Control Validation Testing (CVT) Mapping To Leading Cybersecurity and Privacy Practices

Manual M	Phase	Task#	Name	Task	Outcomes	ISO 27002	NIST CSF	NIST 800-53	NIST 800-160	NIST 800-171	Secure Controls
Page		P-1	Risk Management Roles					PM-2			GOV-04
March Marc		P-2	Risk Management Strategy			11.1.4			3.3.4	NFO	RSK-01
Manual M		P-3	Risk Assessment (organization)	Assess organization-wide security and privacy risk and update the results on an ongoing basis.		11.1.4				3.11.1	
100 100	Prepare	P-4			Tailored control baselines for organization-wide use are established and made						
Manual M	Prepare	P-5		Identify, document, and publish organization-wide common controls that are available	Common controls that are available for inheritance by organizational systems are						GOV-02
March Marc	Prepare	P-6									CFG-02.5
March Marc		P-7		control effectiveness.	and implemented.	12.4.1				NFO	MON-01
Mary		P-8	Business Focus				ID.BE	CP-2(8)			BCD-02
March Marc		P-9	Stakeholder Identification		The stakeholders having an interest in the system are identified.			PL-2(3)		NFO	IAO-03.1
March 19 Mar	Prepare	P-10	Asset Identification		Stakeholder assets are identified and prioritized.	8.1.1	ID.AM				AST-02
March Marc	Prepare	P-11	Define Scope	Determine the authorization boundary of the system.	The authorization boundary (i.e., system) is determined			PL-2 SA-5(1)		3.4.2	AST-04
March 1				Identify the types of information to be processed, stored, and transmitted by the	The types of information processed, stored, and transmitted by the system are						
March Marc	(system-level)			system.	identified.		ID.AM-5				
March Marc	(system-level)			I ' '			ID.RA		3.2.1		
Part	(system-level)	P-14	KISK Assessment (system)			11.1.4		RA-3	2.1	3.11.1	
Part		P-15	Security & Privacy Requirements		Security and privacy requirements are defined and prioritized.	14.2.5		SA-13 SC-7(18)	2.2 2.3	3.13.2	SEA-01
Part		P-16	Enterprise Architecture	Determine the placement of the system within the enterprise architecture.	• The placement of the system within the enterprise architecture is determined.	14.1.1		PL-8	3.4.1 3.4.2 3.4.3 3.4.4 3.4.5	NFO	SEA-02
Part		P-17	System Registration	Register the system with organizational program or management offices.			ID.GV	PM-5			AST-01
Part					A security categorization of the system, including the information processed by						
Company Comp	Categorize	C-1	Security Categorization	Categorize the system and document the security categorization results.	completed. *Security categorization results are documented in the security and privacy plans. *Security categorization results are consistent with the enterprise architecture and commitment to protecting organizational missions, business functions, and mission floutiness processes. *Security categorization results reflect the organization's risk management		ID.AM-5			NFO	IAO-01
Company Comp	Categorize	C-2	Security Categorization Review & Approval	Review and approve the security categorization results and decision.	The security categorization results are reviewed and the categorization decision is					NFO	IAO-01
Company Comp			,	, , , , , , , , , , , , , , , , , , , ,	approved by senior leaders in the organization.			PM-10		3.12.1	
Section Sect	Categorize	C-3	System Description	Document the characteristics of the system.	The characteristics of the system are described and documented.			PL-2		3.12.3 3.12.4	IAO-03
Section Sect	Select	S-1	Requirements Allocation				ID.GV				IAO-03.2
Section Sect	Select	S-2	Control Selection	Select the controls for the system and the environment of operation.	Control baselines necessary to protect the system commensurate with risk are		PR.IP			NFO	IAO-01
Solid Soli	Soloct	6.2	Control Tailoring							NEO	
Section Sect	Select	3-3	Control Falloring	Tailor the controls selected for the system and the environment of operation.	- Controls are tailored producing tailored control baselines			PM-10		3.12.1	10-01
Part	Select	S-4	Plan Development	Document the controls for the system and environment of operation in security and privacy plans.				PL-2		3.12.3 3.12.4	IAO-03
Section Section Part Institute of Approach Part	Select	S-5	Continuous Monitoring Strategy (system)		risk management strategy is developed.	12.4.1		CA-7 CA-7(1) PM-14	3.3.8	3.12.1 3.12.2 3.12.3 3.12.4	
Part Communication Part Communication Part Communication Part Communication Part	Select	S-6	Plan Review & Approval		the system and the environment of operation commensurate with risk are					NFO	IAO-01
Page 12 Busine Configuration Calabidit his rolat configuration Calabidit his rolation Calab	Implement	I-1	Control Implementation	Implement the controls in the security and privacy plans.	 Controls specified in the security and privacy plans are implemented. 					NFO	IAO-01
Procession 12 Standard Configuration 12 Standard Configuration 12 Standard Configuration 13 Standard Configuration 14 Standard Configu					the controls in the system security and privacy plans.		PR.IP-2				
Asserted Macrotina Control Asserted Marketina	Implement	1-2	Baseline Configuration		The security and privacy plans are updated based on information obtained during	14.1.1	PR.IP-1	CM-6			CFG-02
