



SHARKSEER Zero Day Net Defense

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SHARKSEER



Program Definition: Detects and mitigates <u>web-based malware</u> Zero-Day and Advanced Persistent Threats using COTS technology by leveraging, dynamically producing, and enhancing global threat knowledge to rapidly protect the networks.





SHARKSEER's GOALS



IAP Protection: Provide highly available and reliable automated sensing and mitigation capabilities to all 10 DOD IAPs. Commercial behavioral and heuristic analytics and threat data enriched with NSA unique knowledge, through automated data analysis processes, form the basis for discovery and mitigation.

Cyber Situational Awareness and Data Sharing: Consume public malware threat data, enrich with NSA unique knowledge and processes. Share with partners through automation systems, for example the SHARKSEER Global Threat Intelligence (GTI) and SPLUNK systems. The data will be shared in real time with stakeholders and network defenders on UNCLASSIFIED, U//FOUO, SECRET, and TOP SECRET networks.







SHARKSEER Zero Day Net

Defense













SHARKSEER Sandbox Environment







Stakeholders & Partnerships







Power Of Partnership



Cyber Alliances: Collective Defense Becomes Central To Securing Networks, Data - Forbes Forbes

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Loren Thompson Contributo write about national security, especially its business dimension

ON 9/19/2014 @ 11:06AM 3,666 views

Cyber Alliances: Collective Defense Becomes Central To Securing Networks, Data

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When the North Atlantic Treaty Organization - NATO - wrapped up its summit in Wales earlier this month, the member-states issued a lengthy communique expressing solidarity on major defense challenges. One of the challenges mentioned was cybersecurity. The alliance stated that "cyber defence is part of NATO's core task of collective defence," presenting concerns so severe that they might lead to invocation of Article Five of the North Atlantic Treaty - the article calling on all members to come to the defense of a threatened nation. The communique went on to stress that "strong partnerships play a key role in addressing cyber threats and risks," and committed alliance members to intensified cooperation in pursuit of integrated solutions.

It isn't hard to see why NATO is worried about threats in cyberspace, given Russia's recent use of on-line attacks against Ukraine and other countries in a style of combat that has come to be called "hybrid warfare." However, a

Shared Threat Data

- STIX Structured Treat Information eXpression
- MAEC Malware Attribute Enumeration and Characterization
- TAXII Trusted Automated eXchange of Indicator Information

McAfee and Symantec — the nation's two biggest cybersecurity firms — agreed to join a Cyber Threat Alliance founded in May by Fortinet and Palo Alto Networks. The goal of the new consortium, quoting a white paper it issued, is "to disperse threat intelligence on advanced adversaries across all member organizations to raise the overall situational awareness in order to better protect their organizations and their customers."

Structured Threat Information eXpression (STIX) v1.1 Architecture





SHARKSEER Cyber Environment







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