European Cyber security for aviation Standards Coordination Group (ECSCG) Rolling Development Plan (RDP)

C-RDP

V4.0

As defined in its Terms of Reference, the ECSCG is a joint coordination and advisory group established to coordinate the standardisation activities related to civil aviation cyber security. The RDP is periodically updated to reflect the current situation. It may therefore not be exhaustive in some areas. Its contents should be used for information purposes only and should not be used as any regulatory reference.

Standards related to UAS are covered by the European UAS Standards Coordination Group (EUSCG). The EUSCG U-RDP is available at www.euscg.eu Standards related to ATM are covered by the European ATM Standards Coordination Group (EASCG). The EASCG A-RDP is available at www.euscg.eu This document can be downloaded from https://ecscg.eu/rdp/

26/07/2022

FOREWORD

The ECSCG is a joint coordination and advisory group established to coordinate the cyber security for aviation related standardisation activities. One of the tasks of the ECSCG is to develop, monitor and maintain an overarching European cyber security for aviation standards rolling development plan, in particular for those standards aimed at providing means to comply with cyber security rules under development initially based on the existing material contained in ER- 017.

The Rolling Development Plan intends:

- 1. to provide a table identifying European cyber security for aviation standards,
- 2. to ensure that the information is expressed in a way that is accessible and usable
- 3. to develop a format that can be updated in a structured fashioned

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Date of Approval: 1 June 2022

| Standards relat | ed to ATM are covered by the European AT | M Standards | Coordination Gr | roup (EASCG). | The EASCG | RDP is avai | ilable at www.eascg.eu | 1 | | | | | | | | | | | | | | | | | |
|-----------------|---|----------------------|-------------------------------------|--------------------------|-----------|-------------------|--|--------------------------------|---|-----------|--------|----------------------------------|---|---|---|---|--------------------------------|--------------------|--|--|-----------------------------|----------------------|---|---------------------|---|
| | ST. | ANDARDISAT | FION | | | | | REGULAT | ION | | | 2. Irustwortniness 3. Privacy | | 5. Risk assessment 6. Cyber resilience requirements | 7. Transorganisational security requirements and interfaces | Civil-military interoperability, secure data exchange | 9. Supply chain cyber security | 11. Cloud security | pment & Production Process Security | 13. Product security Cober security varification | nd vulnerability management | . Operation security | I7. Security incident, Event Management, Incidence Response and Recovery Management | Information sharing | Comment |
| Domain | Standardisation activity | Reference | Standardisati on organisation | for standard publication | | Joint activity | Regulatory activity | Regulatory organisatio n | Target date for regulatory material publication | Status | 1. Cyt | | | 6. Cvbe | 7. Tran requi | 8. Civil-milita | 9. Sup | | 12. Development 8 Se | 14 50 | 15. Risk ar | 16 | 17. Security Incidenc | 18. | |
| | | | | AER | ODROME | | | | | | | | | | | | | | | | | | | | |
| Aerodrome | New Guide for Best Practices, Minimum Requirements, and General Recommendations for Reliable, Cyber Secure, and Upgradable Security Control Systems | ASTM WK44589 | ASTM | TBD | Ongoing | | | | | | | | x | x | | | | | | | | x | | | Focus on detention facility cyber security requirements - may have relevance to aerodrome security |
| | | | | AIF | RCRAFT | | | | | | | | | | | | | | | | | | | | |
| Aircraft | Onboard Secure WiFi Network Profile Standard | ARINC A687 | ARINC | 2021 | Published | | | | | | | x | | х | 1 | | | | | x | | | | | |
| Aircraft | Internet Protocol Suite (IPS) for Aeronautical Safety Services | ARINC A858 | ARINC | 2021 | Published | | | | | | | х | | х | : | | | | | х | | | | | |
| Aircraft | Intersystem Network Integration | ARINC A688 | ARINC | 2021 | Published | | | | | | | х | | х | | | | | | Х | | | | | |
| Aircraft | Aircraft Data Interface Function (ADIF) | ARINC 834-8 | ARINC | 2021 | Published | | | | | | | x | | × | 1 | | | | | x | | | | | |
| Aircraft | Guidance for Security Event Logging in an IP Environment | ARINC 852 | ARINC | 2017 | Published | | | | | | | | | | х | | , | x | х | x | | | х | | |
| Aircraft | Guidance for Security of Loadable Software Parts Using Digital Signatures | ARINC 835- 1 | ARINC | 2014 | Published | | | | | | | | | | | | x | | | x | | | | | |
| Aircraft | Guidance for Usage of Digital Certificates | ARINC 842- 1 | ARINC | 2013 | Published | | | | | | | | | | х | | x x | x | х | x | | | | | |
| Aircraft | Datalink Security Part 1 - ACARS Message Security | ARINC 823P1 | ARINC | 2007 | Published | | | | | | | | | | | | | | | x | | | | | |
| Aircraft | Commercial Aircraft Information Security Concepts of Operation and Process Framework | ARINC 811 | ARINC | 2005 | Published | | | | | | | | | | | | | | | x | | | | | Old and more of a process framework, so added for the sake of completeness than for relevance. |
| Aircraft | New Practice for Aircraft Systems Information Security Protection | ASTM F3532 - 22 | ASTM F44.50 | 2022 | Published | | | | | | х | | | x | | | | | | x | х | | | | |
| Aircraft | Aviation Industry Standards for Digital Information Security | ATA 42 rev 2020.1 | ATA (now A4E) | 2020 | Published | | | | | | | | | | x | | 3 | x | х | x | | | | | |
| Aircraft | | | | | | | Special Conditions and AMC/GM for VTOL | EASA | 2021 | Published | | | | x | | | | | х | x > | х | x | х | | Special Conditions for VTOL includes requirements for cybersecurity for Enhanced Category VTOL |
| Aircraft | | | | | | | Rule Making Task.0648 | EASA | 2020 | Published | | | | x | | | | | | x x | x | x | х | | Update of Certification Specifications and AMC to include Cybersecurity objectives and considerations for products. Certification specification CS-25, CS-23, CS-29, CS-27, CS- P, CS-E, CS-ETSO and AMC 2042 NPA 102019 ED 2020/006/R released updating CS-23, CS- 25, CS-27, CS-29, CS-E, CS-P, CS-APU, CS-ETSO and Part 21. Issue of AMC 20-42 |
| Aircraft | Information security guidance for VTOL and collaborative systems | WG-112 ED-xxx | EUROCAE WG-112 | 2021 | Draft | | | | | | x | x | | x | | | | | | x | | | | | |
| Aircraft | Information Security Guidance For Continuing Airworthiness | ED-204A | EUROCAE WG-72 | 2020 | Published | RTCA DO- 355A | | _ | | | х | | х | | | | x 3 | x | | | х | x | х | х | |
| Aircraft | Airworthiness Security Process Specification | ED-202A | EUROCAE WG-72 | 2014 | Published | RTCA DO- 326A | | | | | x | | | x x | 1 | | | | | x | | | | | |
| Aircraft | Airworthiness Security Methods And Considerations | ED-203A | EUROCAE WG-72 | 2018 | Published | RTCA DO- 356A | | | | | х | x | | x x | 1 | | 2 | x | | x | x | | | x | |