Assist A.2 Assistment Plan Overlag, France, and agence plant to assist implemented control. **Security and privary successment plans are relevated and agencement and the level of effort required. **Security and privary successment plans are relevated and agencement and the level of effort required. **Security and privary successment plants are relevated and agencement and the level of effort required. **Security and privary successment plants are relevated and agencement and the level of effort required. **Assists be control in neutronic with the assistment procedures donor bed in control assistments and the level of effort required. **Assists be control in neutronic with the assistment procedures donor bed in control assistments in a control assistments in a control assistments in a control assistments in a security and privary successment. **Assists bed in the control assistments in the control assistments in a security and privary successment and the level of efforts required. **Assists bed in the control assistments in a security and privary successment plants are devoted assistments in a security and privary successment plants are devoted assistments in an antique to the control assistments in	Assess	A-1	Assessor Selection		An assessor or assessment team is selected to conduct the control assessments. The appropriate level of independence is achieved for the assessor or assessment.	14.2.8		CA-2 CA-2(1)		3.12.2 3.12.3	IAO-02.1
Assessment Plan Assessment plans are reviewed and disconvented. Security and plans are developed and disconvented. Security and plans are accounted. Security					Documentation needed to conduct the assessments is provided to the assessor or						
Assess the control is accordance with the assessment procedures described in accordance with the assessment procedures assessment and the level of forth required. Accordance assessment and the level of forth required. Accordance with the assessment procedures and procedures are consistent. - Conduct initial remodistion is accordance with the assessment procedure described in the control in application and consistent of the accordance in the control in application and consistent procedures and accordance in the control in application and con	Assess	A-2	Assessment Plan	Develop, review, and approve plans to assess implemented controls.	Security and privacy assessment plans are developed and documented.			CA-2(2)			
Assets A-3 Control Assessments accordance with the assessment procedure described in assessment plane. Assets A-4 Assessments accordance with the assessment reports documentating the findings and recommendations from a feature of the assessment in assessment in assessment and assessment in assessment in assessment procedure described in the assessment reports documentating the findings and recommendations from a feature of the assessment reports documentating the findings and recommendations from a feature of the control assessments in assessments in assessments in assessments in assessment and the control assessments in assessment and the control assessments in assessments and the control assessments in assessment and the control assessments and the control implemented in the control implementation thanges made based on the assessment reports that provide findings and excurring and provide accordance and based on the assessment reports that provide findings and excurring and private passessments and obsequent remediation actions. Authorized B-1 Authorization Pickage Authorized B-1 Authorization Pickage Authorized B-1 Authorization Pickage Authorized B-1 Authorization Pickage Authorized B-1 Authorization pickage and submit the pickage to the authorizing efficial and a submitation pickage and submit the pickage to the authorizing efficial and a submitation pickage and submit the pickage to the authorizing efficial and a submitation pickage and submit the pickage to the authorizing efficial and assessment apports to describe and the authorization pickage and submit the pickage to the authorizing efficial and assessment pickage and advised to the authorizing efficial and assessment pickage and advised to the extra control and assessment pickage and accordance with a submitation pickage and submit the pickage to authorized to effective control in the authorization pickage and submit the pickage to authorized the efficience and the authorization pickage and submit the pickage to authorized the efficience and t								FINI-10			
Assets A-4 Assertment Reports Passessment Reports Sourcementing the findings and encommendations from the control assessments. Assets A-5 Remediation Actions Conduct initial remediation actions on the controls and reassess remediated controls. Passes remediated controls and reassess remediated controls. Passes remediated controls. Passes remediated controls and reassess remediated controls. Passes remediated controls. Passes remediated controls and reassess remediated controls. Passes remediated controls. Passes remediated controls and reassess remediated controls. Passes remediated controls and reassess remediated controls. Passes remediated controls and reassess remediated controls. Passes remediated co	Assess	A-3	Control Assessments		assessment plans. • Opportunities to reuse assessment results from previous assessments to make the risk management process timely and cost-effective are considered. • Use of automation to conduct control assessments is maximized to increase				3.4.9		CPL-03.2
