

# DoDIN APL Consulting Capabilities

What Tachyon Dynamics can do to help your company receive DoDIN APL Certification

### Overview

- What is DoDIN APL?
- Tachyon Dynamics' experience
- Consulting Capabilities
  - Product Gap Analysis
  - Gap Analysis Workshop
  - Cradle-to-grave APL certification consulting
  - Application Security and Development Documentation
  - Follow-on Fix Verification consulting
- What DoDIN APL Certification gets your company



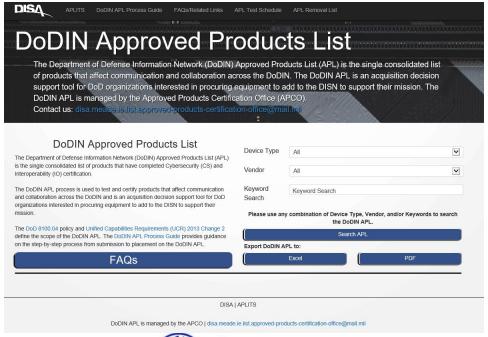
## The DoDIN APL

- Began in the early 2000s as the Defense Switching Network (DSN) Approved Products List (APL)
- Migrated in 2007 to become the consolidated APL for the entire DoD spreading across most enterprise-class IT products as the UC APL
- Significant work has been done by DoD to require all procurements must have an APL product certification (where possible)
- In 2017, renamed the DoDIN APL



## The DoDIN APL, cont

 All services and agencies in the DoD stopped independent certifications/evaluations in favor of DoDIN APL





## Our Experience

- We have consulted for numerous product vendors spanning most product classes in the DoDIN APL:
  - Network Elements
  - Network Switches and GPONs
  - Network security devices (WAF, IDS/IPS, IA Tools, VPNs, etc)
  - Storage devices
  - Network routers
  - PSAPs
  - CPEs
  - NCAS
  - VDS
- Over 50 APL engagements
- https://www.tachyondynamics.com/#our-clients
- Under our guidance <u>no one ever fails</u>



# **Consulting Capabilities**

- In-Lab Product Gap Analysis
- Gap Analysis Workshop
- Cradle-to-grave DoDIN APL consulting
- Follow-on V&V Testing Consulting
- Application Security and Development Documentation



# In-Lab Product Gap Analysis

- We take your product through a hardening exercise in our lab
- We test security based on current requirements (e.g. STIGs)
  - Including manual, vulnerability, and web application scans with JITC tools
- We test interoperability by mapping UCR 2013, Change
  2 requirements to the product
  - Providing manual and automated testing where possible
- Provide a finalized Gap Analysis and Test Readiness Report upon completion



# Gap Analysis Workshop

- We come to your engineers for a 2-day in person workshop
- Agenda:
  - Educate on the full APL Process
  - Provide requirements traceability for security and interoperability
  - Deep-Dive with your engineers on all requirements and map gaps
- Provide a finalized Gap Analysis Report upon completion



# Our Cradle to Grave DoDIN APL Consulting Role

- Tachyon Dynamics will provide a subject matter expert (SME) that is intimately familiar with the current application, testing and certification process
- Our SMEs get your through the entire process



# DoDIN APL Process and Tachyon Dynamics

#### Application

- We submit all the documentation for application (except SF-328)
- We can help facilitate DoD sponsorship if needed

#### Schedule

- We interface with the preferred test lab and develop the test schedule
- We help coordinate logistics



# DoDIN APL Process and Tachyon Dynamics, cont

- CS Self-Assessment
  - We harden and configure your products in our labs
- CS Testing
  - We provide on-site testing support for first 3-days
- Interoperability Testing
  - We provide remote test support if needed
- Final APL Certification and APL Entry
  - We complete the mitigations, fix dates, and final DoDIN APL Deployment Guide



# Follow on V&V Test Consulting

- After your certification you will have things that have to be fixed within 6-18 months and must return to the test lab
- We help prepare your product house to coordinate fixes and validate they are in fact fixed
- Provide onsite Verification & Validation (V&V) test support at the test lab
- Providing documentation support where needed



### Documentation

- Application Security and Development
  - The Technical Writer will gather data and content from customer personnel to complete the following documentation as required of the Application Security and Development STIG.
- \*Think Tech Editor\*
- Documents Include
  - Content Development Specification
  - Software Configuration Management Plan
  - Design Plan
  - Vulnerability Management Plan



# **IAVerify**

- Tachyon Dynamics' hardening lab for DoDIN APL testing is done in an inhouse, fully representative DoD IA network infrastructure.
  - DoD STIGed and secured Window Active Directory with hardening GPOs upon windows domain joining
  - Vmware ESX 6.5 and Linux KVM hypervisors
  - RedHat Enterprise Linux STIG Scripting/hardening
  - DoD PKI/CAC/PIV enabled servers/workstations
  - RAE (Required Ancillary Equipment): NTPv3/4 with authentication, SNMPv3 (AES & SHA), syslog (TCP/UDP/TLS), RADIUS/NPS with 802.1x network policies (EAP-PEAP and EAP-TLS)
  - Vulnerability Scanning: Nessus and ZAP
  - Other 2-factor RADIUS-based tools (Yubikey and TDIYubiServ)
  - DoD PKI test lab
  - Fully IPv6-enabled (dual-stack)
  - Performance test generator and analyzer (TGA) for 1 Gbps (Ostinato)
  - Automated test script tools for various test plans



# What this testing gets you...

- Added to the \*only\* DoD Approved Products List (APL)
- USAISEC TIC Information Assurance Approved Products List (IAAPL) is now defaulting to DoD APL
  - https://informationassurance.us.army.mil/ia tools/index.php
- Automatic marketing channel within the federal government
- C&A-ready devices for DoD deployments with ready-made Deployment Guides



## Questions?

info@tachyondynamics.com

https://www.tachyondynamics.com/contact-us/

Twitter: <a>@TachyonDynamics</a>



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