NIS 2 ISO 27001:2022					
NIS 2	ISO 27001:2022			Carmita	Tale
Legislation article	ISMS and/or Annex A	CIS Safe- guard	Asset Type	Security Function	Title
Article 21.2 a)	ISMS:	guard		Function	
Policies on risk analysis and	ISIVIS:				Establish and Maintain Detailed Enterprise
	5.2 Policy	1,1	Devices	Identify	Asset Inventory
information system security	6.1.2 Information security risk assessment	1,2	Devices	Respond	Address Unauthorized Assets
	'		+		
	6.1.3 Information security risk treatment	2,1	Applications	Identify	Establish and Maintain a Software
	0.01.6	2.2	A 1: .:		Inventory
	8.2 Information security risk assessment	2,2	Applications	Identify	Ensure Authorized Software is Currently Supported
	8.3 Information security risk treatment	2.2	Applications	Dosnand	Address Unauthorized Software
	8.5 Information security risk treatment	2,3	+ ' '	Respond	
	Amon A Information convity controls reference	3,1	Data	Identify	Establish and Maintain a Data Management
	Annex A. Information security controls reference:	2.2	Data	lala saif.	Process
	5.1 Policies for information security	3,2	Data	Identify	Establish and Maintain a Data Inventory
	5.2 Information security roles and responsibilities	4,1	Applications	Protect	Establish and Maintain a Secure
	5.7.7	4.2		.	Configuration Process
	· 5.7 Threat intelligence	4,2	Network	Protect	Establish and Maintain a Secure
					Configuration Process for Network
	5.27.D	7.4	A l' t'	Dunt not	Infrastructure
	5.37 Documented operating procedures	7,1	Applications	Protect	Establish and Maintain a Vulnerability Management Process
		7,2	Applications	Posnond	Establish and Maintain a Remediation
		1,4	Applications	Respond	Process
		8,1	Network	Protect	Establish and Maintain an Audit Log
		0,1	TACCAACIK	TOLECT	Management Process
		11,1	Data	Recover	Establish and Maintain a Data Recovery
		,-			Process
		14,1	N/A	Protect	Establish and Maintain a Security
		I .,_	""		Awareness Program
		15,2	N/A	Identify	Establish and Maintain a Service Provider
		,	,	,	Management Policy
		16,1	Applications	Protect	Establish and Maintain a Secure Application
					Development Process
		17,4	N/A	Respond	Establish and Maintain an Incident
					Response Process
		18,1	N/A	Identify	Establish and Maintain a Penetration
					Testing Program
Article 21.2 b)		17,1	N/A	Respond	Designate Personnel to Manage Incident
Incident handling	Annex A. Information security controls reference:				Handling
	5.24 Information security incident management	17,2	N/A	Respond	Establish and Maintain Contact Information
	planning and preparation				for Reporting Security Incidents
	 5.25 Assessment and decision on information security 	17,3	N/A	Respond	Establish and Maintain an Enterprise
	events				Process for Reporting Incidents
	 5.26 Response to information security incidents 	17,4	N/A	Respond	Establish and Maintain an Incident
					Response Process
	 5.27 Learning from information security incidents 	17,5	N/A	Respond	Assign Key Roles and Responsibilities
	· 5.28 Collection of evidence	17,6	N/A	Respond	Define Mechanisms for Communicating
					During Incident Response
	 6.8 Information security event reporting 	17,7	N/A	Recover	Conduct Routine Incident Response
					Exercises
	· 8.15 Logging	17,8	N/A	Recover	Conduct Post-Incident Reviews
	· 8.16 Monitoring activities	17,9	N/A	Recover	Establish and Maintain Security Incident
					Thresholds
		8,2	Network	Detect	Collect Audit Logs
		8,5	Network	Detect	Collect Detailed Audit Logs
		8,9	Network	Detect	Centralize Audit Logs
		8,1	Network	Protect	Retain Audit Logs
a :: 1 - 24 2 - 3		0,1	IACTANOLK	FIOLECT	netalii Addit Logs
Article 21.2 c)					
Business continuity, such as backup					Establish and Maintain a Data Bassyas
management and disaster recovery, and	Annex A. Information security controls reference:	11 1	Data	Pacavar	Establish and Maintain a Data Recovery Process
crisis management	*	11,1 11,2	Data	Recover Recover	Perform Automated Backups
	5.29 Information security during disruption		+	+	· ·
	5.30 ICT readiness for business continuity	11,3	Data	Protect	Protect Recovery Data
	· 5.37 Documented operating procedures	11,4	Data	Recover	Establish and Maintain an Isolated Instance
	0.101.6				of Recovery Data
	· 8.13 Information backup	11,5	Data	Recover	Test Data Recovery
	· 8.14 Redundancy of information processing facilities	17,1	N/A	Respond	Designate Personnel to Manage Incident
			ļ.,		Handling
		17,4	N/A	Respond	Establish and Maintain an Incident
		45.5			Response Process
		17,5	N/A	Respond	Assign Key Roles and Responsibilities
-		17,6	N/A	Respond	Define Mechanisms for Communicating
		I	İ.	Ì	During Incident Response
					. 8
Article 21.2 d)					, , , , , , , , , , , , , , , , , , ,
Supply chain security, including security-					
Supply chain security, including security- related aspects concerning the					
Supply chain security, including security-	Annex A. Information security controls reference:	8,12	Data	Detect	Collect Service Provider Logs