Assets A-5 Remediation Actions Conduct initial remediation actions on the controls and reassess remediated controls, and reassess remediation actions and reassess remediation actions and reassess remediation actions and reassess remediation actions. Assets A-6 Pin of Action & Milestones (PDAM) Appear the plan of action and milestones based on the findings and recommendations actions of the assessment reports. Authorized R-1 Authorization Package (an authorization package and submit the package to the authorizing official and transport of the assessment reports in developed. Authorized R-2 Risk Analysis & Determination Analyse and determination controls. Authorized R-3 Risk Response Identify and implement a preferred course of action in response to the risk determined. Authorized R-3 Risk Response Identify and implement a preferred course of action in response to the risk determined. Authorized R-3 Authorization Decision Part of a common controls. Authorized R-3 Authorization Decision Part of Risk Response (an authorization decision. Part of Risk Response (and risk part of r	Assess	A-4	Assessment Reports		Security and privacy assessment reports that provide findings and			CA-2	3.4.9		
Assets A 6 Plan of Action & Milestones (PAA8M) Assets A 6 Plan of Action & Milestones (PAA8M) Assets A 6 Plan of Action & Milestones (PAA8M) Authorized R-1 Authorization Package Authorized R-2 Risk Analysis & Determination Authorized R-2 Risk Analysis & Determination Authorized R-3 Risk Response Authorized R-4 Authorization decision Authorized R-5 Authorization Decision Authorized R-5 Authorization Decision Authorized R-5 Authorization Reporting R-7 Authorized R-7 Author	Assess	A-5	Remediation Actions		Remediation actions to address deficiencies in the controls implemented in the system and environment of operation are taken.	10.2.3	ID.RA-6				RSK-06
Authorize R:1 Authorization Package R:2 Rix Analysis & Determination Analysis and determine the risk from the operation or use of the system or the provision or use of the system or the operation or use of the suthorization for the system or the Anthorization Decision Analysis & Determination Anal	Assess	A-6	Plan of Action & Milestones (POA&M)		made based on the assessments and subsequent remediation actions. • A plan of action and milestones detailing remediation plans for unacceptable risks		ID.RA-6			3.12.2	IAO-05
Authorize R-2 Risk Analysis & Determination Provision of Common controls. Authorize R-3 Risk Response Identify and implement a preferred course of action in response to the risk determined. Authorize R-4 Authorization Decision Decision Decision Provision of common controls is acceptable. Authorize R-5 Authorization Reporting System & Environment Changes Information system or the provision of use of common controls that represent course of the lystem in accordance with the continuous monitoring strategy. Monitor M-5 Ongoing Risk Response Record for the system on Updates Provision of the results of the continuous monitoring process. and outstanding lemsin plans of action and milestones. Security & Privacy Reporting Continuous monitoring process and other organizational officials and other security and privacy posture of the system on an ongoing basis in accordance with the org				·			-			3.12.4	
Authorize R-2 Risk Analysis & Determination provision of common controls. Analyse and determine the risk from the operation or use of the system or the provision of common controls. Authorize R-3 Risk Response Identify and implement a preferred course of action in response to the risk determined. Authorize R-4 Authorization Decision Decision Decision Operation or use of the information system or the provision or use of common controls is acceptable. Authorize R-5 Authorization Reporting Report the authorization decision and any deficiencies in controls that represent synthesis and provision or use of common controls is acceptable. Authorize R-5 Authorization Reporting Report the authorization decision and any deficiencies in controls that represent synthesis and the continuous monitoring strategy. Monitor M-2 Ongoing Assessments Authorization decision system and evidence in controls in provision or use of the system in control in provision or use of the system in control in provision or use of common controls is accordance with the continuous monitoring strategy. Monitor M-3 Ongoing Risk Response Authorization decision or continuous monitoring strategy. Monitor M-4 Ongoing Assessments Authorization decision and milestones and united in continuous monitoring strategy. Monitor M-5 Security & Privacy Reporting Continuous monitoring strategy. Monitor M-6 Ongoing Authorization Continuous monitoring strategy. Monitor M-7 Ongoing Authorization Continuous monitoring strategy. Monitor M-8 Ongoing Authorization Updates Privacy Reporting Continuous monitoring strategy. Monitor M-8 Ongoing Authorization Continuous monitoring strategy. Monitor M-9 Ongoing Authorization Continuous m	Authorize	R-1	Authorization Package	for an authorization decision.				PM-10		NFO	
