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# DIGITAL SECURITY PROGRAM (DSP)

# **ACME Business Consulting, Inc.**





# TABLE OF CONTENTS

NOTICE – REFERENCED FRAMEWORKS & SUPPORTING PRACTICES	25
DIGITAL SECURITY PROGRAM (DSP) OVERVIEW	26
INTRODUCTION	26
Purpose	26
SCOPE & APPLICABILITY	27
Policy Overview	27
VIOLATIONS OF POLICIES, STANDARDS AND/OR PROCEDURES	27
Exception To Standards	27
UPDATES TO POLICIES & STANDARDS	27
Key Terminology	28
CYBERSECURITY & DATA PROTECTION PROGRAM STRUCTURE	30
MANAGEMENT DIRECTION FOR CYBERSECURITY & DATA PROTECTION	30
POLICIES, CONTROLS, STANDARDS, PROCEDURES & GUIDELINES STRUCTURE	30
CYBERSECURITY & DATA PROTECTION (GOV) POLICY & STANDARDS	32
GOV-01: CYBERSECURITY & DATA PROTECTION GOVERNANCE PROGRAM	32
GOV-01.1: CYBERSECURITY & DATA PROTECTION GOVERNANCE PROGRAM   STEERING COMMITTEE & PROGRAM OVERSIGHT	32
GOV-01.2: Cybersecurity & Data Protection Governance Program J Status Reporting To Governing Body GOV-02: Publishing Cybersecurity & Data Protection Documentation	32 <b>33</b>
GOV-02. 1: Publishing Cybersecurity & Data Protection Documentation	33
GOV-02.1. POBLISHING CHERSECONTR & DATA PROTECTION DOCOMENTATION 7 EXCEPTION MANAGEMENT GOV-03: PERIODIC REVIEW & UPDATE OF CYBERSECURITY & DATA PROTECTION PROGRAM	34
GOV-04: Assigned Cybersecurity & Data Protection Responsibilities	34
GOV-04.1: Assigned Cybersecurity & Data Protection Responsibilities   Accountability Structure	34
GOV-04.2: Assigned Cybersecurity & Data Protection Responsibilities   Authoritative Chain of Command	34
GOV-05: MEASURES OF PERFORMANCE	35
GOV-05.1: Measures of Performance   Key Performance Indicators (KPIs)	35
GOV-05.2: Measures of Performance   Key Risk Indicators (KRIs)	35
GOV-06: CONTACTS WITH AUTHORITIES	36
GOV-07: CONTACTS WITH GROUPS & ASSOCIATIONS	36
GOV-08: DEFINED BUSINESS CONTEXT & MISSION	36
GOV-09: DEFINED CONTROL OBJECTIVES	36 37
GOV-10: DATA GOVERNANCE GOV-11: PURPOSE VALIDATION	37
GOV-11: FORFOSE VALIDATION GOV-12: FORCED TECHNOLOGY TRANSFER (FTT)	37
GOV-13: STATE-SPONSORED ESPIONAGE	38
GOV-14: BUSINESS AS USUAL (BAU) SECURE PRACTICES	39
GOV-15: OPERATIONALIZING CYBERSECURITY & DATA PROTECTION PRACTICES	39
GOV-15.1: OPERATIONALIZING CYBERSECURITY & DATA PROTECTION PRACTICES   SELECT CONTROLS	39
GOV-15.2: OPERATIONALIZING CYBERSECURITY & DATA PROTECTION PRACTICES   IMPLEMENT CONTROLS	39
GOV-15.3: OPERATIONALIZING CYBERSECURITY & DATA PROTECTION PRACTICES   ASSESS CONTROLS	40
GOV-15.4: OPERATIONALIZING CYBERSECURITY & DATA PROTECTION PRACTICES   AUTHORIZE SYSTEMS, APPLICATIONS &	
SERVICES	40
GOV-15.5: OPERATIONALIZING CYBERSECURITY & DATA PROTECTION PRACTICES   MONITOR CONTROLS	40
ARTIFICIAL INTELLIGENCE AND AUTONOMOUS TECHNOLOGIES (AAT)	41
AAT-01: ARTIFICIAL INTELLIGENCE (AI) & AUTONOMOUS TECHNOLOGIES GOVERNANCE	41
AAT-01.1: ARTIFICIAL INTELLIGENCE (AI) & AUTONOMOUS TECHNOLOGIES GOVERNANCE   AI & AUTONOMOUS	12
Technologies-Related Legal Requirements Definition AAT-01.2: Artificial Intelligence (AI) & Autonomous Technologies Governance   Trustworthy AI &	42
AAT-01.2: ARTIFICIAL INTELLIGENCE (AT) & AUTONOMOUS TECHNOLOGIES GOVERNANCE   TRUSTWORTHY AT& AUTONOMOUS TECHNOLOGIES	42
ADTONOMOUS TECHNOLOGIES AAT-01.3: ARTIFICIAL INTELLIGENCE (AI) & AUTONOMOUS TECHNOLOGIES GOVERNANCE   AI & AUTONOMOUS	42
Technologies Value Sustainment	43
AAT-02: SITUATIONAL AWARENESS OF AI & AUTONOMOUS TECHNOLOGIES	43
AAT-02.1: SITUATIONAL AWARENESS OF AI & AUTONOMOUS TECHNOLOGIES   AI & AUTONOMOUS TECHNOLOGIES RISK	-
MAPPING	43
AAT-02.2: SITUATIONAL AWARENESS OF AI & AUTONOMOUS TECHNOLOGIES   AI & AUTONOMOUS TECHNOLOGIES	
INTERNAL CONTROLS	43
AAT-03: AI & AUTONOMOUS TECHNOLOGIES CONTEXT DEFINITION	44

AAT-03.1: AI & AUTONOMOUS TECHNOLOGIES CONTEXT DEFINITION   AI & AUTONOMOUS TECHNOLOGIES MISSION AND	
<i>GOALS DEFINITION</i>	44
AAT-04: AI & AUTONOMOUS TECHNOLOGIES BUSINESS CASE	44
AAT-04.1: AI & AUTONOMOUS TECHNOLOGIES BUSINESS CASE   AI & AUTONOMOUS TECHNOLOGIES POTENTIAL BENEFITS	
Analysis	45
AAT-04.2: AI & AUTONOMOUS TECHNOLOGIES BUSINESS CASE   AI & AUTONOMOUS TECHNOLOGIES POTENTIAL COSTS	
Analysis	45
AAT-04.3: AI & Autonomous Technologies business Case   AI & Autonomous Technologies Targeted	
Application Scope	45
AAT-04.4: AI & AUTONOMOUS TECHNOLOGIES BUSINESS CASE   AI & AUTONOMOUS TECHNOLOGIES COST / BENEFIT	
MAPPING	45
AAT-05: AI & AUTONOMOUS-SPECIFIC TRAINING	45
AAT-06: AI & AUTONOMOUS TECHNOLOGIES FAIRNESS & BIAS	46
AAT-07: AI & AUTONOMOUS TECHNOLOGIES RISK MANAGEMENT DECISIONS	46
AAT-07.1: AI & AUTONOMOUS TECHNOLOGIES RISK MANAGEMENT DECISIONS   AI & AUTONOMOUS TECHNOLOGIES	
	46
AAT-07.2: AI & AUTONOMOUS TECHNOLOGIES RISK MANAGEMENT DECISIONS   AI & AUTONOMOUS TECHNOLOGIES	
Likelihood & Impact Risk Analysis	47
AAT-07.3: AI & AUTONOMOUS TECHNOLOGIES RISK MANAGEMENT DECISIONS   AI & AUTONOMOUS TECHNOLOGIES	47
CONTINUOUS IMPROVEMENTS	47
AAT-08: ASSIGNED RESPONSIBILITIES FOR AI & AUTONOMOUS TECHNOLOGIES	47 47
AAT-09: AI & AUTONOMOUS TECHNOLOGIES RISK PROFILING AAT-10: ARTIFICIAL INTELLIGENCE TEST, EVALUATION, VALIDATION & VERIFICATION (AI TEVV)	47
	40
AAT-10.1: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Trustworthiness Assessment	48
AAT-10.2: Artificial Intelligence Test, Evaluation, Validation & Verification (ALTEVV)   ALTEVV Tools	40 48
AAT-10.2: ARTIFICIAL INTELLIGENCE TEST, EVALUATION, VALIDATION & VERIFICATION (ATTEVV)   ATTEVV TOOLS AAT-10.3: ARTIFICIAL INTELLIGENCE TEST, EVALUATION, VALIDATION & VERIFICATION (ATTEVV)   ATTEVV	40
Trustworthiness Demonstration	49
AAT-10.4: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Safety	
DEMONSTRATION	49
AAT-10.5: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Resiliency	75
Assessment	49
AAT-10.6: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Transparency	45
& ACCOUNTABILITY ASSESSMENT	49
AAT-10.7: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Privacy	
ASSESSMENT	49
AAT-10.8: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Fairness &	
BIAS ASSESSMENT	50
AAT-10.9: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI & Autonomous	
Technologies Model Validation	50
AAT-10.10: ARTIFICIAL INTELLIGENCE TEST, EVALUATION, VALIDATION & VERIFICATION (AI TEVV)   AI TEVV RESULTS	
EVALUATION	50
AAT-10.11: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Effectiveness	50
AAT-10.12: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Comparable	
DEPLOYMENT SETTINGS	50
AAT-10.13: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   AI TEVV Post-	
DEPLOYMENT MONITORING	51
AAT-10.14: Artificial Intelligence Test, Evaluation, Validation & Verification (AI TEVV)   Updating AI &	
Autonomous Technologies	51
AAT-11: ROBUST STAKEHOLDER ENGAGEMENT FOR AI & AUTONOMOUS TECHNOLOGIES	51
AAT-11.1: ROBUST STAKEHOLDER ENGAGEMENT FOR AI & AUTONOMOUS TECHNOLOGIES   AI & AUTONOMOUS	
TECHNOLOGIES STAKEHOLDER FEEDBACK INTEGRATION	51
AAT-11.2: ROBUST STAKEHOLDER ENGAGEMENT FOR AI & AUTONOMOUS TECHNOLOGIES   AI & AUTONOMOUS	
TECHNOLOGIES ONGOING ASSESSMENTS	52
AAT-11.3: ROBUST STAKEHOLDER ENGAGEMENT FOR AI & AUTONOMOUS TECHNOLOGIES   AI & AUTONOMOUS	
TECHNOLOGIES END USER FEEDBACK	52
AAT-11.4: ROBUST STAKEHOLDER ENGAGEMENT FOR AI & AUTONOMOUS TECHNOLOGIES   AI & AUTONOMOUS	50
TECHNOLOGIES INCIDENT & ERROR REPORTING	52



AAT-12: AI & AUTONOMOUS TECHNOLOGIES INTELLECTUAL PROPERTY INFRINGEMENT PROTECTIONS	52
AAT-13: AI & AUTONOMOUS TECHNOLOGIES STAKEHOLDER DIVERSITY	53
AAT-13.1: AI & Autonomous Technologies Stakeholder Diversity   AI & Autonomous Technologies	
Stakeholder Competencies	53
AAT-14: AI & AUTONOMOUS TECHNOLOGIES REQUIREMENTS DEFINITIONS	53
AAT-14.1: AI & AUTONOMOUS TECHNOLOGIES REQUIREMENTS DEFINITIONS   AI & AUTONOMOUS TECHNOLOGIES	
Implementation Tasks Definition	53
AAT-14.2: AI & AUTONOMOUS TECHNOLOGIES REQUIREMENTS DEFINITIONS   AI & AUTONOMOUS TECHNOLOGIES	
KNOWLEDGE LIMITS	53
AAT-15: AI & AUTONOMOUS TECHNOLOGIES VIABILITY DECISIONS	54
AAT-15.1: AI & AUTONOMOUS TECHNOLOGIES VIABILITY DECISIONS   AI & AUTONOMOUS TECHNOLOGIES NEGATIVE	
Residual Risks	54
AAT-15.2: AI & AUTONOMOUS TECHNOLOGIES VIABILITY DECISIONS   RESPONSIBILITY TO SUPERSEDE, DEACTIVATE AND/OR	
DISENGAGE AI & AUTONOMOUS TECHNOLOGIES	54
AAT-16: AI & AUTONOMOUS TECHNOLOGIES PRODUCTION MONITORING	54
AAT-16.1: AI & AUTONOMOUS TECHNOLOGIES PRODUCTION MONITORING   AI & AUTONOMOUS TECHNOLOGIES	
MEASUREMENT APPROACHES	55
AAT-16.2: AI & AUTONOMOUS TECHNOLOGIES PRODUCTION MONITORING   MEASURING AI & AUTONOMOUS	
TECHNOLOGIES EFFECTIVENESS	55
AAT-16.3: AI & AUTONOMOUS TECHNOLOGIES PRODUCTION MONITORING   UNMEASURABLE AI & AUTONOMOUS	
TECHNOLOGIES RISKS	55
AAT-16.4: AI & AUTONOMOUS TECHNOLOGIES PRODUCTION MONITORING   EFFICACY OF AI & AUTONOMOUS	50
TECHNOLOGIES MEASUREMENT	56
AAT-16.5: AI & AUTONOMOUS TECHNOLOGIES PRODUCTION MONITORING   AI & AUTONOMOUS TECHNOLOGIES DOMAIN	56
EXPERT REVIEWS	56
AAT-16.6: AI & AUTONOMOUS TECHNOLOGIES PRODUCTION MONITORING   AI & AUTONOMOUS TECHNOLOGIES PERFORMANCE CHANGES	56
AAT-16.7: AI & AUTONOMOUS TECHNOLOGIES PRODUCTION MONITORING   PRE-TRAINED AI & AUTONOMOUS	50
Technologies Models	56
AAT-17: AI & AUTONOMOUS TECHNOLOGIES HARM PREVENTION	50 57
AAT-17. AI & AUTONOMOUS TECHNOLOGIES HARM PREVENTION AAT-17.1: AI & AUTONOMOUS TECHNOLOGIES HARM PREVENTION   AI & AUTONOMOUS TECHNOLOGIES HUMAN SUBJECT	57
PROTECTIONS	57
AAT-17.2: AI & AUTONOMOUS TECHNOLOGIES HARM PREVENTION   AI & AUTONOMOUS TECHNOLOGIES ENVIRONMENTAL	57
IMPACT & SUSTAINABILITY	58
AAT-17.3: AI & AUTONOMOUS TECHNOLOGIES HARM PREVENTION   PREVIOUSLY UNKNOWN AI & AUTONOMOUS	50
TECHNOLOGIES THREATS & RISKS	58
AAT-18: AI & AUTONOMOUS TECHNOLOGIES RISK TRACKING APPROACHES	59
AAT-18.1: AI & AUTONOMOUS TECHNOLOGIES RISK TRACKING APPROACHES   AI & AUTONOMOUS TECHNOLOGIES RISK	
RESPONSE	59
SET MANAGEMENT (AST) POLICY & STANDARDS	60
AST-01: ASSET GOVERNANCE	60
AST-01.1: Asset Governance   Asset-Service Dependencies	60
AST-01.2: Asset Governance   Stakeholder Identification & Involvement	61
AST-01.3: Asset Governance   Standardized Naming Convention	61
AST-02: Asset Inventories	61
AST-02.1: Asset Inventories Updates During Installations/Removals	62
AST-02.2: Asset Inventories   Automated Unauthorized Component Detection	62
AST-02.3: Asset Inventories   Component Duplication Avoidance	62
AST-02.4: Asset Inventories   Approved Baseline Deviations	63
AST-02.5: Asset Inventories   Network Access Control (NAC)	63
AST-02.6: Asset Inventories   Dynamic Host Configuration Protocol (DHCP) Server Logging	63
AST-02.7: Asset Inventories   Software Licensing Restrictions	63
AST-02.8: Asset Inventories   Data Action Mapping	63
AST-02.9: Asset Inventories   Configuration Management Database (CMDB)	64
AST-02.10: Asset Inventories   Automated Location Tracking	64
AST-02.11: Asset Inventories   Component Assignment	64
AST-03: Asset Ownership Assignment	64
AST-03.1: Asset Ownership Assignment   Accountability Information	65
·	

	-
AST-03.2: Asset Ownership Assignment   Provenance	65
AST-04: NETWORK DIAGRAMS & DATA FLOW DIAGRAMS (DFDs)	<b>66</b> 67
AST-04.1: NETWORK DIAGRAMS & DATA FLOW DIAGRAMS (DFDs)   ASSET SCOPE CLASSIFICATION	67
AST-04.2: NETWORK DIAGRAMS & DATA FLOW DIAGRAMS (DFDs)   CONTROL APPLICABILITY BOUNDARY GRAPHICAL	67
REPRESENTATION	-
AST-04.3: NETWORK DIAGRAMS & DATA FLOW DIAGRAMS (DFDs)   COMPLIANCE-SPECIFIC ASSET IDENTIFICATION	67
AST-05: SECURITY OF ASSETS & MEDIA	68
AST-05.1: SECURITY OF ASSETS & MEDIA   MANAGEMENT APPROVAL FOR EXTERNAL MEDIA TRANSFER	68
AST-06: UNATTENDED END-USER EQUIPMENT	68
AST-06.1: UNATTENDED END-USER EQUIPMENT   ASSET STORAGE IN AUTOMOBILES	69
AST-07: KIOSKS & POINT OF INTERACTION (POI) DEVICES	69
AST-08: TAMPER DETECTION	69
AST-09: SECURE DISPOSAL, DESTRUCTION OR RE-USE OF EQUIPMENT	70
AST-10: RETURN OF ASSETS	70
AST-11: REMOVAL OF ASSETS	71
AST-12: USE OF PERSONAL DEVICES	71
AST-13: USE OF THIRD-PARTY DEVICES	71
AST-14: USAGE PARAMETERS	72
AST-14.1: USAGE PARAMETERS   BLUETOOTH & WIRELESS DEVICES	72
AST-14.2: Usage Parameters   Infrared Communications	72
AST-15: TAMPER PROTECTION	73
AST-15.1: TAMPER PROTECTION   INSPECTION OF SYSTEMS, COMPONENTS & DEVICES	73
AST-16: BRING YOUR OWN DEVICE (BYOD) USAGE	73
AST-17: PROHIBITED EQUIPMENT & SERVICES	74
AST-18: ROOTS OF TRUST PROTECTION	75
AST-19: TELECOMMUNICATIONS EQUIPMENT	75
AST-20: VIDEO TELECONFERENCE (VTC) SECURITY	75
AST-21: VOICE OVER INTERNET PROTOCOL (VOIP) SECURITY	76
AST-22: MICROPHONES & WEB CAMERAS	76
AST-23: MULTI-FUNCTION DEVICES (MFD)	76
AST-24: TRAVEL-ONLY DEVICES	77
AST-25: RE-IMAGING DEVICES AFTER TRAVEL	77
AST-26: SYSTEM ADMINISTRATIVE PROCESSES	77
AST-27: JUMP SERVER	78
AST-28: DATABASE ADMINISTRATIVE PROCESSES	78
AST-28.1: DATABASE ADMINISTRATIVE PROCESSES   DATABASE MANAGEMENT SYSTEM (DBMS)	78
AST-29: RADIO FREQUENCY IDENTIFICATION (RFID) SECURITY	79
AST-29.1: RADIO FREQUENCY IDENTIFICATION (RFID) SECURITY   CONTACTLESS ACCESS CONTROL SYSTEMS	79
AST-30: DECOMMISSIONING	80
AST-31: Asset Categorization	81
AST-31.1: Asset Categorization   Categorize Artificial Intelligence (AI)-Related Technologies	81
ISINESS CONTINUITY & DISASTER RECOVERY (BCD) POLICY & STANDARDS	82
BCD-01: BUSINESS CONTINUITY MANAGEMENT SYSTEM (BCMS)	82
BCD-01.1: Business Continuity Management System (BCMS)   Coordinate with Related Plans	82
BCD-01.2: BUSINESS CONTINUITY MANAGEMENT SYSTEM (BCMS)   COORDINATE WITH EXTERNAL SERVICE PROVIDERS	83
BCD-01.3: BUSINESS CONTINUITY MANAGEMENT SYSTEM (BCMS)   TRANSFER TO ALTERNATE PROCESSING/STORAGE SITE	83
BCD-01.4: Busin <mark>ess Contin</mark> uity Management System (BCMS)   Recovery Time/Point Objectives (RTO/RPO)	83
BCD-02: Identify Critical Assets	84
BCD-02.1: IDENTIFY CRITICAL ASSETS   RESUME ALL MISSIONS & BUSINESS FUNCTIONS	84
BCD-02.2: IDENTIFY CRITICAL ASSETS   CONTINUE ESSENTIAL MISSION & BUSINESS FUNCTIONS	84
BCD-02.3: IDENTIFY CRITICAL ASSETS   RESUME ESSENTIAL MISSION & BUSINESS FUNCTIONS	85
BCD-02.4: IDENTIFY CRITICAL ASSETS   DATA STORAGE LOCATION REVIEWS	85
BCD-03: CONTINGENCY TRAINING	85
BCD-03.1: CONTINGENCY TRAINING   SIMULATED EVENTS	86
	86
BCD-03.2: CONTINGENCY TRAINING   AUTOMATED TRAINING ENVIRONMENTS	
BCD-03.2: CONTINGENCY TRAINING   AUTOMATED TRAINING ENVIRONMENTS BCD-04: CONTINGENCY PLAN TESTING & EXERCISES	86
	<b>86</b> 86

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BCD-06: Contingency Planning & Updates BCD-07: Alternative Security Measures	8
BCD-08: ALTERNATIVE SECONT I MERSONES BCD-08: ALTERNATE STORAGE SITE	8
BCD-08.1: ALTERNATE STORAGE SITE   SEPARATION FROM PRIMARY SITE	8
BCD-08.2: ALTERNATE STORAGE SITE   ACCESSIBILITY	8
BCD-09: Alternate Processing Site	8
BCD-09.1: ALTERNATE PROCESSING SITE   SEPARATION FROM PRIMARY SITE	8
BCD-09.2: Alternate Processing Site   Accessibility	8
BCD-09.3: ALTERNATE PROCESSING SITE   ALTERNATE SITE PRIORITY OF SERVICE	8
BCD-09.4: ALTERNATE PROCESSING SITE   PREPARATION FOR USE	8
BCD-09.5: ALTERNATE PROCESSING SITE   INABILITY TO RETURN TO PRIMARY SITE	9
BCD-10: TELECOMMUNICATIONS SERVICES AVAILABILITY	ç
BCD-10.1: Telecommunications Services Availability   Telecommunications Priority of Service Provisions	9
BCD-10.2: TELECOMMUNICATIONS SERVICES AVAILABILITY   SEPARATION OF PRIMARY/ALTERNATE PROVIDERS	ç
BCD-10.3: TELECOMMUNICATIONS SERVICES AVAILABILITY   PROVIDER CONTINGENCY PLAN	9
BCD-10.4: Telecommunications Services Availability   Alternate Communications Paths	6
BCD-11: DATA BACKUPS	ģ
BCD-11.1: DATA BACKUPS   TESTING FOR RELIABILITY & INTEGRITY	9
BCD-11.2: DATA BACKUPS   SEPARATE STORAGE FOR CRITICAL INFORMATION	9
BCD-11.3: DATA BACKUPS   INFORMATION SYSTEM IMAGING	9
BCD-11.4: DATA BACKUPS   CRYPTOGRAPHIC PROTECTION	
BCD-11.5: DATA BACKUPS   TEST RESTORATION USING SAMPLING	
BCD-11.6: DATA BACKUPS   TRANSFER TO ALTERNATE STORAGE SITE	
BCD-11.7: DATA BACKUPS   REDUNDANT SECONDARY SYSTEM	(
BCD-11.8: DATA BACKUPS   DUAL AUTHORIZATION FOR BACKUP MEDIA DESTRUCTION	
BCD-11.9: DATA BACKUPS   BACKUP ACCESS	9
BCD-11.10: DATA BACKUPS   BACKUP MODIFICATION AND/OR DESTRUCTION	
BCD-12: INFORMATION SYSTEM RECOVERY & RECONSTITUTION	9
BCD-12.1: INFORMATION SYSTEM RECOVERY & RECONSTITUTION   TRANSACTION RECOVERY	9
BCD-12.2: INFORMATION SYSTEM RECOVERY & RECONSTITUTION   FAILOVER CAPABILITY	0
BCD-12.3: INFORMATION SYSTEM RECOVERY & RECONSTITUTION   ELECTRONIC DISCOVERY (EDISCOVERY)	9
BCD-12.4: INFORMATION SYSTEM RECOVERY & RECONSTITUTION   RESTORE WITHIN TIME PERIOD	9
BCD-13: BACKUP & RESTORATION HARDWARE PROTECTION	9
BCD-14: ISOLATED RECOVERY ENVIRONMENT	9
BCD-15: RESERVE HARDWARE	9
BCD-16: AI & AUTONOMOUS TECHNOLOGIES INCIDENTS	9
ACITY & PERFORMANCE PLANNING (CAP) POLICY & STANDARDS	
CAP-01: CAPACITY & PERFORMANCE MANAGEMENT	ç
CAP-02: Resource Priority	<u> </u>
CAP-03: CAPACITY PLANNING	- -
CAP-04: PERFORMANCE MONITORING	10
INGE MANAGEMENT (CHG) POLICY & STANDARDS	
CHG-01: CHANGE MANAGEMENT PROGRAM	10
CHG-02: CONFIGURATION CHANGE CONTROL	10
CHG-02.1: CONFIGURATION CHANGE CONTROL   PROHIBITION OF CHANGES	1(
CHG-02.2: CONFIGURATION CHANGE CONTROL   TEST, VALIDATE & DOCUMENT CHANGES	10
CHG-02.3: CONFIGURATION CHANGE CONTROL   CYBERSECURITY & DATA PRIVACY REPRESENTATIVE FOR ASSET LIFECYCLE	
CHANGES	10
CHG-02.4: CONFIGURATION CHANGE CONTROL   AUTOMATED SECURITY RESPONSE	10
CHG-02.5: CONFIGURATION CHANGE CONTROL   CRYPTOGRAPHIC MANAGEMENT	1(
CHG-03: SECURITY IMPACT ANALYSIS FOR CHANGES	10
CHG-04: Access Restriction For Change	10
CHG-04.1: Access Restrictions For Change   Automated Access Enforcement/Auditing	10
CHG-04.2: Access Restrictions For Change   Signed Components	10
CHG-04.3: Access Restrictions For Change   Dual Authorization for Change	10
A HALLING AS DECENSED AND A LIANCE LANCE LANCE DODUCTION (C) DEDATIONAL DRIVILECES (INCOMPATIRUE DOLES)	10
CHG-04.4: Access Restrictions For Change   Limit Production/Operational Privileges (Incompatible Roles) CHG-04.5: Access Restrictions For Change   Library Privileges	10

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CHG-05: STAKEHOLDER NOTIFICATION OF CHANGES	106
CHG-06: Cybersecurity Functionality Verification	106
CHG-06.1: Cybersecurity Functionality Verification   Report Verification Results	106
CLOUD SECURITY (CLD) POLICY & STANDARDS	107
CLD-01: CLOUD SERVICES	107
CLD-01.1: CLOUD SERVICES   CLOUD INFRASTRUCTURE ONBOARDING	107
CLD-01.2: CLOUD SERVICES   CLOUD INFRASTRUCTURE OFFBOARDING	108
CLD-02: CLOUD SECURITY ARCHITECTURE	108
CLD-03: CLOUD INFRASTRUCTURE SECURITY SUBNET	108
CLD-04: Application & Program Interface (API) Security	109
CLD-05: VIRTUAL MACHINE IMAGES	109
CLD-06: MULTI-TENANT ENVIRONMENTS	109
CLD-06.1: MULTI-TENANT ENVIRONMENTS   CUSTOMER RESPONSIBILITY MATRIX (CRM)	109
CLD-06.2: MULTI-TENANT ENVIRONMENTS   MULTI-TENANT EVENT LOGGING CAPABILITIES	110 110
CLD-06.3: MULTI-TENANT ENVIRONMENTS   MULTI-TENANT FORENSICS CAPABILITIES CLD-06.4: MULTI-TENANT ENVIRONMENTS   MULTI-TENANT INCIDENT RESPONSE CAPABILITIES	110 110
CLD-06.4. MOLTI-TENANT ENVIRONMENTS   MOLTI-TENANT INCIDENT RESPONSE CAPABILITIES	110 111
CLD-07: DATA HANDEING & FORTABILITY CLD-08: STANDARDIZED VIRTUALIZATION FORMATS	111
CLD-09 GEOLOCATION REQUIREMENTS FOR PROCESSING, STORAGE AND SERVICE LOCATIONS	111
CLD-10: SENSITIVE DATA IN PUBLIC CLOUD PROVIDERS	111
CLD-11: CLOUD ACCESS POINT (CAP)	112
CLD-12: SIDE CHANNEL ATTACK PREVENTION	112
CLD-13: HOSTED SYSTEMS, APPLICATIONS & SERVICES	112
CLD-13.1: Hosted Systems, Applications & Services   Authorized Individuals For Hosted Systems, Applications & Services	113
CLD-13.2: Hosted Systems, Applications & Services   Sensitive/Regulated Data On Hosted Systems, Applications	
& Services	113
CLD-14: PROHIBITION ON UNVERIFIED HOSTED SYSTEMS, APPLICATIONS & SERVICES	114
COMPLIANCE (CPL) POLICY & STANDARDS	115
CPL-01: STATUTORY, REGULATORY & CONTRACTUAL COMPLIANCE	115
CPL-01.1: Statutory, Regulatory & Contractual Compliance   Non-Compliance Oversight	115
CPL-01.2: Statutory, Regulatory & Contractual Compliance   Compliance Scope	115
CPL-02: Cybersecurity & Data Protection Controls Oversight	116
CPL-02.1: Cybersec <mark>ur</mark> ity & Data Protection Controls Oversight   Internal Audit Function	117
CPL-03: Cybersecurity & Data Protection Assessments	117
CPL-03.1: Cybersecurity & Data Protection Assessments   Independent Assessors CPL-03.2: Cybersecurity & Data Protec <mark>tion</mark> Assessments   Functional Review Of Cybersecurity & Data	117
PROTECTION CONTROLS	118
CPL-04: AUDIT ACTIVITIES	118
CPL-05: LEGAL ASSESSMENT OF INVESTIGATIVE INQUIRES	118
CPL-05.1: LEGAL ASSESSMENT OF INVESTIGATIVE INQUIRES   INVESTIGATION REQUEST NOTIFICATIONS	119
CPL-05.2: LEGAL ASSESSMENT OF INVESTIGATIVE INQUIRES   INVESTIGATION ACCESS RESTRICTIONS	119
CPL-06: GOVERNMENT SURVEILLANCE	119
CONFIGURATION MANAGEMENT (CFG) POLICY & STANDARDS	120
CFG-01: CONFIGURATION MANAGEMENT PROGRAM	120
CFG-01.1: CONFIGURATION MANAGEMENT PROGRAM   ASSIGNMENT OF RESPONSIBILITY	120
CFG-02: System Hardening Through Baseline Configurations	121
CFG-02.1: System Hardening Through Baseline Configurations   Reviews & Updates	122
CFG-02.2: System Hardening Through Baseline Configurations   Automated Central Management &	122
Verification CFG-02.3: System Hardening Through Baseline Configurations   Retention Of Previous Configurations	122
CFG-02.3. SYSTEM HARDENING THROUGH BASELINE CONFIGURATIONS   TRETENTION OF FREVIOUS CONFIGURATIONS CFG-02.4: SYSTEM HARDENING THROUGH BASELINE CONFIGURATIONS   DEVELOPMENT & TEST ENVIRONMENTS	123
CFG-02.5: System Hardening Through Baseline Configurations   Configure Systems, Components or Devices	
FOR HIGH-RISK AREAS	123
CFG-02.6: System Hardening Through Baseline Configurations   Network Device Configuration File	424
SYNCHRONIZATION CEC. 02. 7: System Hardening Turqueue Paseling Configurations I. Addredued Configuration Deviations	124 124
CFG-02.7: System Hardening Through Baseline Configurations   Approved Configuration Deviations	124

