

Final Action Plan -Industry Cybersecurity Strategy

Priority action	Code	Manner of Implementation	Activity	Traceability in CyAP	Traceability in Strategy	Mapped	Rating	Civil aviation participants	Start Date
Establish effective leadership, governance, and regulation	P1.1	Adoption of the ICAO Cybersecurity strategy and implementation of Cybersecurity Action Plan -CyAP		CyAP 0.2	1.2		HIGH	Industry Regulator	2021
	P1.2	Develop, review and improve harmonisation of regulation, standards, and best practices to achieve efficiency and consistency – to ensure cyber-risk landscape	Review and amendment NASP Develop relevant supportive mechanism	CyAP 1.7 CyAP 1.11	6.4 6.2	P1.1	HIGH	Regulator	2020
	P1.3	Development of cybersecurity policies to facilitate compliance	Cybersecurity policies for cybersecurity concepts	CyAP 4.1	9.1	P1.2	MEDIUM	Industry	2022
	P1.4	Create, review and amend guidance material concerning the implementation of cybersecurity requirements	Acceptance of cybersecurity guidance material	CyAP 3.5	8.1	P1.1	HIGH	Regulator	2022
	P1.5	Develop criteria and level of appropriateness at governmental level	Review the criteria defined to establish interaction	CyAP 1.8	6.7 6.2 11.2	P1.2	HIGH	Regulator	2022
	P1.6	Establish supportive mechanism for cybersecurity in civil aviation	Develop cybersecurity programmes -	CyAP 1.9	6.8	P1.7 P1.3	HIGH	Regulator	2022

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			Awareness, events and international cooperation						
P1.7	Ensure senior management support and commitments	Commitments declaration and defined responsibilities	CyAP 4.2	9.1	P1.2	MEDIUM	Regulator Industry	2021	
P1.8	Develop an industry point of contact to coordinate and share critical information	Establish a civil aviation cybersecurity technical advisory committee/FORUM	CyAP 1.9 CyAP 4.6 CyAP 5.6	6.8 9.1 10.4	P1.4 P1.2	HIGH	Regulator Industry	2021	
		Identify the nodal point	CyAP 5.6	10.4	P1.8	HIGH	Regulator	2022	
P1.9	Ensure civil aviation industry participation and engagements	Publish Records of efforts initiative engagement and partnerships	CyAP 1.10	6.4	P1.6 P1.7		Regulator Industry	2021	
P1.10	Development of a TRUST framework	Establish a TRUST framework for the entire industry	CyAP 1.12	6.2.2	P1.1 P1.6	HIGH	Regulator Industry	2022	
		Develop procedures to support the implementation and use of the TRUST Framework	CyAP 1.12	6.2.2	P1.9	HIGH	Regulator Industry	2022	

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	P1.11	Review and analysis of legislative and regulation provisions in air law for the prevention, prosecution, and timely reaction to cyber-incidents to form the basis for consistent and coherent implementation of cybersecurity legislation and regulations	Identification and amendment of relevant regulatory gaps	CyAP 3.3	8.2	P1.2 P1.10	HIGH	Regulator	2022
			Create platform for engagements on identified gaps through forums	CyAP 3.3 CyAP 4.6	8.3 9.2	P1.6	HIGH	Regulator	2022
Secure information infrastructure systems	P2.1	Development of guidance material to support civil aviation industry in implementing ISMS and assessing maturity	Identification and classification of information infrastructure systems and its information data	CyAP 2.3	7.3.2 9.1	P1.2 P1.3	HIGH	Regulator	2022
			Review and analysis of security gaps and procedures	CyAP 2.3 CyAP 3.4	7.3.2 9.1 8.1	P2.1 P1.10	MEDIUM HIGH	Regulator Industry	2022/ 23
			Develop Information security management principles	CyAP 2.3	7.3	P1.10	HIGH	Industry	2022
	P2.2	Encourage coordination mechanism amongst civil aviation and cybersecurity participants	Records of annual intervention	CyAP 2.4	7.3	P1.8 P1.9	HIGH MEDIUM	Regulator	2022