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NIS 2	ISO 27001:2022 5.19 Information security in supplier relationships	CIS Cont	N/A	Identify	Establish and Maintain an Inventory of
	3.13 information security in supplier relationships	13,1	IV/A	lucitury	Service Providers
	 5.20 Addressing information security within supplier agreements 	15,2	N/A	Identify	Establish and Maintain a Service Provider Management Policy
	5.21 Managing information security in the ICT supply chain	15,3	N/A	Identify	Classify Service Providers
	 5.22 Monitoring, review and change management of supplier services 	15,4	N/A	Protect	Ensure Service Provider Contracts Include Security Requirements
	5.23 Information security for use of cloud services	15,5	N/A	Identify	Assess Service Providers
		15,6	Data	Detect	Monitor Service Providers
		15,7	Data	Protect	Securely Decommission Service Providers
Article 21.2 e) Security in network and information systems acquisition, development and maintenance, including vulnerability					Establish and Maintain a Secure
handling and disclosure	Annex A. Information security controls reference:	4,1	Applications	Protect	Configuration Process
	5.37 Documented operating procedures	4,2	Network	Protect	Establish and Maintain a Secure Configuration Process for Network
	8.8 Management of technical vulnerabilities	4,3	Users	Protect	Infrastructure Configure Automatic Session Locking on
	· 8.9 Configuration management	4,4	Devices	Protect	Enterprise Assets Implement and Manage a Firewall on
	· 8.19 Installation of software on operational systems	4,5	Devices	Protect	Servers Implement and Manage a Firewall on End- User Devices
	· 8.20 Network security	4,6	Network	Protect	Securely Manage Enterprise Assets and Software
	· 8.21 Security of network services	4,7	Users	Protect	Manage Default Accounts on Enterprise Assets and Software
		4,8	Devices	Protect	Uninstall or Disable Unnecessary Services on Enterprise Assets and Software
		4,9	Devices	Protect	Configure Trusted DNS Servers on Enterprise Assets
		4,10	Devices	Respond	Enforce Automatic Device Lockout on Portable End-User Devices
		4,11	Devices	Protect	Enforce Remote Wipe Capability on Portable End-User Devices
		4,12	Devices	Protect	Separate Enterprise Workspaces on Mobile End-User Devices
		7,1	Applications	Protect	Establish and Maintain a Vulnerability Management Process
		7,2	Applications	Respond	Establish and Maintain a Remediation Process
		7,3	Applications	Protect	Perform Automated Operating System Patch Management
		7,4	Applications	Protect	Perform Automated Application Patch Management
		7,5	Applications	Identify	Perform Automated Vulnerability Scans of Internal Enterprise Assets
		7,6	Applications	Identify	Perform Automated Vulnerability Scans of Externally-Exposed Enterprise Assets
		7,7	Applications	Respond	Remediate Detected Vulnerabilities
		12,1	Network	Protect	Ensure Network Infrastructure is Up-to- Date
		12,2	Network	Protect	Establish and Maintain a Secure Network Architecture
		12,3	Network	Protect	Securely Manage Network Infrastructure
		12,6	Network	Protect	Use of Secure Network Management and Communication Protocols
		12,7	Devices	Protect	Ensure Remote Devices Utilize a VPN and are Connecting to an Enterprise's AAA Infrastructure
		12,8	Devices	Protect	Establish and Maintain Dedicated Computing Resources for All Administrative Work
		13,1	Network	Detect	Centralize Security Event Alerting
		13,2	Devices	Detect	Deploy a Host-Based Intrusion Detection Solution
		13,3	Network	Detect	Deploy a Network Intrusion Detection Solution
		13,4	Network	Protect	Perform Traffic Filtering Between Network Segments
		13,5	Devices	Protect	Manage Access Control for Remote Assets
	100.00	13,6	Network	Detect	Collect Network Traffic Flow Logs
Article 21.2 f) Policies and procedures to assess the effectiveness of cybersecurity risk-	ISMS:	18,1	N/A	Identify	Establish and Maintain a Penetration Testing Program
management measures	9.1 Monitoring, measurement, analysis and evaluation				