| | ST | 'ANDARDISAT | rion | | | | | REGULATI | | | Cybersecurity Terminology | 2. Trustworthiness | 4. Oversight | 5. Risk assessment | 3. Cyber resilience requirements 7. Transorganisational security | | exchange | Supply chain cyber security Maintenance (MRO) Security | 2 5 | Security Security | Cyber security verification | and vulnerability management | 5. Operation security Incident: Event Management. | Incidence Response and Recovery Management | |
|----------|--|----------------------|-------------------------------------|--|-----------------|-------------------|---------------------|--------------------------------|---|--------|---------------------------|--------------------|--------------|--------------------|---|---|----------------|--|-----------|----------------------|-----------------------------|------------------------------|---|--|--|
| Domain | Standardisation activity | Reference | Standardisati on organisation | Target date for standard publication | Status | Joint activity | Regulatory activity | Regulatory organisatio n | Target date for regulatory material publication | Status | 1. Cyl | | | ì | 6. Cyber 7. Trans | ä | 9. CIVII-IIIII | 9. Supp 10. Maint | 12 Develo | | 14. C) | 15. Riskaı | 16 17. Security | ncidenc | 2 |
| Aircraft | MASPS for AMS(R)S Data and Voice Communications Supporting Required Communications Performance (RCP) and Required Surveillance Performance (RSP) | ED-242D | EUROCAE WG-82 | 2023 | Draft | RTCA DO- 343E | | | | | | | | | | | | | | × | C | | x | | Details are captured in EASCG RDP (www.eascg.eu). |
| Aircraft | MASPS for AMS(R)S Data and Voice Communications Supporting Required Communications Performance (RCP) and Required Surveillance Performance (RSP) | ED-242C | EUROCAE WG-82 | 2021 | Published | RTCA DO- 343D | | | | | | | | | | | | | | × | C | | × | | Details are captured in EASCG RDP (www.eascg.eu). |
| Aircraft | Process management for avionics – Counterfeit prevention – Part 1: Avoiding the use of counterfeit, fraudulent and recycled electronic components | IEC 62668-1 | IEC | 2019 | Published | | | | | | | | | | | | | x | | | | | | | |
| Aircraft | Process management for avionics – Counterfeit prevention – Part 2: Managing electronic components from non-franchised sources | IEC 62668-2 | IEC | 2019 | Published | | | | | | | | | | | | | x | | | | | | | |
| Aircraft | Process management for avionics – Management plan – Part 1: Preparation and maintenance of an electronic components management plan | IEC 62239-1 | IEC | 2018 | Published | | | | | | | | | | | | | x | | | | | | | Not directly cyber standard but support ED-203A on establishing an ECMP to avoid counterfeit and other suspect components. |
| Aircraft | Process management for avionics – Management plan – Part 2: Preparation and maintenance of an electronic COTS assembly management plan | IEC TS 62239-2 | IEC | 2017 | Published | | | | | | | | | | | | | x | | | | | | | Not directly cyber standard but support ED-203A on establishing an ECMP to avoid counterfeit and other suspect components. |
| Aircraft | Counterfeit Electrical, Electronic, and Electromechanical (EEE) Parts; Avoidance, Detection, Mitigation, and Disposition | SAE AS 5553D | SAE | 2022 | Published | | | | | | | | | | | | | x | | | | | | | |
| Aircraft | Cybersecurity for Propulsion Systems | SAE AIR7368 | SAE | 2022 | Draft | | | | | | | | | | x | | | | | х | (| | | | |
| Aircraft | Requirements for an Electronic Components Management Plan | SAE EIA STD 4899C | SAE | 2017 | Published | | | | | | | | | | | [| _ | x | | | | | | | |
| Aircraft | Requirements for a COTS Assembly Management Plan | SAE EIA 993C | SAE | 2020 | Published | | | | | | | | | | | | | х | | | | | | | |
| Aircraft | Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition - Authorized/Franchised Distribution | SAE AS 6496 | SAE | 2014 | Published | | | | | | | | | | | | | x | | | | | | | |
| Aircraft | Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition - Distributors | SAE AS 6081 | SAE | 2012 | Published M/ANS | | | | | | | | | | | | | x | | | | | | | |
| ATM/ANS | Air Traffic Management - Information security for organisations supporting civil aviation operations | EN 16495 | CEN | 2019 | Published | ISO/IEC | | | | | | | | х | х | | х | | П | х | | | | х | European Standard |
| ATM/ANS | Air Traffic Management - Specification for software assurance levels | CEN/TS 16501 | CEN | 2013 | Published | ISO/IEC | | | | | | | | | | | | | | | | | | | Technical Specification |

