



# Security Automation and Continuous Monitoring WG

## Use Cases Status Report

David Harrington  
IETF 87 – Aug 2 2013

---

# Use Cases Document

- ▶ This document provides a sampling of use cases for collecting, aggregating, and assessing data to determine an organization's security posture.
- ▶ From use cases, we can derive common functional networking capabilities and requirements for IETF-related standards.
- ▶ The scope of this document is limited to Enterprise Security Posture Assessment . Later documents can address other scopes.
- ▶ Existing IETF technologies might be suitable to address some of these functions and requirements.

# Use Cases Status

---

- ▶ Dave Harrington added as editor
- ▶ Modified text to reflect charter and WG consensus
  - ▶ Introduction describes the focus
  - ▶ Organized by asset, config, change, and vulnerability management
  - ▶ Focus on Enterprise use cases
  - ▶ Focus on UCI – Endpoint Posture Assessment
  - ▶ Removed UC2 – Enforcement of Acceptable State
  - ▶ Removed UC3 – Security Control Verification and Monitoring

# Use Cases Status

---

## ▶ Editorial changes

- ▶ Removed references to WG and charter
- ▶ Moved NIST acknowledgement to Acknowledgements
- ▶ Removed discussion of chapters; we have Table of Contents
- ▶ Modified IANA and Security Considerations sections
- ▶ Removed some marketing claims to focus on technical analysis
- ▶ Moved terms to the front; combined with RFC 2119 text
- ▶ Removed “Key Concepts”; not used in document, better in arch
- ▶ Moved (partly) to an IETF-style use case approach

# Use Cases

---

## ▶ Asset Mgmt

- ▶ Asset Discovery – subnet, IP addresses
- ▶ Asset Characterization – system, components, host resources

## ▶ Config Mgmt

- ▶ Config – hardware/software component mappings, resources, interfaces

## ▶ Change Monitoring

- ▶ Change monitoring – DHCP addressing, RADIUS services, NAT logging, syslog authorization warnings

# Use Cases

---

- ▶ **Vulnerability Mgmt**
  - ▶ NIDS Response
  - ▶ Historical Vulnerability
  - ▶ Source Address Validation

# Use Cases to be Added

---

- ▶ A number of additional use cases have been sent to the list for discussion, but are not yet added in -05-
  - ▶ Suspicious Endpoint Behavior
  - ▶ Vulnerable Endpoint Behavior
  - ▶ Batch Assessment
  - ▶ Event Driven Monitoring
  - ▶ Periodic Monitoring
  - ▶ Self-monitoring

# Issues

---

- ▶ Should our use cases be limited to our constrained focus, or show the larger general environment in which the constrained focus fits?
- ▶ Should we be collecting/gathering requirements now, or after we have gathered use cases?
- ▶ What is the appropriate descriptive level for our use cases? Should we be identifying which parties rely on what functionality, and what data is required, to be successful?
- ▶ Should discussions be taken to more public fora (trade shows)?



# Issues

---

- ▶ Should our use cases be limited to discussions of interactions relevant to IETF?
- ▶ User actions should relate to Internet protocols

# Questions?

---