CFG-02.8: System Hardening Through Baseline Configurations   Respond To Unauthorized Changes	124
CFG-02.9: System Hardening Through Baseline Configurations   Baseline Tailoring	125
CFG-03: LEAST FUNCTIONALITY	125
CFG-03.1: Least Functionality   Periodic Review	126
CFG-03.2: Least Functionality   Prevent Unauthorized Software Execution	127
CFG-03.3: Least Functionality   Unauthorized or Authorized Software (Blacklisting or Whitelisting)	127
CFG-03.4: Least Functionality   Split Tunneling	127
CFG-04: SOFTWARE USAGE RESTRICTIONS	128
CFG-04.1: Software Usage Restrictions   Open Source Software	128
CFG-04.2: Software Usage Restrictions   Unsupported Internet Browsers & Email Clients	129
CFG-05: USER-INSTALLED SOFTWARE	129
CFG-05.1: User-Installed Software   Unauthorized Installation Alerts	129
CFG-05.2: User-Installed Software   Prohibit Installation Without Privileged Status	129
CFG-06: CONFIGURATION ENFORCEMENT	130
CFG-07: ZERO-TOUCH PROVISIONING (ZTP)	130
CFG-08: Sensitive / Regulated Data Access Enforcement	130
CFG-08.1: Sensitive / Regulated Data Access Enforcement   Sensitive / Regulated Data Actions	131
CONTINUOUS MONITORING (MON) POLICY & STANDARDS	132
MON-01: CONTINUOUS MONITORING	132
MON-01.1: CONTINUOUS MONITORING   INTRUSION DETECTION & PREVENTION SYSTEMS (IDS & IPS)	133
MON-01.2: CONTINUOUS MONITORING   AUTOMATED TOOLS FOR REAL-TIME ANALYSIS	133
MON-01.3: CONTINUOUS MONITORING   INBOUND & OUTBOUND COMMUNICATIONS TRAFFIC	133
MON-01.4: CONTINUOUS MONITORING   SYSTEM GENERATED ALERTS	134
MON-01.5: CONTINUOUS MONITORING   WIRELESS INTRUSION DETECTION SYSTEM (WIDS)	135
MON-01.6: CONTINUOUS MONITORING   HOST-BASED DEVICES	135
MON-01.7: Continuous Monitoring   File Integrity Monitoring (FIM)	135
MON-01.8: CONTINUOUS MONITORING   REVIEWS & UPDATES	136
MON-01.9: CONTINUOUS MONITORING   PROXY LOGGING	136
MON-01.10: CONTINUOUS MONITORING   DEACTIVATED ACCOUNT ACTIVITY	136
MON-01.11: CONTINUOUS MONITORING   AUTOMATED RESPONSE TO SUSPICIOUS EVENTS	137
MON-01.12: CONTINUOUS MONITORING   AUTOMATED ALERTS	137
MON-01.13: CONTINUOUS MONITORING   ALERT THRESHOLD TUNING	137
MON-01.14: Continuous Monitoring / Individuals Posing Greater Risk	137
MON-01.15: Continuous Monitoring   Privileged User Oversight	138
MON-01.16: Conti <mark>nuo</mark> us Monitoring   Analyze & Prioritize Monitoring Requirements	138
MON-01.17: Continuous Monitoring   Real-Time Session Monitoring	138
MON-02: CENTRALIZED EVENT LOG COLLECTION	139
MON-02.1: Centralized Security Event Log Collection   Correlate Monitoring Information	140
MON-02.2: Centralized Security Event Log Collection   Central Review & Analysis	140
MON-02.3: Centralized Security Event Log Collection   Integration of Scanning & Other Monitoring	
INFORMATION	140
MON-02.4: Centralized Security Event Log Collection   Correlation with Physical Monitoring	141
MON-02.5: CENTRALIZED SECURITY EVENT LOG COLLECTION   PERMITTED ACTIONS	141
MON-02.6: CENTRALIZED SECURI <mark>TY E</mark> VENT LOG COLLECTION   AUDIT LEVEL ADJUSTMENT	141
MON-02.7: CENTRALIZED SECURITY ÉVENT LOG COLLECTION   SYSTEM-WIDE/TIME-CORRELATED AUDIT TRAIL	141
MON-02.8: Centralized Security Event Log Collection   Changes by Authorized Individuals	142
MON-03: CONTENT OF EVENT LOGS	142
MON-03.1: CONTENT OF EVENT LOGS   SENSITIVE AUDIT INFORMATION	143
MON-03.2: CONTENT OF EVENT LOGS   AUDIT TRAILS	143
MON-03.3: CONTENT OF EVENT LOGS   PRIVILEGED FUNCTIONS LOGGING	144
MON-03.4: CONTENT OF EVENT LOGS   VERBOSITY LOGGING FOR BOUNDARY DEVICES	144
MON-03.5: CONTENT OF EVENT LOGS   LIMIT PERSONAL DATA (PD) IN AUDIT RECORDS	144
MON-03.6: CONTENT OF EVENT LOGS   CENTRALIZED MANAGEMENT OF PLANNED AUDIT RECORD CONTENT	145
MON-03.7: CONTENT OF EVENT LOGS   DATABASE LOGGING	145
MON-04: EVENT LOG STORAGE CAPACITY	145
MON-05: RESPONSE TO EVENT LOG PROCESSING FAILURES	146
MON-05.1: Response To Audit Processing Failures   Real-Time Alerts of Event Logging Failure	146
MON-05.2: Response To Audit Processing Failures   Event Log Storage Capacity Alerting	146

MON OC: MONITORING REPORTING	147
MON-06: MONITORING REPORTING MON-06.1: MONITORING REPORTING   QUERY PARAMETER AUDITS OF PERSONAL DATA	147
MON-06.2: MONITORING REPORTING   TREND ANALYSIS REPORTING	147
MON-07: TIME STAMPS	148
MON-07.1: TIME STAMPS   SYNCHRONIZATION WITH AUTHORITATIVE TIME SOURCE	148
MON-08: PROTECTION OF EVENT LOGS	148
MON-08.1: PROTECTION OF EVENT LOGS   EVENT LOG BACKUP ON SEPARATE PHYSICAL SYSTEMS / COMPONENTS	149
MON-08.2: PROTECTION OF EVENT LOGS   ACCESS BY SUBSET OF PRIVILEGED USERS	149
MON-08.3: PROTECTION OF EVENT LOGS   CRYPTOGRAPHIC PROTECTION OF EVENT LOG INFORMATION	149
MON-08.4: PROTECTION OF EVENT LOGS   DUAL AUTHORIZATION FOR EVENT LOG MOVEMENT	149
MON-09: NON-REPUDIATION	150
MON-09.1: Non-Repudiation   Identity Binding	150
MON-10: EVENT LOG RETENTION	151
MON-11: MONITORING FOR INFORMATION DISCLOSURE	151
MON-11.1: MONITORING FOR INFORMATION DISCLOSURE   ANALYZE TRAFFIC FOR COVERT EXFILTRATION	151
MON-11.2: MONITORING FOR INFORMATION DISCLOSURE   UNAUTHORIZED NETWORK SERVICES	151
MON-11.3: MONITORING FOR INFORMATION DISCLOSURE   MONITORING FOR INDICATORS OF COMPROMISE (IOC)	152
MON-12: Session Audit	152
MON-13: Alternate Event Logging Capability	152
MON-14: CROSS-ORGANIZATIONAL MONITORING	153
MON-14.1: Cross-Organizational Monitoring   Sharing of Event Logs	153
MON-15: COVERT CHANNEL ANALYSIS	153
MON-16 ANOMALOUS BEHAVIOR	154
MON-16.1: ANOMALOUS BEHAVIOR   INSIDER THREATS	154
MON-16.2: ANOMALOUS BEHAVIOR   THIRD-PARTY THREATS	154
MON-16.3: Anomalous Behavior   Unauthorized Activities	154
MON-16.4: Anomalous Behavior   Account Creation and Modification Logging	154
PPTOGRAPHIC PROTECTIONS (CRY) POLICY & STANDARDS	156
CRY-01: USE OF CRYPTOGRAPHIC CONTROLS	156
CRY-01.1: Use of Cryptographic Controls   Alternate Physical Protection	157
CRY-01.2: Use of Cryptographic Controls   Export-Controlled Technology	157
CRY-01.3: Use of Cryptographic Controls   Pre/Post Transmission Handling	157
CRY-01.4: Use of Cryptographic Controls   Conceal/Randomize Communications	157
CRY-01.5: Use of Cryptographic Controls   Cryptographic Cipher Suites and Protocols Inventory	158
CRY-02: CRYPTOGRAPHIC MODULE AUTHENTICATION	158
CRY-03: TRANSMISSION CONFIDENTIALITY	158
CRY-04: TRANSMISSION INTEGRITY	159
CRY-05: ENCRYPTING DATA AT REST	159
CRY-05.1: ENCRYPTING DATA AT REST   STORAGE MEDIA	160
CRY-05.2: ENCRYPTING DATA AT REST   OFFLINE STORAGE	160
CRY-05.3: ENCRYPTING DATA AT REST   DATABASE ENCRYPTION	160
CRY-06: NON-CONSOLE ADMINISTRATIVE ACCESS	161
CRY-07: WIRELESS ACCESS AUTHENTICATION & ENCRYPTION	161
CRY-08: PUBLIC KEY INFRASTRUCTURE (PKI)	162
CRY-08.1: PUBLIC KEY INFRASTRUCTURE (PKI)   AVAILABILITY	162
CRY-09: CRYPTOGRAPHIC KEY MANAGEMENT	162
CRY-09.1: CRYPTOGRAPHIC KEY MANAGEMENT   SYMMETRIC KEYS	164
CRY-09.2: CRYPTOGRAPHIC KEY MANAGEMENT   ASYMMETRIC KEYS	164
CRY-09.3: CRYPTOGRAPHIC KEY MANAGEMENT   CRYPTOGRAPHIC KEY LOSS OR CHANGE	164
CRY-09.4: CRYPTOGRAPHIC KEY MANAGEMENT   CONTROL & DISTRIBUTION OF CRYPTOGRAPHIC KEYS	165
CRY-09.5: CRYPTOGRAPHIC KEY MANAGEMENT   ASSIGNED OWNERS	165
CRY-09.6: CRYPTOGRAPHIC KEY MANAGEMENT   THIRD-PARTY CRYPTOGRAPHIC KEYS	166
CRY-09.7: CRYPTOGRAPHIC KEY MANAGEMENT   EXTERNAL SYSTEM CRYPTOGRAPHIC KEY CONTROL	166
CRY-10: TRANSMISSION OF CYBERSECURITY & DATA PRIVACY ATTRIBUTES	166
CRY-11: CERTIFICATE AUTHORITIES	166
ATA CLASSIFICATION & HANDLING (DCH) POLICY & STANDARDS	167
DCH-01: DATA PROTECTION	167
DCH-01.1: DATA PROTECTION   DATA STEWARDSHIP	167

DCH-01.2: DATA PROTECTION   SENSITIVE/REGULATED DATA PROTECTION	168
DCH-01.3: DATA PROTECTION   SENSITIVE / REGULATED MEDIA RECORDS	168
DCH-01.4: DATA PROTECTION   DEFINING ACCESS AUTHORIZATIONS FOR SENSITIVE / REGULATED DATA	168
DCH-02: DATA & ASSET CLASSIFICATION	169
DCH-02.1: DATA & Asset Classification   Highest Classification Level	169
DCH-03: MEDIA ACCESS	169
DCH-03.1: Media Access   Disclosure of Information	170
DCH-03.2: MEDIA ACCESS   MASKING DISPLAYED DATA	170
DCH-03.3: MEDIA ACCESS   CONTROLLED RELEASE	170
DCH-04: MEDIA MARKING	171
DCH-04.1: MEDIA MARKING   AUTOMATED MARKING	171
DCH-05: Cybersecurity & Data Privacy Attributes	171
DCH-05.1: Cybersecurity & Data Privacy Attributes   Dynamic Attribute Association	172
DCH-05.2: Cybersecurity & Data Privacy Attributes   Attribute Value Changes By Aut <mark>hori</mark> zed Individuals	172
DCH-05.3: Cybersecurity & Data Privacy Attributes   Maintenance of Attribute Associa <mark>tions B</mark> y System	172
DCH-05.4: Cybersecurity & Data Privacy Attributes   Association of Attributes By Authorized Individuals	172
DCH-05.5: Cybersecurity & Data Privacy Attributes   Attribute Displays fo <mark>r O</mark> utput Devices	172
DCH-05.6: Cybersecurity & Data Privacy Attributes   Data Subject Attribute Associations	173
DCH-05.7: Cybersecurity & Data Privacy Attributes   Consistent Attribute Interpretation	173
DCH-05.8: Cybersecurity & Data Privacy Attributes   Identity Association Techniques & Technologies	173
DCH-05.9: Cybersecurity & Data Privacy Attributes   Attribute Reassignment	173
DCH-05.10: Cybersecurity & Data Privacy Attributes   Attribute Configuration By Authorized Individuals	174
DCH-05.11: Cybersecurity & Data Privacy Attributes   Audit Changes	174
DCH-06: Media Storage	174
DCH-06.1: Media Storage   Physically Secure All Media	175
DCH-06.2: Media Storage   Sensitive Data Inventories	175
DCH-06.3: Media Storage   Periodic Scans for Sensitive Data	175
DCH-06.4: Media Storage   Making Sen <mark>sitive Data Unreadable In Storage</mark>	175
DCH-06.5: Media Storage   Storing Authentication Data	176
DCH-07: MEDIA TRANSPORTATION	177
DCH-07.1: Media Transportation   Custodians	177
DCH-07.2: Media Transportation   Encrypting Data In Storage Media	177
DCH-08: Physical Medial Disposal	178
DCH-09: System Media Sanitization	178
DCH-09.1: System Media Sanitization   System Media Sanitization Documentation	179
DCH-09.2: System Media Sanitization   Equipment Testing	179
DCH-09.3: System Media Sanitization   Sanitization of Personal Data (PD)	179
DCH-09.4: System Media Sanitization   First Time Use Sanitization	180
DCH-09.5: System Media Sanitization   Dual Authorization for Sensitive Data Destruction	180
DCH-10: Media Use	180
DCH-10.1: Media Use   Limitations on Use	181
DCH-10.2: MEDIA USE   PROHIBIT USE WITHOUT OWNER	181
DCH-11: DATA RECLASSIFICATION	181
DCH-12: REMOVABLE MEDIA SECURITY	181
DCH-13: Use of External Information Systems	182
DCH-13.1: Use of External Information Systems   Limits of Authorized Use	183
DCH-13.2: Use of External Information Systems   Portable Storage Devices	183
DCH-13.3: Use of External Information Systems   Protecting Sensitive Data on External Systems	183
DCH-13.4: Use of External Information Systems   Non-Organizationally Owned Systems/Components/Devices	183
DCH-14: INFORMATION SHARING	184
DCH-14.1: INFORMATION SHARING   INFORMATION SEARCH & RETRIEVAL	185
DCH-14.2: Information Sharing   Transfer Authorizations	185
DCH-14.3: Information Sharing   Data Access Mapping	185
DCH-15: PUBLICLY ACCESSIBLE CONTENT	186
DCH-16: DATA MINING PROTECTION	186
DCH-17: AD-Hoc Transfers	186
DCH-18: MEDIA & DATA RETENTION	186
DCH-18.1: Media & Data Retention   Limit Personal Data (PD) Elements In Testing, Training & Research	188

DCH-18.2: Media & Data Retention   Minimize Personal Data (PD)	1
DCH-18.3: Media & Data Retention   Temporary Files Containing Personal Data	1
DCH-19: GEOGRAPHIC LOCATION OF DATA	1
DCH-20: Archived Data Sets	1
DCH-21: INFORMATION DISPOSAL	1
DCH-22: DATA QUALITY OPERATIONS	1
DCH-22.1: DATA QUALITY OPERATIONS   UPDATING & CORRECTING PERSONAL DATA (PD)	1
DCH-22.2: DATA QUALITY OPERATIONS   DATA TAGS	1
DCH-22.3: DATA QUALITY OPERATIONS   PRIMARY SOURCE PERSONAL DATA (PD) COLLECTION	1
DCH-23: De-Identification (Anonymization)	1
DCH-23.1: De-Identification (Anonymization)   De-Identify Dataset Upon Collection	1
DCH-23.2: De-Identification (Anonymization)   Archiving	1
DCH-23.3: De-Identification (Anonymization)   Release	<u>ن</u>
DCH-23.4: De-Identification (Anonymization)   Removal, Masking, Encryption, Hashing or Replacement	
DIRECT IDENTIFIERS	1
DCH-23.5: De-Identification (Anonymization)   Statistical Disclosure Control	Ĺ
DCH-23.6: De-Identification (Anonymization)   Differential Data Privacy	1
DCH-23.7: De-Identification (Anonymization)   Automated De-Identification of Sensitive Data	i
DCH-23.8: De-Identification (Anonymization)   Motivated Intruder	i
DCH-23.9: De-Identification (Anonymization)   Code Names DCH-24: Information Location	
DCH-24. INFORMATION LOCATION DCH-24.1: Information Location   Automated Tools to Support Information Location	
DCH-24.1. INFORMATION EDCATION FACTOMATED TOOLS TO SUPPORT INFORMATION EDCATION DCH-25: TRANSFER OF SENSITIVE AND/OR REGULATED DATA	1
DCH-25.1: Transfer of Sensitive And/or Regulated Data   Transfer Activity Limits	Ĺ
DCH-25:11: MANSIER OF SENSITIVE AND/OK REGULATED DATA T MANSIER ACTIVITY EIMINS	-
	-
BEDDED TECHNOLOGY (EMB) POLICY & STANDARDS EMB-01: EMBEDDED TECHNOLOGY SECURITY PROGRAM	1
EMB-01: EMBEDDED TECHNOLOGY SECONTY PROGRAM EMB-02: INTERNET OF THINGS (IOT)	1
LIND-02. INTERNET OF THINGS (IOT)	
EMB-03: OPERATIONAL TECHNOLOGY (OT) EMB-04: INTERFACE SECURITY	1
EMB-04: INTERFACE SECURITY	1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING	1 1 1
EMB-04: INTERFACE SECURITY	1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS	1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE	1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING	1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES	1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS	1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY	1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS	
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION	
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS EMB-19: SAFE OPERATIONS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: Resilience To Outages EMB-09: Power Level Monitoring EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS POINT SECURITY (END) POLICY & STANDARDS END-01: ENDPOINT SECURITY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS POINT SECURITY (END) POLICY & STANDARDS END-01: ENDPOINT SECURITY END-02: ENDPOINT PROTECTION MEASURES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: Resilience TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS POINT SECURITY (END) POLICY & STANDARDS END-01: ENDPOINT SECURITY END-02: ENDPOINT PROTECTION MEASURES END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS PPOINT SECURITY (END) POLICY & STANDARDS END-01: ENDPOINT SECURITY END-02: ENDPOINT PROTECTION MEASURES END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   SOFTWARE INSTALLATION ALERTS END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)	
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS POINT SECURITY (END) POLICY & STANDARDS END-01: ENDPOINT SECURITY END-02: ENDPOINT PROTECTION MEASURES END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   SOFTWARE INSTALLATION ALERTS END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS PPOINT SECURITY (END) POLICY & STANDARDS END-01: ENDPOINT SECURITY END-02: ENDPOINT PROTECTION MEASURES END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   SOFTWARE INSTALLATION ALERTS END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESULENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS POINT SECURITY (END) POLICY & STANDARDS END-01: ENDPOINT SECURITY END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   SOFTWARE INSTALLATION ALERTS END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   AUTOMATIC ANTIMALWARE SIGNATURE UPDATES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESULENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS POINT SECURITY (END) POLICY & STANDARDS END-01: ENDPOINT SECURITY END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   SOFTWARE INSTALLATION ALERTS END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-03: 2: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   AUTOMATIC ANTIMALWARE SIGNATURE UPDATES END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   AUTOMATIC ANTIMALWARE SIGNATURE UPDATES END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   DOCUMENTED PROTECTION MEASURES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EMB-04: INTERFACE SECURITY EMB-05: EMBEDDED TECHNOLOGY CONFIGURATION MONITORING EMB-06: PREVENT ALTERATIONS EMB-07: EMBEDDED TECHNOLOGY MAINTENANCE EMB-08: RESILIENCE TO OUTAGES EMB-09: POWER LEVEL MONITORING EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-10: EMBEDDED TECHNOLOGY REVIEWS EMB-11: MESSAGE QUEUING TELEMETRY TRANSPORT (MQTT) SECURITY EMB-12: RESTRICT COMMUNICATIONS EMB-13: AUTHORIZED COMMUNICATIONS EMB-14: OPERATING ENVIRONMENT CERTIFICATION EMB-15: SAFETY ASSESSMENT EMB-16: CERTIFICATE-BASED AUTHENTICATION EMB-17: CHIP-TO-CLOUD SECURITY EMB-18: REAL-TIME OPERATING SYSTEM (RTOS) SECURITY EMB-19: SAFE OPERATIONS POINT SECURITY EMD-01: ENDPOINT SECURITY END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   SOFTWARE INSTALLATION ALERTS END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   SOFTWARE INSTALLATION ALERTS END-03: PROHIBIT INSTALLATION WITHOUT PRIVILEGED STATUS   GOVERNING ACCESS RESTRICTION FOR CHANGE END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   AUTOMATIC ANTIMALWARE SIGNATURE UPDATES END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   DOCUMENTED PROTECTION MEASURES END-04: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   CENTRALIZED MANAGEMENT OF ANTIMALWARE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

END-04.6: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   EVOLVING MALWARE THREATS	
	203
END-04.7: MALICIOUS CODE PROTECTION (ANTI-MALWARE)   ALWAYS ON PROTECTION	204
END-05: Software Firewall	204
END-06: ENDPOINT FILE INTEGRITY MONITORING (FIM)	205
END-06.1: ENDPOINT FILE INTEGRITY MONITORING (FIM)   INTEGRITY CHECKS	205
END-06.2: ENDPOINT FILE INTEGRITY MONITORING (FIM)   INTEGRATION OF DETECTION & RESPONSE	205
END-06.3: ENDPOINT FILE INTEGRITY MONITORING (FIM)   AUTOMATED NOTIFICATIONS OF INTEGRITY VIOLATIONS	206
END-06.4: ENDPOINT FILE INTEGRITY MONITORING (FIM)   AUTOMATED RESPONSE TO INTEGRITY VIOLATIONS	206
END-06.5: ENDPOINT FILE INTEGRITY MONITORING (FIM)   VERIFY BOOT PROCESS	206
END-06.6: Endpoint File Integrity Monitoring (FIM)   Protection of Boot Firmware	206
END-06.7: Endpoint File Integrity Monitoring (FIM)   Binary or Machine-Executable Code	207
END-07: HOST INTRUSION DETECTION AND PREVENTION SYSTEMS (HIDS/HIPS)	207
END-08: Phishing & Spam Protection	207
END-08.1: Phishing & Spam Protection   Central Management	208
END-08.2: Phishing & Spam Protection   Automatic Spam and Phishing Protection Updates	208
END-09: TRUSTED PATH	208
END-10: MOBILE CODE	208
END-11: THIN NODES	208
END-12: PORT & INPUT/OUTPUT (I/O) DEVICE ACCESS END-13: SENSOR CAPABILITY	210
	210
END-13.1: SENSOR CAPABILITY   AUTHORIZED USE	210
END-13.2: SENSOR CAPABILITY   NOTICE OF COLLECTION	210
END-13.3: SENSOR CAPABILITY   COLLECTION MINIMIZATION	211
END-13.4: SENSOR CAPABILITY   SENSOR DELIVERY VERIFICATION	211
END-14: COLLABORATIVE COMPUTING DEVICES	211
END-14.1: Collaborative Computing Devices   Disabling/Removal in Secure Work Areas	212
END-14.2: Collaborative Computing Devices   Explicitly Indicate Current Participants	212
END-15: Hypervisor Access	212
END-16: RESTRICT ACCESS TO SECURITY FUNCTIONS	212
END-16.1: RESTRICT ACCESS TO SECURITY FUNCTIONS   HOST-BASED SECURITY FUNCTION ISOLATION	213
MAN RESOURCES SECURITY (HRS) POLICY & STANDARDS	214
HRS-01: HUMAN RESOURCES SECURITY MANAGEMENT	214
HRS-02: POSITION CATEGORIZATION	214
HRS-02.1: POSITION CATEGORIZATION / USERS WITH ELEVATED PRIVILEGES	215
HRS-02.2: POSITION CATEGORIZATION / PROBATIONARY PERIODS	215
HRS-03: ROLES & RESPONSIBILITIES	215
HRS-03.1: Roles & Responsibilities   User Awareness	216
HRS-03.2: Roles & Responsibilities   Competency Requirements for Security-Related Positions	216
HRS-04: Personnel Screening	216
HRS-04.1: Personnel Scre <mark>ening   Roles</mark> With Special Protection Measures	217
HRS-04.2: Personnel Screening   Formal Indoctrination	217
HRS-04.3: Personnel Screening   Citizenship Requirements	217
HRS-04.4: Personnel Screening   Citizenship Identification	217
	218
	218
HRS-05: TERMS OF EMPLOYMENT	
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR	219
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS	219 219
HRS-05: Terms of Employment HRS-05.1: Terms of Employment   Rules of Behavior HRS-05.2: Terms of Employment   Social Media & Social Networking Restrictions HRS-05.3: Terms of Employment   Use of Communications Technology	-
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES	219
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES	219 219 220
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES HRS-05.6: TERMS OF EMPLOYMENT   SECURITY-MINDED DRESS CODE	219 219 220 220
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES HRS-05.6: TERMS OF EMPLOYMENT   SECURITY-MINDED DRESS CODE HRS-05.7: TERMS OF EMPLOYMENT   POLICY FAMILIARIZATION & ACKNOWLEDGEMENT	219 219 220 220 220 220
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES HRS-05.6: TERMS OF EMPLOYMENT   SECURITY-MINDED DRESS CODE HRS-05.7: TERMS OF EMPLOYMENT   POLICY FAMILIARIZATION & ACKNOWLEDGEMENT HRS-06: ACCESS AGREEMENTS	219 219 220 220 220 220 <b>220</b>
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES HRS-05.6: TERMS OF EMPLOYMENT   SECURITY-MINDED DRESS CODE HRS-05.7: TERMS OF EMPLOYMENT   POLICY FAMILIARIZATION & ACKNOWLEDGEMENT HRS-06: ACCESS AGREEMENTS HRS-06.1: ACCESS AGREEMENTS   CONFIDENTIALITY AGREEMENTS	219 219 220 220 220 220 <b>220</b> 220 221
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES HRS-05.6: TERMS OF EMPLOYMENT   SECURITY-MINDED DRESS CODE HRS-05.7: TERMS OF EMPLOYMENT   POLICY FAMILIARIZATION & ACKNOWLEDGEMENT HRS-06: ACCESS AGREEMENTS HRS-06.1: ACCESS AGREEMENTS   CONFIDENTIALITY AGREEMENTS HRS-06.2: ACCESS AGREEMENTS   POST-EMPLOYMENT OBLIGATIONS	219 219 220 220 220 <b>220</b> 220 221 221
<ul> <li>HRS-05: TERMS OF EMPLOYMENT</li> <li>HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR</li> <li>HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA &amp; SOCIAL NETWORKING RESTRICTIONS</li> <li>HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY</li> <li>HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES</li> <li>HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES</li> <li>HRS-05.6: TERMS OF EMPLOYMENT   SECURITY-MINDED DRESS CODE</li> <li>HRS-05.7: TERMS OF EMPLOYMENT   POLICY FAMILLARIZATION &amp; ACKNOWLEDGEMENT</li> <li>HRS-06: ACCESS AGREEMENTS</li> <li>HRS-06.1: ACCESS AGREEMENTS   CONFIDENTIALITY AGREEMENTS</li> <li>HRS-06.2: ACCESS AGREEMENTS   POST-EMPLOYMENT OBLIGATIONS</li> </ul>	219 219 220 220 220 <b>220</b> 220 <b>220</b> 221 221 221
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES HRS-05.6: TERMS OF EMPLOYMENT   SECURITY-MINDED DRESS CODE HRS-05.7: TERMS OF EMPLOYMENT   POLICY FAMILIARIZATION & ACKNOWLEDGEMENT HRS-06: ACCESS AGREEMENTS HRS-06.1: ACCESS AGREEMENTS   CONFIDENTIALITY AGREEMENTS HRS-06.2: ACCESS AGREEMENTS   POST-EMPLOYMENT OBLIGATIONS HRS-07: PERSONNEL SANCTIONS   WORKPLACE INVESTIGATIONS	219 219 220 220 220 <b>220</b> 221 221 221 221 221 222
HRS-05: TERMS OF EMPLOYMENT HRS-05.1: TERMS OF EMPLOYMENT   RULES OF BEHAVIOR HRS-05.2: TERMS OF EMPLOYMENT   SOCIAL MEDIA & SOCIAL NETWORKING RESTRICTIONS HRS-05.3: TERMS OF EMPLOYMENT   USE OF COMMUNICATIONS TECHNOLOGY HRS-05.4: TERMS OF EMPLOYMENT   USE OF CRITICAL TECHNOLOGIES HRS-05.5: TERMS OF EMPLOYMENT   USE OF MOBILE DEVICES HRS-05.6: TERMS OF EMPLOYMENT   SECURITY-MINDED DRESS CODE HRS-05.7: TERMS OF EMPLOYMENT   POLICY FAMILIARIZATION & ACKNOWLEDGEMENT HRS-06: ACCESS AGREEMENTS HRS-06.1: ACCESS AGREEMENTS   CONFIDENTIALITY AGREEMENTS HRS-06.2: ACCESS AGREEMENTS   POST-EMPLOYMENT OBLIGATIONS HRS-07: PERSONNEL SANCTIONS	219 219 220 220 220 <b>220</b> 220 <b>220</b> 221 221 221

