Federal Network Resilience

Trusted Internet Connections (TIC) Update

May 20, 2014
Agenda

1) TIC Background
2) Reference Architecture Updates
3) TIC Update (new initiatives and priorities)
4) Packet Capture Capability
5) Path Forward for TIC 3.0
What is the TIC Initiative?

**Strategy**
Optimize federal agency network services into a common benchmark security solution for the federal government.

**Strategic Components:**
- Reduction and Consolidation of External Connections
- Manage the Security Capabilities of TIC access points
- On-Site TIC Capability Validation (CCV) assessments of TIC access points
TIC 2.0 Reference Architecture Updates

- 5 Working Groups over Summer ’13
- Result was Appendix H – Cloud Considerations
- TIC 2.0 RA refresh over fiscal years ’14 and ’15
  - Internal review in FY14 and D/A working groups for D/A consensus in FY15
TIC Program Updates

1. Working with FedRAMP and GSA on mapping TIC Security Controls to the NIST 800-53 rev. 4 controls


3. Reviewing the value of some TIC Security Capabilities as they are currently stated:
   • TM.DS.01: (24 hours of 100% packet capture)
   • TM.PC.06: 10 mile requirement between TIC Access-Points
   • TM.TC.04: 1 month requirement for ZSK rollover

4. MTIPS / NS2020
Packet Capture TIC Capability

**TM.DS.01: (24 hours of 100% packet capture)**

- 24 hours: too short of a time period
- 100% packet capture: large storage requirement for Agencies with large data flow requirements. Value of capturing encrypted traffic.

**DHS considering recommendations on how to adjust the technical indicators associated with the current capability.**

- Interviewed three Agencies that have large-capacity data circuits.
- Intent is for the Agency to have an agency-determined tiered network data storage process.
- Still required to collect net flow data of all traffic for 24 hours.
TIC 3.0

- TIC 2.0 tied to Networx
- TIC 3.0 expected in the 2017-2019 time range
- TIC 3.0 expected to support NS2020
Contact Information

TIC Address: tic@hq.dhs.gov
TIC Program Manager: Sara Mosley (FNR)
  – Sara.Mosley@hq.dhs.gov
  – (703) 235-3990 (Office)

TIC OMB MAX Page:
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