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	P2.3	Develop cybersecurity audit programmes	Develop criteria and checklist	CyAP 2.7	7.3 6.2	P2.1	HIGH	Regulator Industry	2022	
			Develop policy guidelines for cybersecurity domains	CyAP 2.7	7.3 6.2	P2.1 P1.1 P1.10	HIGH	Regulator Industry	2022	
	P2.4	Incident management and emergency planning	Establish and test incident response plan	CyAP 6.1	11.1	P2.1 P4.1	HHIGH	Regulator Industry	2023	
			Conduct a Business impact analysis	CyAP 6.1	11.3	P2.3 P4.1	HIGH	Industry	2023	
			Establish recovery capabilities	CyAP 6.1	11.2	P2.4	HIGH	Industry	2023	
			Coordination of civil aviation and cyber security incident scheme	CyAP 6.1	11.2	P2.4	HIGH	Regulator Industry	2023	
				Establishment of incident management guidance and response capability	CyAP 6.1	11.1	P2.4	HIGH	Regulator Industry	2023
				Outline and follow up plan for contingency plans	CyAP 6.1	11.2	P2.4	HIGH	Regulator Industry	2023
				Establish guidance for incident notification,	CyAP 6.1	11.2	P2.4	HIGH	Regulator Industry	2023

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			analysis, and response mechanism						
			Establish crisis coordination capability with procedures	CyAP 6.1 CyAP 2.8	11.2	P2.4	HIGH	Regulator Industry	2023
			Perform periodic tabletop exercises	CyAP 6.1	11.2	P2.4	HIGH	Industry	2023
			Register lessons learned	CyAP 6.1	11.2	P2.4	HIGH	Regulator Industry	2024
			Implement maturity capability	CyAP 6.1	11.3	P2.4	HIGH	Industry Regulator	2024
	P2.5	Development a policy for secure life cycle of aviation systems	Performing assessment and test for secure life cycle of aviation systems	CyAP 4.5	9.2	P4.5	MEDIUM	Regulator Industry	2022
Information Privacy and data security management	P3.1	Development of the information sharing guide	Adoption of the information sharing guide by industry participants	CyAP 5.2	10.2	P5.4	HIGH	industry	2022
			Development criteria of information to be shared	CyAP 5.3	10.1 10.2	P5.5	HIGH	Regulator	2022
			Adoption of the use of Traffic light protocol to	CyAP 5.4	10.1	P5.4	HIGH	Industry	2023

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			assist in distribution and sharing of information						
			Establish a culture of sharing vulnerabilities, threats, events and best practice with industry	CyAP 5.3	10.1	P5.5	HIGH	Industry Regulator	2022
	P3.2	Developments of external party agreement to ensure privacy and security is maintained	Third party audit and agreements	CyAP 5.1	10.2	P4.5	HIGH	Industry	2022
<i>To adopt a cybersecurity risk management approach to aid in decision making and accountability</i>	P4.1	Develop criteria for trans-organisation risk assessments	Formulate objectives for RA	CyAP 4.4	6.6 9.2	P4.4	HIGH	Regulator Industry	2022
			Ensure that cyber risk assessment is performed	CyAP 4.4	6.6 9.2	P2.1	HIGH	Regulator Industry	2022
	P4.2	Establish an inventory of existing civil aviation cybersecurity risk management initiatives	Conducting Risk management activities	CyAP 4.7	9.2	P2.3	HIGH	Regulator industry	2022
			Establish a cyber risk profile	CyAP 4.8	9.2	P2.3	HIGH	Regulator Industry	2022
			Establish a risk register	CyAP 4.7	9.2	P2.3	HIGH	Regulator	2022
		Develop cyber risk scenarios	Register risk scenarios relevant to civil aviation	CyAP 4.8	9.3	P4.1	HIGH	Regulator Industry	2022
<i>Increased awareness and</i>	P5.1		Records of interaction with partners	CyAP 4.3	9.2 6.1.1	P2.1	HIGH	Regulator industry	2022

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development of cybersecurity culture		Promote cybersecurity research and development through civil aviation partnership	Identify initiative to promote cyber knowledge	CyAP 4.3	9.2 6.1.1	P2.1	HIGH	Regulator Industry	2022
	P5.2	Develop civil aviation cybersecurity culture and training	Establish appropriate training intervention	CyAP 7.1 CyAP 7.3	12.1	P1.6	MEDIUM	Regulator industry	2023
			Register identified cybersecurity training gaps	CyAP 7.2 CyAP 7.4	12.1	P1.9	HIGH	Regulator Industry	2023