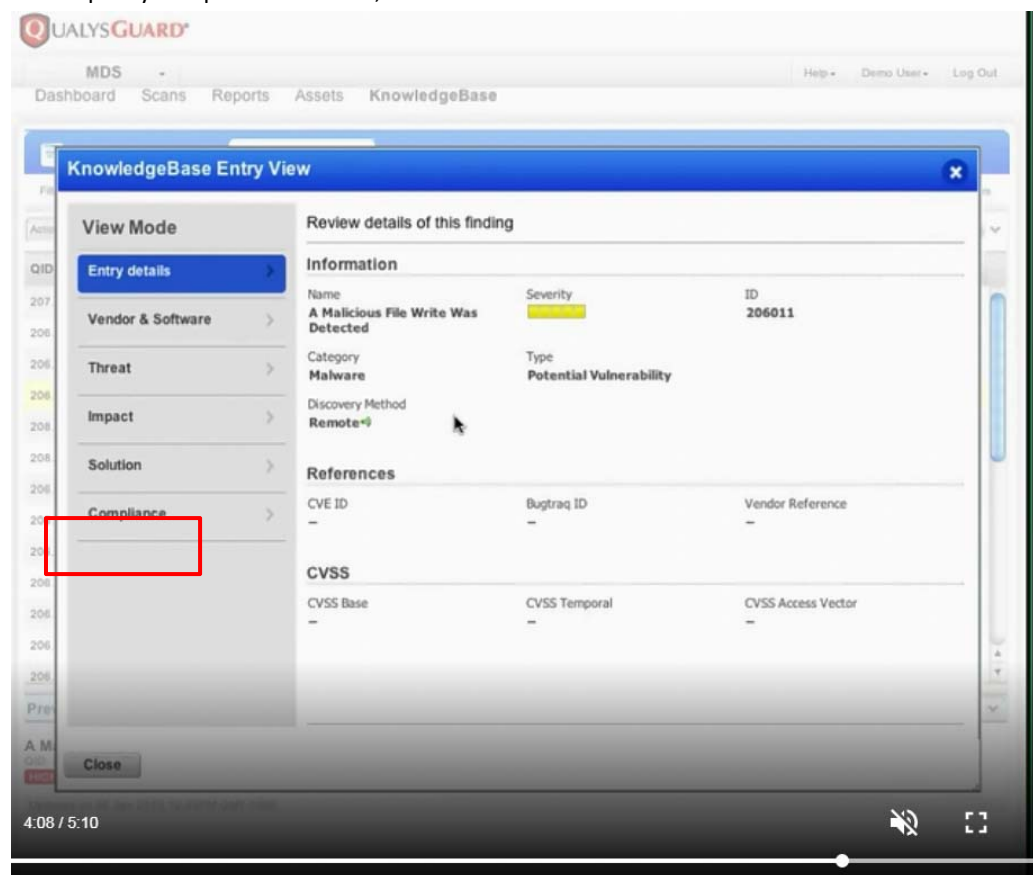
1b. a memory storing a cache of digital content, a plurality of policies, and a policy index to the cache contents, the policy index including entries that relate cache content and policies by indicating cache content that is known to be allowable relative to a given policy, for each of a plurality of policies;

1c. a content scanner, communicatively coupled with said memory, for scanning a digital content received, to derive a corresponding content profile; and

1d. a content evaluator, communicatively coupled with said memory, for determining whether a given digital content is allowable relative to a given policy, based on the content profile, the results of which are saved as entries in the policy index.

1b. Contention 1 – Cache of digital content in Malware Detection (continued)

Malware Detection's use of memory that stores digital content, policies and a policy index is demonstrated by its use of policy compliance controls, as shown below.



<https://www.qualys.com/videos/2013/qualysguard/malware-detection/overview/>

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