Authorize R-3 Risk Response ledentify and implement a preferred course of action in response to the risk determined. Authorize R-4 Authorization Decision Decision Decision Decision or use of common controls is acceptable. Authorize R-5 Authorization Report the authorization decision and any deficiencies in controls that represent segments are reported to improve and the security and privacy posture of the system on an ongoing basis in accordance with the continuous monitoring stratesy. Monitor M-5 Security & Privacy Reporting Monitor M-6 Orgoing Authorization Monitor M-6 Orgoing Authorization Monitor M-7 Security & Privacy Reporting Monitor M-7 Security & Privacy Reporting Monitor M-8 Orgoing Authorization Monitor M-9 Orgoing Authorization Monitor M-9 Orgoing Authorization Monitor M-9 Orgoing Authorization Monitor M-9 Security & Privacy Reporting Monitor M-9 Orgoing Authorization M-9	Authorize	R-2	Risk Analysis & Determination			11.1.4					RSK-04
Authorize R-4 Authorization Decision — Determine if the risk from the operation or use of the information system or the provision or use of common controls is expensive or use of the information system or the common controls is expensive or the common control is expensive or the common con	Authorize	R-3	Risk Response	Identify and implement a preferred course of action in response to the risk determined.	Risk responses for determined risks are provided.	8.3	ID.RA-6	PM-4		3.12.2 3.12.3	IAO-05
Authorization Reporting Springer security or privacy risk. Monitor M-1 System & Environment Changes Implement System & Environment Changes Implement System and severy risk. Monitor M-2 Ongoing Assessments Authorization decision of peration decisions, significant vulnerabilities, and risks are reported to System & Environment Changes Implement System and severy risk. Monitor M-2 Ongoing Assessments Authorization of Local Melancian System and System And environment of operation are monitored in Local Melancian System and environment of operation are monitored in Local Melancian System and environment of operation are monitored in Local Melancian System and environment of operation are monitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Melancian System and environment of operation are emonitored in Local Me	Authorize	R-4	Authorization Decision		The authorization for the system or the common controls is approved or denied.						IAO-01
Monitor M-1 System & Environment Changes impact the security and privacy posture of the system in accordance with the continuous monitoring strategy. Monitor M-2 Ongoing Assessments M-3 Ongoing Risk Response Response Response Response Authorization Updates Update plans, assessment reports, and plans of action and milestones. Monitor M-4 Authorization Updates Update plans, assessment reports, and plans of action and milestones based on the results of negoting monitoring strategy. Monitor M-5 Security & Privacy Reporting Security & Privacy Reporting Risk Response Response Response Response Response Response Response Response Response Respond to risk based on the results of negoting monitoring response Re	Authorize	R-5	Authorization Reporting	Report the authorization decision and any deficiencies in controls that represent				CA-1		NFO	IAO-01
Monitor M-2 Ongoing Assessments Assess the controls implemented within and inherited by the system in accordance with the continuous monitoring strategy. Monitor M-3 Ongoing Risk Response Response Response Response Individual Plants of action and milestones and outstanding terms in plans of action and milestones based on the results of negoing monitoring activities, risk assessment reports, and plants of action and milestones based on the results of the continuous monitoring grategy. Monitor M-5 Security & Privary Reporting Continuous monitoring process of the continuous monitoring process of the continuous monitoring grategy. Monitor M-6 Ongoing Authorization Review the security and privacy posture of the system to ne authorizing official and other senor leaders and esecutives. Monitor M-6 Ongoing Authorization Review the security and privacy posture of the system to ne authorizing official and other senor leaders and esecutives. Monitor M-7 System Disposal of the continuous monitoring grategy. Monitor M-8 Ongoing Authorization Review the security and privacy posture of the system on an ongoing basis to determine whether the risk remains acceptable. Monitor M-8 Ongoing Authorization Review the security and privacy posture of the system of many posture of the system on an ongoing basis to determine whether the risk remains acceptable. Monitor M-8 Ongoing Authorization Review the security and privacy posture of the system of many posture of the system on an ongoing basis to determine whether the risk remains acceptable. Monitor M-8 Ongoing Authorization Review the security and privacy posture of the security and privacy posture to the authorizing official and other senior leaders and esecutives. Monitor M-8 Ongoing Authorization Review the security and privacy posture to the authorizing official and other senior leaders and esecutives. Monitor M-8 Ongoing Authorization Review the security and privacy posture to the authorizing official and other senior leaders and esecutives. Monitor M-9 Ongoing Auth	Monitor	M-1	System & Environment Changes	Monitor the information system and its environment of operation for changes that	The information system and environment of operation are monitored in			CA-1		NFO	IAO-01
