

## Technical Aspects of Botnets

Wednesday, May 30, 2012

Green Auditorium, National Institute of Standards and Technology

**8:30 AM – 9:00 AM**      **Registration**

**9:00 AM – 9:10 AM**      **Workshop Overview**

**9:10 AM – 9:20 AM**      **Welcome and Opening Remarks**

**Speaker:** Donna Dodson  
Chief, Computer Security Division and  
Deputy Chief Cybersecurity Advisor  
National Institute of Standards and Technology

**9:20 AM – 10:35 AM**      **Panel 1: Metrics, Measurements and Reporting**

**Description:** *This panel will focus on opportunities and methods for measuring and reporting botnets. Panelists will examine what metrics work, how they should be reported, if they need to be standardized, where they should be employed, and the major challenges. The panel will discuss current and future efforts to develop metrics and potential methodologies for evaluating and reporting botnets over time.*

**Moderator:**      **Karen Scarfone, Scarfone Cybersecurity**  
Patrick Cain, Anti-Phishing Working Group (APWG)  
Erik Engebret, S3 Networks  
Alan Paller, SANS (SysAdmin, Audit, Network, Security) Institute  
Kevin Sullivan, Microsoft Corporation

**10:35 AM – 10:45 AM**      **BREAK**

**10:45 AM – 12:00 PM**      **Panel 2: Technologies, Tools, and Resources**

**Description:** *This panel will explore the various technologies, tools and resources that are needed to effectively detect, prevent and remediate botnets. Panel members will examine their effectiveness, existing gaps or areas needing improvement, and those characteristics that make them most useful.*

**Moderator:**      **David Pierce, Department of Defense**  
David Brockmyer, Intel Corporation  
Michael Glenn, Century Link  
Patrick Gardner, Symantec Corporation  
Phil Porras, Stanford Research Institute (SRI) International

**12:00 PM – 1:20 PM**      **LUNCH**

**1:20 PM – 1:30 PM**

**Keynote**

**Speaker:**

Patrick D. Gallagher  
Under Secretary for Standards and Technology and  
Director of the National Institute of Standards and Technology

**1:30 PM – 2:45 PM**

**Panel 3: Current and Future Efforts and Challenges**

**Description:**

*This panel will discuss several of the efforts in this area. The panel will also address issues and challenges related to the prevention, detection, notification, and remediation of botnets. Panel members will discuss the impact of botnets, the characteristics and threats that make botnets a unique problem, and what it will take to effectively counter them. The panel will focus on the environment and ecosystem in which botnets function and the gaps in developing solutions.*

**Moderator:**

**Zachary Nunn, National Security Staff**

Denise Anderson, Financial Services - Information Sharing and Analysis Center  
(FS-ISAC)

Chris Boyer, AT&T

Liesyl Franz, TechAmerica

Michael O'Reirdan, Messaging Anti-Abuse Working Group (MAAWG)

**2:45 PM – 4:00 PM**

**Panel 4: Roles and Responsibilities**

**Description:**

*The botnet ecosystem has many players. In this panel, government and private sector representatives will share their perspectives on what roles the various stakeholders (e.g. ISPs, browser providers, security firms, search engines, users, etc.) play and what their responsibilities are or could be. Panelists will discuss trends, gaps, and opportunities in the current environment.*

**Moderator:**

**Lauren Van Wazer, Office of Science and Technology Policy**

Marcus Sachs, Verizon Communications

Ari Schwartz, Department of Commerce

Craig Spiezle, Online Trust Alliance (OTA)

Maxim Weinstein, StopBadware

**4:00 PM – 4:15 PM**

**Closing Remark**

**Speaker:**

Ari Schwartz  
Senior Policy Advisor, Office of the Secretary  
Department of Commerce