

# Annex 17 to the Convention on International Civil Aviation

# **Aviation Security**

Safeguarding International Civil Aviation against Acts of Unlawful Interference

Twelfth Edition, July 2022



This edition supersedes, on 18 November 2022, all previous editions of Annex 17.

For information regarding the applicability of the Standards and Recommended Practices, see the Foreword.

INTERNATIONAL CIVIL AVIATION ORGANIZATION

# **Annex 17 Security Manual**

**Ruwantissa Abeyratne** 

#### **Annex 17 Security Manual:**

Practical Aviation Security Jeffrey Price, Jeffrey Forrest, 2016-07-20 Practical Aviation Security Predicting and Preventing Future Threats Third Edition is a complete guide to the aviation security system from crucial historical events to the policies policymakers and major terrorist and criminal acts that have shaped the procedures in use today as well as the cutting edge technologies that are shaping the future This text equips readers working in airport security or other aviation management roles with the knowledge to implement effective security programs meet international guidelines and responsibly protect facilities or organizations of any size Using case studies and practical security measures now in use at airports worldwide readers learn the effective methods and the fundamental principles involved in designing and implementing a security system The aviation security system is comprehensive and requires continual focus and attention to stay a step ahead of the next attack Practical Aviation Security Third Edition helps prepare practitioners to enter the industry and helps seasoned professionals prepare for new threats and prevent new tragedies Covers commercial airport security general aviation and cargo operations threats threat detection and response systems as well as international security issues Lays out the security fundamentals that can ensure the future of global travel and commerce Applies real world aviation experience to the task of anticipating and deflecting threats Includes updated coverage of security related to spaceport and unmanned aerial systems focusing on IACO International Civil Aviation Organization security regulations and guidance Features additional and updated case studies and much more ITF Round Tables Terrorism and International Transport Towards Risk-based Security Policy International Transport Forum, 2009-04-28 This Round Table examines the contribution economic analysis can make to improving security in aviation and maritime shipping by quantifying the benefits of security measures and assessing their effectiveness and examining techniques to allocate resources to target the highest risks International Aviation Law Ronald I. C. Bartsch AM, 2024-10-16 This is the third edition of a now renowned guide that provides an extensive account of the state of the aviation industry and the law that regulates it This new edition revised and updated throughout focuses on environmental and sustainability considerations and includes a new chapter on innovations aimed towards meeting the 2050 Net Zero Emission targets endorsed by the International Civil Aviation Organisation ICAO and the International Air Transport Association IATA International Aviation Law A Practical Guide explains the international context and application of the law as it applies to commercial and recreational aviation and to the broader aviation environment It provides a comprehensive introduction to all aspects of aviation law from criminal law to contract law to the legal duties and responsibility of aircrew and other aviation personnel including airport operators air traffic controllers and aircraft engineers Each area of the law is clearly explained in accessible language and supported with practical case studies to illustrate the application of the law within an operational aviation context It also provides advice on how to avoid or minimize legal liability for those working in the aviation industry. The book is written for a very broad readership of those working within the

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International Aviation Law Ron Bartsch, Ronald I.C. Bartsch, 2016-05-23 International Aviation Law A Practical Guide explains the international context and application of the law as it applies to commercial and recreational aviation and to the broader aviation environment It provides a comprehensive introduction to all aspects of aviation law from criminal law to contract law to the legal duties and responsibility of aircrew and other aviation personnel including airport operators air traffic controllers and aircraft engineers Each area of the law is clearly explained in accessible language and supported with practical case studies to illustrate the application of the law within an operational aviation context It also provides advice on Air Defence Identification Zones and how to avoid or minimize legal liability for aviation practitioners and enthusiasts Maritime Frontier Disputes Stephanie Stipsits, 2025-04-03 The book clarifies key conceptual issues surrounding ADIZs and their influence on maritime territorial disputes in the context of the Senkaku Diaoyu island dispute It uniquely offers a detailed analysis of national legislation on ADIZ suggesting that ADIZ might be evolving customary international law The book demonstrates that aerial zones do not necessarily violate the freedom of overflight as the airspace above the EEZ may have a dual legal status allowing for sui generis zones Furthermore it shows that ADIZs do not conflict with fundamental principles of international air law or the ICAO Council's authority to establish rules in international airspace International Aviation Law for Aerodrome Planning Chehab Salih, 2020-11-03 The objective of this book is to provide ICAO States