	NIS2 vs ISO 27001:20	ZZ VS C	15 V8		
NIS 2	ISO 27001:2022	CIS Cont	rols v8	ı	
	9.2 Internal audit	18,2	Network	Identify	Perform Periodic External Penetration Tests
	9.3 Management review	18,3	Network	Protect	Remediate Penetration Test Findings
	Annex A. Information security controls reference:	18,4	Network	Protect	Validate Security Measures
	5.35 Independent review of information security	18,5	N/A	Identify	Perform Periodic Internal Penetration Tests
	5.36 Compliance with policies, rules and standards	16,3	Applications	Protect	Perform Root Cause Analysis on Security
	for information security	11.5		Danner	Vulnerabilities
Article 21.2 g)	ISMS:	11,5	Data	Recover	Test Data Recovery
Basic computer hygiene practices and		1,1	Devices	Identify	Establish and Maintain Detailed Enterprise Asset Inventory
cybersecurity training	7.2 Competence 7.3 Awareness	1,2	Devices	Respond	Address Unauthorized Assets
	7.4 Communication				Establish and Maintain a Software
		2,1	Applications	Identify	Inventory
	Annex A. Information security controls reference:	2,2	Applications	Identify	Ensure Authorized Software is Currently Supported
	 6.3 Information security awareness, education and training 	2,3	Applications	Respond	Address Unauthorized Software
		3,2	Data	Identify	Establish and Maintain a Data Inventory
		3,3	Data	Protect	Configure Data Access Control Lists
		4,1	Applications	Protect	Establish and Maintain a Secure Configuration Process
		4,2	Network	Protect	Establish and Maintain a Secure Configuration Process for Network Infrastructure
		4,3	Users	Protect	Configure Automatic Session Locking on Enterprise Assets
		4,4	Devices	Protect	Implement and Manage a Firewall on Servers
		4,5	Devices	Protect	Implement and Manage a Firewall on End- User Devices
		4,6	Network	Protect	Securely Manage Enterprise Assets and Software
		5,1	Users	Identify	Establish and Maintain an Inventory of Accounts
		5,2	Users	Protect	Use Unique Passwords
		5,3	Users	Respond	Disable Dormant Accounts
		5,4	Users	Protect	Restrict Administrator Privileges to Dedicated Administrator Accounts
		6,1	Users	Protect	Establish an Access Granting Process
		6,2	Users	Protect	Establish an Access Revoking Process
		6,3	Users	Protect	Require MFA for Externally-Exposed Applications
		6,4	Users	Protect	Require MFA for Remote Network Access
		6,5	Users	Protect	Require MFA for Administrative Access
		8,2	Network	Detect	Collect Audit Logs
		9,1	Applications	Protect	Ensure Use of Only Fully Supported
		9,2	Network	Protect	Browsers and Email Clients
		9,2	Network	Protect	Use DNS Filtering Services Deploy and Maintain Anti-Malware
		10,1	Devices	Protect	Software
		10,2	Devices	Protect	Configure Automatic Anti-Malware Signature Updates
		10,3	Devices	Protect	Disable Autorun and Autoplay for Removable Media
		11,1	Data	Recover	Establish and Maintain a Data Recovery Process
		11,2	Data	Recover	Perform Automated Backups
		14,1	N/A	Protect	Establish and Maintain a Security Awareness Program
		14,9	N/A	Protect	Conduct Role-Specific Security Awareness and Skills Training
Article 21.2 h) Policies and procedures regarding the use of cryptography and, where appropriate,					
encryption	Annex A. Information security controls reference:	3,6	Devices	Protect	Encrypt Data on End-User Devices
	· 8.24 Use of cryptography	3,9	Data	Protect	Encrypt Data on Removable Media
		3,10	Data	Protect	Encrypt Sensitive Data in Transit
		3,11	Data	Protect	Encrypt Sensitive Data at Rest
		4,9	Devices	Protect	Configure Trusted DNS Servers on Enterprise Assets
		12,3	Network	Protect	Securely Manage Network Infrastructure
		12,6	Network	Protect	Use of Secure Network Management and Communication Protocols
					·