HRS-09.1: Personnel Termination   Asset Collection	224
HRS-09.2: Personnel Termination   High-Risk Terminations	224
HRS-09.3: Personnel Termination   Post-Employment Requirements	225
HRS-09.4: Personnel Termination   Automated Employment Status Notification	225
HRS-10: Third-Party Personnel Security	225
HRS-11: SEPARATION OF DUTIES (SOD)	226
HRS-12: INCOMPATIBLE ROLES	226
HRS-12.1: INCOMPATIBLE ROLES   TWO-PERSON RULE	227
HRS-13: IDENTIFY CRITICAL SKILLS & GAPS	227
HRS-13.1: IDENTIFY CRITICAL SKILLS & GAPS   REMEDIATE IDENTIFIED SKILLS DEFICIENCIES	227
HRS-13.2: IDENTIFY CRITICAL SKILLS & GAPS   IDENTIFY VITAL CYBERSECURITY & DATA PRIVACY STAFF	227
HRS-13.3: IDENTIFY CRITICAL SKILLS & GAPS   ESTABLISH REDUNDANCY FOR VITAL CYBERSECURITY & DATA PRIVACY STAFF	228
HRS-13.4: IDENTIFY CRITICAL SKILLS & GAPS   PERFORM SUCCESSION PLANNING	228
IDENTIFICATION & AUTHENTICATION (IAC) POLICY & STANDARDS	229
IAC-01: IDENTITY & ACCESS MANAGEMENT (IAM)	229
IAC-01.1: IDENTITY & ACCESS MANAGEMENT (IAM)   RETAIN ACCESS RECORDS	229
IAC-01.2: IDENTITY & ACCESS MANAGEMENT (IAM)   AUTHENTICATE, AUTHORIZE AND AUDIT (AAA)	230
IAC-02: Identification & Authentication for Organizational Users	230
IAC-02.1: IDENTIFICATION & AUTHENTICATION FOR ORGANIZATIONAL USERS   GROUP AUTHENTICATION	231
IAC-02.2: IDENTIFICATION & AUTHENTICATION FOR ORGANIZATIONAL USERS   REPLAY-RESISTANT AUTHENTICATION	231
IAC-02.3: IDENTIFICATION & AUTHENTICATION FOR ORGANIZATIONAL USERS   ACCEPTANCE OF PIV CREDENTIALS	231
IAC-02.4: Identification & Authentication for Organizational Users   Out-of-Band Authentication (OOBA)	232
IAC-03: IDENTIFICATION & AUTHENTICATION FOR NON-ORGANIZATIONAL USERS	232
IAC 03: IDENTIFICATION & AUTHENTICATION FOR NON-ORGANIZATIONAL USERS   ACCEPTANCE OF PIV CREDENTIALS FROM	252
Other Organizations	232
IAC-03.2: Identification & Authentication for Non-Organizational Users   Acceptance of Third-Party	252
CREDENTIALS	232
IAC-03.3: IDENTIFICATION & AUTHENTICATION FOR NON-ORGANIZATIONAL USERS   USE OF FICAM-ISSUED PROFILES	232
IAC-03.4: IDENTIFICATION & AUTHENTICATION FOR NON-ORGANIZATIONAL USERS   DISE OF TICAM-ISSUED PROFILES	233
IAC-03.5: IDENTIFICATION & AUTHENTICATION FOR NON-ORGANIZATIONAL OSERS   DISASSOCIABILITY IAC-03.5: IDENTIFICATION & AUTHENTICATION FOR NON-ORGANIZATIONAL USERS   ACCEPTANCE OF EXTERNAL	255
	233
AUTHENTICATORS	
IAC-04: IDENTIFICATION & AUTHENTICATION FOR DEVICES	233
IAC-04.1: IDENTIFICATION & AUTHENTICATION FOR DEVICES / DEVICE ATTESTATION	234
IAC-05: IDENTIFICATION & AUTHENTICATION FOR THIRD PARTY SYSTEMS & SERVICES	234
IAC-05.1: IDENTIFICATION & AUTHENTICATION FOR THIRD PARTY SYSTEMS & SERVICES   INFORMATION EXCHANGE	234
IAC-05.2: IDENTIFICATION & AUTHENTICATION FOR THIRD PARTY SYSTEMS & SERVICES   PRIVILEGED ACCESS BY NON-	
ORGANIZATIONAL USERS	234
IAC-06: MULTI-FACTOR AUTHENTICATION (MFA)	235
IAC-06.1: MULTI-FACTOR AUTHENTICATION (MFA)   NETWORK ACCESS TO PRIVILEGED ACCOUNTS	235
IAC-06.2: MULTI-FACTOR AUTHENTICATION (MFA)   NETWORK ACCESS TO NON-PRIVILEGED ACCOUNTS	236
IAC-06.3: MULTI-FACTOR AUTHENTICATION (MFA)   LOCAL ACCESS TO PRIVILEGED ACCOUNTS	236
IAC-06.4: MULTI-FACTOR AUTHENTICATION (MFA)   OUT OF BAND (OOB) FACTOR	236
IAC-07: User Provisioning & De-Provisioning	236
IAC-07.1: User Provisioning & <mark>De-</mark> Provisioning   Change of Roles & Duties	237
IAC-07.2: User Provisioning & De-Provisioning   Termination of Employment	237
IAC-08: ROLE-BASED ACCESS CONTROL (RBAC)	238
IAC-09: Identifier Management (User Names)	238
IAC-09.1: IDENTIFIER MANAGEMENT   USER IDENTITY (ID) MANAGEMENT	239
IAC-09.2: IDENTIFIER MANAGEMENT   IDENTITY USER STATUS	239
IAC-09.3: IDENTIFIER MANAGEMENT   DYNAMIC MANAGEMENT	239
IAC-09.4: IDENTIFIER MANAGEMENT   CROSS-ORGANIZATION MANAGEMENT	240
IAC-09.5: IDENTIFIER MANAGEMENT   PRIVILEGED ACCOUNT IDENTIFIERS	240
IAC-09.6: Identifier Management   Pairwise Pseudonymous Identifiers (PPID)	240
IAC-10: AUTHENTICATOR MANAGEMENT	240
IAC-10.1: AUTHENTICATOR MANAGEMENT   PASSWORD-BASED AUTHENTICATION	241
IAC-10.2: Authenticator Management   PKI-Based Authentication	243
IAC-10.3: AUTHENTICATOR MANAGEMENT   IN-PERSON OR TRUSTED THIRD-PARTY REGISTRATION	243
IAC-10.4: Authenticator Management   Automated Support For Password Strength	244

IAC-10.5: AUTHENTICATOR MANAGEMENT   PROTECTION OF AUTHENTICATORS	244
IAC-10.6: AUTHENTICATOR MANAGEMENT   NO EMBEDDED UNENCRYPTED STATIC AUTHENTICATORS	244
IAC-10.7: AUTHENTICATOR MANAGEMENT   HARDWARE TOKEN-BASED AUTHENTICATION	245
IAC-10.8: AUTHENTICATOR MANAGEMENT   VENDOR-SUPPLIED DEFAULTS	245
IAC-10.9: AUTHENTICATOR MANAGEMENT   MULTIPLE INFORMATION SYSTEM ACCOUNTS	245
IAC-10.10: AUTHENTICATOR MANAGEMENT   EXPIRATION OF CACHED AUTHENTICATORS	245
IAC-10.11: AUTHENTICATOR MANAGEMENT   PASSWORD MANAGERS	246
IAC-10.12: AUTHENTICATOR MANAGEMENT   BIOMETRIC AUTHENTICATION	246
IAC-11: AUTHENTICATOR FEEDBACK	246
IAC-12: CRYPTOGRAPHIC MODULE AUTHENTICATION	247
IAC-12.1: Cryptographic Module Authentication   Hardware Security Modules (HSM)	247
IAC-13: ADAPTIVE IDENTIFICATION & AUTHENTICATION	247
IAC-13.1: ADAPTIVE IDENTIFICATION & AUTHENTICATION   SINGLE SIGN-ON (SSO)	247
IAC-13.2: Adaptive Identification & Authentication   Federated Credential Management	248
IAC-14: Re-Authentication	248
IAC-15: ACCOUNT MANAGEMENT	248
IAC-15.1: ACCOUNT MANAGEMENT   AUTOMATED SYSTEM ACCOUNT MANAGEMENT (DIRECTORY SERVICES)	250
IAC-15.2: ACCOUNT MANAGEMENT   REMOVAL OF TEMPORARY/EMERGENCY ACCOUNTS	251
IAC-15.3: ACCOUNT MANAGEMENT   DISABLE INACTIVE ACCOUNTS	251
IAC-15.4: ACCOUNT MANAGEMENT   AUTOMATED AUDIT ACTIONS	251
IAC-15.5: Account Management   Restrictions on Shared Groups/Accounts	251
IAC-15.6: Account Management   Account Disabling for High Risk Individuals	252
IAC-15.7: ACCOUNT MANAGEMENT   SYSTEM ACCOUNTS	252
IAC-15.8: ACCOUNT MANAGEMENT   USAGE CONDITIONS	252
IAC-15.9: Account Management   Emergency Accounts	253
IAC-16: Privileged Account Management (PAM)	253
IAC-16.1: Privileged Account Management (PAM)   Privileged Account Inventories	254
IAC-16.2: Privileged Account Management (PAM)   Privileged Account Separation	254
IAC-17: PERIODIC REVIEW OF ACCOUNT PRIVILEGES	254
TAC-17: PERIODIC REVIEW OF ACCOUNT PRIVILEGES	
IAC-17: PERIODIC REVIEW OF ACCOUNT PRIVILEGES IAC-18: User Responsibilities for Account Management	255
	255 255
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: Credential Sharing IAC-20: Access Enforcement	255 256
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: Credential Sharing	255
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS	<b>255</b> <b>256</b> 256 256
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: Access ENFORCEMENT IAC-20.1: Access ENFORCEMENT   Access To Sensitive Data IAC-20.2: Access Enforcement   Database Access IAC-20.3: Access Enforcement   USE OF PRIVILEGED UTILITY PROGRAMS	<b>255</b> <b>256</b> 256 256 257
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   USE OF PRIVILEGED UTILITY PROGRAMS IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES	<b>255</b> <b>256</b> 256 256 257 257
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS	<b>255</b> <b>256</b> 256 256 257 257 257
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   REVOCATION OF ACCESS AUTHORIZATIONS	255 256 256 256 257 257 257 257
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE PROGRAMS IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   REVOCATION OF ACCESS AUTHORIZATIONS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS	255 256 256 257 257 257 257 257 258
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE PROGRAMS IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   REVOCATION OF ACCESS AUTHORIZATIONS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21: LEAST PRIVILEGE	255 256 256 257 257 257 257 257 258 258 258
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   REVOCATION OF ACCESS AUTHORIZATIONS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS	255 256 256 257 257 257 257 257 257 258 258 258
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   REVOCATION OF ACCESS AUTHORIZATIONS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE IAC-21.2: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS	255 256 256 257 257 257 257 257 257 258 258 258 258 258
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   REVOCATION OF ACCESS AUTHORIZATIONS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS	255 256 256 257 257 257 257 257 258 258 258 258 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT / ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT / DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT / DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT / DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT / DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT / DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.7: ACCESS ENFORCEMENT / AUTHORIZED SYSTEM ACCOUNTS IAC-21: LEAST PRIVILEGE / AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE / AUTHORIZE ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE / NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.4: LEAST PRIVILEGE / PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE / AUDITING USE OF PRIVILEGED FUNCTIONS	255 256 256 257 257 257 257 257 258 258 258 259 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   REVOCATION OF ACCESS AUTHORIZATIONS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.7: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.4: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.5: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED FUNCTIONS IAC-21.5: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED USERS FROM EXECUTING PRIVILEGED FUNCTIONS	255 256 256 257 257 257 257 257 258 258 258 258 259 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   REVOCATION OF ACCESS AUTHORIZATIONS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   AUTHORIZE ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.5: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21.5: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED FUNCTIONS IAC-21.6: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED OF PRIVILEGED FUNCTIONS	255 256 256 257 257 257 257 257 257 258 258 258 258 259 259 259 259 259 260
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20:1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20:2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20:3: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20:4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20:5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20:6: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20:7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-20:7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21:1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21:2: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21:3: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21:4: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21:5: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21:5: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED FUNCTIONS IAC-21:6: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED GOMMANDS IAC-21:6: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED COMMANDS IAC-21:7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION	255 256 256 257 257 257 257 257 258 258 258 258 259 259 259 259 259 259 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.4: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21.5: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21.5: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.5: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.5: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED FUNCTIONS IAC-21.5: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED FUNCTIONS IAC-21.6: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED COMMANDS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTIONS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION	255 256 256 257 257 257 257 257 258 258 258 259 259 259 259 259 259 259 260 260 260
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.5: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED FUNCTIONS IAC-21.5: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED FUNCTIONS IAC-21.7: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED COMMANDS IAC-21.7: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED COMMANDS IAC-21.7: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED COMMANDS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION	255 256 256 257 257 257 257 258 258 258 259 259 259 259 259 259 259 259 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21: LEAST PRIVILEGE IAC-21: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED USERS FROM EXECUTING PRIVILEGED FUNCTIONS IAC-21: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED USERS FROM EXECUTING PRIVILEGED FUNCTIONS IAC-21: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED COMMANDS IAC-21: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21: SESSION CONTROL IAC-23: CONCURRENT SESSION CONTROL IAC-24: SESSION LOCK	255 256 256 257 257 257 257 258 258 258 258 259 259 259 259 259 259 259 259 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20: ACCESS ENFORCEMENT   MEVOCATION OF ACCESS AUTHORIZATIONS IAC-20: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21: LEAST PRIVILEGE IAC-21: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21: LEAST PRIVILEGE   NON-PRIVILEGED FUNCTIONS IAC-21: LEAST PRIVILEGE   PRIVILEGED ACCESS TO PRIVILEGED FUNCTIONS IAC-21: LEAST PRIVILEGE   PRIVILEGE DACCESS TO PRIVILEGED FUNCTIONS IAC-21: LEAST PRIVILEGE   PROHIBIT NON-PRIVILEGED USERS FROM EXECUTING PRIVILEGED FUNCTIONS IAC-21: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-22: ACCOUNT LOCKOUT IAC-23: CONCURRENT SESSION CONTROL IAC-24: SESSION LOCK IAC-24: SESSION LOCK   PATTERN-HIDING DISPLAYS	255 256 256 257 257 257 257 257 258 258 258 258 259 259 259 259 259 259 259 260 260 260 261 261
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20: ACCESS ENFORCEMENT IAC-20: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20: ACCESS ENFORCEMENT   DIE OF PRIVILEGED UTILITY PROGRAMS IAC-20: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.4: LEAST PRIVILEGE   NON-PRIVILEGED ACCCOUNTS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCCOUNTS IAC-21.4: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21.5: LEAST PRIVILEGE   PRIVILEGE D ACCCOUNTS IAC-21.6: LEAST PRIVILEGE   PRIVILEGE D ACCCOUNTS IAC-21.6: LEAST PRIVILEGE   PRIVILEGE D ACCCOUNTS IAC-21.6: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION PRIVILEGED FUNCTIONS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21.6: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21.5: SESSION LOCK IAC-23: CONCURRENT SESSION CONTROL IAC-24: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-25: SESSION TERMINATION	255 256 256 257 257 257 257 257 258 258 258 258 259 259 259 259 259 260 260 260 260 261 261 261
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20: ACCESS ENFORCEMENT IAC-20: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20: ACCESS ENFORCEMENT   DIE OF PRIVILEGED UTILITY PROGRAMS IAC-20: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21: LEAST PRIVILEGE   NON-PRIVILEGED ACCCOUNTS IAC-21: LEAST PRIVILEGE   NON-PRIVILEGED ACCCOUNTS IAC-21: LEAST PRIVILEGE   NON-PRIVILEGED COUNTS IAC-21: LEAST PRIVILEGE   PRIVILEGE DACCOUNTS IAC-21: LEAST PRIVILEGE   PRIVILEGE DACCOUNTS IAC-21: GLEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION FRIVILEGED FUNCTIONS IAC-21: GLEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21: SLEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-24: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-25: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS	255 256 256 257 257 257 257 258 258 258 259 259 259 259 259 259 259 260 260 260 260 260 261 261 261 261
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   DUL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.4: LEAST PRIVILEGE   AUDITING USE OF PRIVILEGED FUNCTIONS IAC-21.5: LEAST PRIVILEGE   PRIVILEGED ACCESS TO PRIVILEGED FUNCTIONS IAC-21.6: LEAST PRIVILEGE   PRIVILEGED ACCESS TO PRIVILEGED FUNCTIONS IAC-21.6: LEAST PRIVILEGE   PRIVILEGED ACCESS TO PRIVILEGED FUNCTIONS IAC-21.6: LEAST PRIVILEGE   PRIVILEGED FUNCTIONS IAC-21.6: LEAST PRIVILEGE   PRIVILEGE D FUNCIEGED FUNCTIONS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE D FOR CODE EXECUTION IAC-24.1: SESSION CONTROL IAC-24.1: SESSION CONTROL IAC-24.1: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-24.1: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-25.1: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS IAC-26: PERMITTED ACTIONS WITHOUT IDENTIFICATION OR AUTHORIZATION	255 256 256 257 257 257 257 258 258 258 259 259 259 259 259 259 259 259 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEVICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   DUAL AUTHORIZED SYSTEM ACCOUNTS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.4: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.5: LEAST PRIVILEGE   NON-PRIVILEGED DEVICTIONS IAC-21.6: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.7: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.6: LEAST PRIVILEGE   PRIVILEGE D ACCOUNTS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-22.1: CLAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-22.2: ACCOUNT LOCKOUT IAC-23: CONCURRENT SESSION CONTROL IAC-24.1: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-25.1: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-25.1: SESSION TERMINATION IAC-25.1: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS IAC-25.1: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS IAC-25.1: REFERENCE MONITOR	255 256 256 257 257 257 257 258 258 258 259 259 259 259 259 259 259 259 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DETATE DATA DATABASE ACCESS IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.6: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   AUTHORIZE ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.5: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.6: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.6: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.7: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTIONS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-22.1: SESSION LOCK IAC-23: CONCURRENT SESSION CONTROL IAC-24: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-24: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-25: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS IAC-25: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS IAC-25: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS IAC-25: REFERENCE MONITOR IAC-27: REFERENCE MONITOR IAC-27: REFERENCE MONITOR IAC-28: IDENTITY PROOFING (IDENTITY VERIFICATION OR AUTHORIZATION IAC-27: REFERENCE MONITOR	255 256 256 257 257 257 257 258 258 258 259 259 259 259 259 259 259 259 259 259
IAC-18: USER RESPONSIBILITIES FOR ACCOUNT MANAGEMENT IAC-19: CREDENTIAL SHARING IAC-20: ACCESS ENFORCEMENT IAC-20.1: ACCESS ENFORCEMENT   ACCESS TO SENSITIVE DATA IAC-20.2: ACCESS ENFORCEMENT   DATABASE ACCESS IAC-20.3: ACCESS ENFORCEMENT   DEVICATED ADMINISTRATIVE MACHINES IAC-20.4: ACCESS ENFORCEMENT   DEDICATED ADMINISTRATIVE MACHINES IAC-20.5: ACCESS ENFORCEMENT   DUAL AUTHORIZATION FOR PRIVILEGED COMMANDS IAC-20.6: ACCESS ENFORCEMENT   DUAL AUTHORIZED SYSTEM ACCOUNTS IAC-20.7: ACCESS ENFORCEMENT   AUTHORIZED SYSTEM ACCOUNTS IAC-21.1: LEAST PRIVILEGE IAC-21.1: LEAST PRIVILEGE   AUTHORIZE ACCESS TO SECURITY FUNCTIONS IAC-21.2: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCESS FOR NON-SECURITY FUNCTIONS IAC-21.4: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.3: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.4: LEAST PRIVILEGE   NON-PRIVILEGED ACCOUNTS IAC-21.5: LEAST PRIVILEGE   NON-PRIVILEGED DEVICTIONS IAC-21.6: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.7: LEAST PRIVILEGE   PRIVILEGED ACCOUNTS IAC-21.6: LEAST PRIVILEGE   PRIVILEGE D ACCOUNTS IAC-21.7: LEAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-22.1: CLAST PRIVILEGE   PRIVILEGE LEVELS FOR CODE EXECUTION IAC-22.2: ACCOUNT LOCKOUT IAC-23: CONCURRENT SESSION CONTROL IAC-24.1: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-25.1: SESSION LOCK   PATTERN-HIDING DISPLAYS IAC-25.1: SESSION TERMINATION IAC-25.1: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS IAC-25.1: SESSION TERMINATION   USER-INITIATED LOGOUTS/MESSAGE DISPLAYS IAC-25.1: REFERENCE MONITOR	255 256 256 257 257 257 257 258 258 258 259 259 259 259 259 259 259 259 259 259