competent authorities and aerodrome operators with a comprehensive overview of legal challenges related to international aerodrome planning Answers to derived legal questions as well as recommendations thereafter shall help to enhance regulatory systems and to establish a safer aerodrome environment worldwide Compliant aerodrome planning has an immense impact on the safety of passengers personnel aircraft and of course the airport Achieving a high safety standard is crucial as many incidents and accidents in aviation happen at or in the vicinity of airports Currently more than 40% of the ICAO Member States do not fully comply with international legal requirements for aerodrome planning Representatives of ICAO and States as well as aerodrome and authority personnel will understand why compliance with the different legal facets of aerodrome planning is challenging and learn how shortcomings can be solved **Global Aeronautical Distress and** Safety Systems (GADSS) Stojče Dimov Ilčev, 2019-12-10 This book presents the principal structure networks and applications of the Global Aeronautical Distress and Safety System GADSS for enhanced airborne Communication Navigation and Surveillance CNS It shows how their implementation works to ensure better security in flight and on the airports surface improved aircraft tracking and determination in real space and time and enhanced distress alerting safety and Search and Rescue SAR system for missing hijacked and landed aircraft at sea or on the ground Main topics of this book are as follows an overview of radio and satellite systems with retrospective to aeronautical safety security and distress systems space segment with all aspects regarding satellite orbits and infrastructures transmission segment of radio and satellite systems ground segment of radio and earth ground stations airborne radio and satellite antenna systems and propagation aeronautical VHF and HF Radio CNS systems and networks Inmarsat Iridium and Cospas Sasrast aeronautical satellite CNS systems and networks Aeronautical Global Satellite Augmentation System GSAS and networks Digital Video Broadcasting Return Channel via Satellite DVB RCS standards and Aeronautical Stratospheric Platform Systems SPS and networks

Legal Priorities in Air Transport Ruwantissa Abeyratne, 2019-05-27 Against the backdrop of enormous technological strides this book argues that the air transport industry must be constantly vigilant in its efforts to employ a legal regime that is applicable to the aeronautical and human aspects of the carriage by air of persons and goods In this regard safety and security are of the utmost importance both in terms of safe air navigation and the preservation of human life Although the International Civil Aviation Organization ICAO addresses legal issues through its Legal Committee many emerging issues that urgently require attention lie outside the Committee s purview This book analyzes in detail the items being considered by ICAO s Legal Committee considers the legal nature of ICAO and discusses whether or not ICAO s scope should be extended Since the limited issues currently addressed by ICAO do not reflect the rapidly changing realities of air transport the book also covers a broad range of key issues outside the parameters set by ICAO such as the need to teach air law to a new generation of aviation professionals combating cyber crime and cyber terrorism the regulation of artificial intelligence traveller identification interference with air navigation human trafficking unruly passengers climate change air carrier

liability for passenger death or injury Remotely Piloted Aircraft Systems drones and the cabin crew and their legal implications International and EU Aviation Law Elmar Maria Giemulla, Ludwig Weber, 2011-01-01 This book offers an extraordinary wealth of information from the ground up of the law governing and regulating air transport today with a strong emphasis on international aviation A team of distinguished authors in the field of aviation law provide a cogent synthesis from which sound legal opinions and strategies of legal action may be confidently built Among the many topics here in depth are the following definition and classification of airspace distinction between civil and state aircraft air navigation and air traffic control services airport charges and overflight charges structure of ICAO standard setting functions and audit functions of ICAO functions of the International Air Transport Association IATA policy and effects of deregulation and liberalization of air transport policy the International Registry for Aircraft Equipment air carrier liability regimes and claims procedure measures to combat aviation terrorism air piracy and sabotage and the Open Skies Agreements This publication cites significant legislation and court rulings including from the United States and the European Union where far reaching measures on market access competition and passenger rights have set trends for other regions of the world The special case of Latin America has a chapter to itself At a time when commercial aircraft have been used as lethal weapons for the first time aviation law finds itself in the front line of responsibility for maintaining global aviation security and Travel Law in Hong Kong G.N. Heilbronn, 1990-11-01 A collection of essays by legal professionals on various topics relating to aviation and travel law in Hong Kong including pricing of air travel airlines legal relations with travel agents airport security aerial crime and hijacking and aircraft accident investigation **Global Mobile Satellite Communications** Theory Stojče Dimov Ilčev, 2016-09-23 This book discusses current theory regarding global mobile satellite communications GMSC for maritime land road and rail and aeronautical applications It covers how these can enable connections between moving objects such as ships road and rail vehicles and aircrafts on one hand and on the other ground telecommunications subscribers through the medium of communications satellites ground earth stations Terrestrial Telecommunication Networks TTN Internet Service Providers ISP and other wireless and landline telecommunications providers This new edition covers new developments and initiatives that have resulted in land and aeronautical applications and the introduction of new satellite constellations in non geostationary orbits and projects of new hybrid satellite constellations. The book presents current GMSC trends mobile system concepts and network architecture using a simple mode of style with understandable technical information characteristics graphics illustrations and mathematics equations The first edition of Global Mobile Satellite Communications Springer 2005 was split into two books for the second edition one on applications and one on theory This book presents global mobile satellite communications theory **Aviation and International Cooperation** Ruwantissa Abeyratne, 2015-05-22 This book addresses an essential gap in the regulatory regime which provides legislation statements and guidelines on airlines airports air navigation services providers and States in the field of aviation but is