| | ST | ANDARDISAT | rion . | | | | | REGULATI | ON | | Cybersecurity Terminology | 2. Trustworthiness | 4. Oversight | Risk asse | 5. Cyber resilience requirements 7. Transorganisational security | requirements and interfaces Civil-military interoperability, secure data | exchange ply chain cyber security | 힐힐 | 11. Cloud security . Development & Production Process . Security | 13. Product security | Cyber security verification | Operation security | Incident, Ev Response | Management 18. Information sharing | Comment |
|-------------|--|-----------------------------------|-------------------------------------|--|-----------|-------------------|---|--------------------------------|---|---------|---------------------------|--------------------|--------------|-----------|---|---|--------------------------------------|---------|--|----------------------|-----------------------------|--------------------|--------------------------|---------------------------------------|--|
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| ATM/ANS | Interoperability of Flight Data Processing (Air Traffic Control - Air Traffic Control) for application under the Single European Sky - Interoperability Regulation EC 552/2004 | CEN/TS 16071 | CEN | 2010 | Published | ISO/IEC | | | | | | | | | | x | : | | | | | | | | Technical Specification |
| ATM/ANS | Security Certification and Declaration of ATM ANS Ground Systems | ED-205A | EUROCAE WG-72 | 2022 | Published | RTCA / DO-393 | | | | | x | | x | x | x x | x | : | | | | 2 | x x | | x | |
| ATM/ANS | Security Management Handbook - A Framework | Edition 1.0, May 2008 | EUROCONTR OL | 2008 | Published | | | | | | | | | х | | х | | | | | , | ĸ | | | |
| ATM/ANS | ICT Security Guidance | Edition 1.0, May 2008 | EUROCONTR OL | 2008 | Published | | | | | | х | | х | х | х | | | | | | x 2 | x x | | | |
| ATM/ANS | ATM Security Risk Management Toolkit - Guidance Material | Edition 1.0, September 2010 | EUROCONTR OL | 2010 | Published | | | | | | | | | x | | х | : | | | | , | ĸ | | | |
| ATM/ANS | ATM Security Risk Management Toolkit - Guidance Material - Appendices | Edition 1.0, September 2010 | EUROCONTR OL | 2010 | Published | | | | | | | | | x | | x | : | | | | 3 | ĸ | | | |
| ATM/ANS | Manual for National ATM Security Oversight | Edition 3.0, December 2016 | EUROCONTR OL | 2016 | Published | | | | | | | | x | | | х | | | | | | | | | |
| ATM/ANS | ATM Security Policy - Guidelines for Implementation | 2010 | EUROCONTR OL/NATO | 2015 | Published | NATO | | | | | | | | х | | х | : | | | | 3 | ĸ | | | ATM Security Coordination Group, (NEASCOG) |
| ATM/ANS | Security Risk Assessment Methodology for SESAR 2020 (SecRAM 2.0 + corresponding catalogue) | | SESAR 2020 | TBC | Published | | | | | | x | | | x | x | x | | | x | | 3 | к х | | | Internal S2020 standard |
| | Supplement 3 to ARINC REPORT 667: | ARINC 667 | | TRAN | SVERSAL | | | | | | | | | | | | | | | | | | | | |
| Transversal | GUIDANCE FOR THE MANAGEMENT OF FIELD LOADABLE SOFTWARE | Supplement 3 | ARINC | 2022 | Draft | | | | | | | | | | | | х | х | х | x | | | | | A667-3 will include requirements for securely managing operation of dataloaders and handling software |
| Transversal | Supplement 1 to ARINC Report 645: Common Terminology and Functions for Software Distribution and Loading | ARINC 645 Supplement 1 | ARINC | 2021 | Published | | | | | | | | | | x | | x | x | x | x | | | | | Applies to manufacturers and operators. A645-1 includes definition and technical requirements for secure dataloaders. |
| Transversal | Electronic Distribution of Software by Crate (EDS Crate) | ARINC 827 | ARINC | 2010 | Published | | | | | | | | | | > | | х | x | x | x | | | | | |
| Transversal | Standard Guide for Cybersecurity and Cyberattack Mitigation | ASTM F3286 17 | ASTM | 2017 | Published | | | | | | | | | | | | | | | | | | х | | |
| Transversal | | | | | | | ESCP - Regulatory Processes Work Stream | EASA | 2021/4Q | Ongoing | х | x | x | x | x > | x | x | x | x | | 3 | x x | х | х | Coordinating the discussion about Rule Making Task.0720 (aka "horizontal rule") - Implementing Rule NPA June 2019, Opinion 2Q2020 |
| Transversal | | | | | | | ESCP - Regulatory Processes Work Stream | EASA | 2021/4Q | Ongoing | х | x | x | x | x > | х | x | x | x | | , | x x | х | x | Coordinating the discussion about Rule Making Task.0720 (aka "horizontal rule") - AMC |
| Transversal | Guidance On Security Event Management | ED-206 | EUROCAE WG-72 | 2022 | Published | RTCA DO- 392 | | | | | | | | | x | x | | | | | , | x x | х | x | ED-XXX ISEM will provide more detailed guidance than F3286-17 and tailloring toward proposed regulation. F3286-17 "Standard Guide for Cybersecurity and Cyberattack Mitigation" by ASTM was published 09-Jul-05. |
| Transversal | Aeronautical Information System Security (Aiss) Framework Guidance | ED-201A | EUROCAE WG-72 | 2021 | Published | RTCA DO- 391 | | | | | x | x | | x | x > | x | x | x | x | x | 3 | x x | х | х | |

| | ST | 'ANDARDISAT | TION | | | | | REGULATI | | | 1. Cybersecurity Terminology | 2. Trustworthiness | 3. Privacy 4. Oversight | 5. Risk assessment | G. Cyber resilience requirements Transormanisational security | | nteroperabili exchange | Supply chain cyber security Maintenance (MRO) Security | Cloud securit | Security 13 Product security | 14. Cyber security verification | and vulnerability management | b. Operation security by Incident, Event Management, | Incidence Response and Recovery Management 18. Information sharing | Comment |
|---------------------------------|---|-------------------------|--|--------------------------------------|------------|-------------------|---------------------|--------------------------------|---|--------|------------------------------|--------------------|----------------------------|--------------------|---|-----|---------------------------|--|---------------|-------------------------------|---------------------------------|------------------------------|--|--|--|
| Domain | Standardisation activity | Reference | Standardisati on organisation | Target date for standard publication | Status | Joint activity | Regulatory activity | Regulatory organisatio n | Target date for regulatory material publication | Status | 1. 0, | | | | 6. Cyb | - ' | 8. Civil-mili | 9. Su 10. M | ç | iz. Devel | 14. C | 15. Risk a | 17. Securit | Incider | |
| Transversal | Security Services for Aeronautical Communications | Doc. 10090 | ICAO | 2022 | Draft | | | | | | | | | | | | | | | | | | | | Information to be completed. |
| Transversal | Secure Dialog Service Tech Manual / ConOps / Guidance | Doc. 10094 | ICAO | 2022 | Draft | | | | | | | | | | | | | | | | | | | | Information to be completed. |
| Transversal | PKI SecurityPolicy | Doc. 10095 | ICAO | 2022 | Draft | | | | | | | | | | | | | | | | | | | | Information to be completed. |
| Transversal | Security Risk Assessment for Aeronautical Comm | Doc.10145 | ICAO | 2022 | Draft | | | | | | | | | | | | | | | | | | | | Information to be completed. |
| Transversal | Considerations for Digital Twin Technology and Emerging Standards | NIST IR 8356 | NIST | 2021 | Draft | | | | | | | x | | | | | | | | x > | (| | | | |
| Transversal | Security and Privacy Controls for Information Systems and Organizations | US NIST 800 53 rev.5 | NIST | 2020 | Published | | | | | | х | x | x x | х | x | х | х | x x | x | x x | x | x x | x | | |
| Transversal | Security and Privacy Controls for Federal Information Systems and Organizations | US NIST 800 53 rev.4 | NIST | 2015 | Published | | | | | | х | x | x x | x | x | х | х | x x | x | x > | x | x x | x | | |
| Transversal | Cyber Physical Systems Security Engineering Plan | JA7496 | SAE G-32 Cyber Physical Systems Security | 2022 | Published | | | | | | x | | | x | | x | | x | | x x | • | x | x | x | A cross sector Standard for assessing and addressing vulnerabilities of a cyber physical system to ensure security and reslience throghout the lifecyle of the system. |
| Transversal | Cyber Physical Systems Security Hardware Assurance | JA6801 | SAE G-32 Cyber Physical Systems Security | 2022 | Draft | | | | | | x | | | x | | x | | x | | x | | x x | x | x | |
| Transversal | Cyber Physical Systems Software Assurance. | JA6678 | SAE G-32 Cyber Physical Systems Security | 2022 | Draft | | | | | | x | | | x | | x | | x | | x | • | x | x | x | |
| Other | | all security | | OTHER AVAILA | ABLE STAND | ARDS | | | | | | | | | | | | | П | | | | | | |
| available standards | mobile networks security; 3G, 4G, 5G | work 3G and beyond | .3GPP SA3 | | Published | | | | | | | | | Ш | | x | | | | > | (| | | | |
| Other available standards | Standard Guide for Credentialing for Access to an Incident or Event Site | ASTM E2842 14 | ASTM | 2014 | Published | | | | | | | | x | | | | | | | | |) | x | x | |
| Other available | Protection profiles for secure signature creation device - Part 1: Overview | EN 419211-1 | CEN | 2014 | Published | | | | | | х | | | Ш | | | | | Ш | | | | Ļ | | European Standard |
| Other available standards | Protection profiles for secure signature creation device - Part 2: Device with key generation | EN 419211-2 | CEN | 2013 | Published | | | | | | | | | x | x | x | | | | x | | x | | x | European Standard |
| Other available standards | Protection profiles for secure signature creation device - Part 3: Device with key import | EN 419211-3 | CEN | 2013 | Published | | | | | | | | | | x | х | | | | x | | x | | x | European Standard |