Monitor M-3 Ongoing Risk Response Respond to risk based on the results of ongoing monitoring activities, risk assessments, and outstanding terms in plans of action and milestones. Monitor M-4 Authorization Updates Update plans, assessment reports, and plans of action and milestones based on the results of the continuous monitoring activities. Report the security and privacy posture of the system to the authorizing official and other organizational official on an organization official on an organizational official on an organizational official on an organizational official on an organizational official on on organizational official on organizational official on on organizational official on on organizational official on on organizational official	Monitor	M-2	Ongoing Assessments	Assess the controls implemented within and inherited by the system in accordance	 Ongoing assessments of control effectiveness are conducted in accordance with the continuous monitoring strategy. 		ID.SC-4				RSK-07
Monitor M-4 Authorization Updates Pinks, assessment reports, and plans of action and milestones based on the results of the continuous monitoring results or a nongoing basis in accordance with the organizational official and other organizational officials on an ongoing basis in accordance with the organizational official and other senior leaders and executives. Monitor M-5 Ongoing Authorization Melevither insk remains acceptable. Review the security and privacy posture to the authorizing official and other senior leaders and executives. Authorization suing the results of continuous monitoring activities and other senior leaders and executives. Authorization suing the results of continuous monitoring activities and other senior leaders and executives. Authorization suing the results of continuous monitoring activities and other senior leaders and executives. Authorization suing the results of continuous monitoring activities and communicate changes in risk determination and acceptance decisions. Monitor M-5 System Disposal Implement a system of security and privacy posture to the authorizing official and other senior leaders and executives. Authorization suing the results of continuous monitoring activities and communicate changes in risk determination and acceptance decisions. April M-10 NFO M-01 M-6 3.3.7 GOV-05 M-7 System Disposal Implementary and privacy posture to the authorizing official and other senior leaders and executives. April M-10 NFO M-01 M-10 NFO M-01 M-10 NFO M-01 M-10 NFO M-01 M-10 NFO M-10 M-10 NFO M-10 NFO M-10 NFO M-10 M-10 NFO M-10	Monitor	M-3	Ongoing Risk Response	Respond to risk based on the results of ongoing monitoring activities, risk assessments, and outstanding items in plans of action and milestones.	 The output of continuous monitoring activities is analyzed and responded to appropriately. 						RSK-06.1
Report the security and privacy posture of the system to the authorizing official and other senior leaders and executives. Monitor M-6 Ongoing Authorization Monitor M-7 System Disposal Implement a system disposal strategy and execute required actions when a system is	Monitor	M-4	Authorization Updates	Update plans, assessment reports, and plans of action and milestones based on the results of the continuous monitoring process.	Risk management documents are updated based on continuous monitoring					NFO	IAO-01
Monitor M-6 Ongoing Authorization Review the security and privacy posture of the system on an ongoing basis to determine whether the risk remains acceptable. Monitor M-7 System Disposal Implement a system disposal strategy and execute required actions when a system disposal strategy and execute required actions and acceptance decisions.	Monitor	M-5	Security & Privacy Reporting	Report the security and privacy posture of the system to the authorizing official and	A process is in place to report the security and privacy posture to the authorizing		PR.IP-8	AR-6			
whether the risk remains acceptable. Monitor M-7 System Disnosal Implement a system disposal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system is 4. A system disnosal strategy and execute required actions when a system disnosal strategy and execute required actions when a system disnosal strategy and execute required actions when a system disnosal strategy and execute required actions when a system disnosal strategy and execute required actions when a system disnosal strategy and execute required actions when a system disnosal strategy and execute required actions when a system disnosal strategy and execute required actions when a system disnosal strategy and execute	Monitor	M-6		continuous monitoring strategy. Review the security and privacy posture of the system on an ongoing basis to determine	Authorizing officials conduct ongoing authorizations using the results of			CA-1			
				whether the risk remains acceptable.	and acceptance decisions.	8.3.2				5	
	Monitor	M-7	System Disposal		A system disposal strategy is developed and implemented, as needed.		PR.IP-6	MP-6	3.4.14		AST-09