IAC-28.4: IDENTITY PRODUCE (IDENTITY VERIFICATION)   ADDRESS CONFIRMATION         264           IAC-29.5: IDENTITY PRODUCE (IDENTITY VERIFICATION)   ADDRESS CONFIRMATION         265           IRO-02: INCORNT Reproved Prevantors         265           IRO-02: INCORNT HADDUNE   ADDRESS CONFIRMATION         266           IRO-02: INCORNT HADDUNE   ADDRESS TREAT REPORTS         265           IRO-02: INCORNT HADDUNE   ADDRESS TREAT REPORTS         266           IRO-02: INCORNT HADDUNE   ADDRESS TREAT REPORTS         266           IRO-02: INCORNT HADDUNE   INCORNT LASSIGNATION & PROCESSES         266           IRO-02: INCORNT HADDUNE   INCORNT CASSIGNATION & PROCESSES         266           IRO-02: INCORNT HADDUNE   INCORNT CASSIGNATION & PROCESSES         266           IRO-02: INCORNT HADDUNE   INCORNT CASSIGNATION & PROCESSES         266           IRO-03: INCORNT RESPORTS PAIN (IP)         269           IRO-04: INCORNT RESPORTS PAIN (IP)         269           IRO-04: INCORNT RESPORTS PAIN (IP)   DAT BREACH         271           IRO-05: INCORNT RESPORTS PAIN (IP)   DAT BREACH         271           IRO-06: INCORNT RESPORTS PAIN (IP)   DAT BREACH         271	IAC-28.3: IDENTITY PROC	DFING (IDENTITY VERIFICATION)   IDENTITY EVIDENCE VALIDATION & VERIFICATION	263
MC-28.5: IDENTIFY PROOPING [DENTIFY VERTICATION] / ADDRESS CONFIRMATION       254         MC-29: ADDRETH SERVORES DETENTIONS       255         IRO-01: INCIDENT RESPONSE DETENTIONS       255         IRO-02: INCIDENT HANDING / AUTOMATED INCIDENT HANDING PROCESSES       266         IRO-02: INCIDENT HANDING / AUTOMATED INCIDENT HANDING PROCESSES       266         IRO-02: INCIDENT HANDING / AUTOMATED INCIDENT HANDING PROCESSES       266         IRO-02: INCIDENT HANDING / AUTOMATED INCIDENT HANDING PROCESSES       267         IRO-02: INCIDENT HANDING / DURING PROCESSES       269         IRO-03: INCIDENT HANDING / DURING PROCESSES       269         IRO-03: INCIDENT HANDING / DURING PROCESSES       269         IRO-03: INCIDENT HANDING / DURING PROCESSES       269         IRO-04: INCIDENT HESPONSE PANN (IRP.) DATA BREACH       270         IRO-04: INCIDENT RESPONSE PANN (IRP.) DATA BREACH       271         IRO-04: INCIDENT RESPONSE PANN (IRP.) IDATA BREACH       271         IRO-04: INCIDENT RESPONSE PANN (IRP.) IDATA BREACH       271         IRO-04: INCIDENT RESPONSE TRAINING / AUTOMATED INCIDENT RESPONSE FANNING EVERIDINGENTS       271         IRO-04: INCIDENT RESPONSE TRAINING / AUTOMATED INCIDENT RESPONSE FANNING EVERIDINGENTS       272         IRO-04: INCIDENT RESPONSE TRAINING / AUTOMATED INCIDENT RESPONSE TRAINING EVERIDINGENTS       272         IRO-05: INCIDENT RESP			
IAC 29: ATTRBUT-BASE ACCES CONTON (ABAC)         264           INCODET: RESONSE DIVISIONS         265           IRO 01:: INCODENT STANDANDS         265           IRO 02:: INCODENT HANDUNG (AUTOMATED INCODENT HANDUNG PROCESSES         266           IRO 02:: INCODENT HANDUNG (AUTOMATED INCODENT HANDUNG PROCESSES         266           IRO 02:: INCODENT HANDUNG (AUTOMATED INCODENT HANDUNG PROCESSES         266           IRO 02:: INCODENT HANDUNG (AUTOMATED INCODENT CLASSIFICATION         267           IRO 02:: INCODENT HANDUNG (AUTOMATED CLASSIFICATION         267           IRO 02:: INCODENT HANDUNG (AUTOMATED DISABUNG OF SYSTEM         269           IRO 02:: INCODENT HANDUNG (AUTOMATED DISABUNG OF SYSTEM         269           IRO 02:: INCODENT RESPONSE PLAN (RP) (DATA BEACH         270           IRO 04: INCODENT RESPONSE PLAN (RP) (DATA BEACH         270           IRO 04: INCODENT RESPONSE PLAN (RP) (DATA BEACH         271           IRO 05: INCODENT RESPONSE TANNING (AUTOMATED INCODENT RESPONSE INFINITORIES (STERM)         271           IRO 05: INCODENT RESPONSE TANNING (AUTOMATED INCODENT RESPONSE INFINITORIES (STERM)         272           IRO 05: INCODENT RESPONSE TANNING (AUTOMATED INCODENT RESPONSE INFINITORIES (STERM)         272           IRO 04: INCODENT RESPONSE TANNING (AUTOMATED INCODENT RESPONSE INFINITORIES (STERM)         272           IRO 04: INCODENT RESPONSE TANNING (AUTOMATED INCODENT RESPON			-
IRO-01: INCORTS RESONSE OPERATIONS         265           IRO-02: INCORT HANDUNG   ANTOMATED INCORNT HANDUNG PROCESSES         266           IRO-02: INCORT HANDUNG   NUMBER THREAL RECOMPORTANCE CANALITY         266           IRO-02: INCORT HANDUNG   NUMBER THREAL RECOMPORTANCE CANALITY         266           IRO-02: INCORT HANDUNG   NUMBER THREAL RECOMPORTANCE CANALITY         266           IRO-02: INCORT HANDUNG   NUMBER THREAL RECOMPORTANCE AND CONTRATIONS         269           IRO-02: INCORT HANDUNG   ANTOMATE DISABURG OF SYSTEM         269           IRO-03: INCORT RESPONSE PLAN (IRP)         269           IRO-04: INCORT RESPONSE PLAN (IRP)         269           IRO-04: INCORT RESPONSE PLAN (IRP)   DATA BEACH         270           IRO-04: INCORT RESPONSE PLAN (IRP)   IPD UPDATE         271           IRO-04: INCORT RESPONSE TANNING   ANULATED INCORT RESPONSE MANDOREMENTS         271           IRO-05: INCORT RESPONSE TANNING   SMULATED INCORT RESPONSE TRAINING   SMULATED INCORT RESPONSE   MONTANTO NUMBER RELEASE   272           IRO-06: INCORT RESPONSE TEXTING   COMMATCH INCORT RESPONSE TRAINING   SMULATED INCORT RESPONSE   273           IRO-09: STUATONAL AWARENESS FON INCORTS   AUTOMATED PROCENT RESPONSE   MONTANTON YOUR RETATEM PLANS     272			-
IRO-01: INCORTS RESONSE OPERATIONS         265           IRO-02: INCORT HANDUNG   ANTOMATED INCORNT HANDUNG PROCESSES         266           IRO-02: INCORT HANDUNG   NUMBER THREAL RECOMPORTANCE CANALITY         266           IRO-02: INCORT HANDUNG   NUMBER THREAL RECOMPORTANCE CANALITY         266           IRO-02: INCORT HANDUNG   NUMBER THREAL RECOMPORTANCE CANALITY         266           IRO-02: INCORT HANDUNG   NUMBER THREAL RECOMPORTANCE AND CONTRATIONS         269           IRO-02: INCORT HANDUNG   ANTOMATE DISABURG OF SYSTEM         269           IRO-03: INCORT RESPONSE PLAN (IRP)         269           IRO-04: INCORT RESPONSE PLAN (IRP)         269           IRO-04: INCORT RESPONSE PLAN (IRP)   DATA BEACH         270           IRO-04: INCORT RESPONSE PLAN (IRP)   IPD UPDATE         271           IRO-04: INCORT RESPONSE TANNING   ANULATED INCORT RESPONSE MANDOREMENTS         271           IRO-05: INCORT RESPONSE TANNING   SMULATED INCORT RESPONSE TRAINING   SMULATED INCORT RESPONSE   MONTANTO NUMBER RELEASE   272           IRO-06: INCORT RESPONSE TEXTING   COMMATCH INCORT RESPONSE TRAINING   SMULATED INCORT RESPONSE   273           IRO-09: STUATONAL AWARENESS FON INCORTS   AUTOMATED PROCENT RESPONSE   MONTANTON YOUR RETATEM PLANS     272			265
IRO-02.1: Incorem HANQUIG   Automate Incorem HanQUINE Processes         266           IRO-02.2: Incorem HANQUIG   Insuber TheAR RESPONSE CAPABILITY         267           IRO-02.2: Incorem HANQUIG   Insuber TheAR RESPONSE CAPABILITY         267           IRO-02.2: Incorem HANQUIG   DINAME RECONFIGURATION & PRIORITATION         267           IRO-02.3: Incorem HANQUIG   CONSUME CAPABILITY         267           IRO-02.6: Incorem HANQUIG   CONSUME CAPABILITY         269           IRO-02.6: Incorem HANQUIG   CONSUME CAPABILITY         269           IRO-03: Incorem HANQUIG   CONSUME CAPABILITY         269           IRO-04: Incorem RESPONSE PLAN (IRP)   DATA BREACH         270           IRO-04: Incorem RESPONSE PLAN (IRP)   DATA BREACH         271           IRO-05: Incorem RESPONSE PLAN (IRP)   DATA BREACH         271           IRO-06: Incorem RESPONSE PLAN (IRP)   CONTINUOUS Incorem RESPONSE INFORMENTS         271           IRO-06: Incorem RESPONSE TRAINING   SIMULATED INCORMTS         272           IRO-06: Incorem RESPONSE TRAINING   CONTINUOUS Incorem RESPONSE TRAINING ENVIRONMENTS         272           IRO-06: Incorem RESPONSE TSTING         272           IRO-06: Incorem RESPONSE TSTING         273           IRO-06: Incorem RESPONSE TSTING         272           IRO-06: Incorem RESPONSE TSTING         272           IRO-06: Incorem RESPONSE TSTING         272			
IRO-02.2: Incident Handung   Inscher Therar Resonast Canadury         266           IRO-02.2: Incident Handung   Incident Classification & Prionitization         267           IRO-02.4: Incident Handung   Incident Classification & Prionitization         267           IRO-02.5: Incident Handung   Incident Classification & Prionitization         269           IRO-03: Indications of Compromise [ Automation Streams, Disadurg of System         269           IRO-04: Incident Resource Park (IRP)         271           IRO-05: Incident Resource Park (IRP)   Continuous Incident Resource Intervenents         271           IRO-05: Incident Resource Training   Surulated Incidents         272           IRO-06: Incident Resource Training   Surulated Incidents         272           IRO-06: Incident Resource Testing         272           IRO-06: Incident Resource Testing         273           IRO-06: Incident Resource Testing         274           IRO-10: Inci	<b>IRO-02:</b> INCIDENT HANDLING		265
IRO-02.2: Incident Handung   Inscher Therar Resonast Canadury         266           IRO-02.2: Incident Handung   Incident Classification & Prionitization         267           IRO-02.4: Incident Handung   Incident Classification & Prionitization         267           IRO-02.5: Incident Handung   Incident Classification & Prionitization         269           IRO-03: Indications of Compromise [ Automation Streams, Disadurg of System         269           IRO-04: Incident Resource Park (IRP)         271           IRO-05: Incident Resource Park (IRP)   Continuous Incident Resource Intervenents         271           IRO-05: Incident Resource Training   Surulated Incidents         272           IRO-06: Incident Resource Training   Surulated Incidents         272           IRO-06: Incident Resource Testing         272           IRO-06: Incident Resource Testing         273           IRO-06: Incident Resource Testing         274           IRO-10: Inci	IRO-02.1: INCIDENT HAN	IDLING   AUTOMATED INCIDENT HANDLING PROCESSES	266
IRO-02.3: Incident HANQUNG [] Product Classification & Prioritization         267           IRO-02.4: Incident HANQUNG [] Incident Classification & Prioritization         269           IRO-02.6: Incident HANQUNG [] CORRELATION WITH EXTENJAL ORGANIZATIONS         269           IRO-02.6: Incident HANQUNG [] CORRELATION WITH EXTENJAL ORGANIZATIONS         269           IRO-04: Incident Response Plan (IRP)         269           IRO-04: Incident Response Plan (IRP)         270           IRO-04: Incident Response Plan (IRP) I Data Breach         270           IRO-04: Incident Response Plan (IRP) I Continuous Incident Response Internet, MERONEMENTS         271           IRO-04: Incident Response Plan (IRP) I Continuous Incident Response Internet, Barting IIRO - 05: Incident Response Teaming I SMULATED Incident Response Internet, I Continuous Incident Response Internet, IIRO-06: Incident Response Teaming I Continuous Incident Response Teaming I SMULATED Incident Response Internet, IIRO-06: Incident Response Team (ISIRT)         272           IRO-06: Incident Response Teaming I Condition Incident Response Team (ISIRT)         273           IRO-08: Incident Response Team (ISIRT)         273           IRO-09: Interesponse Teaming I Condition Interper Pacing I Condition Interper Pacing I Condition Interper Pacing I Condition I Control I Automate Incident Response I Condition I Control I Contrel I Contrel I Control I Control I Control I Control I Control I			266
IRO-02.4: Incident Handlink   Incident Cassification & Prioritzation         269           IRO-02.5: Incident Handlink   AutoMarce Disalinko or Sistem         269           IRO-03: Incident Resource Park (IRP)         269           IRO-04: Incident Resource Park (IRP)         269           IRO-03: Incident Resource Park (IRP)         269           IRO-04: Incident Resource Park (IRP)         271           IRO-05: Incident Response Park (IRP)         271           IRO-05: Incident Response Park (IRP)         271           IRO-05: Incident Response Training   Simulated Incidents         271           IRO-06: Chain of Custom Response Training   Simulated Incidents         272           IRO-06: Chain of Custom Response Training   Simulated Incidents         272           IRO-06: Chain of Custom Response Tesming   Continuous Incident Resource Tesmoses Team (ISIN)         273           IRO-06: Chain of Custom Response Tesming   Automated Teaconse Data Statistics         273           IRO-06: Chain of Custom Response Tesming   Automated Teaconse Data Statistics         273           IRO-06: Chain of Custom Response Tesming   Automated Resource Data Statistics         274           IRO-01: Incident Respon			267
IRO-02.5: INCIDENT HANDLING   AUTOMATED DISABLING OF SYSTEM         269           IRO-03: INDICATORS OF COMPROMISE (ICOC)         269           IRO-04: INCIDENT RESPONSE PLAN (IRP)   DATA BREACH         269           IRO-04: INCIDENT RESPONSE PLAN (IRP)   DATA BREACH         270           IRO-04: INCIDENT RESPONSE PLAN (IRP)   DATA BREACH         271           IRO-04: INCIDENT RESPONSE PLAN (IRP)   CONTINUOUS INCIDENT RESPONSE IMPROVEMENTS         271           IRO-05: INCIDENT RESPONSE TRAINING   SIMULATED INCIDENT S         272           IRO-06: INCIDENT RESPONSE TRAINING   SIMULATED INCIDENT S         272           IRO-06: INCIDENT RESPONSE TRAINING   SIMULATED INCIDENT S         272           IRO-06: INCIDENT RESPONSE TESTING         272           IRO-06: INCIDENT RESPONSE TESTING   CORDINATION WITH RELATED PLANS         272           IRO-06: INCIDENT RESPONSE TESTING         273           IRO-06: STOLATIONAL AWARENESS FOR INCIDENTS   AUTOMATED TRACOME, DATA COLLECTION & ANALYSIS         273           IRO-08: CHAIN OF CUSTOD & FORENSIC S         273           IRO-08: STUANTONAL AWARENESS FOR INCIDENTS   AUTOMATED TRACOME FOR COLLECTION & ANALYSIS         274           IRO-01: INCIDENT STAKEHOLDER REPORTING   AUTOMATED TRACOME FOR COLLECTION & ANALYSIS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING   AUTOMATED TRACOME FOR COLLECTION & ANALYSIS         274           IRO-10: INCIDENT STAKEH			-
IRO-02.6: INCIDENT HANDLINE, JAUTOMATIC DISABLING OF SYSTEM         269           IRO-03: INDICATORS OF COMPROMISE (IOC)         269           IRO-04: I: INCIDENT RESPONSE PLAN (IRP)         270           IRO-04: I: INCIDENT RESPONSE PLAN (IRP)         271           IRO-04: I: INCIDENT RESPONSE PLAN (IRP)         271           IRO-04: I: INCIDENT RESPONSE PLAN (IRP)         271           IRO-05: INCIDENT RESPONSE TRAINING         271           IRO-05: INCIDENT RESPONSE TRAINING   SIMULATED INCIDENT RESPONSE INJUNCTED INCIDENT RESPONSE TRAINING ENURONMENTS         272           IRO-05: INCIDENT RESPONSE TEAMING   SIMULATED INCIDENT GENOSE TRAINING ENURONMENTS         272           IRO-06: I: INCIDENT RESPONSE TEAMING   SIMULATED INCIDENT GENOSE TRAINING ENURONMENTS         272           IRO-06: I: INCIDENT RESPONSE TEAMING   CONDINATION WITH RELATED PLANS         273           IRO-07: INCIDENT RESPONSE TEAMING         273           IRO-08: CHAIN OF CUSTODY & FORENSICS         273           IRO-09: SITUATIONAL AWARENESS FOR INCIDENTS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING   AUTOMATED REPORTING         274           IRO-10: INCIDENT STAKEHOLDER REPORTING   CONSEL INCIDENT REPORTING INCIDENTS         275           IRO-10: INCIDENT STAKEHOLDER REPORTING   CONSEL INCIDENT REPORTING INCIDENTS         276           IRO-10: INCIDENT STAKEHOLDER REPORTING   CONSEL INCIDENT REPORTING INCIDENTS<			-
IRO-03: INDICATORS OF COMPROMISE (IOC)         269           IRO-04: INDICATOR RESPONSE PLAN (IRP) / DATA BREACH         270           IRO-04: 2: INCIDENT RESPONSE PLAN (IRP) / DATA BREACH         270           IRO-04: 2: INCIDENT RESPONSE PLAN (IRP) / IAR UPDATE         271           IRO-05: INCIDENT RESPONSE PLAN (IRP) / IAR UPDATE         271           IRO-05: INCIDENT RESPONSE TRAINING / SMULLATED INCIDENT RESPONSE INFROVEMENTS         271           IRO-06: INCIDENT RESPONSE TRAINING / SMULLATED INCIDENT RESPONSE TRAINING EWINRONMENTS         272           IRO-06: INCIDENT RESPONSE TESTING         272           IRO-06: INCIDENT RESPONSE TESTING         272           IRO-06: INCIDENT RESPONSE TESTING         272           IRO-07: INTEGRATED SCURITY INCIDENT RESPONSE TEAM (ISIRT)         273           IRO-09: INCIDENT STAKENOUSE REPORTING / AUTOMATED TRACKING, DATA COLLECTION & ANALYSIS         274           IRO-09: INCIDENT STAKENOUSE REPORTING / AUTOMATED TRACKING, DATA COLLECTION & ANALYSIS         274           IRO-09: INCIDENT STAKENOUSE REPORTING / AUTOMATED TRACKING, DATA COLLECTION & ANALYSIS         274           IRO-010: INCIDENT STAKENOUSE REPORTING / AUTOMATED TRACKING FOR COUPED DEFENSE INFORMATION (CDI)         275           IRO-10: INCIDENT STAKENOUSE REPORTING / AUTOMATED REPORTING         274           IRO-10: INCIDENT STAKENOUSE REPORTING / AUTOMATED REPORTING         275           IRO			
IRO-04: Incolever Response PLAN (IRP)         269           IRO-04: I: Incident Response PLAN (IRP) [ Data Breach         270           IRO-04: I: Incident Response PLAN (IRP) [ Continuous Incident Response IMPROVEMENTS         271           IRO-05: I: Incident Response Teaning         272           IRO-05: I: Incident Response Teaning [ Automated Incidents         272           IRO-05: I: Incident Response Teaning [ Automated Incidents         272           IRO-06: Incident Response Teaning [ Automated Incidents         273           IRO-06: Incident Response Teaning [ Automated Incidents         273           IRO-07: Incident Response Teaning [ Automation with Related Plans         273           IRO-08: Chain of Custopy & Forensics         273           IRO-09: Structional Awareness For Incidents [ Automated Reporting ] Automated Reporting [ Automated Reporting [ Automated Reporting ] Automated Reporting [ Automat			
IRO-04.1: INCIDENT RESPONSE PLAN (IRP.) [ JRA BREACH         270           IRO-04.2: INCIDENT RESPONSE PLAN (IRP.)         271           IRO-05.1: INCIDENT RESPONSE PLAN (IRP.)         271           IRO-05.2: INCIDENT RESPONSE TRAINING         271           IRO-05.2: INCIDENT RESPONSE TRAINING   AUTOMATED INCIDENT RESPONSE TRAINING ENVIRONMENTS         272           IRO-05.2: INCIDENT RESPONSE TRAINING   AUTOMATED INCIDENT RESPONSE TRAINING ENVIRONMENTS         272           IRO-06: INCIDENT RESPONSE TESTING         272           IRO-06: INCIDENT RESPONSE TESTING         272           IRO-06: INCIDENT RESPONSE TESTING         272           IRO-07: INTEGRATED SECURITY INCIDENT RESPONSE TRAIN (ISIT)         273           IRO-09: STUATIONAL AWARENESS FOR INCIDENTS         273           IRO-09: STUATIONAL AWARENESS FOR INCIDENTS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING (AUTOMATED TRACING, DATA COLLECTION & ANALYSIS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING (AUTOMATED TRACING, DATA COLLECTION & ANALYSIS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING (AUTOMATED TRACING, DATA COLLECTION & ANALYSIS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING (AUTOMATED TRACING, DATA COLLECTION & ANALYSIS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING (AUTOMATED TRACING, DATA COLLECTION & ANALYSIS         275           IRO-10: INCIDENT STAKEHOLDER			
IRO-04.2: INCIDENT RESPONSE PLAN (IRP.)   CONTINUOUS INCIDENT RESPONSE IMPROVEMENTS       271         IRO-05.1: INCIDENT RESPONSE TRAINING   SMULATED INCIDENT RESPONSE IMPROVEMENTS       272         IRO-05.2: INCIDENT RESPONSE TRAINING   AUTOMATED INCIDENT RESPONSE TRAINING ENVIRONMENTS       272         IRO-05.1: INCIDENT RESPONSE TESTING       272         IRO-06.1: INCIDENT RESPONSE TESTING       272         IRO-06.1: INCIDENT RESPONSE TESTING       273         IRO-07.1: INCIDENT RESPONSE TESTING       273         IRO-08: CHAIN OF QUITONY & FORMISCIS       273         IRO-09: STUATIONAL AWARENESS FOR INCIDENTS       273         IRO-09: INCIDENT RESPONSE TEAMING (AUTOMATED TRACKING, DATA COLLECTION & ANALYSIS       274         IRO-10: INCIDENT STAKEHOLDER REPORTING       274         IRO-10: INCIDENT STAKEHOLDER REPORTING       274         IRO-10: INCIDENT STAKEHOLDER REPORTING (OTER INCIDENT REPORTING FOR COLERED DEFENSE INFORMATION (CDI)       275         IRO-10: INCIDENT STAKEHOLDER REPORTING   AUTOMATED TRACKING, DATA COLECONS       276         IRO-11: INCIDENT STAKEHOLDER REPORTING   AUTOMATED TRACKING FOR COLERED DEFENSE INFORMATION (CDI)       275         IRO-11: INCIDENT STAKEHOLDER REPORTING   AUTOMATED TRACKING FOR COLERED DEFENSE INFORMATION (CDI)       276         IRO-11: INCIDENT STAKEHOLDER REPORTING   AUTOMATED TRACKING FOR COLERED DEFENSE INFORMATION (CDI)       275         IRO-11:			
IRO-04.3: INCIDENT RESPONSE PLAN (IRP.) / CONTINUOUS INCIDENT RESPONSE INPROVEMENTS         271           IRO-05: INCIDENT RESPONSE TRAINING   SMULATED INCIDENTS         272           IRO-05: I: MICIDENT RESPONSE TRAINING   AUTOMATED INCIDENTS         272           IRO-06: I: MICIDENT RESPONSE TESTING         272           IRO-06: I: INCIDENT RESPONSE TESTING   COORDINATION WITH RELATED PLANS         272           IRO-06: I: INCIDENT RESPONSE TESTING   COORDINATION WITH RELATED PLANS         273           IRO-06: I: INCIDENT RESPONSE TESTING   COORDINATION WITH RELATED PLANS         273           IRO-09: STUATIONAL AWARENESS FOR INCIDENTS         273           IRO-09: ISTUATIONAL AWARENESS FOR INCIDENTS         274           IRO-10: I: INCIDENT STAKEHOLDER REPORTING   AUTOMATED TRACKING, DATA COLLECTION & ANALYSIS         274           IRO-10: I: INCIDENT STAKEHOLDER REPORTING   AUTOMATED REPORTING FOR COVERED DEFENSE INFORMATION (CDI)         275           IRO-10: I: INCIDENT STAKEHOLDER REPORTING   VULNERABUITIS RELATED TO INCIDENTS         275           IRO-10: I: INCIDENT STAKEHOLDER REPORTING   VULNERABUITIS RELATED TO INCIDENTS         275           IRO-11: I: INCIDENT REPORTING ASSISTANCE   AUTOMATED SUPPORT TO FAVILLABUITY OF INFORMATION/SUPLOR         276           IRO-12: INFORMATION SPILLAGE RESPONSE   FANNE REPORTING OF OVER TRACKING SUPPORT         276           IRO-12: INFORMATION SPILLAGE RESPONSE   FANNE MULTH EXTERNAL PROVIDERS         277			-
IRO-05: INCIDENT RESPONSE TRAINING         271           IRO-05: I: INCIDENT RESPONSE TRAINING   SIMULATED INCIDENTS         272           IRO-06: I: INCIDENT RESPONSE TESTING         272           IRO-07: INTEGRATED SECURITY INCIDENT RESPONSE TEAM (ISIRT)         273           IRO-08: CHAIN OF CUSTODY & FORENSES         273           IRO-09: INTEGRATED SECURITY INCIDENT RESPONSE TEAM (ISIRT)         273           IRO-09: INTEGRATED SECURITY INCIDENT RESPONSE TEAM (ISIRT)         273           IRO-09: INTEGRATED SECURITY INCIDENT RESPONSE TRAINING A MARENESS FOR INCIDENTS         273           IRO-10: INCIDENT STAKEHOLDER REPORTING         274           IRO-10: INCIDENT STAKEHOLDER REPORTING (AUTOMATED TRACKING, DATA COLLECTION & ANALYSIS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING (SUPPORTING FOR COLLECTION & ANALYSIS         275           IRO-10: INCIDENT STAKEHOLDER REPORTING (SUPPORTING FOR COLLECTION & INCIDENTS         275           IRO-11: INCIDENT REPORTING ASSISTANCE / AUTOMATED TRACKING TO INCIDENTS         275           IRO-12: INCIDENT STAKEHOLDER REPORTING (SUPPORT         276           IRO-11: I: INCIDENT REPORTING ASSISTANCE / AUTOMATON SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT			
IRO-05.1: INCIDENT RESPONSE TRAINING   AUTOMATED INCIDENTS       272         IRO-05.2: INCIDENT RESPONSE TRAINING   AUTOMATED INCIDENT RESPONSE TRAINING ENVIRONMENTS       272         IRO-06.1: INCIDENT RESPONSE TESTING       273         IRO-07: INTEGRATE SECURITY INCIDENT RESPONSE TEATING   CORDINATION WITH RELATED PLANS       273         IRO-08: CHAIN OF CUSTOD'& FORENSICS       273         IRO-09: STUATIONAL AWARENESS FOR INCIDENTS       274         IRO-09: STUATIONAL AWARENESS FOR INCIDENTS       274         IRO-09: STUATIONAL AWARENESS FOR INCIDENTS       274         IRO-10.1: INCIDENT STACHOLDER REPORTING       274         IRO-10.2: INCIDENT STACHOLDER REPORTING   AUTOMATED TRACKING DATA COLLECTION & AMALYSIS       274         IRO-10.2: INCIDENT STACHOLDER REPORTING   AUTOMATED REPORTING FOR COVERED DEFENSE INFORMATION (CDI)       275         IRO-10.2: INCIDENT STACHOLDER REPORTING   AUTOMATED RECENTING FOR COVERED DEFENSE INFORMATION (CDI)       275         IRO-11.1: INCIDENT STACHOLDER REPORTING   SUPPLY CHAIN COORDINATION       276         IRO-11.2: INCIDENT STACHOLDER REPORTING   SUPPLY CHAIN COORDINATION       276         IRO-11.2: INCIDENT REPORTING ASSISTANCE   COORDINATION WITH EXCHEND REPORTING FOR COVERED DEFENSE INFORMATION (CDI)       275         IRO-11.1: INCIDENT REPORTING ASSISTANCE   COORDINATION WITH EXCHEND REPORTING       276         IRO-12.2: INCIDENT REPORTING ASSISTANCE   COORDINATION WITH EXCHEND REPORT			
IRO-05.2: Incident Response Training   Automated Incident Response Training Environments272IRO-05: Incident Response Testing272IRO-06: Incident Response Testing   Coordination with Related Plans273IRO-07: Integrated Security Incident Response Team (ISIRT)273IRO-08: Chain of Custory & Forensics273IRO-09: Introduct Awareness For Incidents273IRO-09: Introduct Awareness For Incidents273IRO-10: Incident Stakeholder Reporting274IRO-10: Incident Stakeholder Reporting   Automated Tracking, Data Collection & Analysis274IRO-10: Incident Stakeholder Reporting   Cyter Incident Reporting on Covered Derense Information (CDI)275IRO-10: Incident Stakeholder Reporting   Supely Chain Coord Reporting on Covered Derense Information (CDI)275IRO-10: Incident Stakeholder Reporting   Supely Chain Coordination275IRO-10: Incident Stakeholder Reporting   Supely Chain Coordination275IRO-11: Incident Reporting Assistance   Automation Superior of Availability of Incommation/Support276IRO-12: Incident Stakeholder Response   Response   Response   Dersonet277IRO-12: Incident Stakeholder Response   Response   Response   Coordination With External Providers276IRO-12: Incident Stakeholder Response   Response   Response   Dersonet277IRO-12: Incident Stakeholder Response   Response   Response   Response   277278IRO-12: Incident Studier Response   Response   Response   Response   277278IRO-12: Incident Studier Response   Response   Response   Response   277278IRO-12: Incident Studier Response   Response			
IRO-06: INCIDENT RESPONSE TESTING         272           IRO-07: INCIDENT RESPONSE TESTING / COORDINATION WITH RELATED PLANS         272           IRO-07: INCIDENT RESPONSE TESTING / COORDINATION WITH RELATED PLANS         273           IRO-08: CHAIN OF CUSTODY & FORENSICS         273           IRO-09: STULATIONAL AWARENESS FOR INCIDENTS         273           IRO-09: STULATIONAL AWARENESS FOR INCIDENTS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING         274           IRO-10: INCIDENT STAKEHOLDER REPORTING         274           IRO-10: INCIDENT STAKEHOLDER REPORTING / AUTOMATED TRACKING, DATA COLLECTION & ANALYSIS         274           IRO-10: INCIDENT STAKEHOLDER REPORTING / VURENABLITES RELATED TO INCIDENTS         275           IRO-10: INCIDENT STAKEHOLDER REPORTING / VURENABLITES RELATED TO INCIDENTS         275           IRO-11: INCIDENT STAKEHOLDER REPORTING / SUPPLY CHAIN COORDINATION         275           IRO-11: INCIDENT STAKEHOLDER REPORTING / SUPPLY CHAIN COORDINATION         276           IRO-11: INCIDENT REPORTING ASSISTANCE         276           IRO-11: INCIDENT REPORTING ASSISTANCE / COORDINATION WITH EXTERNAL PROVIDERS         276           IRO-12: INFORMATION SPILLAGE RESPONSE / REPONSILE PERSONNEL         277           IRO-12: INFORMATION SPILLAGE RESPONSE / REPONSILE DERATIONS         277           IRO-12: INFORMATION SPILLAGE RESPONSE / POST-SPILL OPERATIONS			
IRO-06.1: INCIDENT RESPONSE TESTING   COORDINATION WITH RELATED PLANS272IRO-07: INTEGRATED SECURITY INCIDENT RESPONSE TEAM (ISIRT)273IRO-08: CHAIN OF CUSTORY & FORENSICS273IRO-09: STUATIONAL AWARENESS FOR INCIDENTS273IRO-09: STUATIONAL AWARENESS FOR INCIDENTS274IRO-09: INCIDENT STAKEHOLDER REPORTING274IRO-10: INCIDENT STAKEHOLDER REPORTING274IRO-10: INCIDENT STAKEHOLDER REPORTING274IRO-10: INCIDENT STAKEHOLDER REPORTING   CYBER INCIDENT REPORTING FOR COVERED DEFENSE INFORMATION (CDI)IRO-10: INCIDENT STAKEHOLDER REPORTING   CYBER INCIDENT REPORTING FOR COVERED DEFENSE INFORMATION (CDI)IRO-10: INCIDENT STAKEHOLDER REPORTING   SUPPLY CHAIN COORDINATION275IRO-11: INCIDENT REPORTING ASSISTANCE276IRO-11: INCIDENT REPORTING ASSISTANCE276IRO-12: INFORMATION SPILLAGE RESPONSE   COORDINATION WITH EXTERNAL PROVIDERS276IRO-12: INFORMATION SPILLAGE RESPONSE   COORDINATION WITH EXTERNAL PROVIDERS276IRO-12: INFORMATION SPILLAGE RESPONSE   COORDINATION WITH EXTERNAL PROVIDERS277IRO-12: INFORMATION SPILLAGE RESPONSE   CREPONSIBLE PERSONNEL277IRO-12: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-12: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-12: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-12: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-13: ROOT CAUSE AMALYSIS (RCA) & LESSON SELE TO UNAUTHORIZED PERSONNEL277IRO-14: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277 <td></td> <td></td> <td></td>			
IRO-07: INTEGRATED SECURITY INCIDENT RESPONSE TEAM (ISIRT)       273         IRO-08: CHAIN OF CUSTODY & FORENSIS       273         IRO-08: CHAIN OF CUSTODY & FORENSIS       273         IRO-09: STUTATIONAL AWARENESS FOR INCIDENTS       273         IRO-00: INCIDENT STAKEHOLDER REPORTING       274         IRO-10: INCIDENT STAKEHOLDER REPORTING   AUTOMATED REPORTING       274         IRO-10: INCIDENT STAKEHOLDER REPORTING   AUTOMATED REPORTING FOR COVERED DEFENSE INFORMATION (CDI)       275         IRO-10: INCIDENT STAKEHOLDER REPORTING   AUTOMATED REPORTING FOR COVERED DEFENSE INFORMATION (CDI)       275         IRO-10: INCIDENT STAKEHOLDER REPORTING   SUPPLY CHAIN COORDINATION       276         IRO-11: INCIDENT REPORTING ASSISTANCE       276         IRO-11: INCIDENT REPORTING ASSISTANCE   COORDINATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT       276         IRO-12: INFORMATION SPILLAGE RESPONSE   RESPONSE   RESPONSE   REPORTING 277       277         IRO-12: INFORMATION SPILLAGE RESPONSE   RESPONSE   DEPROSUMEL       277         IRO-12: INFORMATION SPILLAGE RESPONSE   EXPOSUME TO UNAUTHORIZED PERSONNEL       277         IRO-12: INFORMATION SPILLAGE RESPONSE   EXPOSUME TO UNAUTHORIZED PERSONNEL       277         IRO-12: INFORMATION SPILLAGE RESPONSE   EXPOSUME TO UNAUTHORIZED PERSONNEL       277         IRO-13: INFORMATION SPILLAGE RESPONSE   FAMILING       277         IRO-14: REOULATION SPILL			
IRO-08: CHAIN OF CUSTODY & FORENSICS273IRO-09: STUATIONAL AWARENESS FOR INCIDENTS273IRO-09: STUATIONAL AWARENESS FOR INCIDENTSAUTOMATED TRACKING, DATA COLLECTION & ANALYSISIRO-10: INCIDENT STAKEHOLDER REPORTING274IRO-10: INCIDENT STAKEHOLDER REPORTING / AUTOMATED REPORTING274IRO-10: INCIDENT STAKEHOLDER REPORTING / AUTOMATED REPORTING OR COVERED DEFENSE INFORMATION (CDI)275IRO-10: INCIDENT STAKEHOLDER REPORTING / VULNERAPULITES RELATED TO INCIDENTS275IRO-10: INCIDENT STAKEHOLDER REPORTING / SUPPLY CHAIN COORDINATION275IRO-11: INCIDENT STAKEHOLDER REPORTING / SUPPLY CHAIN COORDINATION276IRO-11: INCIDENT STAKEHOLDER REPORTING / SUPPLY CHAIN COORDINATION276IRO-11: INCIDENT REPORTING ASSISTANCE / AUTOMATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT276IRO-12: INFORMATION SPILLAGE RESPONSE / RESPONSE / COORDINATION WITH EXTERNAL PROVIDERS277IRO-12: INFORMATION SPILLAGE RESPONSE / POSTSPIL OPERATIONS277IRO-12: INFORMATION SPILLAGE RESPONSE / POSTSPIL OPERATIONS277IRO-13: RUTORATION SPILLAGE RESPONSE / POSTSPIL OPERATIONS277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: PUBLIC RELATIONS & LEASONS LEARNED277IRO-16: PUBLIC RELATIONS & REPUTATION REPAR278IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-02: SECURITY ASSESSMEN			
IRO-09: STUATIONAL AWARENESS FOR INCIDENTS273IRO-09: STUATIONAL AWARENESS FOR INCIDENTSAUTOMATED TRACKING, DATA COLLECTION & ANALYSIS274IRO-10: INCIDENT STAKEHOLDER REPORTINGAUTOMATED REPORTING274IRO-10: INCIDENT STAKEHOLDER REPORTING   AUTOMATED REPORTING FOR COVERED DEFENSE INFORMATION (CDI)275IRO-10: INCIDENT STAKEHOLDER REPORTING   VULNERABILITIES RELATED TO INCIDENT ENDERT STAKEHOLDER REPORTING   VULNERABILITIES RELATED TO INCIDENTS275IRO-10: INCIDENT STAKEHOLDER REPORTING   VULNERABILITIES RELATED TO INCIDENTS275IRO-11: INCIDENT STAKEHOLDER REPORTING   VULNERABILITIES RELATED TO INCIDENTS276IRO-11: INCIDENT STAKEHOLDER REPORTING   VULNERABILITIES RELATED TO INCIDENTS276IRO-11: INCIDENT STAKEHOLDER REPORTING   VULNERABILITIES RELATED TO INCIDENTS276IRO-12: INFORMATION SPILLAGE RESPONSE   AUTOMATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT276IRO-12: INFORMATION SPILLAGE RESPONSE   COODINATION WITH EXTERNAL PROVIDERS276IRO-12: INFORMATION SPILLAGE RESPONSE   RESPONSIE   PERSONNEL277IRO-12: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARED277IRO-14: RESULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION ASURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMENT S280IAO-02: SECURITY ASSESSMENTS   SECURITY ASSESSMENTS   SECURITY ASSESSMENTS   SECURITY ASSESSMENTS   ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMEN			-
IRO-09.1: SITUATIONAL AWARENESS FOR INCIDENTS   AUTOMATED TRACKING, DATA COLLECTION & ANALYSIS274IRO-10: INCIDENT STAKEHOLDER REPORTING274IRO-10.1: INCIDENT STAKEHOLDER REPORTING   AUTOMATED REPORTING FOR COVERED DEFENSE INFORMATION (CDI)275IRO-10.2: INCIDENT STAKEHOLDER REPORTING   CYBER INCIDENT REPORTING FOR COVERED DEFENSE INFORMATION (CDI)275IRO-10.3: INCIDENT STAKEHOLDER REPORTING   CYBER INCIDENT REPORTING FOR COVERED DEFENSE INFORMATION (CDI)275IRO-10.4: INCIDENT STAKEHOLDER REPORTING   SUPPLY CHAIN COORDINATION275IRO-11: INCIDENT FEPORTING ASSISTANCE276IRO-11.2: INCIDENT REPORTING ASSISTANCE   COORDINATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT276IRO-12.1: INCIDENT REPORTING ASSISTANCE   COORDINATION WITH EXTERNAL PROVIDERS276IRO-12.1: INFORMATION SPILLAGE RESPONSE   RESPONSE   RESPONSE   RESPONSE   TAXINING277IRO-12.2: INFORMATION SPILLAGE RESPONSE   FEASONINEL277IRO-12.2: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-12.2: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEANNED277IRO-14: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPORT TRONS279IAO-01: I. INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: I. INFORMATION ASSURANCE (IA) OPERATIONS / ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS   INFERPORT SASESSMENTS280IAO-02: SECURITY ASSESSMENTS   SECURITY ASSESSMENTS<			-
IRO-10: INCIDENT STAREHOLDER REPORTING274IRO-10.1: INCIDENT STAREHOLDER REPORTINGAUTOMATED REPORTING274IRO-10.2: INCIDENT STAREHOLDER REPORTING / CUBER INCIDENT REPORTING FOR COVERED DEFENSE INFORMATION (CDI)275IRO-10.3: INCIDENT STAREHOLDER REPORTING / VUINERABULTIES RELATED TO INCIDENTS276IRO-11: INCIDENT STAREHOLDER REPORTING / VUINERABULTIES RELATED TO INCIDENTS276IRO-11: INCIDENT REPORTING ASSISTANCE276IRO-11: INCIDENT REPORTING ASSISTANCE / AUTOMATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT276IRO-11: INCIDENT REPORTING ASSISTANCE / COORDINATION WITH EXTERNAL PROVIDERS276IRO-12: INFORMATION SPILLAGE RESPONSE277IRO-12: INFORMATION SPILLAGE RESPONSE / RESPONSIBLE PERSONNEL277IRO-12: INFORMATION SPILLAGE RESPONSE / TAINING277IRO-12: INFORMATION SPILLAGE RESPONSE / TAINING277IRO-13: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION ASURANCE (IAO) DERATIONS / ASSESSMENT279IAO-01: INFORMATION ASSURANCE (IAO) DERATIONS / ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS / SECONTY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS / SECONTY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS / SECONTY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS /			
IRO-10.1: INCIDENT STAKEHOLDER REPORTING274IRO-10.2: INCIDENT STAKEHOLDER REPORTING   CYBER INCIDENT REPORTING FOR COVERED DEFENSE INFORMATION (CDI)275IRO-10.3: INCIDENT STAKEHOLDER REPORTING   VULNERABILITIES RELATED TO INCIDENTS275IRO-10.4: INCIDENT STAKEHOLDER REPORTING   SUPPLY CHAIN COORDINATION275IRO-11.1: INCIDENT REPORTING ASSISTANCE276IRO-11.1: INCIDENT REPORTING ASSISTANCE   AUTOMATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT276IRO-11.1: INCIDENT REPORTING ASSISTANCE   AUTOMATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT276IRO-11.1: INCIDENT REPORTING ASSISTANCE   CONSTINUTION WITH EXTERNAL PROVIDERS276IRO-12.1: INFORMATION SPILLAGE RESPONSE276IRO-12.1: INFORMATION SPILLAGE RESPONSE   RESPONSE   FERSONNEL277IRO-12.2: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.3: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.4: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS E   ERPOSURE TO UNAUTHORIZED PERSONNEL277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: PUBLIC RELATIONS & REPUTATION REPAIR278INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02.1: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENTS280IAO-02.2: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02.3: SECURITY ASSESSMENTS   NECHTARY ASSESSMENTS281IAO-02.4: SECURITY ASSESSMENTS   SECURITY ASSESSMENTS281IAO-02.3: SECURITY ASSESSMENTS   SECURITY ASSESSMENTS281IAO-02			
IRO-10.2: INCIDENT STAKEHOLDER REPORTING   CYBER INCIDENT REPORTING FOR COVERED DEFENSE INFORMATION (CDI)275IRO-10.3: INCIDENT STAKEHOLDER REPORTING   VUINERABILITIES RELATED TO INCIDENTS275IRO-10.4: INCIDENT STAKEHOLDER REPORTING   SUPPLY CHAIN COORDINATION275IRO-11.1: INCIDENT REPORTING ASSISTANCE276IRO-11.2: INCIDENT REPORTING ASSISTANCE   AUTOMATION WITH EXTERNAL PROVIDERS276IRO-11.2: INCIDENT REPORTING ASSISTANCE   COORDINATION WITH EXTERNAL PROVIDERS276IRO-12.1: INFORMATION SPILLAGE RESPONSE   COORDINATION WITH EXTERNAL PROVIDERS276IRO-12.1: INFORMATION SPILLAGE RESPONSE   COORDINATION WITH EXTERNAL PROVIDERS277IRO-12.1: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.2: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.3: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.4: INFORMATION SPILLAGE RESPONSE   DOST-SPILL OPERATIONS277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS L FARSULE TO UNAUTHORIZED PERSONNEL277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-16: PUBLIC RELATIONS & REPUTATION REPAR278IRO-16: PUBLIC RELATIONS & REPUTATION REPAR279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS   SECURITY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS   SECURITY ASSESSMENTS281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283<			
IRO-10.3: INCIDENT STAKEHOLDER REPORTING   VULNERABILITIES RELATED TO INCIDENTS275IRO-10.4: INCIDENT STAKEHOLDER REPORTING   SUPPLY CHAIN COORDINATION275IRO-11: INCIDENT REPORTING ASSISTANCE276IRO-11: INCIDENT REPORTING ASSISTANCE   AUTOMATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT276IRO-11.2: INCIDENT REPORTING ASSISTANCE   COORDINATION WITH EXTERNAL PROVIDERS276IRO-11.2: INFORMATION SPILLAGE RESPONSE   COORDINATION WITH EXTERNAL PROVIDERS276IRO-12.1: INFORMATION SPILLAGE RESPONSE   RESPONSIBLE PERSONNEL277IRO-12.2: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.3: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-12.4: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARNED277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR279IAO-01: INFORMATION ASSURANCE (IAO) DERATIONS   ASSESSMENT BOUNDARIES279IAO-02.2: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02.2: SECURITY ASSESSMENTS   SECUR			
IRO-10.4: Incident Stakeholder Reporting   Supply Chain Coordination275IRO-11.1: Incident Reporting Assistance276IRO-11.1: Incident Reporting Assistance   Automation Support of Availability of Information/Support276IRO-11.1: Incident Reporting Assistance   Coordination With External Providers276IRO-12.1: Incommation Spillage Response276IRO-12.1: Information Spillage Response   Responsible Personnel277IRO-12.1: Information Spillage Response   Response   Training277IRO-12.1: Information Spillage Response   Post-Spill Operations277IRO-12.2: Information Spillage Response   Post-Spill Operations277IRO-12.3: Information Spillage Response   Post-Spill Operations277IRO-12.4: Information Spillage Response   Post-Spill Operations277IRO-13: Root Cause Analysis (RCA) & Lessons Learned277IRO-14: Regulatory & Law Enforcement Contacts278IRO-16: Dubut Changers (Sanboxes)278IRO-16: Dubut Relations & Report of Assessment Boundaries279IAO-01: Information Assurance (IA) Operations   Assessment Boundaries279IAO-02: Security Assessments   Specialized Assessments280IAO-02: Security Assessments   Specialized Assessment Report (SAR)281IAO-02: Security Assessments   Specialized Assessment Report (SAR)281IAO-03: System Security & Privacy Plan (SSPP)281IAO-03: System Security & Privacy Plan (SSPP)283IAO-03: System Security & Privacy Plan (SSPP)283IAO-04: Theeat Analysis & Flaw Remediation During Development283IAO-			-
IRO-11: INCIDENT REPORTING ASSISTANCE276IRO-11.1: INCIDENT REPORTING ASSISTANCE / AUTOMATION SUPPORT OF AVAILABILITY OF INFORMATION/SUPPORT276IRO-11.2: INFORMATION SPILLAGE RESPONSE276IRO-12: INFORMATION SPILLAGE RESPONSE276IRO-12: INFORMATION SPILLAGE RESPONSE276IRO-12: INFORMATION SPILLAGE RESPONSE / PERSONNEL277IRO-12: INFORMATION SPILLAGE RESPONSE / PERSONNEL277IRO-12: INFORMATION SPILLAGE RESPONSE / POST-SPILL OPERATIONS277IRO-12: A: INFORMATION SPILLAGE RESPONSE / POST-SPILL OPERATIONS277IRO-12: A: INFORMATION SPILLAGE RESPONSE / EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-12: A: INFORMATION SPILLAGE RESPONSE / EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-12: A: INFORMATION SPILLAGE RESPONSE / POST-SPILL OPERATIONS277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS / ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS / INDEPENDENT ASSESSMENT BOUNDARIES280IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS283IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS283 <td></td> <td></td> <td>-</td>			-
IRO-11.1: Incident Reporting Assistance   Automation Support of Availability of Information/Support276IRO-11.2: Incident Reporting Assistance   Coordination With External Providers276IRO-12: Information Spillage Response276IRO-12.1: Information Spillage Response   Responsible Personnel277IRO-12.2: Information Spillage Response   Taaning277IRO-12.2: Information Spillage Response   Totaning277IRO-12.2: Information Spillage Response   Post-Spill Operations277IRO-12.2: Information Spillage Response   Post-Spill Operations277IRO-13: Root Cause Analysis (RCA) & Lessons Learned277IRO-14: Regulatory & Law Enforcement Contacts278IRO-15: Detonation Chambers (Sandboxes)278IRO-16: Public Relations & Reputation Repair278INFORMATION Assurance (IAO) Policy & Standards279IAO-01: Information Assurance (IA) Operations   Assessment Boundaries279IAO-02: Security Assessments   Independent Assessors280IAO-02: Security Assessments   Specialized Assessments280IAO-03: System Security Assessments   Specialized Assessment Security For Sensitive / Regulated Data In Support281IAO-03: System Security & Privacy Plan (SSPP)   AleQuate Security For Sensitive / Regulated Data In Support283IAO-03: System Security & Privacy Plan (SSPP)   AleQuate Security For Sensitive / Regulated Data In Support or Contracts283IAO-03: System Security & Privacy Plan (SSPP)   AleQuate Security For Sensitive / Regulated Data In Support or Contracts283IAO-03: System Security & Privacy Plan (SSPP)   Adequate Secur			-
IRO-11.2: INCIDENT REPORTING ASSISTANCE   COORDINATION WITH EXTERNAL PROVIDERS276IRO-12.1: INFORMATION SPILLAGE RESPONSE   RESPONSE   RESPONSE   RESPONSE   ZESONNEL277IRO-12.1: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.2: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-12.3: INFORMATION SPILLAGE RESPONSE   POST-SPIL OPERATIONS277IRO-12.4: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARNED277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMENT BOUNDARIES280IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMENT SONDAL281IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT283IAO-05: PLAN OF ACTION & MILLESTONES (POA&M)281			
IRO-12: INFORMATION SPILLAGE RESPONSE276IRO-12.1: INFORMATION SPILLAGE RESPONSE / RESPONSIBLE PERSONNEL277IRO-12.2: INFORMATION SPILLAGE RESPONSE / TRAINING277IRO-12.2: INFORMATION SPILLAGE RESPONSE / POST-SPILL OPERATIONS277IRO-12.3: INFORMATION SPILLAGE RESPONSE / POST-SPILL OPERATIONS277IRO-12.4: INFORMATION SPILLAGE RESPONSE / EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARNED277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-02: SECURITY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS / INDEPENDENT ASSESSORS280IAO-02: SECURITY ASSESSMENTS / SECURITY ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / SECURITY ASSESSMENTS281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP) / PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITES283IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP) / PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITES283IAO-03: SYSTEM SECURITY &			-
IRO-12.1: INFORMATION SPILLAGE RESPONSE   RESPONSIBLE PERSONNEL277IRO-12.2: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.2: INFORMATION SPILLAGE RESPONSE   DST-SPILL OPERATIONS277IRO-12.3: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-12.4: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARNED277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01.1: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02.1: SECURITY ASSESSMENTS280IAO-02.2: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMENT S280IAO-02.3: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENT REPORT (SAR)281IAO-02.4: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENT REPORT (SAR)281IAO-03.1: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL E			-
IRO-12.2: INFORMATION SPILLAGE RESPONSE   TRAINING277IRO-12.3: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-12.4: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-13: ROOT CAUSE ANALYSIS (IRCA) & LESSONS LEARNED277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-02: SECURITY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   ADEQUATE SECURITY FOR SENSITIVE / REGULATED DATA IN SUPPORT283IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   ADEQUATE SECURITY FOR SENSITIVE / REGULATED DATA IN SUPPORT283IAO-03: PLAN OF ACTOR & MILESTONES (POA&M)284IAO-03: P			-
IRO-12.3: INFORMATION SPILLAGE RESPONSE   POST-SPILL OPERATIONS277IRO-12.4: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARNED277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278INFORMATION ASSURANCE (IAO) POLICY & STANDARDS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSMENT BOUNDARIES280IAO-02: SECURITY ASSESSMENTS   NDEPENDENT ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENT S281IAO-02: SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: FLAN OF ACTION & MILESTONES (POA&M)281			
IRO-12.4: INFORMATION SPILLAGE RESPONSE   EXPOSURE TO UNAUTHORIZED PERSONNEL277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARNED277IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278INFORMATION ASSURANCE (IAO) POLICY & STANDARDS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS279IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SECURITY ASSESSMENTS   SECURITY ASSESSMENTS281IAO-02: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES			
IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARNED277IRO-13: ROOT CAUSE ANALYSIS (RCA) & LESSONS LEARNED278IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278INFORMATION ASSURANCE (IAO) POLICY & STANDARDS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONSASSESSMENT BOUNDARIES1AO-01: INFORMATION ASSURANCE (IA) OPERATIONS / ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS279IAO-02: SECURITY ASSESSMENTS / INDEPENDENT ASSESSORS280IAO-02: SECURITY ASSESSMENTS / INDEPENDENT ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-03: SYSTEM SECURITY ASSESSMENTS / SECURITY ASSESSMENTS281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP) / PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP) / PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286			
IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-14: REGULATORY & LAW ENFORCEMENT CONTACTS278IRO-15: DETONATION CHAMBERS (SANDBOXES)278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278INFORMATION ASSURANCE (IAO) POLICY & STANDARDS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   THIRD-PARTY ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS   SECURITY ASSESSMENT REPORT (SAR)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286			
IRO-15: DETONATION CHAMBERS (SANDBOXES) IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS / ASSESSMENT BOUNDARIES279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS / ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS279IAO-02: SECURITY ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS / INDEPENDENT ASSESSORS280IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP) / PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP) / ADEQUATE SECURITY FOR SENSITIVE / REGULATED DATA IN SUPPORT284IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286			
IRO-16: PUBLIC RELATIONS & REPUTATION REPAIR278INFORMATION ASSURANCE (IAO) POLICY & STANDARDS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS / ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS279IAO-02: SECURITY ASSESSMENTS279IAO-02: SECURITY ASSESSMENTS / INDEPENDENT ASSESSORS280IAO-02: SECURITY ASSESSMENTS / SPECIALIZED ASSESSMENTS280IAO-02: SECURITY ASSESSMENTS / THIRD-PARTY ASSESSMENTS281IAO-02: SECURITY ASSESSMENTS / THIRD-PARTY ASSESSMENTS281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP) / PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP) / ADEQUATE SECURITY FOR SENSITIVE / REGULATED DATA IN SUPPORT284IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286			-
INFORMATION ASSURANCE (IAO) POLICY & STANDARDS279IAO-01: INFORMATION ASSURANCE (IA) OPERATIONSASSESSMENT BOUNDARIES279IAO-01.1: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS279IAO-02: SECURITY ASSESSMENTS280IAO-02.2: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02.3: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS280IAO-02.4: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02.4: SECURITY ASSESSMENTS   THIRD-PARTY ASSESSMENTS281IAO-02.4: SECURITY ASSESSMENTS   SECURITY ASSESSMENT REPORT (SAR)281IAO-03.1: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03.1: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   ADEQUATE SECURITY FOR SENSITIVE / REGULATED DATA IN SUPPORT284IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286			
IAO-01: INFORMATION ASSURANCE (IA) OPERATIONS279IAO-01.1: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS279IAO-02: SECURITY ASSESSMENTS279IAO-02.1: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02.2: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS280IAO-02.3: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02.4: SECURITY ASSESSMENTS   THIRD-PARTY ASSESSMENT REPORT (SAR)281IAO-02.4: SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.1: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   ADEQUATE SECURITY FOR SENSITIVE / REGULATED DATA IN SUPPORT283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286	IRO-16: PUBLIC RELATIONS &	REPUTATION REPAIR	278
IAO-01.1: INFORMATION ASSURANCE (IA) OPERATIONS   ASSESSMENT BOUNDARIES279IAO-02: SECURITY ASSESSMENTS279IAO-02: SECURITY ASSESSMENTS280IAO-02.1: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02.2: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS281IAO-02.3: SECURITY ASSESSMENTS   THIRD-PARTY ASSESSMENTS281IAO-02.4: SECURITY ASSESSMENTS   SECURITY ASSESSMENT REPORT (SAR)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   ADEQUATE SECURITY FOR SENSITIVE / REGULATED DATA IN SUPPORT283OF CONTRACTS283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286			
IAO-02: SECURITY ASSESSMENTSINDEPENDENT ASSESSORS279IAO-02.1: SECURITY ASSESSMENTS   INDEPENDENT ASSESSORS280IAO-02.2: SECURITY ASSESSMENTS   SPECIALIZED ASSESSMENTS280IAO-02.3: SECURITY ASSESSMENTS   THIRD-PARTY ASSESSMENTS281IAO-02.4: SECURITY ASSESSMENTS   SECURITY ASSESSMENT REPORT (SAR)281IAO-03: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03.1: SYSTEM SECURITY & PRIVACY PLAN (SSPP)281IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   PLAN/COORDINATE WITH OTHER ORGANIZATIONAL ENTITIES283IAO-03.2: SYSTEM SECURITY & PRIVACY PLAN (SSPP)   ADEQUATE SECURITY FOR SENSITIVE / REGULATED DATA IN SUPPORT283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286			
IAO-02.1: Security Assessments   INDEPENDENT ASSESSORS280IAO-02.2: Security Assessments   Specialized Assessments280IAO-02.3: Security Assessments   Third-Party Assessments281IAO-02.4: Security Assessments   Security Assessment Report (SAR)281IAO-03.5: System Security & Privacy Plan (SSPP)281IAO-03.1: System Security & Privacy Plan (SSPP)   Plan/Coordinate with Other Organizational Entities283IAO-03.2: System Security & Privacy Plan (SSPP)   Adequate Security For Sensitive / Regulated Data in Support283OF CONTRACTS283IAO-04: Threat Analysis & Flaw Remediation During Development284IAO-05: Plan of Action & Milestones (POA&M)286			-
IAO-02.2: Security Assessments   Specialized Assessments280IAO-02.3: Security Assessments   Third-Party Assessments281IAO-02.4: Security Assessments   Security Assessment Report (SAR)281IAO-03: System Security & Privacy Plan (SSPP)281IAO-03.1: System Security & Privacy Plan (SSPP)   Plan/Coordinate with Other Organizational Entities283IAO-03.2: System Security & Privacy Plan (SSPP)   Adequate Security For Sensitive / Regulated Data In Support283OF CONTRACTS283IAO-04: Threat Analysis & Flaw Remediation During Development284IAO-05: Plan of Action & Milestones (POA&M)286	IAO-02: SECURITY ASSESSMEN	ITS	279
IAO-02.3: Security Assessments   Third-Party Assessments281IAO-02.4: Security Assessments   Security Assessment Report (SAR)281IAO-03: System Security & Privacy Plan (SSPP)281IAO-03.1: System Security & Privacy Plan (SSPP)   Plan/Coordinate with Other Organizational Entities283IAO-03.2: System Security & Privacy Plan (SSPP)   Adequate Security for Sensitive / Regulated Data In Support283OF CONTRACTS283IAO-04: Threat Analysis & Flaw Remediation During Development284IAO-05: Plan of Action & Milestones (POA&M)286		•	
IAO-02.4: Security Assessments   Security Assessment Report (SAR)281IAO-03: System Security & Privacy Plan (SSPP)281IAO-03.1: System Security & Privacy Plan (SSPP)   Plan/Coordinate with Other Organizational Entities283IAO-03.2: System Security & Privacy Plan (SSPP)   Adequate Security for Sensitive / Regulated Data In Support283of Contracts283IAO-04: Threat Analysis & Flaw Remediation During Development284IAO-05: Plan of Action & Milestones (POA&M)286			280
IAO-03: System Security & Privacy Plan (SSPP)281IAO-03.1: System Security & Privacy Plan (SSPP)283IAO-03.2: System Security & Privacy Plan (SSPP)Adequate Security for Sensitive / Regulated Data In Supportof Contracts283IAO-04: Threat Analysis & Flaw Remediation During Development284IAO-05: Plan of Action & Milestones (POA&M)286		•	281
IAO-03.1: System Security & Privacy Plan (SSPP)   Plan/Coordinate with Other Organizational Entities283IAO-03.2: System Security & Privacy Plan (SSPP)   Adequate Security for Sensitive / Regulated Data In Support283of Contracts283IAO-04: Threat Analysis & Flaw Remediation During Development284IAO-05: Plan of Action & Milestones (POA&M)286			-
IAO-03.2: System Security & Privacy Plan (SSPP)   Adequate Security for Sensitive / Regulated Data In Support       283         of Contracts       283         IAO-04: Threat Analysis & Flaw Remediation During Development       284         IAO-05: Plan of Action & Milestones (POA&M)       286	IAO-03: System Security &	Privacy Plan (SSPP)	281
OF CONTRACTS283IAO-04: THREAT ANALYSIS & FLAW REMEDIATION DURING DEVELOPMENT284IAO-05: PLAN OF ACTION & MILESTONES (POA&M)286			283
IAO-05: PLAN OF ACTION & MILESTONES (POA&M) 286			283
IAO-05: Plan of Action & Milestones (POA&M) 286	IAO-04: THREAT ANALYSIS &	FLAW REMEDIATION DURING DEVELOPMENT	284
	IAO-05: PLAN OF ACTION & N	Ailestones (POA&M)	286

