DATA ITEM DESCRIPTION

Title: Information Assurance (IA) Test Plan

Number: DI-MGMT-81844 AMSC Number: N9221 DTIC Applicable: N/A Office of Primary Responsibility: SH/PEO IWS1.0 Applicable Forms: N/A Approval Date: 20111108 Limitation: N/A GIPDEP Applicable: N/A

Use/Relationship: The IA Test Plan will be used by the government to manage Information Assurance testing that will result in accreditation of the ship based information technology system to comply with Information Assurance policies and criteria.

This Data Item Description (DID) contains the format and content preparation instructions for the data resulting from the work task specified in the contract.

Requirements:

- 1.0 Format. The IA Test Plan shall be presented in a format similar to that of Figure 1.
- 2.0 <u>Content</u>. The plan shall contain the following Sections:
 - a. Introduction
 - b. System Nomenclature
 - c. Purpose of the test
 - d. A description of the system/subsystem being tested
 - e. Threat Model for System Under Test as it relates;
 - (1) Internal and External IA Threat Exploits
 - (2) Mitigations by Design, Inheritance or Procedure
 - f. Security Testing Boundary Diagram
 - g. Bill of Materials for Security Testing Boundary
 - h. Indicated Network topology with Test Points
 - i. Master Network Connection Report (MNCR) for Security Testing Boundary
 - j. Identify the applicable DISA approved Test Tools
 - k. Assumptions regarding test procedures, test conditions and test environment

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- 1. Test Point Matrix shall also identify:
 - (1) Machine under test
 - (2) DISA Approved Test Tool
 - (3) If Test Tool is installed on machine under test
 - (4) A justification for chosen Test Point and Test Tool.
- m. Personnel Responsibility Matrix which identifies names, official job titles, and functions and responsibilities.
- n. Security Test Resource that indicates:
 - (1) Required Materiel
 - (2) Materiel Provider
 - (3) Materiel Due Date
 - (4) Readiness Status
- o. Security Testing Schedule that address:
 - (1) Location
 - (2) Test Event Activity:
 - (a) In-Brief to Site Lead
 - (b) Execute Test
 - (c) Out-Brief to Site Lead
 - (d) Secure Assets and Materials
 - (4) Start and End Dates
 - (5) Lead Person for Test Event Activity
- p. The Security Test Procedures that address:
 - (1) Determining the risks and threat levels of the existing security implementations
 - (2) Network discovery procedures via automated tools
 - (3) Operating System discovery procedures via automated tools
 - (4) Discovering ports, protocols and services via automated tools
 - (5) Conduct vulnerability scan via automated tools
 - (6) Host Based Testing
 - (7) Application Testing
 - (8) Manual testing via applicable Security Technical Implementation Guide (STIG)
- q. Justification for any False Positives

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- r. Findings Matrix shall be included in the plan in a format similar of Figure 1 and shall also identify the following:
 - (1) Finding Tracking Number
 - (2) Configuration Name and Nomenclature
 - (3) Affected Internet Protocol Address
 - (4) Network Node Name
 - (5) Title of STIG Reference including STIG Version
 - (6) STIG Reference Paragraph
 - (7) Applicable IA Controls from DoDI 8500.2
 - (8) Vulnerability Findings
 - (9) Rationale why compliance is not met
 - (10) Severity Risk Rating (Cat I, II, III)
 - (11) Consequence or Impact of vulnerability
 - (12) Recommendation for correcting the findings
 - (13) Engineering Response
 - (14) Estimated Completion Date
 - (15) Status of Fix Verification

3.0 <u>Media Requirement.</u> The IA Test Plan electronic media shall be Microsoft Office Word Version 2003-2007.

4.0 End of DI-MGMT-81844.

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Figure 1

INFORMATION ASSURANCE FINDINGS MATRIX

Finding Tracking Number	Configuration Name and Nomenclature	Affected Internet Protocol Address	Network Name	Finding or Vulnerability	Consequence or Impact	Risk Rating	Recommendation	Engineering Response	Estimated Completion Date	Status of Fix Verification	Comments	
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