

System iNtrusion Analysis & Reporting Environment

Enterprise Agents































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Snare Enterprise Agents

The SNARE Agents define the security relevant events for collection. Snare agents are the industry standard for logging and are available as in both Open Source and Enterprise versions. While both the Open Source and the Enterprise Agents gather operating system specific events are easy to install and upgrade, and provide objective based filtering, the Snare Enterprise Agents are specifically designed to greatly enhance the 3 pillars of information security:

1. Confidentiality
2. Integrity and
3. Availability

The features and benefits of the Snare Enterprise Agents over the Snare open source agents are summarized in the following table:

<i>Feature</i>	<i>Enterprise</i>	<i>Open Source</i>
Encryption		
Event log caching		
Guaranteed log message delivery (TCP)		
Log message simulcasting		
Advanced remote control		
Dynamic DNS support		
Centralized configuration management		
Custom Windows Event Logs		
Vendor Product Support		
The ability to quickly and easily gather the necessary information to comply with NISPOM, PCI, SOX or other regulatory requirements.		
Gather operating system specific events		
Easy to use installer		
Silent install option		
Upgrade option to preserve existing configuration settings		
Provide access to local and network users and groups		
Remote control interface		
UDP and Syslog transmission options		
Objective-based event filtering		
Debug mode		

Encryption

Using the NIST recommended Triple DES algorithm, Snare Enterprise Agents are able to protect the confidentiality of log messages in transit. Once the messages have been accepted by the Snare Server, they are decrypted and processed as normal messages. By utilizing the *Centralized Configuration Management* option (described below), agent message encryption can be quickly rolled out across the network enhancing log integrity and confidentiality throughout the enterprise

Event Log Caching

Intermittent network outages pose a significant challenge to the integrity of centralized log management. One of the most feared IT Auditor questions has long been; “What happens to the log events if there is a network disruption?” This is particularly true of systems leveraging syslog for log aggregation. *Event Log Caching* significantly enhances the integrity of the overall log management system by storing undelivered messages in memory on the originating host in the event of a transmission failure. Common sources of transmission failures include:

- ✘ Network stack malfunction on the host machine
- ✘ Network device failure or misconfiguration (e.g. router)
- ✘ Destination server being offline
- ✘ Network outages

Once the Enterprise Agent is notified of any problems delivering messages to the destination server, the event log cache is used to preserve subsequent messages as long as the destination server is unavailable. The size of this cache is configurable and if the agent needs to be stopped or restarted for any reason, any remaining events will be written to disk. Once a new connection can be established with the server, the cached events are gradually forwarded to their destination.

Guaranteed Log Message Delivery

System administrators and security professionals alike are under ever increasing pressure to ensure the completeness and integrity of logs. This is particularly challenging during the process of transmitting log messages from the originating host via syslog to a centralized log repository. Leveraging the features of TCP, Snare Enterprise Agents are notified of any problems encountered during transmission and take appropriate actions to preserve event log continuity and completeness.

Log Message Simulcasting

Each Enterprise Agent is able to simultaneously direct event logs to multiple destination servers for redundancy, disaster-recovery and correlation purposes. Deployed along with a hot-standby Snare Server, perhaps deployed at an off-site disaster recovery site, Snare Enterprise Agents provide an extremely cost-effective, high-availability log management system. *Log Message Simulcasting* facilitates a best-of-breed approach to both Log and Security Event Management.

Advanced Remote Control

Open source Snare Agents are able to be remotely configured from the Snare Server console. However control has been limited to a single host IP address (or host name). The *Advanced Remote Control* feature allows each agent to be remotely configured from a set of “administrator” IP addresses or the IP address associated with the backup Snare Server.

Dynamic DNS Support

If DNS names are used in the configuration of either the *Advance Remote Control* or *Log Message Simulcast* features, generally the host name is resolved only once as the agent starts up. With dynamic DNS support, the agent can be scheduled to automatically refresh the associated IP address. This setting is crucial for installing new Snare Servers or dynamically changing the destination server in the event of a network or site failure (i.e. disaster recovery) without having to reconfigure or restart a single agent.

Centralized Configuration Management

Leveraging technology in Snare Enterprise Agents, the Snare Server console is able to query all deployed agents for their current configuration settings. The Snare Server will then automatically compare deployed agents with the “master” agent template and remotely apply, and activate, an updated configuration if necessary.

Custom Windows Event Logs

Snare Enterprise Agents for Windows extend the reach of the open source Snare Agents beyond the core Windows Event Logs. The Snare Enterprise Agents for Windows enable the collection, filtering and transmission of non-standard and third party Windows Event Logs as well, greatly expanding the reach of the agent.

Summary

Centralized log management and analysis is essential to assuring the integrity of critical logs and achieving compliance with a growing list of regulations. However the requisite process of transmitting log data across public or even private networks can simultaneously work against these important objectives and while the Snare Enterprise Agents address these requirements, most logging solutions do not.

Is the Confidentiality, Integrity and Availability of distributed system logs critical to you? Do you currently manage a large deployment of open source Snare Agents? Are you looking for a cost-effective, end-to-end log analysis and management system? If the answer any of these questions is “yes”, then Snare Enterprise Agents offer high-value capabilities that simply cannot be found in any other solution available today.

Many thousands of organizations including Fortune 500, government agencies, multinational businesses and highly sensitive sites around the world rely on Snare every second of every day as the platform of choice for audit, collection, analysis, reporting, management and archival of event information.

Snare, the Trusted, Low risk, High Value SIEM choice.



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