IAO OF 1. BLAN OF ACTION & MULESTONES (DOARM)   DOARNA AUTOMATION	286
IAO-05.1: PLAN OF ACTION & MILESTONES (POA&M)   POA&M AUTOMATION IAO-06: TECHNICAL VERIFICATION	280 <b>286</b>
IAO-07: Security Authorization	286
MAINTENANCE (MNT) POLICY & STANDARDS	288
MAINTENANCE (WINT) POLICY & STANDARDS MNT-01: MAINTENANCE OPERATIONS	288
MNT-01: MAINTENANCE OPERATIONS MNT-02: CONTROLLED MAINTENANCE	288
MNT-02.1: CONTROLLED MAINTENANCE   AUTOMATED MAINTENANCE ACTIVITIES	289
MNT-02:1: CONTRolled Maintenance   Automated Maintenance Activities	289
MNT-03.1: TIMELY MAINTENANCE   PREVENTATIVE MAINTENANCE	289
MNT-03.2: TIMELY MAINTENANCE   PREDICTIVE MAINTENANCE	289
MNT-03.3: TIMELY MAINTENANCE   AUTOMATED SUPPORT FOR PREDICTIVE MAINTENANCE	200
MNT-04: MAINTENANCE TOOLS	290
MNT-04.1: MAINTENANCE TOOLS   INSPECT TOOLS	290
MNT-04.2: Maintenance Tools   Inspect Media	291
MNT-04.3: MAINTENANCE TOOLS   PREVENT UNAUTHORIZED REMOVAL	291
MNT-04.4: Maintenance Tools   Restrict Tool Use	291
MNT-05: REMOTE MAINTENANCE	291
MNT-05.1: REMOTE MAINTENANCE   AUDITING REMOTE MAINTENANCE	292
MNT-05.2: REMOTE MAINTENANCE   REMOTE MAINTENANCE NOTIFICATIONS	292
MNT-05.3: REMOTE MAINTENANCE   REMOTE MAINTENANCE CRYPTOGRAPHIC PROTECTION	292
MNT-05.4: REMOTE MAINTENANCE   REMOTE MAINTENANCE DISCONNECT VERIFICATION	292
MNT-05.5: REMOTE MAINTENANCE   REMOTE MAINTENANCE PRE-APPROVAL	293
MNT-05.6: REMOTE MAINTENANCE   REMOTE MAINTENANCE COMPARABLE SECURITY & SANITIZATION	293
MNT-05.7: REMOTE MAINTENANCE   SEPARATION OF MAINTENANCE SESSIONS	293
MNT-06: MAINTENANCE PERSONNEL	293
MNT-06.1: MAINTENANCE PERSONNEL   MAINTENANCE PERSONNEL WITHOUT APPROPRIATE ACCESS	294
MNT-06.2: MAINTENANCE PERSONNEL   NON-SYSTEM RELATED MAINTENANCE	294
MNT-07: MAINTAIN CONFIGURATION CONTROL DURING MAINTENANCE	294
MNT-08: Field Maintenance	295
MNT-09: OFF-SITE MAINTENANCE	295
MNT-10: MAINTENANCE VALIDATION	295
MNT-11: MAINTENANCE MONITORING	295
MOBILE DEVICE MANAGEMENT (MDM) POLICY & STANDARDS	296
MDM-01: CENTRALIZED MANAGEMENT OF MOBILE DEVICES	296
MDM-02: Access Contr <mark>ol F</mark> or Mobile Devices	296
MDM-03: Full Device & Container-Based Encryption	297
MDM-04: TAMPER PROTECTION & DETECTION	297
MDM-05: REMOTE PURGING	298
MDM-06: Personally-Owned Mobile Devices	298
MDM-07: ORGANIZATION-OWN <mark>ED MOBILE DEVICES</mark>	299
MDM-08: MOBILE DEVICE DATA RETENTION LIMITATIONS	299
MDM-09: MOBILE DEVICE GEOFENCING	299
MDM-10: SEPARATE MOBILE DEVICE PROFILES	299
MDM-11: Restricting Access To Authorized Devices	299
NETWORK SECURITY (NET) POLICY & STANDARDS	301
NET-01: NETWORK SECURITY CONTROLS (NSC)	301
NET-01.1: NETWORK SECURITY CONTROLS (NSC)   ZERO TRUST ARCHITECTURE (ZTA)	301
NET-02: LAYERED DEFENSES	301
NET-02.1: LAYERED DEFENSES   DENIAL OF SERVICE (DOS) PROTECTION	302
NET-02.2: LAYERED DEFENSES   GUEST NETWORKS	302
NET-02.3: LAYERED DEFENSES   CROSS DOMAIN SOLUTIONS (CDS)	302
NET-03: BOUNDARY PROTECTION	303
NET-03.1: BOUNDARY PROTECTION   LIMIT NETWORK CONNECTIONS	304
NET-03.2: BOUNDARY PROTECTION   EXTERNAL TELECOMMUNICATIONS SERVICES	304
NET-03.3: BOUNDARY PROTECTION   PREVENT DISCOVERY OF INTERNAL INFORMATION	304
NET-03.4: BOUNDARY PROTECTION   PERSONAL DATA (PD)	305 305
NET-03.5: BOUNDARY PROTECTION   PREVENT UNAUTHORIZED EXFILTRATION	505

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	205
NET-03.6: BOUNDARY PROTECTION   DYNAMIC ISOLATION & SEGREGATION (SANDBOXING)	305 306
NET-03.7: BOUNDARY PROTECTION   ISOLATION OF INFORMATION SYSTEM COMPONENTS	306 306
NET-03.8: BOUNDARY PROTECTION   SEPARATE SUBNETS FOR CONNECTING TO DIFFERENT SECURITY DOMAINS NET-04: DATA FLOW ENFORCEMENT – ACCESS CONTROL LISTS (ACLS)	306 306
NET-04.1: DATA FLOW ENFORCEMENT – ACCESS CONTROL LISTS (ACLS) NET-04.1: DATA FLOW ENFORCEMENT   DENY TRAFFIC BY DEFAULT & ALLOW TRAFFIC BY EXCEPTION	307
NET-04.2: DATA FLOW ENFORCEMENT   DEINT MARTIC DI DEI AGEI & ALLOW THATTIC DI EXCEL HON	307
NET-04.3: DATA FLOW ENFORCEMENT   CONTENT CHECK FOR ENCRYPTED DATA	308
NET-04.4: DATA FLOW ENFORCEMENT   EMBEDDED DATA TYPES	308
NET-04.5: DATA FLOW ENFORCEMENT   METADATA	308
NET-04.6: DATA FLOW ENFORCEMENT   HUMAN REVIEWS	308
NET-04.7: DATA FLOW ENFORCEMENT   SECURITY POLICY FILTERS	309
NET-04.8: DATA FLOW ENFORCEMENT   DATA TYPE IDENTIFIERS	309
NET-04.9: DATA FLOW ENFORCEMENT   DECOMPOSITION INTO POLICY-RELEVANT SUBCOMPONENTS	309
NET-04.10: DATA FLOW ENFORCEMENT   DETECTION OF UNSANCTIONED INFORMATION	310
NET-04.11: DATA FLOW ENFORCEMENT   APPROVED SOLUTIONS	310
NET-04.12: DATA FLOW ENFORCEMENT   CROSS DOMAIN AUTHENTICATION	310
NET-04.13: DATA FLOW ENFORCEMENT   METADATA VALIDATION	311
NET-05: System Interconnections	311
NET-05.1: SYSTEM INTERCONNECTIONS   EXTERNAL SYSTEM CONNECTIONS	312
NET-05.2: System Interconnections   Internal System Connections	312
NET-06: NETWORK SEGMENTATION	313
NET-06.1: NETWORK SEGMENTATION   SECURITY MANAGEMENT SUBNETS	313
NET-06.2: NETWORK SEGMENTATION   VIRTUAL LOCAL AREA NETWORK (VLAN) SEPARATION	314 314
NET-06.3: NETWORK SEGMENTATION   SENSITIVE / REGULATED DATA ENCLAVE (SECURE ZONE)	314 314
NET-06.4: Network Segmentation   Segregation From Enterprise Services NET-06.5: Network Segmentation   Direct Internet Access Restrictions	314 314
NET-00.5. NETWORK Segmentation	315
NET-08: NETWORK INTRUSION DETECTION & PREVENTION SYSTEMS (NIDS/NIPS)	315
NET-08.1: NETWORK INTRUSION DETECTION & PREVENTION SYSTEMS (NIDS/NIPS)   DMZ NETWORKS	315
NET-08.2: Network Intrusion Detection & Prevention Systems (NIDS/NIPS)   Wireless Intrusion	010
DETECTION/PREVENTION SYSTEMS (WIDS/WIPS)	316
NET-09: Session Integrity	316
NET-09.1: Session Integrity   Invalidate Session Identifiers at Logout	316
NET-09.2: Session Integrity   Unique System-Generated Session Identifiers	316
NET-10 DOMAIN NAME SERVICE (DNS) RESOLUTION	316
NET-10.1: DOMAIN NAME SERVICE (DNS) RESOLUTION   ARCHITECTURE & PROVISIONING FOR NAME/ADDRESS	
RESOLUTION SERVICE	317
NET-10.2 <mark>: Domain Name S</mark> ervice (DNS) Resolution   Secure Name/Address Resolution Service (Recursive or	
CACHING RESOLVER)	317
NET-10.3: DOMAIN NAME SERVICE (DNS) RESOLUTION   SENDER POLICY FRAMEWORK (SPF)	318
NET-10.4: DOMAIN NAME SERVICE (DNS) RESOLUTION   DOMAIN REGISTRAR SECURITY	318
NET-11: OUT-OF-BAND CHANNELS	318
NET-12: SAFEGUARDING DATA OVER OPEN NETWORKS	318
NET-12.1: SAFEGUARDING DATE OVER OPEN NETWORKS   WIRELESS LINK PROTECTION	319
NET-12.2: SAFEGUARDING DATE OVER OPEN NETWORKS   END-USER MESSAGING TECHNOLOGIES	319
NET-13: ELECTRONIC MESSAGING	320
NET-14: REMOTE ACCESS	320
NET-14.1: REMOTE Access   AUTOMATED MONITORING & CONTROL NET-14.2: REMOTE Access   PROTECTION OF CONFIDENTIALITY/INTEGRITY USING ENCRYPTION	321 321
NET-14.2. REMOTE ACCESS   PROTECTION OF CONFIDENTIALITY/INTEGRITY OSING ENCRYPTION NET-14.3: REMOTE ACCESS   MANAGED ACCESS CONTROL POINTS	321
NET-14.3: REMOTE ACCESS   PRIVILEGED ACCESS CONTROL FOINTS NET-14.4: REMOTE ACCESS   PRIVILEGED COMMANDS & ACCESS	321
NET-14.4. REMOTE ACCESS   PRIVILEGED COMMANDS & ACCESS NET-14.5: REMOTE ACCESS   WORK FROM ANYWHERE (WFA) – TELECOMMUTING SECURITY	321
NET-14.5: REMOTE ACCESS   WORK FROM ANTWHELE (WFA) TELECOMMOTING SECONT	322
NET-14.7: REMOTE Access   Endpoint Security Validation	322
NET-14.8: REMOTE Access   Expeditious Disconnect/Disable Capability	322
NET-15: WIRELESS NETWORKING	323
NET-15.1: Wireless Access   Authentication & Encryption	323
NET-15.2: WIRELESS ACCESS   DISABLE WIRELESS NETWORKING	324

