



Homeland
Security

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
2. Publishing a 'Guide to Understanding TIC' document by end of CY2014
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:

<https://max.omb.gov/community/display/Egov/Trusted+Internet+Connections>

