

The MITRE Corporation

License Opportunities



MITRE technology transfer office

MITRE's Technology Transfer program was established in 1999 to place MITRE-developed technologies in the hands of commercial companies that can make them available to our sponsors and the public as supported, affordable products. Working on critical issues of national importance, MITRE continues to develop new and innovative technologies.

Automated Worm Detection System

MITRE's Automated Worm Detection System (AWDS) is an innovative worm detection technology that is designed to make computer networks more secure and less susceptible to malicious attacks. Its sensitive and accurate detection capability discovers worms in real-time at the enterprise level enabling responses such as quarantining infected hosts to prevent further damage.

The technology uses a distributed collection approach for detecting and mitigating worm behaviors and attacks within an enterprise environment in real time. If an attack occurs, AWDS enables the rapid deployment of effective countermeasures to quarantine and block the worm before it saturates the network.

Applications

Designed to be installed in user environments of more than 100 users, AWDS has broad applicability and can be incorporated into a number of anti-malware, intrusion detection, and network management software suites. AWDS can also function as a standalone capability that complements other like software. This capability fits well within a defense-in-depth portfolio that complements other available approaches.

Benefits

The benefits of MITRE's technology include the following:

- Accuracy: false alarm rate around one per day
- Sensitivity: broadest coverage available
- Real-time capability: relevant to worm attack time scales

Additional Information and Links

Ellis, D., et al., 2004, "A Behavioral Approach to Worm Detection," The MITRE Corporation, www.icir.org/vern/worm04/ellis.pdf.

Lockhardt, C., July 2006, "Closing a Can of Worms: Designing an Automated Worm Detection System," The MITRE Corporation, www.mitre.org/news/digest/advanced_research/07_06/ar_detection.html.

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