NET-15.3: WIRELESS ACCESS   RESTRICT CONFIGURATION BY USERS	324
NET-15.4: Wireless Access   Wireless Boundaries	324
NET-15.5: Wireless Access   Rogue Wireless Detection	324
NET-16: INTRANETS	325
NET-17: DATA LOSS PREVENTION (DLP)	325
NET-18: DNS & CONTENT FILTERING	325
NET-18.1: DNS & CONTENT FILTERING   ROUTE TRAFFIC TO PROXY SERVERS	326
NET-18.2: DNS & CONTENT FILTERING   VISIBILITY OF ENCRYPTED COMMUNICATIONS	326
NET-18.3: DNS & CONTENT FILTERING   ROUTE PRIVILEGED NETWORK ACCESS	326
PHYSICAL & ENVIRONMENTAL SECURITY (PES) POLICY & STANDARDS	327
PES-01: Physical & Environmental Protections	327
PES-01.1: Physical & Environmental Protections   Site Security Plan (SitePlan)	327
PES-02: Physical Access Authorizations	327
PES-02.1: Physical Access Authorizations   Role-Based Physical Access	328
PES-02.2: Physical Access Authorizations   Dual Authorization for Physical Access	328
PES-03: Physical Access Control	329
PES-03.1: Physical Access Control   Controlled Ingress & Egress Points	330
PES-03.2: Physical Access Control   Lockable Physical Casings	330
PES-03.3: Physical Access Control   Physical Access Logs	330
PES-03.4: Physical Access Control   Access To Information Systems	331
PES-04: Physical Security of Offices, Rooms & Facilities	331
PES-04.1: Physical Security of Offices, Rooms & Facilities   Working in Secure Areas	332
PES-04.2: Physical Security of Offices, Rooms & Facilities / Searches	332
PES-04.3: Physical Security of Offices, Rooms & Facili <mark>ties   Te</mark> mporary Storage	332
PES-05: MONITORING PHYSICAL ACCESS	333
PES-05.1: MONITORING PHYSICAL ACCESS   INTRUSION ALARM <mark>S/SURVEILLA</mark> NCE EQUIPMENT	333
PES-05.2: MONITORING PHYSICAL ACCESS   MONITORING PHYSICAL ACCESS TO INFORMATION SYSTEMS	333
PES-06: VISITOR CONTROL	334
PES-06.1: Visitor Control   Distinguish Visitors from On-Site Personnel	334
PES-06.2: Visitor Control   Identification Requirement	334
PES-06.3: Visitor Control   Restrict Unescorted Access	335
PES-06.4: Visitor Control   Automated Records Management & Review	335
PES-06.5: Visitor Control   Minimize Visitor Personal Data (PD)	335
PES-06.6: Visitor Control   Visitor Access Revocation	335
PES-07: SUPPORTING UTILITIES	336
PES-07.1: SUPPORTING UTILITIES   AUTOMATIC VOLTAGE CONTROLS	336
PES-07.2: Supporting Utilities   Emergency Shutoff	336
PES-07.3: Supporting Utilities   Emergency Power	336
PES-07.4: Supporting Utilities   Emergency Lighting	337
PES-07.5: SUPPORTING UTILITIES   WATER DAMAGE PROTECTION	337
<b>PES-07.6:</b> Supporting Utilities   Automation Support for Water Damage Protection	337
PES-07.7: Supporting Utilities   Redundant Cabling	337
PES-08: Fire Protection	337
PES-08.1: Fire Protection   Fire Detection Devices	338
PES-08.2: Fire Protection J Fire Suppression Devices	338
PES-08.3: Fire Protection   Automatic Fire Suppression	338
PES-09: TEMPERATURE & HUMIDITY CONTROLS	338
PES-09.1: TEMPERATURE & HUMIDITY CONTROLS   MONITORING WITH ALARMS/NOTIFICATIONS	338
PES-10: DELIVERY & REMOVAL	339
PES-11: Alternate Work Site	339
PES-12: EQUIPMENT SITING & PROTECTION	340
PES-12.1: EQUIPMENT SITING & PROTECTION   TRANSMISSION MEDIUM SECURITY	340
PES-12.2: EQUIPMENT SITING & PROTECTION   ACCESS CONTROL FOR OUTPUT DEVICES	340
PES-13: INFORMATION LEAKAGE DUE TO ELECTROMAGNETIC SIGNALS EMANATIONS	341
PES-14: Asset Monitoring and Tracking	341
PES-15: ELECTROMAGNETIC PULSE (EMP) PROTECTION	341
PES-16: COMPONENT MARKING	342
PES-17: PROXIMITY SENSOR	342

PES-18: ON-SITE CLIENT SEGREGATION	342
ATA PRIVACY (PRI) POLICY & STANDARDS	34
PRI-01: DATA PRIVACY PROGRAM	343
PRI-01.1: DATA PRIVACY PROGRAM   CHIEF PRIVACY OFFICER (CPO)	343
PRI-01.2: DATA PRIVACY PROGRAM   PRIVACY ACT STATEMENTS	343
PRI-01.3: DATA PRIVACY PROGRAM   DISSEMINATION OF PRIVACY PROGRAM INFORMATION	344
PRI-01.4: DATA PRIVACY PROGRAM   DATA PROTECTION OFFICER (DPO)	344
PRI-01.5: DATA PRIVACY PROGRAM   BINDING CORPORATE RULES (BCR)	344
PRI-01.6: DATA PRIVACY PROGRAM   SECURITY OF PERSONAL DATA	344
PRI-01.7: DATA PRIVACY PROGRAM   LIMITING PERSONAL DATA DISCLOSURES	344
PRI-02: DATA PRIVACY NOTICE	345
PRI-02.1: DATA PRIVACY NOTICE   PURPOSE SPECIFICATION	345
PRI-02.2: DATA PRIVACY NOTICE   AUTOMATED DATA MANAGEMENT PROCESSES	345
PRI-02.3: DATA PRIVACY NOTICE   COMPUTER MATCHING AGREEMENTS (CMA)	346
PRI-02.4: DATA PRIVACY NOTICE   SYSTEM OF RECORDS NOTICE (SORN)	346
PRI-02.5: DATA PRIVACY NOTICE   SYSTEM OF RECORDS NOTICE (SORN) REVIEW PROCESS	346
PRI-02.6: DATA PRIVACY NOTICE   PRIVACY ACT EXEMPTIONS	346
PRI-02.7: DATA PRIVACY NOTICE   REAL-TIME OR LAYERED NOTICE	347
PRI-03: CHOICE & CONSENT	347
PRI-03.1: CHOICE & CONSENT   TAILORED CONSENT	347
PRI-03.2: CHOICE & CONSENT   JUST-IN-TIME NOTICE & UPDATED CONSENT	347
PRI-03.3: Choice & Consent   Prohibition Of Selling or Sharing Personal Data (PD)	348
PRI-03.4: Choice & Consent   Revoke Consent	348
PRI-03.5: Choice & Consent   Product or Service Delivery Restrictions	348
PRI-03.6: Choice & Consent   Authorized Agent	348
PRI-03.7: CHOICE & CONSENT   ACTIVE PARTICIPATION BY DATA SUBJECTS	348
PRI-03.8: Choice & Consent   Global Privacy Control (GPC)	349
PRI-04: RESTRICT COLLECTION TO IDENTIFIED PURPOSE	349
PRI-04.1: RESTRICT COLLECTION TO IDENTIFIED PURPOSE   AUTHORITY TO COLLECT, USE, MAINTAIN & SHARE PERSONAL	
DATA (PD)	349
PRI-04.2: RESTRICT COLLECTION TO IDENTIFIED PURPOSE   PRIMARY SOURCES	349
PRI-04.3: RESTRICT COLLECTION TO IDENTIFIED PURPOSE   IDENTIFIABLE IMAGE COLLECTION	349
PRI-04.4: RESTRICT COLLECTION TO IDENTIFIED PURPOSE   ACQUIRED PERSONAL DATA	350
PRI-04.5: RESTRICT COLLECTION TO IDENTIFIED PURPOSE   VALIDATE COLLECTED PERSONAL DATA	350
PRI-04.6: RESTRICT COLLECTION TO IDENTIFIED PURPOSE   RE-VALIDATE COLLECTED PERSONAL DATA	350
PRI-05: Personal Data Retention & Disposal	350
PRI-05.1: Personal Data Retention & Disposal   Internal Use of Personal Data For Testing, Training and	
Research	350
PRI-05.2: Personal Data Retention & Disposal   Personal Data Accuracy & Integrity	351
PRI-05.3: Personal Data Retention & Disposal   Data Masking	351
PRI-05.4: Personal Data Retention & Disposal   Usage Restrictions of Sensitive Personal Data	351
PRI-05.5: Personal Data Retention & Disposal   Inventory Of Personal Data	351
PRI-05.6: Personal Data Retention & Disposal   Personal Data Inventory Automation Support	352
PRI-05.7: Personal Data Retention & Disposal   Personal Data Categories	352
PRI-06: DATA SUBJECT ACCESS	352
PRI-06.1: DATA SUBJECT ACCESS   CORRECTING INACCURATE PERSONAL DATA	352
PRI-06.2: DATA SUBJECT ACCESS   NOTICE OF CORRECTION OR PROCESSING CHANGE	353
PRI-06.3: DATA SUBJECT ACCESS   APPEAL ADVERSE DECISION	353
PRI-06.4: DATA SUBJECT ACCESS   USER FEEDBACK MANAGEMENT	353
PRI-06.5: DATA SUBJECT ACCESS   RIGHT TO ERASURE	353
PRI-06.6: DATA SUBJECT ACCESS   DATA PORTABILITY	354
PRI-06.7: DATA SUBJECT ACCESS   PERSONAL DATA EXPORTABILITY	354
PRI-07: INFORMATION SHARING WITH THIRD PARTIES	354
PRI-07.1: INFORMATION SHARING WITH THIRD PARTIES   PRIVACY REQUIREMENTS FOR CONTRACTORS & SERVICE PROVIDERS	
PRI-07.2: Information Sharing With Third Parties   Joint Processing of Personal Data	355
PRI-07.3: Information Sharing With Third Parties   Obligation To Inform Third Parties	355
PRI-07.4: Information Sharing With Third Parties   Reject Unauthorized Disclosure Requests	355
PRI-08: TESTING, TRAINING & MONITORING	355

PRI-09: Personal Data Lineage	356
PRI-10: DATA QUALITY MANAGEMENT	356
PRI-10.1: DATA QUALITY MANAGEMENT   AUTOMATION	356
PRI-10.2: DATA QUALITY MANAGEMENT   DATA ANALYTICS BIAS	357
PRI-11: DATA TAGGING	357
PRI-12: UPDATING PERSONAL DATA	357
PRI-13: DATA MANAGEMENT BOARD	357
PRI-14: DATA PRIVACY RECORDS & REPORTING	358
PRI-14.1: DATA PRIVACY RECORDS & REPORTING   ACCOUNTING OF DISCLOSURES	358
PRI-14.2: DATA PRIVACY RECORDS & REPORTING   NOTIFICATION OF DISCLOSURE REQUEST TO DATA SUBJECT	358
PRI-15: REGISTER AS A DATA CONTROLLER AND/OR DATA PROCESSOR	359
PRI-16: POTENTIAL HUMAN RIGHTS ABUSES PRI-17: DATA SUBJECT COMMUNICATIONS	359
PRI-17. DATA SUBJECT COMMUNICATIONS PRI-17.1: DATA SUBJECT COMMUNICATIONS   CONSPICUOUS LINK TO PRIVACY NOTICE	<b>359</b> <i>360</i>
PRI-17.1: DATA SUBJECT COMMUNICATIONS   CONSPICUOUS LINK TO PRIVACY NOTICE PRI-17.2: DATA SUBJECT COMMUNICATIONS   NOTICE OF FINANCIAL INCENTIVE	360
DIECT & RESOURCE MANAGEMENT (PRM) POLICY & STANDARDS	36
PRM-01: Cybersecurity & Data Privacy Portfolio Management	361
PRM-01.1: Cybersecurity & Data Privacy Portfolio Management   Strategic Plan & Objectives	361
PRM-01.2: Cybersecurity & Data Privacy Portfolio Management   Targeted Capability Maturity Levels	361
PRM-02: Cybersecurity & Data Privacy Resource Management	362
PRM-03: ALLOCATION OF RESOURCES	362
PRM-04: Cybersecurity & Data Privacy In Project Management	362
PRM-05 CYBERSECURITY & DATA PRIVACY REQUIREMENTS DEFINITION	362
PRM-06: BUSINESS PROCESS DEFINITION	363
PRM-07: SYSTEM DEVELOPMENT LIFE CYCLE (SDLC) MANAGEMENT	363
PRM-08: MANAGE ORGANIZATIONAL KNOWLEDGE	363
KK MANAGEMENT (RSK) POLICY & STANDARDS	36
RSK-01: RISK MANAGEMENT PROGRAM (RMP)	365
RSK-01.1: RISK MANAGEMENT PROGRAM (RMP)   RISK FRAMING	365
RSK-01.2: RISK MANAGEMENT PROGRAM (RMP)   RISK MANAGEMENT RESOURCING	366
RSK-01.3: RISK MANAGEMENT PROGRAM (RMP)   RISK TOLERANCE	366
RSK-01.4: RISK MANAGEMENT PROGRAM (RMP)   RISK THRESHOLD	367
RSK-01.5: RISK MANAGEMENT PROGRAM (RMP)   RISK APPETITE	367
RSK-02: RISK-BASED SECURITY CATEGORIZATION	368
RSK-02.1: RISK-BASED SECURITY CATEGORIZATION   IMPACT-LEVEL PRIORITIZATION	368
RSK-03: RISK IDENTIFICATION	368
RSK-03.1: RISK IDENTIFICATION   RISK CATALOG	369
RSK-04: RISK ASSESSMENT	369
RSK-04.1: RISK ASSESSMENT   RISK REGISTER	370
RSK-05: RISK RANKING	370
RSK-06: RISK REMEDIATION	370
RSK-06.1: RISK REMEDIATION   RISK RESPONSE	371
RSK-06.2: Risk Remediation   Compensating Countermeasures	371
RSK-07: RISK ASSESSMENT UPDATE	372
RSK-08: BUSINESS IMPACT ANALYSIS (BIA)	372
RSK-09: SUPPLY CHAIN RISK MANAGEMENT (SCRM) PROGRAM	372
RSK-09.1: SUPPLY CHAIN RISK MANAGEMENT (SCRM) PROGRAM   SUPPLY CHAIN RISK ASSESSMENT RSK-09.2: SUPPLY CHAIN RISK MANAGEMENT (SCRM) PROGRAM   AI & AUTONOMOUS TECHNOLOGIES SUPPLY CHAIN	373
RSR-09.2. SUPPLY CHAIN RISK IVIANAGEMENT (SCRIVI) PROGRAM   AT & AUTUNUMUUS TECHNOLOGIES SUPPLY CHAIN	374
	374 374
IMPACTS	
RSK-10: DATA PROTECTION IMPACT ASSESSMENT (DPIA)	375
RSK-10: DATA PROTECTION IMPACT ASSESSMENT (DPIA) RSK-11: RISK MONITORING	
RSK-10: DATA PROTECTION IMPACT ASSESSMENT (DPIA) RSK-11: RISK MONITORING RSK-12: RISK CULTURE	375
RSK-10: DATA PROTECTION IMPACT ASSESSMENT (DPIA) RSK-11: RISK MONITORING RSK-12: RISK CULTURE CURE ENGINEERING & ARCHITECTURE (SEA) POLICY & STANDARDS	375 <u>37</u>
RSK-10: DATA PROTECTION IMPACT ASSESSMENT (DPIA) RSK-11: RISK MONITORING RSK-12: RISK CULTURE CURE ENGINEERING & ARCHITECTURE (SEA) POLICY & STANDARDS SEA-01: SECURE ENGINEERING PRINCIPLES	375 <u>37</u> 376
RSK-10: DATA PROTECTION IMPACT ASSESSMENT (DPIA) RSK-11: RISK MONITORING RSK-12: RISK CULTURE CURE ENGINEERING & ARCHITECTURE (SEA) POLICY & STANDARDS	375 37 376 377 377

	270
SEA-02.1: Alignment With Enterprise Architecture   Standardized Terminology SEA-02.2: Alignment With Enterprise Architecture   Outsourcing Non-Essential Functions or Services	378 378
SEA-02.2: Alignment With Enterprise Architecture   Technical Debt Reviews	378
SEA-02: S. ALIGINMENT WITH ENTERANSE ARCHITECTURE	379
SEA-03.1: DEFENSE-IN-DEPTH (DID) ARCHITECTURE   SYSTEM PARTITIONING	379
SEA-03.2: DEFENSE-IN-DEPTH (DID) ARCHITECTURE   APPLICATION PARTITIONING	380
SEA-04: PROCESS ISOLATION	380
SEA-04.1: PROCESS ISOLATION   SECURITY FUNCTION ISOLATION	380
SEA-04.2: PROCESS ISOLATION   HARDWARE SEPARATION	381
SEA-04.3: PROCESS ISOLATION   THREAD SEPARATION	381
SEA-05: INFORMATION IN SHARED RESOURCES	382
SEA-06: PREVENT PROGRAM EXECUTION	382
SEA-07: PREDICTABLE FAILURE ANALYSIS	382
SEA-07.1: PREDICTABLE FAILURE ANALYSIS   TECHNOLOGY LIFECYCLE MANAGEMENT	382
SEA-07.2: Predictable Failure Analysis   Fail Secure	383
SEA-07.3: Predictable Failure Analysis   Fail Safe	383
SEA-08: Non-Persistence	384
SEA-08.1: NON-PERSISTENCE   REFRESH FROM TRUSTED SOURCES	384
SEA-09: INFORMATION OUTPUT FILTERING	384
SEA-09.1: INFORMATION OUTPUT FILTERING   LIMIT PERSONAL DATA (PD) DISSEMINATION	384
SEA-10: MEMORY PROTECTION	385
SEA-11: HONEYPOTS	385
SEA-12: HONEYCLIENTS	385
SEA-13: HETEROGENEITY	386
SEA-13.1: HETEROGENEITY   VIRTUALIZATION TECHNIQUES	386
SEA-14: CONCEALMENT & MISDIRECTION	386
SEA-14.1: CONCEALMENT & MISDIRECTION   RANDOMNESS	386
SEA-14.2: CONCEALMENT & MISDIRECTION CHANGE PROCESSING & STORAGE LOCATIONS	387
SEA-15: DISTRIBUTED PROCESSING & STORAGE	387
SEA-16: NON-MODIFIABLE EXECUTABLE PROGRAMS	387
SEA-17: Secure Log-On Procedures	388
SEA-18: System Use Notification (Logon Banner)	388
SEA-18.1: System Use Notification   Standardized Microsoft Windows Banner	388
SEA-18.2: System Use Notification   Truncated Banner	388
SEA-19: Previous Logon Notification	389
SEA-20: CLOCK SYNCHRONIZATION	389
ECURITY OPERATIONS (OPS) POLICY & STANDARDS	390
OPS-01: OPERATIONS SECURITY	390
OPS-01.1: OPERATIONS SECURITY   STANDARDIZED OPERATING PROCEDURES (SOP)	390
OPS-02: SECURITY CONCEPT OF OPERATIONS (CONOPS)	391
OPS-03: SERVICE DELIVERY (BUSINESS PROCESS SUPPORT)	391
OPS-04: SECURITY OPERATIONS CENTER (SOC)	391
OPS-05: SECURE PRACTICES GUIDELINES	392
ECURITY AWARENESS & TRAINING (SAT) POLICY & STANDARDS	393
SAT-01: Cybersecurity & Data Privacy-Minded Workforce	393
SAT-02: Cybersecurity & Data Privacy Awareness Training	394
SAT-02.1: Cybersecurity & Data Privacy Awareness Training   Simulated Cyber Attack Scenario Training	394
SAT-02.2: Cybersecurity & Data Privacy Awareness Training   Social Engineering & Mining	395
SAT-03: Cybersecurity & Data Privacy Role-Based Training	395
SAT-03.1: Cybersecurity & Data Privacy Training   Practical Exercises	396
SAT-03.2: Cybersecurity & Data Privacy Training   Suspicious Communications & Anomalous System Behavior	397
SAT-03.3: Cybersecurity & Data Privacy Training   Sensitive Information Storage, Handling & Processing	397
SAT-03.4: Cybersecurity & Data Privacy Training   Vendor Security Training	397
	397
·	
SAT-03.5: Cybersecurity & Data Privacy Training   Privileged Users	398
·	398

SAT-03.8: Cybersecurity & Data Privacy Training   Continuing Professional Education (CPE) - DevOps Personnel	39
SAT-04: Cybersecurity & Data Privacy Training Records	39
CHNOLOGY DEVELOPMENT & ACQUISITION (TDA) POLICY & STANDARDS	4
TDA-01: TECHNOLOGY DEVELOPMENT & ACQUISITION	40
TDA-01.1: TECHNOLOGY DEVELOPMENT & ACQUISITION   PRODUCT MANAGEMENT	40
TDA-01.2: TECHNOLOGY DEVELOPMENT & ACQUISITION   INTEGRITY MECHANISMS FOR SOFTWARE/FIRMWARE UPDATES	4(
TDA-01.3: TECHNOLOGY DEVELOPMENT & ACQUISITION   MALWARE TESTING PRIOR TO RELEASE	40
TDA-02: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS	40
TDA-02.1: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS   PORTS, PROTOCOLS & SERVICES IN USE	40
TDA-02.2: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS   INFORMATION ASSURANCE ENABLED PRODUCTS	40
TDA-02.3: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS   DEVELOPMENT METHODS, TECHNIQUES & PROCESSES	40
TDA-02.4: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS   PRE-ESTABLISHED SECURITY CONFIGURATIONS	40
TDA-02.5: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS   THE ESTABLISTIC SECURIT COMPONENTIAL TO A SECURITY REQUIREMENTS   IDENTIFICATION & JUSTIFICATION OF PORTS, PROTOCOLS & SERVICES	40
TDA-02.6: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS   USE OF INSECURE PORTS, PROTOCOLS & SERVICES	40
	40
TDA-02.7: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS   CYBERSECURITY & DATA PRIVACY REPRESENTATIVES FOR PRODUCT CHANGES	4(
TDA-03: Commercial OFF-The-Shelf (COTS) Security Solutions	40 40
TDA-03: COMMERCIAL OFF-THE-SHELF (COTS) SECURITY SOLUTIONS	40 4(
TDA-03.1. COMMERCIAL OFF-THE-SHELF (COTS) SECORITY SOLUTIONS (SUPPLIER DIVERSITY TDA-04: DOCUMENTATION REQUIREMENTS	40 40
	40
TDA-04.1: DOCUMENTATION REQUIREMENTS   FUNCTIONAL PROPERTIES	40
TDA-04.2: DOCUMENTATION REQUIREMENTS   SOFTWARE BILL OF MATERIALS (SBOM) TDA-05: DEVELOPER ARCHITECTURE & DESIGN	40 40
	40 4(
TDA-05.1: DEVELOPER ARCHITECTURE & DESIGN   PHYSICAL DIAGNOSTIC & TEST INTERFACES	40 4(
TDA-05.2: Developer Architecture & Design   Diagnostic & Test Interface Monitoring TDA-06: Secure Coding	40 40
	40 4(
TDA-06.1: Secure Coding   Criticality Analysis TDA-06.2: Secure Coding   Threat Modeling	40 4(
	40 4(
TDA-06.3: Secure Coding   Software Assurance Maturity Model (SAMM) TDA-06.4: Secure Coding   Supporting Toolchain	40
TDA-06.4. Secure Coding   Software Design Review	40
TDA-06.5. Secure Coding   Suri wake Design Review	40 41
	41
TDA-08: SEPARATION OF DEVELOPMENT, TESTING & OPERATIONAL ENVIRONMENTS	
TDA-08.1: Separation of Development, Testing & Operational Environments   Secure Migration Practices TDA-09: Cybersecurity & Data Privacy Testing Throughout Development	4 <u>:</u> 41
	4.
TDA-09.1: CYBERSECURITY & DATA PRIVACY TESTING THROUGHOUT DEVELOPMENT   CONTINUOUS MONITORING PLAN	
TDA-09.2: CYBERSECURITY & DATA PRIVACY TESTING THROUGHOUT DEVELOPMENT   STATIC CODE ANALYSIS	4
TDA-09.3: CYBERSECURITY & DATA PRIVACY TESTING THROUGHOUT DEVELOPMENT   DYNAMIC CODE ANALYSIS	4
TDA-09.4: CYBERSECURITY & DATA PRIVACY TESTING THROUGHOUT DEVELOPMENT   MALFORMED INPUT TESTING	4
TDA-09.5: Cybersecurity & Data Privacy Testing Throughout Development   Application Penetration Testing	4
TDA-09.6: Cybersecurity & Data Privacy Testing Throughout Development   Secure Settings By Default	4
TDA-09.7: CYBERSECURITY & DATA PRIVACY TESTING THROUGHOUT DEVELOPMENT   MANUAL CODE REVIEW	4
TDA-10: USE OF LIVE DATA	41
TDA-10.1: Use of Live Data   Test Data Integrity	4
TDA-11: PRODUCT TAMPERING AND COUNTERFEITING (PTC)	41
TDA-11.1: PRODUCT TAMPERING AND COUNTERFEITING (PTC)   ANTI-COUNTERFEIT TRAINING TDA-11.2: PRODUCT TAMPERING AND COUNTERFEITING (PTC)   COMPONENT DISPOSAL	4
TDA-12: CUSTOMIZED DEVELOPMENT OF CRITICAL COMPONENTS	41
TDA-13: DEVELOPER SCREENING	41
TDA-14: DEVELOPER CONFIGURATION MANAGEMENT	41
TDA-14.1: Developer Configuration Management   Software/Firmware Integrity Verification	4
TDA-14.2: Developer Configuration Management   Hardware Integrity Verification	4
TDA-15: DEVELOPER THREAT ANALYSIS & FLAW REMEDIATION	41
TDA-16: DEVELOPER-PROVIDED TRAINING	41
TDA-17: UNSUPPORTED SYSTEMS	41

	447
TDA-17.1: UNSUPPORTED SYSTEMS   ALTERNATE SOURCES FOR CONTINUED SUPPORT	417
TDA-18: INPUT DATA VALIDATION	417
TDA-19: Error Handling TDA-20: Access to Program Source Code	417 418
TDA-20. ACCESS TO PROGRAM SOURCE CODE TDA-20.1: ACCESS TO PROGRAM SOURCE CODE   SOFTWARE RELEASE INTEGRITY VERIFICATION	418
TDA-20.1. Access to Program Source Code   Software Release Integrity Verification TDA-20.2: Access to Program Source Code   Archiving Software Releases	418 418
TDA-20.2. ACCESS TO PROGRAM SOURCE CODE   ARCHIVING SOFTWARE RELEASES TDA-20.3: ACCESS TO PROGRAM SOURCE CODE   SOFTWARE ESCROW	418 418
	-
THIRD-PARTY MANAGEMENT (TPM) POLICY & STANDARDS TPM-01: THIRD-PARTY MANAGEMENT	<u>419</u> 419
	<b>419</b> 419
TPM-01.1: Third-Party Management   Third-Party Inventories TPM-02: Third-Party Criticality Assessments	419 <b>420</b>
TPM-02: THIRD-PARTY CRITICALITY ASSESSMENTS TPM-03: SUPPLY CHAIN PROTECTION	420
TPM-03.1: Supply Chain Protection   Acquisition Strategies, Tools & Methods	420
TPM-03.2: Supply Chain Protection   Limit Potential Harm	420
TPM-03.2: SUPPLY CHAIN PROTECTION   PROCESSES TO ADDRESS WEAKNESSES OR DEFICIENCIES	421
TPM-03.4: Supply Chain Protection   Adequate Supply	421
TPM-04: Third-Party Services	421 421
TPM-04.1: THIRD-PARTY SERVICES   THIRD-PARTY RISK ASSESSMENTS & APPROVALS	422
TPM-04.2: Third-Party Services   External Connectivity Requirements - Identification of Ports, Protocols &	
Services	423
TPM-04.3: THIRD-PARTY SERVICES   CONFLICT OF INTERESTS	423
TPM-04.4: THIRD-PARTY SERVICES   THIRD-PARTY PROCESSING, STORAGE AND SERVICE LOCATIONS	423
TPM-05: Third-Party Contract Requirements	424
TPM-05.1: THIRD-PARTY CONTRACT REQUIREMENTS   SECURITY COMPROMISE NOTIFICATION AGREEMENTS	424
TPM-05.2: Third-Party Contract Requirements   Contract Flow-Down Requirements	424
TPM-05.3: Third-Party Contract Requirements   Third-Party Authentication Practices	425
TPM-05.4: Third-Party Contract Requirements   Responsible, Accountable, Supportive, Consulted & Informed	
(RASCI) MATRIX	425
TPM-05.5: Third-Party Contract Requirements   Third-Party Scope Review	425
TPM-05.6: Third-Party Contract Requirements   First-Party Declaration (1PD)	426
TPM-05.7: Third-Party Contract Requirements / Break Clauses	426
TPM-06: Third-Party Personnel Security	427
TPM-07: MONITORING FOR THIRD-PARTY INFORMATION DISCLOSURE	427
TPM-08: Review of Third-Party Serv <mark>ice</mark> s	427
TPM-09: Third-Party Deficiency Remediation	428
TPM-10: MANAGING CHAN <mark>GE</mark> S TO THIRD-PARTY SERVICES	428
TPM-11: THIRD-PARTY INCIDENT RESPONSE & RECOVERY CAPABILITIES	428
THREAT MANAGEMENT (THR) POLICY & STANDARDS	429
THR-01: THREAT AWARENESS PROGRAM	429
THR-02: INDICATORS OF EXPOSU <mark>RE (IOE)</mark>	429
TH <mark>R-03</mark> : Threat Intelligence Fe <mark>eds</mark>	429
THR-04: Insider Threat Program	430
THR-05: Insider Threat Awareness	430
THR-06: VULNERABILITY DISCLOSURE PROGRAM (VDP)	431
THR-07: THREAT HUNTING	431
THR-08: TAINTING	431
THR-09: THREAT CATALOG	432
THR-10: THREAT ANALYSIS	432
VULNERABILITY & PATCH MANAGEMENT (VPM) POLICY & STANDARDS	433
VPM-01: VULNERABILITY & PATCH MANAGEMENT PROGRAM	433
VPM-01.1: VULNERABILITY & PATCH MANAGEMENT PROGRAM   ATTACK SURFACE SCOPE	433
VPM-02: VULNERABILITY REMEDIATION PROCESS	434
VPM-03: VULNERABILITY RANKING	434
VPM-03.1: VULNERABILITY RANKING / VULNERABILITY EXPLOITATION ANALYSIS VPM-04: CONTINUOUS VULNERABILITY REMEDIATION ACTIVITIES	434 435
	<b>435</b>
VPM-04.1: Continuous Vulnerability Remediation Activities   Stable Versions VPM-04.2: Continuous Vulnerability Remediation Activities   Flaw Remediation with Personal Data (PD)	435 435
04.2. CONTINUEDS VOLIMENDIENT REIVIEDIATION ACTIVITES FTERW REIVIEDIATION WITH FERSONAL DATA (FD)	-+55

VPM-05: Software & Firmware Patching	436
VPM-05.1: Software & Firmware Patching   Centralized Management of Flaw Remediation Processes	438
VPM-05.2: Software & Firmware Patching   Automated Remediation Status	439
VPM-05.3: Software & Firmware Patching   Time To Remediate/Benchmarks For Corrective Action	439
VPM-05.4: Software & Firmware Patching   Automated Software & Firmware Updates	439
VPM-05.5: Software & Firmware Patching   Removal of Previous Versions	439
VPM-06: VULNERABILITY SCANNING	440
VPM-06.1: VULNERABILITY SCANNING   UPDATE TOOL CAPABILITY	441
VPM-06.2: VULNERABILITY SCANNING   BREADTH/DEPTH OF COVERAGE	441
VPM-06.3: VULNERABILITY SCANNING   PRIVILEGED ACCESS	441
VPM-06.4: VULNERABILITY SCANNING   TREND ANALYSIS	441
VPM-06.5: VULNERABILITY SCANNING   REVIEW HISTORICAL EVENT LOGS	442
VPM-06.6: VULNERABILITY SCANNING   EXTERNAL VULNERABILITY ASSESSMENT SCANS	442
VPM-06.7: VULNERABILITY SCANNING   INTERNAL VULNERABILITY ASSESSMENT SCANS	442
VPM-06.8: VULNERABILITY SCANNING   ACCEPTABLE DISCOVERABLE INFORMATION	442
VPM-06.9: VULNERABILITY SCANNING   CORRELATE SCANNING INFORMATION	443
VPM-07: PENETRATION TESTING	443
VPM-07.1: PENETRATION TESTING   INDEPENDENT PENETRATION AGENT OR TEAM	444
VPM-08: TECHNICAL SURVEILLANCE COUNTERMEASURES SECURITY	444
VPM-09: Reviewing Vulnerability Scanner Usage	444
VPM-10: RED TEAM EXERCISES	445
B SECURITY (WEB) POLICY & STANDARDS	44
WEB-01: WEB SECURITY	446
WEB-01.1: WEB SECURITY   UNAUTHORIZED CODE	446
WEB-02: Use of Demilitarized Zones (DMZs)	447
WEB-03: WEB APPLICATION FIREWALL (WAF)	447
WEB-04: CLIENT-FACING WEB SERVICES	448
WEB-05: COOKIE MANAGEMENT	448
WEB-06: STRONG CUSTOMER AUTHENTICATION (SCA)	448
WEB-07: WEB SECURITY STANDARD	449
WEB-08: WEB APPLICATION FRAMEWORK	449
WEB-09: VALIDATION & SANITIZATION	449
WEB-10: SECURE WEB TRAFFIC	449
WEB-11: OUTPUT ENCODING	449
WEB-12: WEB BROWSER SECURITY	450
WEB-13: WEBSITE CHANGE DETECTION	450
WEB-14: PUBLICLY ACCESSIBLE CONTENT REVIEWS	451
DSSARY: ACRONYMS & DEFINITIONS	45
Acronyms	452
DEFINITIONS	452
Word Index	453
CORD OF CHANGES	45