| | ST | ANDARDISAT | TION | | | | | REGULATI | | | Cybersecurity Terminology | 2. Trustworthiness | 3. Privacy 4. Oversight | 5. Risk assessment | er resilience requirements | 7. Transorganisational security requirements and interfaces | Civil-military interoperability, secure data exchange | Supply chain cyber security Maintenance (MRO) Security | 11. Cloud security 12. Development & Production Process | Security 13. Product security | Cyber security verification | and vulnerability management 6. Operation security | 17. Security Incident, Event Management, Incidence Response and Recovery | Management 18. Information sharing | Comment |
|---------------------------------|---|------------------------------|-------------------------------------|--|-----------|-------------------|---------------------|--------------------------------|---|--------|---------------------------|--------------------|----------------------------|--------------------|----------------------------|---|---|--|---|----------------------------------|-----------------------------|--|--|---------------------------------------|-------------------|
| Domain | Standardisation activity | Reference | Standardisati on organisation | Target date for standard publication | Status | Joint activity | Regulatory activity | Regulatory organisatio n | Target date for regulatory material publication | Status | ا. م | | | | 6. Cyb | 7. Tra requ | 8. Civil-milit | 9. Su | 12. Develo | | 14. C | 15. KISK a | 17. Securit Inciden | * | |
| Other available standards | Protection profiles for secure signature creation device - Part 4: Extension for device with key generation and trusted channel to certificate generation application | EN 419211-4 | CEN | 2013 | Published | | | | | | | | | | x | x | | | | x | | x | x | | European Standard |
| Other available standards | Protection profiles for secure signature creation device - Part 5: Extension for device with key generation and trusted channel to signature creation application | EN 419211-5 | CEN | 2013 | Published | | | | | | | | | | x | x | | | | x | | x | х | | European Standard |
| Other available standards | Protection profiles for secure signature creation device - Part 6: Extension for device with key import and trusted channel to signature creation application | EN 419211-6 | CEN | 2014 | Published | | | | | | | | | | x | x | | | | x | | x | x | | European Standard |
| Other available standards | Security requirements for device for authentication - Part 1: Protection profile for core functionality | EN 419251-1 | CEN | 2013 | Published | | | | | | | | | | х | х | | | | x | | x | х | | European Standard |
| Other available standards | Security requirements for device for authentication - Part 2: Protection profile for extension for trusted channel to certificate generation application | EN 419251-2 | CEN | 2013 | Published | | | | | | | | | | x | x | | | | x | | x | х | | European Standard |
| Other available standards | functionality for security targets | EN 419251-3 | CEN | 2013 | Published | | | | | | | | | | x | х | | | | x | | x | х | | European Standard |
| Other available | Protection profile for trustworthy systems supporting time stamping | FprEN 419231 | CEN | 2019 | Ongoing | | | | | | | | | | х | х | | | | х | | x | х | | European Standard |
| Other available standards | Information technology - Security techniques - Information security management systems - Overview and vocabulary (ISO/IEC 27000:2016) | EN ISO/IEC 27000 | CEN and CENELEC | 2017 | Published | ISO/IEC | | | | | x | | | | | | | | | | | | | | European Standard |
| Other available standards | Information technology - Security techniques - Information security management systems - Overview and vocabulary (ISO/IEC 27000:2018) | prEN ISO/IEC 27000 rev | CEN and CENELEC | 2019 | Ongoing | ISO/IEC | | | | | x | | | | | | | | | | | | | | European Standard |
| Other available standards | Information technology - Security techniques - Information security management systems - Requirements (ISO/IEC 27001:2013 including Cor 1:2014 and Cor 2:2015) | EN ISO/IEC 27001 | CEN and CENELEC | 2017 | Published | ISO/IEC | | | | | | x | | x | x | x | | x x | | × | | x | x | | European Standard |
| Other available standards | Information technology - Security techniques - Code of practice for information security controls (ISO/IEC 27002:2013 including Cor 1:2014 and Cor 2:2015) | EN ISO/IEC 27002 | CEN and CENELEC | 2017 | Published | ISO/IEC | | | | | | x | | x | x | x | | x x | | x | | x | x | | European Standard |
| Other available standards | Information technology - Security techniques - Guidelines for identification, collection, acquisition and preservation of digital evidence (ISO/IEC 27037:2012) | EN ISO/IEC 27037 | CEN and CENELEC | 2016 | Published | ISO/IEC | | | | | | x | | x | x | x | | x x | | x | | x | х | | European Standard |
| Other available standards | Information technology - Security techniques - Specification for digital redaction (ISO/IEC 27038:2014) | EN ISO/IEC 27038 | CEN and CENELEC | 2016 | Published | ISO/IEC | | | | | | x | | x | x | х | | x x | | x | | x | х | | European Standard |