	NIS2 vs ISO 27001:2022 vs CIS v8					
NIS 2	ISO 27001:2022	CIS Con	trols v8			
		12,7	Devices	Protect	Ensure Remote Devices Utilize a VPN and are Connecting to an Enterprise's AAA Infrastructure	
Article 21.2 i) Human resources security, access control policies and asset management	ISMS:	5,1	Users	Identify	Establish and Maintain an Inventory of Accounts	
9	Annex A. Information security controls reference:	5,2	Users	Protect	Use Unique Passwords	
	5.2 Information security roles and responsibilities	5,3	Users	Respond	Disable Dormant Accounts	
	• 5.3 Segregation of duties	5,4	Users	Protect	Restrict Administrator Privileges to Dedicated Administrator Accounts	
	· 6.1 Screening	5,5	Users	Identify	Establish and Maintain an Inventory of Service Accounts	
	6.2 Terms and conditions of employment	5,6	Users	Protect	Centralize Account Management	
	 6.3 Information security awareness, education and training 	6,1	Users	Protect	Establish an Access Granting Process	
	· 6.4 Disciplinary process	6,2	Users	Protect	Establish an Access Revoking Process	
	 6.5 Responsibilities after termination or change of employment 	6,3	Users	Protect	Require MFA for Externally-Exposed Applications	
	6.6 Confidentiality or non-disclosure agreements	6,4	Users	Protect	Require MFA for Remote Network Access	
	· 6.7 Remote working	6,5	Users	Protect	Require MFA for Administrative Access	
	· 7.7 Clear desk and clear screen	6,6	Users	Identify	Establish and Maintain an Inventory of Authentication and Authorization Systems	
	· 5.15 Access control	6,7 6,8	Users Data	Protect	Centralize Access Control Define and Maintain Role-Based Access	
	· 5.16 Identity management	13,9	Devices	Protect Protect	Control Deploy Port-Level Access Control	
	· 5.17 Authentication information		•	=4		
	· 5.18 Access rights					
	· 8.2 Privileged access rights					
	8.3 Information access restriction					
	· 8.4 Access to source code					
	· 8.5 Secure authentication					
	5.9 Inventory of information and other associated assets 5.10 Acceptable use of information and other associated assets 5.11 Return of assets					
	7.9 Security of assets off-premises					
	· 7.10 Storage media					
	7.14 Secure disposal or re-use of equipment					
	· 8.1 User endpoint devices	-				
Article 21.2 j) The use of multi-factor authentication or continuous authentication solutions, secured voice, video and text						
communications and secured emergency communications systems within the entity,					Require MFA for Externally-Exposed	
where appropriate	Annex A. Information security controls reference:	6,3	Users	Protect	Applications	
	· 5.14 Information transfer	6,4	Users	Protect	Require MFA for Remote Network Access	
	· 5.16 Identity management	6,5	Users	Protect	Require MFA for Administrative Access	
	· 5.17 Authentication information	6,6	Users	Identify	Establish and Maintain an Inventory of Authentication and Authorization Systems	
	8.5 Secure authentication	6,7	Users	Protect	Centralize Access Control	
		17,6	N/A	Respond	Define Mechanisms for Communicating During Incident Response	
Other						
Article 21.3	Annex A. Information security controls reference:		Bv:	Harry van	der Plas, CISO, LA 27001	
Secure development procedures	8.25 Secure development life cycle		-,:		nagement-projects.nl	
	8.26 Application security requirements			www.iiiai	lagement projects.iii	
	8.27 Secure system architecture and engineering principles					
	8.28 Secure coding		Sources:	Andrey D	rozorov	
	8.29 Security testing in development and acceptance	_	Jources.	•		
	8.30 Outsourced development			www.pat	reon.com	
	8.31 Separation of development, test and production policements			Laura Kat	a & Tom Moester	
	environments 8.32 Change management				tandhackett.com	
	8.33 Test information			27 77 77 IUI		

Page: 4 / 5 28-12-2023 NIS2 vs ISO27001-2022 vs CIS v1.xlsx

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8.33 Test information

10.2 Nonconformity and corrective action

Article 21.4

Appropriate and proportionate corrective measures (if not comply)

NIS 2 ISO 27001:2022 CIS Controls v8