# **NOTICE – REFERENCED FRAMEWORKS & SUPPORTING PRACTICES**

This document references numerous leading industry frameworks in an effort to provide a data-centric, holistic approach to securely designing, building and maintaining ACME Business Consulting, Inc. ([Company Name])'s systems, applications and services to protect its data, regardless of where it is stored, transmitted or processed. The following external content is a non-exhaustive list of frameworks that either support the implementation of or are referenced by the Digital Security Program (DSP):

- The National Institute of Standards and Technology (NIST): 1
  - NIST AI 100-1: Artificial Intelligence Risk Management Framework (AI RMF 1.0)
  - NIST SP 800-37: Guide for Applying the Risk Management Framework to Federal Information Systems: A Security Life Cycle Approach
  - NIST SP 800-39: Managing Cybersecurity Risk: Organization, Mission and Information System View
  - NIST SP 800-53: Security and Privacy Controls for Federal Information Systems and Organizations
  - NIST SP 800-63B, Digital Identity Guidelines
  - NIST SP 800-64: Security Considerations in Secure Development Life Cycle
  - NIST SP 800-122: Guide to Protecting the Confidentiality of Personal Data (PD)
  - NIST SP 800-160: Systems Security Engineering: Considerations for a Multidisciplinary Approach in the Engineering of Trustworthy Secure Systems
  - NIST SP 800-161: Supply Chain Risk Management Practices for Federal Information Systems and Organizations
  - NIST SP 800-171: Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations
  - NIST IR 7298: Glossary of Key Cybersecurity Terms
  - NIST IR 8179: Criticality Analysis Process Model: Prioritizing Systems and Components [draft]
  - NIST Framework for Improving Critical Cybersecurity (Cybersecurity Framework)
- The International Organization for Standardization (ISO):<sup>2</sup>
  - ISO/IEC 15288: Systems and Software Engineering -- System Life Cycle Processes
  - ISO/IEC 22301: Societal Security Business Continuity Management Systems Requirements
  - ISO/IEC 27002: Information Technology Security Techniques Code of Practice for Cybersecurity Controls
  - ISO/IEC 27018: Information Technology Security Techniques Code of Practice for Protection of Personal Data (PD) in Public Clouds Acting as PD Processors
  - ISO/IEC 27701: Information Technology Security Techniques- Extension to ISO/IEC 27001 and ISO/IEC 27002 for Privacy Information Management – Requirements and Guidelines
- Other influencing frameworks (alphabetical order):
  - Center for Internet Security (CIS) Critical Security Controls (CSC)<sup>3</sup>
  - Cloud Security Alliance Cloud Controls Matrix (CSA CCM)<sup>4</sup>
  - Computer Security Incident Handling Guide<sup>5</sup>
  - Control Objectives for Information and Related Technologies (COBIT)<sup>6</sup>
  - Defense Information Systems Agency (DISA) Secure Technology Implementation Guides (STIGs)<sup>7</sup>
  - Department of Defense Cybersecurity Maturity Model Certification (CMMC)<sup>8</sup>
  - Guide to Integrating Forensic Techniques into Incident Response<sup>9</sup>
  - Open Web Application Security Project (OWASP)<sup>10</sup>
  - Payment Card Industry Data Security Standard (PCI DSS)<sup>11</sup>
  - Privacy by Design (PbD)<sup>12</sup>

<sup>&</sup>lt;sup>1</sup> National Institute of Standards and Technology - <u>https://csrc.nist.gov/publications/sp</u>

<sup>&</sup>lt;sup>2</sup> International Organization for Standardization - <u>https://www.iso.org/home.html</u>

<sup>&</sup>lt;sup>3</sup> Center for Internet Security - <u>https://www.cisecurity.org/</u>

<sup>&</sup>lt;sup>4</sup> Cloud Security Alliance - <u>https://cloudsecurityalliance.org/</u>

<sup>&</sup>lt;sup>5</sup> Computer Security Incident Handling Guide - <u>https://csrc.nist.gov/publications/detail/sp/800-61/rev-2/final</u>

<sup>&</sup>lt;sup>6</sup> COBIT - <u>https://www.isaca.org/resources/cobit</u>

<sup>&</sup>lt;sup>7</sup> DoD Information Security Agency - <u>https://public.cyber.mil/</u>

<sup>&</sup>lt;sup>8</sup> DoD Cybersecurity Maturity Model Certification - <u>https://www.acq.osd.mil/cmmc/index.html</u>

<sup>&</sup>lt;sup>9</sup> Guide to Integrating Forensic Techniques into Incident Response - <u>https://csrc.nist.gov/publications/detail/sp/800-86/final</u>

<sup>&</sup>lt;sup>10</sup> OWASP - <u>https://owasp.org/</u>

<sup>&</sup>lt;sup>11</sup> Payment Card Industry Security Standards Council - <u>https://www.pcisecuritystandards.org/</u>

<sup>&</sup>lt;sup>12</sup> Term and principles coined by Dr. Ann Cavoukian - <u>https://www.ipc.on.ca/wp-content/uploads/resources/7foundationalprinciples.pdf</u>

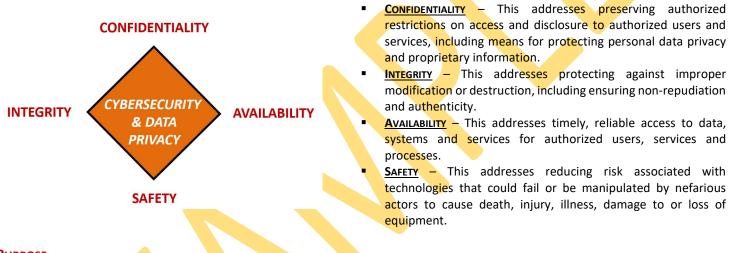
# DIGITAL SECURITY PROGRAM (DSP) OVERVIEW

# INTRODUCTION

The **Digital Security Program (DSP)** provides definitive information on the prescribed measures used to establish and enforce the cybersecurity and data protection program at ACME Business Consulting, Inc. ([Company Name]).

[Company Name] is committed to protecting its employees, partners, clients and [Company Name] from damaging acts that are intentional or unintentional. Effective security is a team effort involving the participation and support of every entity that interacts with [Company Name] data and systems, applications and services. Therefore, it is the responsibility of both [Company Name] personnel and third-parties to be aware of and adhere to [Company Name]'s cybersecurity and data protection requirements.

Protecting [Company Name] data and the systems that collect, process and maintain this data is of critical importance. Commensurate with risk, cybersecurity & data privacy measures must be implemented to guard against unauthorized access to, alteration, disclosure or destruction of data and systems, applications and services. This also includes protection against accidental loss or destruction. The security of systems, applications and services must include controls and safeguards to offset possible threats, as well as controls to ensure confidentiality, integrity, availability and safety:



# PURPOSE

The purpose of the Digital Security Program (DSP) is to prescribe a comprehensive framework for:

- Creating a leading practice-based Information Security Management System (ISMS);
- Protecting the confidentiality, integrity, availability and safety of [Company Name] data and systems;
- Protecting [Company Name], its employees and its clients from illicit use of [Company Name] systems and data;
- Ensuring the effectiveness of security controls over data and systems that support [Company Name]'s operations.
- Recognizing the highly-networked nature of the current computing environment and provide effective company-wide management and oversight of those related cybersecurity risks; and
- Providing for the development, review and maintenance of minimum-security controls required to protect [Company Name]'s data and systems.

The formation of these cybersecurity policies is driven by many factors, with the key factor being a risk. These policies set the ground rules under which [Company Name] operates and safeguards its data and systems to both reduce risk and minimize the effect of potential incidents.

These policies, including their related control objectives, standards, procedures and guidelines, are necessary to support the management of information risks in daily operations. The development of policies provides due care to ensure [Company Name] personnel understand their day-to-day security responsibilities and the threats that could impact the company.

Implementing consistent security controls across the company will help [Company Name] comply with current and future legal obligations to ensure long-term due diligence in protecting the confidentiality, integrity and availability of [Company Name] data.



# SCOPE & APPLICABILITY

These policies, standards and guidelines apply to all [Company Name] data, systems, activities and assets owned, leased, controlled or used by [Company Name], its agents, contractors or other business partners on behalf of [Company Name]. These policies, standards and guidelines apply to all [Company Name] employees, contractors, sub-contractors and their respective facilities supporting [Company Name] business operations, wherever [Company Name] data is stored or processed, including any third-party contracted by [Company Name] to handle, process, transmit, store or dispose of [Company Name] data.

Some standards apply specifically to persons with a specific job function (e.g., a System Administrator); otherwise, all personnel supporting [Company Name] business functions must comply with the standards. [Company Name] departments must use these standards or may create a more restrictive standard, but none that are less restrictive, less comprehensive or less compliant than these standards.

These policies do not supersede any other applicable law or higher-level company directive or existing labor management agreement in effect as of the effective date of this policy.

[Company Name]'s documented roles and responsibilities provides a detailed description of [Company Name] user roles and responsibilities, in regard to cybersecurity-related use obligations.

[Company Name] reserves the right to revoke, change or supplement these policies, standards and guidelines at any time without prior notice. Such changes must be effective immediately upon approval by management unless otherwise stated.

### **POLICY OVERVIEW**

To ensure an acceptable level of cybersecurity risk, [Company Name] must design, implement and maintain a coherent set of policies, standards, procedures and guidelines to manage risks to its data and systems.

The DSP addresses the policies, standards and guidelines. Data/process owners, in conjunction with asset custodians, are responsible for creating, implementing and updated operational procedures to comply with DSP requirements.

[Company Name] personnel must protect and ensure the Confidentiality, Integrity, Availability and Safety (CIAS) of data and systems, regardless of how its data is created, distributed or stored.

- Security controls will be tailored accordingly so that cost-effective controls can be applied commensurate with the risk and sensitivity of the data and system; and
- Security controls must be designed and maintained to ensure compliance with all legal requirements.

# VIOLATIONS OF POLICIES, STANDARDS AND/OR PROCEDURES

Any [Company Name] user found to have violated any policy, standard or procedure may be subject to disciplinary action, up to and including termination of employment. Violators of local, state, Federal and/or international law may be reported to the appropriate law enforcement agency for civil and/or criminal prosecution.

# **EXCEPTION TO STANDARDS**

While every exception to a standard potentially weakens protection mechanisms for [Company Name] systems and underlying data, occasionally exceptions will exist. When requesting an exception, users must submit a business justification for deviation from the standard in question.

# UPDATES TO POLICIES & STANDARDS

Updates to the Digital Security Program (DSP) will be announced to employees via management updates or email announcements. Changes will be noted in the <u>Record of Changes</u> to highlight the pertinent changes from the previous policies, procedures, standards and guidelines.



# KEY TERMINOLOGY

In the realm of cybersecurity terminology, the National Institute of Standards and Technology (NIST) IR 7298, *Glossary of Key Information Security Terms*, is the primary reference document that [Company Name] uses to define common cybersecurity terms. <sup>13</sup> Key terminology to be aware of includes:

<u>Adequate Security</u>. A term describing protective measures that are commensurate with the consequences and probability of loss, misuse or unauthorized access to or modification of information.

<u>Asset</u>: A term describing any data, device, application, service or other component of the environment that supports informationrelated activities. An asset is a resource with economic value that a [Company Name] owns or controls.

<u>Asset Custodian</u>: A term describing a person or entity with the responsibility to assure that the assets are properly maintained, are used for the purposes intended and that information regarding the equipment is properly documented.

<u>Cloud Computing</u>. A term describing a technology infrastructure model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction. It also includes commercial offerings for Software-as-a-Service (SaaS), Infrastructure-as-a-Service (IaaS) and Platform-as-a-Service (PaaS).

<u>Control</u>: A term describing any management, operational or technical method that is used to manage risk. Controls are designed to monitor and measure specific aspects of standards to help [Company Name] accomplish stated goals or objectives. All controls map to standards, but not all standards map to Controls.

<u>Control Objective</u>: A term describing targets or desired conditions to be met that are designed to ensure that policy intent is met. Where applicable, Control Objectives are directly linked to an industry-recognized leading practice to align [Company Name] with accepted due diligence and due care requirements.

<u>Cybersecurity/Information Security</u>: A term that covers the protection of information against unauthorized disclosure, transfer, modification or destruction, whether accidental or intentional. The focus is on the Confidentiality, Integrity, Availability and Safety (CIAS) of data.

<u>Data</u>: A term describing an information resource that is maintained in electronic or digital format. Data may be accessed, searched or retrieved via electronic networks or other electronic data processing technologies. <u>Annex 1: Data Classification & Handling</u> <u>Guidelines</u> provides guidance on data classification and handling restrictions.

<u>Data Controller</u>. A term describing the data privacy stakeholder (or data privacy stakeholders) that determines the purposes and means for processing Personal Data (PD) other than natural persons who use data for personal purposes.

Data Principle. A term describing the natural person to whom the Personal Data (PD) relates.

<u>Data Processor</u>. A term describing the data privacy stakeholder that processes Personal Data (PD) on behalf of and in accordance with the instructions of a PD controller.

<u>Encryption</u>: A term describing the conversion of data from its original form to a form that can only be read by someone that can reverse the encryption process. The purpose of encryption is to prevent unauthorized disclosure of data.

<u>Guidelines</u>: A term describing recommended practices that are based on industry-recognized secure practices. Unlike Standards, Guidelines allow users to apply discretion or leeway in their interpretation, implementation or use.

<u>Information Assurance</u>: A term that covers the protection of information against unauthorized disclosure, transfer, modification or destruction, whether accidental or intentional. The focus is on the Confidentiality, Integrity, Availability and Safety (CIAS) of data.

<u>Information Technology (IT)</u>. A term includes computers, ancillary equipment (including imaging peripherals, input, output and storage devices necessary for security and surveillance), peripheral equipment designed to be controlled by the central processing unit of a computer, software, firmware and similar procedures, services (including support services) and related resources.

<sup>&</sup>lt;sup>13</sup> NIST IR 7298 - <u>https://nvlpubs.nist.gov/nistpubs/ir/2019/NIST.IR.7298r3.pdf</u>

# CYBERSECURITY & DATA PROTECTION PROGRAM STRUCTURE

# **MANAGEMENT DIRECTION FOR CYBERSECURITY & DATA PROTECTION**

The objective is to provide management direction and support for cybersecurity and data protection in accordance with business requirements and relevant laws and regulations.<sup>17</sup>

An Information Security Management System (ISMS) focuses on cybersecurity management and technology-related risks. The governing principle behind [Company Name]'s ISMS is that, as with all management processes, the ISMS must remain effective and efficient in the long-term, adapting to changes in the internal organization and external environment.

In accordance with leading practices, [Company Name]'s ISMS incorporates the typical "Plan-Do-Check-Act" (PDCA) or Deming Cycle, approach:

- Plan: This phase involves designing the ISMS, assessing IT-related risks and selecting appropriate controls.
- Do: This phase involves implementing and operating the appropriate security controls.
- <u>Check</u>: This phase involves reviewing and evaluating the performance (efficiency and effectiveness) of the ISMS.
- <u>Act</u>: This involves making changes, where necessary, to bring the ISMS back to optimal performance.

# POLICIES, CONTROLS, STANDARDS, PROCEDURES & GUIDELINES STRUCTURE

Cybersecurity documentation is comprised of six (6) main parts:

- (1) <u>Policy</u> that establishes management's intent;
- (2) <u>Control Objective</u> that identifies leading practices (linked to controls);
- (3) <u>Standards</u> that provides quantifiable requirements;
- (4) <u>Controls</u> identify desired conditions that are expected to be met;
- (5) <u>Procedures / Control Activities</u> establish how tasks are performed to meet the requirements established in standards and to meet controls; and
- (6) <u>Guidelines</u> are recommended, but not mandatory.

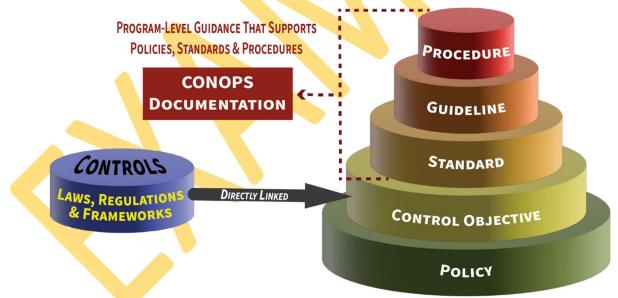


Figure 1. Cybersecurity Documentation Hierarchy

As referenced in this graphic, a Concept of Operations (CONOPS) is a cybersecurity-focused description that addresses life cycle concepts. This can include concepts for sustainment, logistics, maintenance and training. CONOPS augment and support an organization's policies, standards and procedures. Examples of CONOPS documentation includes, but is not limited to:

- Risk management (e.g., Risk Management Program (RMP))
- Vulnerability management (e.g., Vulnerability & Patch Management Program (VPMP))
- Incident response (e.g., Integrated Incident Response Program (IIRP))
- Business Continuity / Disaster Recovery (e.g., Continuity of Operations Plan (COOP))

<sup>17</sup> ISO 27002:2013 5.1



# CYBERSECURITY & DATA PROTECTION (GOV) POLICY & STANDARDS

<u>Management Intent</u>: The purpose of the Cybersecurity & Data Protection (GOV) policy is to govern a documented, risk-based program that supports business objectives while encompassing appropriate cybersecurity & data protection principles that addresses all applicable statutory, regulatory and contractual obligations.

Policy: [Company Name] shall implement and maintain a maturity-based capability to strengthen the security and resilience of its technology infrastructure and data protection mechanisms against both physical and cyber threats. Security control decisions shall take applicable statutory, regulatory and contractual obligations into account, but [Company Name] acknowledges that being compliant does not equate to being secure, so all stakeholders shall protect the confidentiality, integrity, availability and safety of [Company Name]'s technology resources and data, regardless of the geographic location of the data or technology in use. Cybersecurity and data protection controls shall be tailored accordingly so that cost-effective controls can be applied commensurate with the risk and sensitivity of the data and technology in use.

<u>Supporting Documentation</u>: This policy is supported by the following control objectives, standards and guidelines.

# GOV-01: CYBERSECURITY & DATA PROTECTION GOVERNANCE PROGRAM

Control Objective: The organization facilitates the implementation of cybersecurity & data protection governance controls.<sup>18</sup>

<u>Standard</u>: [Company Name]'s cybersecurity & data protection policies and standards must be represented in a single document, the Digital Security Program (DSP) that:

- (a) Must be reviewed and updated at least annually; and
- (b) Disseminated to the appropriate parties to ensure all [Company Name] personnel understand their applicable requirements.

<u>Guidelines</u>: The security plans for individual systems and the organization-wide DSP together provide complete coverage for all cybersecurity & data privacy-related controls employed within the organization.

# GOV-01.1: CYBERSECURITY & DATA PROTECTION GOVERNANCE PROGRAM | STEERING COMMITTEE & PROGRAM OVERSIGHT

<u>Control Objective</u>: The organization coordinates cybersecurity, data privacy and business alignment through a steering committee or advisory board, comprising of key cybersecurity, data privacy and business executives, which meets formally and on a regular basis.<sup>19</sup>

<u>Standard</u>: [Company Name] must establish a cybersecurity & data protection steering committee, or advisory board, comprised of key stakeholders from [Company Name] Lines of Business (LOB) and technology-related executives that:

- (a) Meets formally and on a regular basis; and
- (b) Receives briefings from the following:
  - 1. Chief Information Security Officer (CISO) on matters of cybersecurity;
  - 2. Chief Privacy Officer (CPO) on matters of data privacy ; and
  - 3. Chief Risk Officer (CRO) on matters of enterprise risk.

<u>Guidelines</u>: To achieve proper situational awareness across the organization, key cybersecurity & data privacy leaders must facilitate communication with business stakeholders. This includes translating cybersecurity, data privacy and risk concepts and language into business concepts and language as well as ensuring that business teams consult with cybersecurity & data privacy teams to determine appropriate controls measures when planning new business projects.

The steering committee, or advisory board, can best advise the CISO, CPO and CRO on important matters pertaining to the organization to ensure technology, cybersecurity & data privacy practices support the overall strategy and mission of the organization.

#### GOV-01.2: CYBERSECURITY & DATA PROTECTION GOVERNANCE PROGRAM | STATUS REPORTING TO GOVERNING BODY

<u>Control Objective</u>: The organization provides governance oversight reporting and recommendations to those entrusted to make executive decisions about matters considered material to the organization's cybersecurity & data protection program.

<sup>&</sup>lt;sup>18</sup> ISO 27001-2013: 4.3, 4.4, 5.1, 6.1.1 | ISO 27002-2022: 5.1, 5.4, 5.37 | NIST SP 800-53 R5: PM-1 <sup>19</sup> ISO 27001-2013: 4.3, 6.2, 7.4, 9.3, 10.2



Standard: [Company Name]'s Chief Information Security Officer (CISO) must:

- (a) Operate a repeatable process for reporting to [Company Name]'s board of directors, or similar oversight function; and
- (b) Provide detailed reporting, along with recommendations, to the oversight body; and
- (c) Document feedback received.

# Guidelines: None

# GOV-02: Publishing Cybersecurity & Data Protection Documentation

<u>Control Objective</u>: The organization establishes, maintains and disseminates cybersecurity & data protection policies, standards and procedures.<sup>20</sup>

<u>Standard</u>: The Digital Security Program (DSP) document represents the consolidation of [Company Name]'s cybersecurity & data protection policies and standards.<sup>21</sup> The DSP is endorsed by [Company Name]'s executive management and shall be:

- (a) Disseminated to the appropriate parties to ensure all affected personnel are made aware of and understand their applicable requirements to protect cardholder data;<sup>22</sup>
- (b) Reviewed and updated on no less than an annual basis, or as business/technology changes require modifications to the DSP, to ensure proper coverage for applicable statutory, regulatory and contractual requirements;<sup>23</sup>
- (c) Enforced by [Company Name] personnel through "business as usual" secure practices in the form of Standardized Operating Procedures (SOP) that shall be developed, enforced and maintained at the control operator level; and
- (d) Enforced through [Company Name]'s supply chain in the form of contractual requirements with those third-parties that have the ability to directly or indirectly influence the confidentiality, integrity and/or availability of [Company Name]'s technology assets and/or sensitive/regulated data.

<u>Guidelines</u>: An organization's cybersecurity policies create the roadmap for implementing cybersecurity & data privacy measures to protect its most valuable assets. All personnel should be aware of the sensitivity of data and their responsibilities for protecting it.

It is important to update policies and procedures as needed to address changes in processes, technologies, and business objectives. Without cybersecurity & data privacy policies, individuals will make their own value decisions on the controls that are required within the organization which may result in the organization neither meeting its statutory, regulatory and/or contractual obligations, nor being able to adequately protect its technology and data in a consistent manner.

# GOV-02.1: PUBLISHING CYBERSECURITY & DATA PROTECTION DOCUMENTATION | EXCEPTION MANAGEMENT

<u>Control Objective</u>: The organization prohibits exceptions to standards, except when the exception has been formally assessed for risk impact, approved and recorded.

<u>Standard</u>: For exception management purposes, [Company Name]:

- (a) Prohibits any exception to a policy;
- (b) Permits limited exceptions to a standard, when the following is met:
  - 1. Requests for exception to a standard are formally submitted to [Company Name]'s cybersecurity function;
  - 2. A legitimate business justification for deviation from the standard is provided;
  - 3. One (1), or more, compensating control(s) is/are implemented to reduce the risk associated with the deficient standard;
  - 4. A timeline for remediation is documented in a Plan of Action & Milestones (POA&M), or similar document, to track the deficiency through remediation.

<u>Guidelines</u>: For exception management purposes:

- A policy is defined as a high-level statement of management intent that exists to influence and guide both present and future decision making to be in line with the philosophy, objectives and strategic plans established by [Company Name]s executive leadership team.
- A standard is a mandatory requirement regarding processes, actions and configurations that is designed to satisfy a requirement (e.g., control, law, regulation, etc.).

<sup>&</sup>lt;sup>20</sup> ISO 27001-2013: 4.3, 5.2, 7.5.1, 7.5.2, 7.5.3 | ISO 27002-2022: 5.1, 5.37 | NIST SP 800-53 R5: AC-1, AT-1, AU-1, CA-1, CM-1, CP-1, IA-1, IR-1, MA-1, MP-1, PE-1, PL-

<sup>1,</sup> PM-1, PS-1, PT-1, RA-1, SA-1, SC-1, SI-1, SR-1 | NIST CSF: ID.GV-1 | NIST SP 800-171A: 3.4.9[a], 3.9.2[a]

<sup>&</sup>lt;sup>21</sup> NIST SP 800-171A R3 IPD: A.03.15.01.a[01]

<sup>&</sup>lt;sup>22</sup> NIST SP 800-171A R3 IPD: A.03.15.01.a[02]

<sup>&</sup>lt;sup>23</sup> NIST SP 800-171A R3 IPD: A.03.15.01.b[01], A.03.15.01.b[02]

# CHANGE MANAGEMENT (CHG) POLICY & STANDARDS

<u>Management Intent</u>: The purpose of the Change Management (CHG) policy is for both technology and business leadership to proactively manage change. Without properly documented and implemented change controls, security features could be inadvertently or deliberately omitted or rendered inoperable, processing irregularities could occur or malicious code could be introduced. This includes the assessment, authorization and monitoring of technical changes across the enterprise.

<u>Policy</u>: [Company Name] shall implement and maintain appropriate change management practices to reduce the risk associated with unauthorized or improper change. [Company Name] requires active stakeholder involvement to ensure changes are appropriately tested, validated and documented before implementing any change on a production network.

<u>Supporting Documentation</u>: This policy is supported by the following control objectives, standards and guidelines.

# CHG-01: CHANGE MANAGEMENT PROGRAM

Control Objective: The organization facilitates the implementation of change management controls.<sup>119</sup>

<u>Standard</u>: [Company Name]'s Change Management Program requires data/process owners and asset custodians to test, validate and document changes to systems before implementing the changes on the production network. Changes for any production system, application and/or service must:

- (a) Be:
- 1. Reviewed by an individual with the appropriate authority and knowledge to understand the impact of the change;<sup>120</sup>
- 2. Approved by a [Company Name] employee with the appropriate authority and knowledge to understand the impact of the change;<sup>121</sup> and
- 3. Approved by [Company Name]'s Change Control Board (CCB);
- (b) Sufficiently document the following criteria to enable independent review:
  - 1. Reason for, and description of, the change;
    - 2. Documentation of security impact;
    - 3. Documented change approval by authorized parties;
    - 4. Functionality testing to verify the change:
      - i. Did not adversely impact the security of the network; and
      - ii. Performs as expected;
    - 5. For bespoke and custom software changes, all updates are tested for compliance with applicable statutory, regulatory and contractual obligations; and
    - 6. Procedures to address failures and return to a secure state;
- (c) Ensure all applicable statutory, regulatory and contractual requirements are confirmed to be in place on all new or changed systems and networks; and
- (d) As applicable, update affected documentation to include the changes to prevent inconsistencies between network documentation and the actual configuration.

<u>Guidelines</u>: Change management processes are initiated when deficiencies in the design or operating effectiveness of controls are identified during system operation and are monitored to meet the entity's commitments and system requirements as they relate to security, availability, processing integrity, confidentiality or data privacy or any combination thereof.

Due to the constantly changing state of pre- production environments, they are often less secure than the production environment. Organizations must clearly understand which environments are test environments or development environments and how these environments interact on the level of networks and applications.

Pre-production environments include development, testing, User Acceptance Testing (UAT), etc. Even where production infrastructure is used to facilitate testing or development, production environments still need to be separated (logically or physically) from pre- production functionality such that vulnerabilities introduced as a result of pre-production activities do not adversely affect production systems.

<sup>&</sup>lt;sup>119</sup> ISO 27002-2022: 8.19, 8.32 | NIST SP 800-53 R5: CM-3 | NIST SP 800-171 R2: 3.4.3 | NIST CSF: PR.IP-3

<sup>&</sup>lt;sup>120</sup> NIST SP 800-171A R3 IPD: A.03.04.03.b[01]

<sup>&</sup>lt;sup>121</sup> NIST SP 800-171A R3 IPD: A.03.04.03.b[02]

# CHG-02: CONFIGURATION CHANGE CONTROL

Control Objective: The organization governs the technical configuration change control processes.<sup>122</sup>

<u>Standard</u>: Data/process owners and asset custodians must follow [Company Name]'s change control processes and procedures for all changes to system components:

- (a) Utilize separate environments for development/testing/staging and production;
- (b) Utilize a separation of duties between development/testing/staging and production environments;
- (c) Prohibit the use of production data (e.g., live data) for testing or development;
- (d) Remove test data and accounts before production systems become active/goes into production; and
- (e) Develop change control procedures for the implementation of security patches and software modifications, which includes, but is not limited to the following:
  - 1. Documentation of impact;
  - 2. Documented change approval by authorized parties; and
  - 3. Functionality testing to verify that the change does not adversely impact the security of the system;
- (f) Back-out procedures; and
- (g) Upon completion of significant change, all relevant compliance requirements must be implemented on all new or changed systems and networks and documentation updated as applicable.

<u>Guidelines</u>: Configuration change controls for organizational systems involve the systematic proposal, justification, implementation, testing, review and disposition of changes to the systems, including system upgrades and modifications. Configuration change control includes changes to baseline configurations for components and configuration items of systems, changes to configuration settings for information technology products (e.g., operating systems, applications, firewalls, routers and mobile devices), unscheduled/unauthorized changes and changes to remediate vulnerabilities.

# CHG-02.1: CONFIGURATION CHANGE CONTROL | PROHIBITION OF CHANGES

Control Objective: The organization prohibits unauthorized changes, unless organization-approved change requests are received.<sup>123</sup>

<u>Standard</u>: To prohibit unauthorized changes, [Company Name] requires:

- (a) Data/process owners and asset custodians to:
  - 1. Prohibit implementing a change without first obtaining pre-approval from [Company Name]'s Change Control Board (CCB); and
  - 2. Notify all affected parties prior to the implementation of the change; and
  - (b) Where technically feasible, [Company Name] must utilize automated mechanisms to:
    - 1. Document proposed change(s);
    - 2. Notify affected stakeholders of proposed change(s);
    - 3. Request change approval;
    - 4. Highlight proposed changes that have not been approved or disapproved within an organization-defined time period;
    - 5. Prohibit change(s) until designated approval(s) is/are received;
    - 6. Document all changes; and
    - 7. Notify affected stakeholders when approved change(s) are completed.

<u>Guidelines</u>: The scope of affected parties must include any clients, partners or vendors that would be affected by the change.