| | ST | 'ANDARDISAT | rio n | | | | | REGULATI | ON | | Cybersecurity Terminology | 2. Trustworthiness | 3. Privacy 4. Oversight | ш. | resilience requirements | I ransorganisational security requirements and interfaces | y ii | ply chain cyber security ntenance (MRO) Security | rd secur | Security 3. Product security | ber security verification | d vulnerability management Operation security | r Incident, Event Management, ce Response and Recovery Management | 18. Information sharing | C | comment | |
|---------------------------------|--|------------------------------|-------------------------------------|--------------------------------------|-----------|-------------------|---------------------|--------------------------------|---|--------|---------------------------|--------------------|----------------------------|----|-------------------------|--|------------------|---|----------|---------------------------------|---------------------------|---|---|-------------------------|----------|---------|--|
| Domain | Standardisation activity | Reference | Standardisati on organisation | Target date for standard publication | Status | Joint activity | Regulatory activity | Regulatory organisatio n | Target date for regulatory material publication | Status | 1. Cyb | 2 | | | 6. Cyber | 7. I rans requir | 8. Civil-militar | 9. Supply 10. Mainte | 11. Clor | 13 | 14. Cyber | 15. Risk and | 17. Security In Incidence F | ₩ | | | |
| Other available standards | Information technology - Security techniques - Guidance on assuring suitability and adequacy of incident investigative method (ISO/IEC 27041:2015) | EN ISO/IEC 27041 | CEN and CENELEC | 2016 | Published | ISO/IEC | | | | | | x | | x | x | x | | x x | | x | | x | x | European | Standard | | |
| Other available standards | Information technology - Security techniques - Guidelines for the analysis and interpretation of digital evidence (ISO/IEC 27042:2015) | EN ISO/IEC 27042 | CEN and CENELEC | 2016 | Published | ISO/IEC | | | | | | x | | x | x | x | | x x | | x | | x | х | European | Standard | | |
| Other available standards | Information technology - Security techniques - Incident investigation principles and processes (ISO/IEC 27043:2015) | EN ISO/IEC 27043 | CEN and CENELEC | 2016 | Published | ISO/IEC | | | | | | x | | x | x | x | | x x | | x | | x | x | European | Standard | | |
| Other available standards | Security for industrial automation and control systems - Part 4-1: Secure product development lifecycle requirements | EN IEC 62443-4- 1:2018 | CENELEC | 2018 | Published | IEC | | | | | | x | | x | х | x | | | | х | | x | х | European | Standard | | |
| Other available standards | Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components | FprEN IEC 62443-4-2 | CENELEC | 2019 | Published | IEC | | | | | | x | | | х | x | | | | x | | x | х | European | Standard | | |
| Other available standards | Security for industrial automation and control systems - Part 3-2: Security risk assessment and system design | prEN 62443- 3-2 | CENELEC | 2020 | Published | IEC | | | | | | x | | | х | x | | | | х | | x | x | European | Standard | | |
| Other available standards | Industrial communication networks - Network and system security - Part 3-3: System security requirements and security levels | prEN IEC 62443-3-3 | CENELEC | 2014 | Published | IEC | | | | | | x | | | x | x | | | | x | | x | х | European | Standard | | |
| Other available standards | Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers | prEN 62443- 2-4 | CENELEC | 2017 | Published | IEC | | | | | | x | | x | х | x | | | | x | | x | х | European | Standard | | |
| Other available standards | Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 1: Terminology and basic concepts | EN 61069-1 | CENELEC | 2016 | Published | IEC | | | | | x | | | | | | | | | | | | | European | Standard | | |
| Other available standards | Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 2: Assessment methodology | EN 61069-2 | CENELEC | 2016 | Published | IEC | | | | | | | | x | x | | | | | | | x | х | European | Standard | | |
| Other available standards | Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 3: Assessment of system functionality | EN 61069-3 | CENELEC | 2016 | Published | IEC | | | | | | | | x | x | | | | | | | x | x | European | Standard | | |
| Other available standards | Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 4: Assessment of system performance | EN 61069-4 | CENELEC | 2016 | Published | IEC | | | | | | | | x | x | | | | | | | x | х | European | Standard | | |
| Other available standards | Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 5: Assessment of system dependability | EN 61069-5 | CENELEC | 2016 | Published | IEC | | | | | | | | x | x | | | | | | | x | х | European | Standard | | |

| | ST | TANDARDISAT | TION | | | | | REGULATI | ion | | Cybersecurity Terminology | 2. Trustworthiness | 3. Privacy 4. Oversight | 5. Risk assessment | r resilience requirements | . Transorganisational security requirements and interfaces | Civil-military interoperability, secure data exchange | Supply chain cyber security Maintenance (MRO) Security | 11. Cloud security | Security 3. Product security | er security ve | nd vulnerability management . Operation security | 17. Security Incident, Event Management, | Management 18. Information sharing | Comment |
|---------------------------------|--|--|-------------------------------------|--------------------------------------|-----------|-------------------|---------------------|--------------------------------|---|--------|---------------------------|--------------------|-------------------------|--------------------|---------------------------|--|---|---|--------------------|---------------------------------|----------------|--|--|------------------------------------|-------------------|
| Domain | Standardisation activity | Reference | Standardisati on organisation | Target date for standard publication | Status | Joint activity | Regulatory activity | Regulatory organisatio n | Target date for regulatory material publication | Status | 1. Cyt | | | 1 | 6. Cyber | | 8. Civil-milita | 9. Supply 10. Mainter | olevel Ct | | 4 | 15. Risk and 16. | 17. Security | 181 | |
| Other available standards | Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 6: Assessment of system operability | EN 61069-6 | CENELEC | 2016 | Published | IEC | | | | | | | | x | x | | | | | | | x | , | ĸ | European Standard |
| Other available standards | Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 7: Assessment of system safety | EN 61069-7 | CENELEC | 2016 | Published | IEC | | | | | | | | x | x | | | | | | | x | 2 | ĸ | European Standard |
| Other available standards | Industrial-process measurement, control and automation - Evaluation of system properties for the purpose of system assessment - Part 8: Assessment of other system properties | EN 61069-8 | CENELEC | 2016 | Published | IEC | | | | | | | | x | x | | | | | | | x |) | ĸ | European Standard |
| Other available standards | Global Cyber Security Ecosystem | Doc. Nb. TR 103 306 Ver. 1.3.1 | ETSI /TC CYBER | 2018 | Published | | | | | | х | | | | | | | | | | | | | | |
| Other available standards | Privacy; introductory guide | TR 103 370 | ETSI /TC CYBER | 2019 | Published | | | | | | | | x | | | | | | | | | | | | |
| Other available standards | Privacy; Attribute-based encryption for Attribute Based Access Control | TS 103 532 | ETSI /TC CYBER | 2018 | Published | | | | | | | | x | | | x | | | | | | | | | |
| Other available standards | Privacy; Attribute-based encryption for data protection on smart devices, cloud and mobile services | TS 103 458 | ETSI /TC CYBER | 2018 | Published | | | | | | | | x | | | x | | | | | | | | | |
| Other available standards | Privacy; Mechanisms for privacy assurance and verification | Doc. Nb. TS 103 485 | ETSI /TC CYBER | 2019 | Ongoing | | | | | | | | x | | | | | | | | | | | | |
| Other available standards | Privacy; Identity management and naming schema protection mechanisms | Doc. Nb. TS 103 486 | ETSI /TC CYBER | 2019 | Ongoing | | | | | | | | x | | | | | | | | | | | | |
| Other available standards | Protection measures for ICT in the context of Critical Infrastructure | Doc. Nb. TR 103 303 Ver. 1.1.1 | ETSI /TC CYBER | 2016 | Published | | | | | | | | | | | | | | | | | х | (| | |
| Other available standards | Critical Infrastructure; ICT Metrics for Identification of CI | Ref. DTR/CYBER- 0024 | ETSI /TC CYBER | 2020 | Ongoing | | | | | | | | | Ì | | | | | | | | × | (| | |
| Other available standards | Critical Security Controls for Effective Cyber Defence; | Doc. Nb. TR 103 305-1 Ver. 3.1.1 | ETSI /TC CYBER | 2018 | Published | | | | | | | | | | | | | | | | | x | (| | |
| Other available standards | Critical Security Controls for Effective Cyber Defence; | Doc. Nb. TR 103 305-2 Ver. 4.1.2 | ETSI /TC CYBER | 2022 | Published | | | | | | | | | | | | | | | | | x | (| | |
| Other available standards | Critical Security Controls for Effective Cyber Defence; | Doc. Nb. TR 103 305-3 Ver. 2.1.1 | ETSI /TC CYBER | 2018 | Published | | | | | | | | | | | | | | | | | x | (| | |
| Other available standards | Critical Security Controls for Effective Cyber Defence; | Doc. Nb. TR 103 305-4 Ver. 2.1.1 | ETSI /TC CYBER | 2018 | Published | | | | | | | | | | | | | | | | | x | (| | |
| Other available standards | Critical Security Controls for Effective Cyber Defence; | TR 103 305- 5 | ETSI /TC CYBER | 2018 | Published | | | | | | | | | | | | | | | | | x | (| | |

