

CIO/CTO Perspective Policy and Regulation

Thu, 03/31/2011 - 11:17 | by Jim Lippard

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said they are now up to 24.



Yesterday, I briefly recounted Rick Wash's research on "folk models" of information security threats; today I'd like to do the same for a more advanced threat model. Last December, Timothy Casey gave a presentation at the first Phoenix SecureWorld Expo on the library of threat agents that he and others have developed at Intel and made available for general use. In his presentation, he noted that "threat" is

often not well defined, and Intel decided to address the issue by identifying the personas of the humans behind information security threats, creating a taxonomy of agents and their respective attributes. For each agent, their access, intent, limits, primary goal, methods, resources, skills, and visibility were identified; associated with each agent is a matrix of exploits

that can be matched against vulnerabilities. The current published version of the library identifies 22 agents, though Casey

The library provides a common language for senior executives, security specialists, and other employees to discuss threats

domain, and a domain-wide threat assessment. In the former case, subject matter experts for the particular domain meet with information security experts to discuss the types of agents from the library most likely to be a threat to their domain, and thereby identify what defenses are appropriate. In the latter, all threats and all agents are considered, assigned

weights, and used to find the most pressing risks. This can be done within a risk assessment framework such as OCTAVE or

low/medium/high scale based on recent activity and its relevance to the target company. Agents which are trending upward

and how to respond to them. It also can be used to perform a variety of threat assessments, including agent-specific trending. Casey pointed out two broad types of assessment, a targeted threat assessment for a narrow target or specific

Agent trending is performed by periodically (every six months at Intel) updating the ratings of each agent on a

By putting this threat agent library into the public domain, Intel has provided a useful tool to organizations for

the U.S. National Infrastructure Protection Plan's Baseline Risk Assessment Framework.

over time may provoke a review and improvement of controls relevant to countering that threat.



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understanding threats and prioritizing responses to them.

Intel Threat Agent Library white paper by Timothy Casey (2007) Prioritizing Risks with Threat Agent Risk Assessment (2009) Information Technology Sector Baseline Risk Assessment Tim Casey video on use of the threat agent library

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