# CHG-02.2: CONFIGURATION CHANGE CONTROL | TEST, VALIDATE & DOCUMENT CHANGES

<u>Control Objective</u>: The organization tests and documents proposed changes in a non-production environment before changes are implemented in a production environment.<sup>124</sup>

Standard: Data/process owners and asset custodians must:

(a) Where technically feasible, test and validate configuration changes in a test environment, prior to deploying the change in the production environment;<sup>125</sup> and

<sup>&</sup>lt;sup>122</sup> ISO 27002-2022: 8.19, 8.32 | NIST SP 800-53 R5: CM-3, SA-8(31) | NIST CSF: PR.IP-3 | NIST SP 800-171 R2: 3.4.3 | NIST SP 800-171A: 3.4.3[a], 3.4.3[b], 3.4.3[c], 3.4.3[d]

<sup>123</sup> NIST SP 800-53 R5: CM-3(1)

<sup>&</sup>lt;sup>124</sup> ISO 27002-2022: 8.19, 8.32 | NIST SP 800-53 R5: CM-3(2), CM-3(7), SA-8(31) | NIST SP 800-171 R2: NFO - CM-3(2) <sup>125</sup> NIST SP 800-171A R3 IPD: A.03.04.03.c[02]

INTERNAL USE

# DATA CLASSIFICATION & HANDLING (DCH) POLICY & STANDARDS

<u>Management Intent</u>: The purpose of the Data Classification & Handling (DCH) policy is to ensure that technology assets are properly classified and measures are implemented to protect [Company Name]'s data from unauthorized disclosure, regardless if it is being transmitted or stored. Applicable statutory, regulatory and contractual compliance obligations dictate the safeguards that must be in place to protect the confidentiality, integrity and availability of data.

<u>Policy</u>: In accordance with all applicable statutory, regulatory and contractual obligations for cybersecurity and data protection, [Company Name] shall implement and maintain appropriate administrative, technical and physical security measures to protect the confidentiality, integrity and availability of its data, regardless if the data is in hardcopy or digital form. [Company Name] shall utilize methods of sanitizing or destroying digital and physical media so that data recovery is technically infeasible.

<u>Supporting Documentation</u>: This policy is supported by the following control objectives, standards and guidelines.

# **DCH-01: DATA PROTECTION**

Control Objective: The organization facilitates the implementation of data protection controls. <sup>344</sup>

Standard: [Company Name]'s Chief Information Security Officer (CISO), or the CISO's designated representative(s), must develop and implement:

- (a) Controls to protect [Company Name] data wherever it is stored, transmitted and processed, in accordance with all applicable statutory, regulatory and contractual compliance obligations;
- (b) Retention periods for both sensitive and non-sensitive/regulated data; and
- (c) Processes to:
  - 1. Dispose of, destroy, erase and/or anonymizes data once it is no longer necessary for business purposes;
  - 2. Maintain strict control over the storage and accessibility of media; and
  - 3. Maintain inventories of sensitive/regulated data under [Company Name]'s control.

<u>Guidelines</u>: The objective is to ensure that information receives an appropriate level of protection in accordance with its importance to the organization. Without careful inventory methods and storage controls, stolen or missing media could go unnoticed for an indefinite amount of time.

# DCH-01.1: DATA PROTECTION | DATA STEWARDSHIP

Control Objective: The organization ensures data stewardship is assigned, documented and communicated.<sup>345</sup>

<u>Standard</u>: [Company Name]'s Chief Information Security Officer (CISO), Chief Privacy Officer (CPO), Data Protection Officer (DPO), or their designated representative(s), must:

- (a) Develop and implement data stewardship practices that educate and train stakeholders how to:
  - 1. Physically secure all media with sensitive/regulated data;
  - 2. Maintain strict control over the storage and accessibility of media with sensitive/regulated data; and
  - 3. Maintain strict control over the internal or external distribution of any kind of media with sensitive/regulated data, including the following:
    - i. Classify media so the sensitivity of the data can be determined; and
    - ii. Send the media by secured courier or another delivery method that can be accurately tracked; and

(b) Require data/process owners and asset custodians to re-assess the following criteria, as it pertains to data stewardship on the systems, applications and services under their control:

- 1. Data classification requirements;
- 2. System criticality;
- 3. Geographical storage and/or processing of the data; and
- 4. Applicable statutory, regulatory and contractual requirements.

 <sup>&</sup>lt;sup>344</sup> ISO 27002-2022: 5.9, 5.10, 5.12, 5.33, 7.1, 8.12 | NIST SP 800-53 R5: MP-1 | NIST CSF: PR.DS-5 | NIST SP 800-171 R2: 3.8.1, NFO - MP-1 | NIST SP 800-171A:
 3.8.1[a], 3.8.1[b], 3.8.1[c], 3.8.1[d]
 <sup>345</sup> NIST SP 800-53 R5: SA-4(12)

<u>Guidelines</u>: See <u>Annex 4</u>: <u>Baseline Security Categorization Guidelines</u> for Safety & Criticality (SC) categorization. A complete inventory of mission-critical (SC1) and business-critical (SC2) assets located at all sites and/or geographical locations and their usage over time should be maintained and updated regularly and assigned ownership by defined roles and responsibilities.

# DCH-01.2: DATA PROTECTION | SENSITIVE/REGULATED DATA PROTECTION

<u>Control Objective</u>: The organization protects sensitive/regulated data wherever it is stored.

<u>Standard</u>: Data/process owners and asset custodians must protect sensitive/regulated data from being stored in cleartext, where it is human-readable in storage media by:

- (a) Configure systems, applications and services to render sensitive/regulated data unreadable anywhere it is stored by using any of the following approaches:
  - 1. One-way hashes based on strong cryptography of the sensitive/regulated data;
  - 2. Truncation;;
  - 3. Index tokens; and
  - 4. Strong cryptography;
- (b) Review the following data sources to ensure that sensitive/regulated data is not retained in a human-readable format:
  - 1. Incoming transaction data;
  - 2. All logs (e.g., transaction, history, debugging, error);
  - 3. History files;
  - 4. Trace files;
  - 5. Database schemas;
  - 6. Contents of databases, and on-premises and cloud data stores; and
  - 7. Any existing memory/crash dump files;
- (c) Rendering sensitive/regulated data unreadable anywhere it is stored; and
- (d) Not tying user accounts to decryption keys.

<u>Guidelines</u>: The removal of cleartext sensitive/regulated data is a defense in depth control designed to protect the data if an unauthorized individual gains access to stored data by taking advantage of a vulnerability or misconfiguration of an entity's primary access control.

Sources for information about index tokens include:

- PCI SSC's Tokenization Product Security Guidelines
- ANSI X9.119-2-2017: Retail Financial Services
- Requirements For Protection Of Sensitive Payment Card Data Part 2: Implementing Post-Authorization Tokenization Systems

# DCH-01.3: DATA PROTECTION | SENSITIVE / REGULATED MEDIA RECORDS

<u>Control Objective</u>: The organization ensures media records for sensitive/regulated data contain sufficient information to determine the potential impact in the event of a data loss incident.

<u>Standard</u>: Where technically feasible, [Company Name]'s Chief Information Security Officer (CISO), or the CISO's designated representative(s), must develop and implement a metadata tracking and reporting capability for sensitive/regulated data that:

- (a) Categorizes media records according to defined data classification categories;
- (b) Identifies assets that contain sensitive/regulated data;
- (c) Configures system event logging to provide appropriate situational awareness on activities associated with logical access to assets that contain sensitive/regulated data; and
- (d) Provides the ability to determine the potential impact in the event of a data loss incident for identified sensitive/regulated data.

#### Guidelines: None

# DCH-01.4: DATA PROTECTION | DEFINING ACCESS AUTHORIZATIONS FOR SENSITIVE / REGULATED DATA

<u>Control Objective</u>: The organization explicitly defines authorizations for specific individuals and/or roles for logical and /or physical access to sensitive/regulated data.

<u>Standard</u>: Data/process owners must:

(a) Define specific roles for individuals and/or groups, as it pertains to business practices for interacting with sensitive/regulated data;

# TECHNOLOGY DEVELOPMENT & ACQUISITION (TDA) POLICY & STANDARDS

<u>Management Intent</u>: The purpose of the Technology Development & Acquisition (TDA) policy is to ensure technologies are developed and/or acquired according to a Secure Software Development Framework (SSDF) to reduce the potential impact of undetected or unaddressed vulnerabilities and design flaws.

<u>Policy</u>: [Company Name] shall implement and maintain secure development practices to strengthen the security and resilience of its developed technologies, regardless if the technology is internally-developed or acquired from a third-party provider. To reduce the potential impact of undetected or unaddressed vulnerabilities and design weaknesses, technologies shall be developed according to a Secure Software Development Framework (SSDF) and tested throughout development to ensure secure development practices are implemented.

<u>Supporting Documentation</u>: This policy is supported by the following control objectives, standards and guidelines.

# **TDA-01: TECHNOLOGY DEVELOPMENT & ACQUISITION**

<u>Control Objective</u>: The organization facilitates the implementation of tailored development and acquisition strategies, contract tools and procurement methods to meet unique business needs.<sup>1163</sup>

<u>Standard</u>: [Company Name]'s Chief Information Security Officer (CISO), or the CISO's designated representative(s), must develop and implement processes to govern a formal Technical Development & Acquisition (TDA) program that:

- (a) Ensures acquisition strategies, contract tools and procurement methods:
  - 1. Identify supply chain risks;<sup>1164</sup>
  - 2. Protect against supply chain risks;<sup>1165</sup> and
  - 3. Mitigate supply chain risks;<sup>1166</sup>
- (b) Incorporates cybersecurity & data privacy principles into the asset's lifecycle; and
- (c) Tailors acquisitions, contract tools and procurement methods to ensure compliance with applicable statutory, regulatory and contractual obligations.

<u>Guidelines</u>: The acquisition process provides an important vehicle for protecting the supply chain. There are many useful tools and techniques available, including obscuring the end use of a system or system component, using blind or filtered buys, requiring tamper-evident packaging, or using trusted or controlled distribution. The results from a supply chain risk assessment can inform the strategies, tools, and methods that are most applicable to the situation. Tools and techniques may provide protections against unauthorized production, theft, tampering, the insertion of counterfeits, the insertion of malicious software or backdoors, and poor development practices throughout the system life cycle.

Organizations also consider providing incentives for suppliers to implement controls, promote transparency in their processes and security practices, provide contract language that addresses the prohibition of tainted or counterfeit components, and restrict purchases from untrustworthy suppliers. Organizations consider providing training, education, and awareness programs for personnel regarding supply chain risk, available mitigation strategies, and when the programs should be employed. Methods for reviewing and protecting development plans, documentation, and evidence are commensurate with the security requirements of the organization. Contracts may specify documentation protection requirements.

# TDA-01.1: TECHNOLOGY DEVELOPMENT & ACQUISITION | PRODUCT MANAGEMENT

<u>Control Objective</u>: The organization designs and implements product management processes to update products, including systems, software and services, to improve functionality and correct security deficiencies.<sup>1167</sup>

Standard: [Company Name] requires that products and/or services are proactively managed to:

- (a) Maintain appropriate documentation on how [Company Name] provides validated software updates/patches throughout the product life cycle to assure its continued security;
- (b) Allow for the application of security updates to the products software and firmware:
  - 1. Processes must support reverting to a previously-installed version if the update fails; and

<sup>1164</sup> NIST SP 800-171A R3 IPD: A.03.17.02[01]

1167 NIST SP 800-53 R5: SA-23

<sup>&</sup>lt;sup>1163</sup> ISO 27002-2022: 8.25, 8.30 | NIST SP 800-53 R5: PL-1, SA-1, SA-4, SA-23 | NIST CSF: PR.DS-7 | NIST SP 800-171 R2: NFO - SA-4

<sup>&</sup>lt;sup>1165</sup> NIST SP 800-171A R3 IPD: A.03.17.02[02]

<sup>&</sup>lt;sup>1166</sup> NIST SP 800-171A R3 IPD: A.03.17.02[03]

- 2. The roll-back would revert to the most recent installed version.
- (c) Verify the authenticity and integrity of any software update through cryptographic means, prior to the installation of the update:
  - 1. Product updates must be possible in an offline environment; and
  - 2. Offline updates must also support the same authenticity and integrity validation process.
- (d) Maintain an event log that, at a minimum, contains the following events:
  - 1. Successful and unsuccessful login attempts;
  - 2. Change of user authentication credentials;
  - 3. Changes in the list of valid user accounts (e.g., addition, modification or deletion of accounts); and
  - 4. Successful and unsuccessful software updates.
- (e) Prevent tampering of security-related event logs through transmitting logs to an external data storage location or security store the logs in non-volatile memory that prevents non-privileged users from deleting, moving or altering log file contents; and
- (f) Enable secure decommissioning of the product by allowing users to securely purge or erase (e.g., zeroization) all userdefined data that includes:
  - 1. Configuration data; and
  - 2. Sensitive data.

<u>Guidelines</u>: It is often necessary for a system or system component that supports mission-essential services or functions to be enhanced to maximize the trustworthiness of the resource. Sometimes this enhancement is done at the design level. In other instances, it is done post-design, either through modifications of the system in question or by augmenting the system with additional components. For example, supplemental authentication or non-repudiation functions may be added to the system to enhance the identity of critical resources to other resources that depend on the organization-defined resources.

# TDA-01.2: TECHNOLOGY DEVELOPMENT & ACQUISITION | INTEGRITY MECHANISMS FOR SOFTWARE/FIRMWARE UPDATES

<u>Control Objective</u>: The organization utilizes integrity validation mechanisms for security updates.

<u>Standard</u>: [Company Name] requires that products incorporate integrity mechanisms for software/firmware updates that include:

- (a) Using a [Company Name] code signing digital certificate to sign the software/firmware components; and
- (b) Generating and publishing a Keyed-Hash Message Authentication Code (HMAC) value to provide assurance of the integrity of the following components:
  - 1. Binaries;
  - 2. Executables; and
  - 3. Libraries.

#### Guidelines: None

# TDA-01.3: TECHNOLOGY DEVELOPMENT & ACQUISITION | MALWARE TESTING PRIOR TO RELEASE

<u>Control Objective</u>: The organization utilizes at least one (1) malware detection tool to identify if any known malware exists in the final binaries of the product or security update.

<u>Standard:</u> [Company Name] requires that products and updates incorporate malware testing by at least two (2) different malware detection tools in order to identify the existence of any known malware in the final deliverable:

- (a) The malware tool must be applicable to for operating system that the software will be used on.
- (b) All binary code and bytecode must be inspected for malware by automated tools.

Guidelines: None

# TDA-02: MINIMUM VIABLE PRODUCT (MVP) SECURITY REQUIREMENTS

<u>Control Objective</u>: The organization ensures risk-based technical and functional specifications are established to define a Minimum Viable Product (MVP).<sup>1168</sup>

<u>Standard</u>: Data/process owners and asset custodians must:

(a) Take cybersecurity & data privacy requirements into account when purchasing systems or outsourcing solutions; and

<sup>&</sup>lt;sup>1168</sup> ISO 27002-2022: 8.25, 8.29, 8.30 | NIST SP 800-53 R5: SA-4 | NIST SP 800-171 R2: NFO - SA-4

# - SUPPLEMENTAL DOCUMENTATION -

# DIGITAL SECURITY PROGRAM (DSP)

# **ANNEXES, TEMPLATES & REFERENCES**

Version 2022.3





# ANNEXES

Annexes	3
ANNEX 1: DATA CLASSIFICATION & HANDLING GUIDELINES	3
ANNEX 2: DATA CLASSIFICATION EXAMPLES	10
ANNEX 3: DATA RETENTION PERIODS	12
ANNEX 4: BASELINE SECURITY CATEGORIZATION GUIDELINES	14
ANNEX 5: RULES OF BEHAVIOR (ACCEPTABLE & UNACCEPTABLE USE)	16
ANNEX 6: GUIDELINES FOR PERSONAL USE OF ORGANIZATIONAL IT RESOURCES	18
Annex 7: Risk Management Framework (RMF)	19
ANNEX 8: SYSTEM HARDENING	22
ANNEX 9: SAFETY CONSIDERATIONS WITH EMBEDDED TECHNOLOGY	24
ANNEX 10: INDICATORS OF COMPROMISE (IOC)	25
TEMPLATES	28
TEMPLATE 1: MANAGEMENT DIRECTIVE (POLICY AUTHORIZATION)	28
TEMPLATE 2: USER ACKNOWLEDGEMENT FORM	29
TEMPLATE 3: USER EQUIPMENT RECEIPT OF ISSUE	30
TEMPLATE 4: SERVICE PROVIDER NON-DISCLOSURE AGREEMENT (NDA)	31
TEMPLATE 5: INCIDENT RESPONSE PLAN (IRP)	32
TEMPLATE 6: INCIDENT RESPONSE FORM	43
TEMPLATE 7: APPOINTMENT ORDERS (INFORMATION SECURITY OFFICER)	44
TEMPLATE 8: PRIVILEGED USER ACCOUNT REQUEST FORM	45
TEMPLATE 9: CHANGE MANAGEMENT REQUEST FORM	46
TEMPLATE 10: CHANGE CONTROL BOARD (CCB) MEETING MINUTES	48
TEMPLATE 11: PLAN OF ACTION & MILESTONES (POA&M) / RISK REGISTER	49
TEMPLATE 12: PORTS, PROTOCOLS & SERVICES (PPS)	50
TEMPLATE 13: BUSINESS IMPACT ANALYSIS (BIA)	51
TEMPLATE 14: DISASTER RECOVERY PLAN (DRP) & BUSINESS CONTINUITY PLAN (BCP)	53
TEMPLATE 15: PRIVACY IMPACT ASSESSMENT (PIA)	57
REFERENCES	59
REFERENCE 1: DSP EXCEPTION REQU <mark>EST PROCESS</mark>	59
REFERENCE 2: ELECTRONIC DISCOVERY (EDISCOVERY) GUIDELINES	60
REFERENCE 3: TYPES OF SECURITY CONTROLS	61
REFERENCE 4: INFORMATION SECURITY MANAGEMENT SYSTEM (ISMS)	62



#### **ANNEX 1: DATA CLASSIFICATION & HANDLING GUIDELINES**

#### DATA CLASSIFICATION

Information assets are assigned a sensitivity level based on the appropriate audience for the information. If the information has been previously classified by regulatory, legal, contractual, or company directive, then that classification will take precedence. The sensitivity level then guides the selection of protective measures to secure the information. All data are to be assigned one of the following seven (7) sensitivity levels:



Classification		Data Sensitivity Description				
Controlled Unclassified Information (CUI) - Restricted	Definition	CUI-Restricted information is U.S. Government regulated data that is highly-sensitive business information and the level of protection is dictated externally by both NIST SP 800-171 and Cybersecurity Maturity Model Certification (CMMC) requirements. CUI-Restricted information must be limited to only authorized employees, contractors and business partners with a specific business need.				
	Potential Impact of Loss	<ul> <li>SIGNIFICANT DAMAGE would occur if CUI-Restricted information were to become available to unauthorized parties either internal or external to ACME.</li> <li>Impact could include negatively affecting ACME's competitive position, violating statutory, regulatory and/or contractual requirements and damaging the company's reputation.</li> </ul>				
Sensitive Personal Data (sPD) Restricted	Definition	Sensitive Personal Data (sPD) is a subset of Personal Data (PD) that is highly-sensitive information about individuals (e.g., consumers, clients and/or employees) and the level of protection is dictated externally by statutory, regulatory and/or contractual requirements. sPD Restricted information must be limited to what is authorized in the Privacy Notice for how and where the sPD is authorized to be stored, processed and/or transmitted.				
	Potential Impact of Loss	<ul> <li><u>SIGNIFICANT DAMAGE</u> would occur if sPD Restricted information were to become available to unauthorized parties either internal or external to ACME.</li> <li>Impact could include negatively affecting ACME's competitive position, violating statutory, regulatory and/or contractual requirements, damaging the company's reputation and posing a risk to identified individuals (e.g., identity theft, stalking, harassment, etc.).</li> </ul>				



Personal Data (PD) Restricted	Definition	Personal Data (PD) Restricted that is information that can identify an individual (e.g., consumers, clients and/or employees) and the level of protection is dictated externally by statutory, regulatory and/or contractual requirements. The difference between sPD Restricted and PD Restricted is that PD Restricted information is publicly-available information (e.g., social media, news, court filings, etc.). PD Restricted information must be limited to what is authorized in the Privacy Notice for how and where the PD Restricted is authorized to be stored, processed and/or transmitted, unless it is publicly-available information.
	Potential Impact of Loss	<ul> <li>MODERATE DAMAGE would occur if PD Restricted information were to become available to unauthorized parties either internal or external to ACME.</li> <li>Impact could include negatively affecting ACME's competitive position, violating statutory, regulatory and/or contractual requirements and damaging the company's reputation.</li> </ul>
Restricted	Definition	Restricted information is highly-valuable, highly-sensitive business information and the level of protection is generally dictated externally by statutory, regulatory and/or contractual requirements. Restricted information must be limited to only authorized employees, contractors and business partners with a specific business need.
	Potential Impact of Loss	<ul> <li><u>SIGNIFICANT DAMAGE</u> would occur if Restricted information were to become available to unauthorized parties either internal or external to ACME.</li> <li>Impact could include negatively affecting ACME's competitive position, violating regulatory requirements, damaging the company's reputation, violating contractual requirements and posing an identity theft risk.</li> </ul>
Confidential	Definition	Confidential information is highly-valuable, sensitive business information and the level of protection is dictated internally by ACME.
	Potential Impact of Loss	<ul> <li>MODERATE DAMAGE would occur if Confidential information were to become available to unauthorized parties either internal or external to ACME.</li> <li>Impact could include negatively affecting ACME's competitive position, damaging the company's reputation and violating contractual requirements.</li> </ul>
Internal Use	Definition	Internal Use information is information originated or owned by ACME or entrusted to it by others. Internal Use information may be shared with authorized employees, contractors and business partners who have a business need, but may not be released to the general public, due to the negative impact it might have on the company's business interests.
	Potential Impact of Loss	<ul> <li>MINIMAL or NO DAMAGE would occur if Internal Use information were to become available to unauthorized parties either internal or external to ACME.</li> <li>Impact could include damaging the company's reputation and violating contractual requirements.</li> </ul>
Public	Definition	Public information is information that has been approved for release to the general public and is freely shareable both internally and externally.
	Potential Impact of Loss	<ul> <li>NO DAMAGE would occur if Public information were to become available to parties either internal or external to ACME.</li> <li>Impact would not be damaging or a risk to business operations.</li> </ul>

# LABELING

Labeling is the practice of marking a system or document with its appropriate sensitivity level so that others know how to appropriately handle the information. There are several methods for labeling information assets.

- Printed. Information that can be printed (e.g., spreadsheets, files, reports, drawings, or handouts) should contain one of the following confidentiality symbols in the document footer on every printed page (see below), or simply the words if the graphic is not technically feasible. The exception for labeling is with marketing material since marketing material is primarily developed for public release.
- **Displayed**. CUI-Restricted, Restricted or Confidential information that is displayed or viewed (e.g., websites, presentations, etc.) must be labeled with its classification as part of the display.

#### **GENERAL ASSUMPTIONS**

- Any information created or received by ACME employees in the performance of their jobs at is Internal Use, by default, unless the information requires greater confidentiality or is approved for release to the general public.
- Treat information that is not assigned a classification level as "Internal Use" at a minimum and use corresponding controls.
- When combining information with different sensitivity levels into a single application or database, assign the most restrictive classification of the combined asset. For example, if an application contains Internal Use and Confidential information, the entire application is Confidential.
- Restricted, Confidential and Internal Use information must never be released to the general public but may be shared with third parties, such as government agencies, business partners, or consultants, when there is a business need to do so, and the appropriate security controls are in place according to the level of classification.
- You may not change the format or media of information if the new format or media you will be using does not have the same level of security controls in place. For example, you may not export Restricted information from a secured database to an unprotected Microsoft Excel spreadsheet.

### PERSONAL DATA (PD)

PD is any information about an individual maintained by ACME including any information that:

- <u>Can be used to distinguish or trace an individual's identity</u>, such as name, social security number, date and place of birth, mother's maiden name, or biometric records; and
- Is linked or linkable to an individual, such as medical, educational, financial, and employment information.

Sensitive PD (sPD) is always PD, but PD is not always sPD. Examples of PD include, but are not limited to:

- Name
  - Full name;
    - Maiden name;
    - Mother's maiden name; and
    - Alias(es);
  - Personal Identification Numbers
    - Social Security Number (SSN);
    - Passport number;
    - Driver's license number;
    - Taxpayer Identification Number (TIN), and
    - Financial account or credit card number;
- Address Information
  - Home address; and
  - Personal email address;
- Personal Characteristics
  - Photographic image (especially of the face or other identifying characteristics, such as scars or tattoos);
  - Fingerprints;
  - Handwriting, and
  - $\circ$  Other biometric data:
    - Retina scan;
    - Voice signature; and
    - Facial geometry; and
- Linkable Information
  - Date of birth;

#### DATA HANDLING GUIDELINES

Note: For U.S. Government regulated data, the following requirements supersede ACME data handling guidelines:

- For **Federal Contract Information (FCI)**, the following sources are authoritative for FCI data handing:
  - 48 CFR § 52.204-21 (basic safeguarding for Covered Contractor Information Systems (CCIS))
  - For **Controlled Unclassified Information (CUI)**, the following sources are authoritative for CUI data handing:
    - o 32 CFR § 2002
    - o DoD Instruction 5200.48
    - NIST SP 800-171 rev2

Handling Controls	CUI - RESTRICTED	Restricted	Confidential	Internal Use	Public
Non-Disclosure Agreement (NDA)	<ul> <li>NDA is required prior to access by non- employees.</li> </ul>	<ul> <li>NDA is required prior to access by non- employees.</li> </ul>	NDA is recommended prior to access by non-employees.	No NDA requirements	No NDA requirements
Internal Network Transmission (wired & wireless)	<ul> <li>Encryption is required</li> <li>Instant</li> <li>Messaging is prohibited</li> <li>FTP is prohibited</li> <li>Logical access must use multi- factor authentication</li> </ul>	<ul> <li>Encryption is required</li> <li>Instant Messaging is prohibited</li> <li>FTP is prohibited</li> </ul>	<ul> <li>Encryption is recommended</li> <li>Instant</li> <li>Messaging is prohibited</li> <li>FTP is prohibited</li> </ul>	No special requirements	No special requirements
External Network Transmission (wired & wireless)	<ul> <li>Encryption is required</li> <li>Instant Messaging is prohibited</li> <li>FTP is prohibited</li> <li>Logical access must use multi- factor authentication</li> <li>Remote access must use multi- factor authentication</li> </ul>	<ul> <li>Encryption is required</li> <li>Instant</li> <li>Messaging is prohibited</li> <li>FTP is prohibited</li> <li>Remote access should be used only when necessary and only with VPN and multi-factor authentication</li> </ul>	<ul> <li>Encryption is required</li> <li>Instant Messaging is prohibited</li> <li>FTP is prohibited</li> </ul>	Encryption is recommended	No special requirements
Data At Rest (file servers, databases, archives, etc.)	<ul> <li>Encryption is required</li> <li>Logical access controls are required to limit unauthorized use</li> <li>Physical access restricted to specific groups</li> </ul>	<ul> <li>Encryption is required</li> <li>Logical access controls are required to limit unauthorized use</li> <li>Physical access restricted to specific groups</li> </ul>	<ul> <li>Encryption is recommended</li> <li>Logical access controls are required to limit unauthorized use</li> <li>Physical access restricted to specific groups</li> </ul>	<ul> <li>Encryption is recommended</li> <li>Logical access controls are required to limit unauthorized use</li> <li>Physical access restricted to specific groups</li> </ul>	<ul> <li>Logical access controls are required to limit unauthorized use</li> <li>Physical access restricted to specific groups</li> </ul>

#### **ANNEX 2: DATA CLASSIFICATION EXAMPLES**

The table below shows examples of common data instances that are already classified to simplify the process. This list is not inclusive of all types of data, but it establishes a baseline for what constitutes data sensitivity levels and will adjust to accommodate new types or changes to data sensitivity levels, when necessary.

## IMPORTANT: You are instructed to classify data more sensitive than this guide, if you feel that is warranted by the content.

Data Class	Sensitive Data Elements	Public	Internal Use	Confidential	Restricted	PD - Restricted	sPD - Restricted	CUI - Restricted
tify	Social Security Number (SSN)						X	
den	Employer Identification Number (EIN)						X	
	Driver's License (DL) Number						X	
idue	Financial Account Number						X	
n D	Payment Card Number (credit or debit)						X	
t Can	Government-Issued Identification (e.g., passport, permanent resident card, etc.)						х	
Tha	Geolocation Information (e.g., precise geogr <mark>aphic lo</mark> cation and/or history)						X	
ata	Race / Ethnicity						Х	
	Religious Affiliation						X	
ona	Union Membership						X	
ers idua	Philosophical Beliefs						Х	
<b>Non-Public</b> Consumer, Client or Employee Personal Data That Can Uniquely Identify An Individual	Private Communications (e.g., contents of private mail, emails and text messages)						x	
An	Genetic Information						Х	
	Biometrics						Х	
l o to	Health Information						х	
Clier	Sexual Orientation						Х	
ir, O	Birth Date						Х	
u m	First & Last Name						Х	
Isuc	Age						Х	
Ŭ	Phone Number						х	
ildu	Home Address						х	
	Gender						х	
N N	Email Address						Х	
-ro	Geolocation Information (e.g., precise geographic location and/or history)					Х		
	Race / Ethnicity					Х		
at Clie	Religious Affiliation					Х		
a Th	Union Membership					Х		
Sum Data	Philosophical Beliefs					Х		
Publicly Available Consumer, Client Employee Personal Data That Can Uniquely Identify An Individual	Private Communications (e.g., contents of private mail, emails and text messages)					x		
	Health Information					х		
	Sexual Orientation					X		
	Birth Date					X		
	First & Last Name					X		
Pu	Age					Х		

## **ANNEX 4: BASELINE SECURITY CATEGORIZATION GUIDELINES**

Assets and services are categorized by two primary attributes: (a) the potential impact they pose from misuse and (b) the data classification level of the data processed, stored or transmitted by the asset or process. These two attributes combine to establish a basis for controls that should be assigned to that system or asset. *This basis is called an Assurance Level (AL)*.

### SAFETY & CRITICALITY

One component of assessing risk is to understand the criticality of systems and data. By having a clear understanding of the Safety & Criticality Level (SC) for an asset, system, application, service or data, determining potential impact will be more accurate.

There are four (4) SC levels:

- 1. Mission Critical (SC1);
- 2. Business Critical (SC2);
- 3. Non-Critical (SC3); and
- 4. Business Supporting (SC4).

### MISSION CRITICAL (SC1)

Mission Critical (SC1) assets handle information that is determined to be vital to the operations or mission effectiveness of ACME.

The impact of a SC1 system, or its data, being unavailable includes, but is not limited to:

- <u>Enterprise-wide business stoppage with significant revenue impact</u> can be anything that creates a significant impact on ACME's ability to perform its mission;
- Public, wide-spread damage to ACME's reputation;
- Direct, negative & long-term impact on customer satisfaction; and
- Risk to human health or the environment.

Examples of SC1 systems, applications and services include, but are not limited to:

- Enterprise Resource Management (ERM) system (e.g., SAP)
- Active Directory (AD)
- Ability to process Point of Sale (PoS) or eCommerce payments

#### BUSINESS CRITICAL (SC2)

Business Critical (SC2) assets handle information that is important to the support of ACME's primary operations.

The impact of a SC2 system, or its data, being unavailable includes, but is not limited to:

- <u>Enterprise-wide delay or degradation in providing important support services</u> that may seriously impact mission effectiveness or the ability to operate;
- Department-level business stoppage with direct or indirect revenue impact; and
- Direct, negative & <u>short-term</u> impact on customer satisfaction.

Examples of SC2 systems, applications and services include, but are not limited to:

- Email (e.g., Exchange)
- Payroll systems
- Corporate website functionality
- Corporate mobile device application functionality
- HVAC systems
- Customer support / call center functionality

#### NON-CRITICAL (SC3)

Non-Critical (SC3) assets handle information that is necessary for the conduct of day-to-day business, but they are not mission critical in the short-term.

The impact of a SC3 system, or its data, being unavailable includes, but is not limited to:

- Widespread delays or degradation of services or routine activities;
- Widespread employee productivity degradation;