| | ST | ANDARDISATI | ION | | | | | REGULATI | ON | | Cybersecurity Terminology | 2. Trustworthiness 3. Privacy | 4. Oversight | 5. Risk assessment | | Civil-military interoperability, secure data exchange | Supply chain cyber security Maintenance (MRO) Security | 11. Cloud security | 12. Development & Production Process Security | 13. Product security 14. Cyber security verification | d vulnerability management | . Operation security | Security Incident, Event Management, Incidence Response and Recovery Management | 18. Information sharing | Comment |
|---------------------------------|---|--|-------------------------------------|--|-----------|-------------------|---------------------|--------------------------------|---|--------|---------------------------|-------------------------------|--------------|--------------------|------------------|---|--|--------------------|---|--|----------------------------|----------------------|---|-------------------------|---------|
| Domain | Standardisation activity | Reference | Standardisati on organisation | Target date for standard publication | Status | Joint activity | Regulatory activity | Regulatory organisatio n | Target date for regulatory material publication | Status | 1. Cyb | | | 5. Cyber | 7. Tran requi | 8. Civil-milita | 9. Supply | | 12. Develo | 14. Cy | 15. Risk an | 16. | 17. Security Incidenc | 18. | |
| Other available standards | Secure by Default - platform security technology | Doc. Nb. TR 103 309 Ver. 1.1.1 | ETSI /TC CYBER | 2015 | Published | | | | | | | | | | | | | | х | x | | | | | |
| Other available standards | Structured threat information sharing | Doc. Nb. TR 103 331 Ver. 1.1.1 | ETSI/TC CYBER | 2016 | Published | | | | | | | | | | | | | | | | | | | x | |
| Other available standards | Design requirements ecosystem | Doc. Nb. TR 103 369 Ver. 1.1.1 | ETSI /TC CYBER | 2016 | Published | | | | | | | | | | | | | | | x | | | | | |
| Other available standards | Network Gateway Cyber Defence | Doc. Nb. TR 103 421 Ver. 1.1.1 | ETSI /TC CYBER | 2017 | Published | | | | | | | T | | | | | | | х | | | | | | |
| Other available standards | Middlebox Security Protocol | TS 103 523- | ETSI /TC CYBER | 2019 | Ongoing | | | | | | | | | | х | | | | | | | | | | |
| Other available standards | Middlebox Security Protocol | Doc. Nb. TS 103 523-2 | ETSI/TC CYBER | 2019 | Ongoing | | | | | | | | | | x | | | | | | | | | | |
| Other available standards | Middlebox Security Protocol | TS 103 523- 3 | ETSI /TC CYBER | 2018 | Published | | | | | | | | | | х | | | | | | | | | | |
| Other available standards | Implementation of the Network and Information Security (NIS) Directive | Doc. Nb. TR 103 456 Ver. 1.1.1 | ETSI /TC CYBER | 2017 | Published | | | | | | | | | x | | | | | | | x | | x | x | |
| Other available standards | Quantum Computing Impact on security of ICT Systems; | Doc. Nb. EG 203 310 Ver. 1.1.1 | ETSI/TC CYBER | 2016 | Published | | | | | | | | | | | | | | | | | x | | | |
| Other available standards | Quantum-Safe Cryptography | All published work | ETSI/TC CYBER | 2018 | Published | | | | | | | | x | | | | | | | x | | | | | |
| Other available standards | Quantum-Safe Cryptography | ongoing work | ETSI/TC CYBER | 2019 | Ongoing | | | | | | | | x | | | | | | | x | | | | | |
| Other available standards | Methods and protocols; Threat, Vulnerability, Risk Analysis | Doc. Nb. TS 102 165-1 Ver. 5.2.3 | ETSI /TC CYBER | 2017 | Published | | | | | | | | | х | | | | | | x | | | | | |
| Other available standards | Methods and protocols; Part 2: Protocol Framework Definition; Security Counter Measures | Doc. Nb. TS 102 165-2 | ETSI /TC CYBER | 2019 | Ongoing | | | | | | | | | | | | | | | x | x | | | | |
| Other available standards | Specifying a common interface to transfer sensitive functions to a trusted domain. | Doc. Nb. TS 103 457 | ETSI /TC CYBER | 2018 | Published | | | | | | | | | | х | | | | | | | x | | | |
| Other available standards | Security techniques for protecting software in a white box model | TR 103 642 | ETSI /TC CYBER | 2018 | Published | | | | | | | | | | | | | | | х | | | | | |
| Other available standards | Cyber Security for Consumer Internet of Things | <u>TS 103 645</u> | ETSI /TC CYBER | 2019 | Published | | | | | | | | | | | | | | | x | | | | | |
| Other available standards | Techniques for assurance of digital material used in legal proceedings. | TS 103 643 | ETSI /TC CYBER | 2019 | Ongoing | | | | | | | x | | | | | х | | | | | | | | |
| Other available standards | Cryptography: Guide to Identity Based Encryption | DTR/CYBER- 0045 | ETSI /TC CYBER | 2020 | Ongoing | | | | | | | | | | x | | | | | x | | | | | |

| | ST | 'ANDARDISAT | rion | | | | | REGULATI | ON Target date | | Cybersecurity Terminology | 2. Trustworthiness | 4. Oversight | 5. Risk assessment Cyber resiliance requirements | 7. Transorganisational security requirements and interfaces | Civil-military interoperability, secure data exchange | Supply chain cyber security | 10. Maintenance (MRO) Security 11. Cloud security | lopment & Production Process Security | 13. Product secunty Cyber security verification | and vulnerability management | 16. Operation security Security Incident, Event Management, | ance Response and Recovery Management 18 Information sharing | Comment |
|---------------------------------|---|--|-------------------------------------|--|-----------|-------------------|---------------------|--------------------------------|-------------------------------------|--------|---------------------------|--------------------|--------------|---|---|---|-----------------------------|---|--|---|------------------------------|---|--|--|
| Domain | Standardisation activity | Reference | Standardisati on organisation | Target date for standard publication | Status | Joint activity | Regulatory activity | Regulatory organisatio n | for regulatory material publication | Status | 1. C | | | 100 | 7. Tra | 8. Civil-milli | 9. Si | 10. M | 12. Deve | 14. 0 | 15. Risk | 17. Securi | Incide | |
| Other available standards | Information Security Indicators | All published work | ETSI/ISG ISI | 2019 | Published | | | | | | | | | | | | | | | | x : | x | | |
| Other available standards | Digital signatures: creation and validation (formats, procedures, sign policies) | All published work | ETSI/TC ESI | 2019 | Published | | | | | | | | | | x | | x | | x | | | | | |
| Other available standards | Digital signatures: formats conformance checkers (free access) | Sign format conformance checkers | ETSI/TC ESI | NA | Published | | | | | | | | | | | | | | x | | | | | |
| Other available standards | Digital signatures; Trust Service Providers Supporting Digital Signatures (audit req, conformity assessment, protocols for remote signature creation and validation) | All published work | ETSI/TC ESI | 2019 | Published | | | | | | | | | | x | | | | | | | | | |
| Other available standards | Digital signatures: Cryptographic suites | TS 119 312 | ETSI/TC ESI | 2019 | Published | | | | | | | | | | x | | | | | x | | | | |
| Other available standards | Digital Signatures: registered eDelivery services | All published work | ETSI/TC ESI | 2019 | Published | | | | | | | | | | x | | | | | | | | | |
| Other available standards | Digital Signatures: registered electronic mail services | All published work | ETSI/TC ESI | 2019 | Published | | | | | | | | | | x | | | | | | | | | |
| Other available standards | Digital Signatures: ongoing work (formats, preservation) | ongoing work | ETSI/TC ESI | TBC | Ongoing | | | | | | | | | | x | | | | | | | | | |
| Other available standards | Open Trusted Technology Provider Standard – Mitigating maliciously tainted and counterfeit products – Part 1: Requirements and recommendations | ISO/IEC 20243-1 | ISO/IEC | 2018 | Published | | | | | | | x | | | | | x | | | | | | | |
| Other available standards | Open Trusted Technology Provider Standard – Mitigating maliciously tainted and counterfeit products – Part 2: Assessment procedures for the O-TTPS and ISO/IEC 20243-1:2018 | ISO/IEC 20243-2 | ISO/IEC | 2018 | Published | IEC | | | | | | × | | | | | x | | | | | | | |
| Other available standards | Information technology — Security techniques —Vulnerability disclosure | ISO/IEC 29147 | ISO/IEC | 2014 | Published | IEC | | | | | | | | | | | | | | | x | | | ED-206 ISEM is intended to include vulnerability disclosure programme guidance. ED-206 ISEM is intended to provide aviation-specific VPD guidance and this ISO standards provides good interum guidance. |
| Other available standards | Information technology — Security techniques — Information security for supplier relationships — Part 3: Guidelines for information and communication technology supply chain security | ISO/IEC 27036-3 | ISO/IEC | 2013 | Published | IEC | | | | | | | | | | | x | | | | | | | |
| UAS | | | | | UAS | | | | | | | | | | | | | | | | | | | See U-RDP at EUSCG.EU |
| UAS | | | | | UAG | | | | | | | | | | | | | | | | | | | See U-RDP at EUSCG.EU |

DOMAIN AND CATEGORY SCOPES

| Scope of Domain | To facilitate access to the relevant documents, the standards and regulations have been divided into mutually exclusive domains. Domains are common user group or base for standards that has similar lifecycle and environment; these are loosely aligned with organisational approvals. |
|---|--|
| | These domains are: 'Aerodrome', 'Aircraft', 'ATM/ANS', 'Transversal' (i.e. across aviation) and Other available standards (i.e. non-aviation). |
| | 'Air Operators' may become a future domain once its scope is defined and potentially relevant documents are proposed. |
| Scope of Category | To facilitate access as well as the identification of gaps, the standards and regulations are associated with one or more categories. These categories are used to identify topics addressed by the standards and regulations. This categorisation is also used to identify common topics where security standardisation is needed. |
| Information Security scope in the RDP | In this context and with view to use a scope as broad as possible: "The practice of defending information from unauthorised access, use, disclose, disruption, modification, perusal, inspection, recording or destruction. It is a general term that can be used regardless of the form the data may take (electronic, physical, etc.)" (ER-013). Information security includes here information technology, operational technology and embedded systems. Information security here also includes the impact on safety, security and continuity of civil aviation. |

DOMAINS

| Domain | Agreed scope |
|---------------------------------|---|
| Aerodrome | A defined area on land or in water (including buildings, installations and equipment) intended to be used either wholly or in part for the arrival, departure and movement of aircraft (ICAO). The domain includes all documents that provide requirements, specifications, guidelines or characteristics related to the design, construction and operation. |
| Aircraft | An aircraft is any machine that can derive support in the atmosphere from the reactions of the air other than the reactions of the air against the earth's surface (ICAO). The domain includes all documents that provide requirements, specifications, guidelines or characteristics related to the design, production and MRO. |
| ATM/ANS | Air traffic management is an aviation term encompassing all systems that assist aircraft to depart from an aerodrome, transit airspace, and land at a destination aerodrome, including Air Traffic Services (ATS), Airspace Management (ASM), and Air Traffic Flow and Capacity Management (ATFCM). |
| | Air Navigation Services is a term that includes air traffic management (ATM), communications, navigation and surveillance systems (CNS), meteorological services for air navigation (MET), search and rescue (SAR) and aeronautical information services (AIS). These services are provided to air traffic during all phases of operations (approach, aerodrome and en-route). |
| | The domain includes both ATM and ANS as defined above and comprises all documents that provide requirements, specifications, guidelines or characteristics to ensure that materials, products, processes and services are fit developed for all systems that assist aircraft to depart from an aerodrome, transit airspace, and land at a destination aerodrome. |
| Transversal | The domain includes all documents that could have a horizontal and/or vertical effect on specifications, guidelines or characteristics across two or more domains. |
| Other available standards | The domain includes all non-aviation standards that may be relevant to one or more domains and provided for information only. Where gaps in the categories exist for a particular domain, the available standards can be used directly, if appropriate, otherwise they can be modified with a supplement or used as a template for creating aviation standards. |
| Future domain | |
| Air Operators | Scope to be characterised in a second stage, with the proposition of related regulatory and standardisation documents. |

CATEGORIES

| Category | Scope agreed |
|----------------------------------|---|
| 1. Cybersecurity Terminology | Terminology either defined by standards being developed or already existing. Common recognition of definitions either used in or relevant to the field of cybersecurity or information security as used in the relevant domain. |
| 2. Trustworthiness | The ability to be relied on as honest or truthful and to handle with best intent. In technology this refers to the application of appropriate procedures, processes and standards which allows it to be perceived as reliable by a human or another technical system. |
| | For example, and without limitation: Standards that establish trust in personnel and organisations such that credit can be taken for certification purposes, includes both technical means such as encryption and digital signatures, operational means such as policies, procedures and contracts, as well as external agreements. |
| 3. Privacy | Set of shared values governing the privacy protection of personally identifiable information (PII) when processed in information and communication technology systems (ISO/IEC 29100) |
| | For example, and without limitation: Standards related to particular security aspects related to privacy |
| 4. Oversight | Standards providing the means of consistently ensuring oversight in an economically viable manner including certification (by authorities and/or trusted third parties), auditing and inspection (by contracting organisation or trusted third party) |
| 5. Risk assessment | Overall process comprising a risk analysis and a risk evaluation (ISO/IEC Guide 73). For example, and without limitation: procedure for identifying all threat conditions, ranking of threat conditions, harmonising severity of threat conditions, use of threat catalogues, use of likelihood or probability, use and harmonisation of attacker profiles. |
| 6. Cyber resilience requirements | Cyber resilience refers to an entity's ability to continuously deliver the intended outcome despite adverse cyber events. Refers to procedures, processes and standards an organisation, stakeholder or system must fulfil for cyber resilience assurance. |
| | For example, and without limitation: providing best practices for hardening parts and services |

| 7. Transorganisational security requirements and interfaces | Refers to the set of procedures, processes and standards designed to provide information security assurance affecting the organisations which are part of the aviation functional chain thus, are required to exercise a level of risk management that results in (acceptable) levels of risks which are acceptable for other organisations. |
|---|--|
| 8. Civil-military interoperability, secure data exchange | Standards relating to particular needs of civil-military interfaces |
| 9. Supply chain cyber security | It refers to the set of procedures, processes and standards designed to provide information security assurance for organisations acting as suppliers for research, design, development, production, maintenance, repair, overhaul, operations and decommission of assets |
| | For example, and without limitation: documents related to securing risks to supply chain - either internal manufacturing or outsourced suppliers of software and hardware taking into consideration the relationship between the contracting organisations. |
| 10. Maintenance (MRO) Security | MRO Security refers to the set of procedures, processes and standards designed to provide information security assurance across organisations involved in aviation maintenance, repair and overhaul thus, including relevant supply chain organisations. |
| 11. Cloud security | Cloud computing security refers to the set of procedures, processes and standards designed to provide information security assurance in a cloud computing environment with the objective of preserving the confidentiality, integrity and availability of information. |
| | Cloud computing security addresses both physical and logical security issues across all the different service models of software, platform and infrastructure. It also addresses how these services are delivered (public, private or hybrid delivery model). |
| | For example, and without limitation: documents that establish the best practices and requirements when using cloud technologies in aviation. |
| 12. Development & Production Security | Development & Production Security refers to the set of procedures, processes and standards designed to provide information security assurance across organisations involved in the design, development and production of assets for aviation thus, including relevant supply chain organisations. For example, and without limitation: specific enterprise needs for development of certified parts and securing of Operational Technology used to produce aviation parts. |

| 13. Product security | <i>Product security</i> refers to the set of procedures, processes and standards designed to provide information security assurance of a product or asset through documents providing requirements, specifications, guidelines fit developed for application security, infrastructure security, and incident response. |
|---------------------------------------|---|
| | For example, documents that establish the best practices and requirements for aviation products. |
| 14. Cyber security verification | Cyber security verification is intended to check that a product, service, or system (or portion thereof, or set thereof) intended to ensure cyber security meets a set of (design) specifications. |
| | For example, and without limitation: Standards providing the processes for performing various forms of security testing to uncover vulnerabilities and assess security architecture and implementation of security requirements as well as the means for assessing the quality and coverage of testing performed. |
| 15. Risk and vulnerability management | Risk management is the identification, evaluation, and prioritisation of risks followed by coordinated and economical application of resources to minimise, monitor, and control the probability or impact of unfortunate events or to maximise the realisation of opportunities. Vulnerability Management: Vulnerability management is a security practice specifically designed to proactively mitigate or |
| | prevent the exploitation of IT vulnerabilities which exist in a system or organization. The process involves the identification, classification, remedy, and mitigation of various vulnerabilities within a system. It is an integral part of computer and network security and is practiced together with risk management as well as other security practices. |
| | For example, and without limitation: continuously identifying vulnerabilities throughout lifecycle through automated means, private or public vulnerability disclosures, testing and ranking or scoring of vulnerabilities to identify and harmonise vulnerabilities posing risks that need to be remediated immediately, can be deferred or accepted |
| 16. Operation security | It refers to the set of procedures, processes and standards designed to provide information security assurance across an organisation's operations. |
| | For example, and without limitation: documents providing means of consistently applying operational security controls for which credit can be taken |
| | |

17. Security Incident, Event Management Incidence Response and Recovery Management

'Information security event' means an identified occurrence of a system, service or network state indicating a possible breach of information security policy or failure of security controls, or a previously unknown situation that can be security relevant;

"information security incident' means a single or a series of unwanted or unexpected information security events which could potentially affect aviation safety," security and continuity of civil aviation.

Documents providing requirements, specifications, guidelines developed for the process of identifying, monitoring, recording and analysing security events or incidents as defined above.

Incident response is the methodology an organization uses to respond to and manage an Information Security Incident.

An incident response aims to reduce this damage and recover as quickly as possible.

Recovery Management involves a set of policies, tools and procedures to enable the recovery or continuation of vital technology infrastructure and systems following a natural or human-induced disaster. Recovery management focuses on the IT or technology systems supporting critical business functions, as opposed to business continuity, which involves keeping all essential aspects of a business functioning despite significant disruptive events. Disaster recovery can therefore be considered as a subset of business continuity.

For example, and without limitation: cleaning of malware, forensics.

18. Information sharing

Information sharing describes the exchange of data between various organizations, people and technologies through documents providing requirements, specifications, guidelines related to the act of passing information, electronically or through other systems.

For example, and without limitation: setting the framework for establishing the trust necessary to share sensitive security information