notably lacking when it comes to the rights of the airline passenger and the average citizen who is threatened by military air strikes It addresses subjects such as international resolutions on human rights and other human rights conventions related to aviation that impact both air transport consumers and people on the ground who are threatened by air strikes through drone attacks disabled and obese airline passengers compensation for delayed carriage and the denial of carriage noise and air pollution caused by aviation and their effects on human health and wellbeing prevention of death or injury to passengers and attendant compensatory rights risk management relief flights and racial profiling These subjects are addressed against the backdrop of real case studies that include but are not limited to instances of drone attacks and contentious flights in the year 2014 such as MH 370 MH 17 and QZ 8501 Border Management in Transformation Johann Wagner, 2020-11-26 This book looks into the processes of change and renewal of border control and border security and management during the past 30 years after the fall of the Iron Curtain and the immense challenges in nation building in South Eastern Europe after the collapse of former Yugoslavia in relation to strategic security management The abolition of border controls within the Schengen area and simultaneous introduction of necessary replacement measures was an additional topic The book provides an insight into which the European Union is competent in the reform and modernisation of state law enforcement agencies for ensuring effective border control border surveillance and border management in line with the EU acquis communautaire and EU standards In the 21st century along with the process of globalisation a constantly evolving security environment creates new dimensions of threats and challenges to security and stability of transnational nature This seeks for comprehensive multidimensional collective and well coordinated responses The European Union Organization for Security and Co operation in Europe United Nations as well as other international organisations are able to really contribute to developing cooperative and coordinated responses to these threats by relying on its broad membership and profound expertise and experience According to the position of the European Union a modern cost benefit oriented and effective border management system should ensure both open borders as well as maximum of security at the same time Thus the Union s endeavour is to safeguarding internal security to all member states through preventing transnational threats combating irregular migration and any forms of cross border crime for ensuring smooth border crossings for legitimate travellers and their belongings goods and services That is why the Union's concept of Integrated Border Management has been developed to ensure effective border control and surveillance and cost efficient management of the external borders of the European Union The Union's policy is and will continue to be developed on the basis of the three main areas in place common legislation close operational tactical cooperation and financial solidarity In addition Integrated Border Management has been confirmed as a priority area for strengthening the cooperation with third countries in the European Commission s strategic security management approach where non EU countries are encouraged as partners to upgrade their border security surveillance and border management systems Law and Regulation of Air Cargo Ruwantissa

Abeyratne, 2018-07-23 This book explores the legal and regulatory aspects of the complex air cargo sector discussing in detail the general principles of the carriage of air cargo artificial intelligence and air cargo facilitation carriage of hazardous goods human remains and animals as well as cargo security price fixing and anti competitive conduct in air cargo operations liability issues the air cargo supply chain and contract of carriage It also discusses related achievements of the International Civil Aviation Organization the International Air Transport Association and Airports Council International The value of goods carried by airlines represents 7 4% of the global Gross Domestic Product While cargo carried by air accounts for less than 1% of global cargo carriage airlines carry 35% of the value of world trade making this industry highly valuable and efficient and the most reliable way to transport goods throughout the world On average airlines transport 52 million metric tons of goods per annum worth an equivalent of 6 8 trillion i e 18 6 billion worth of goods daily The Transnational Dimension of Cyber Crime and Terrorism Seymour E. Goodman, Abraham D. Sofaer, 2013-11-01 In December 1999 more than forty members of government industry and academia assembled at the Hoover Institution to discuss this problem and explore possible countermeasures The Transnational Dimension of Cyber Crime and Terrorism summarizes the conference papers and exchanges addressing pertinent issues in chapters that include a review of the legal initiatives undertaken around the world to combat cyber crime an exploration of the threat to civil aviation analysis of the constitutional legal economic and ethical constraints on use of technology to control cyber crime a discussion of the ways we can achieve security objectives through international cooperation and more Much has been said about the threat posed by worldwide cyber crime but little has been done to protect against it A transnational response sufficient to meet this challenge is an immediate and compelling necessity and this book is a critical first step in that direction Handbook of Checked Baggage Screening Norman E. L. Shanks, Alexandre L. W. Bradley, 2005-08-19 Handbook of Checked Baggage Screening Advanced Airport Security Operation is a practical guide for project managers and designers embarking on hold baggage screening developments within the airport environment for the first time The book clearly explains away any uncertainty about the processes and procedures to be used by the various parties involved within the industry and sets out best practice with respect to checked baggage screening design Valuable lessons can be learned from actual case studies contributed by leading equipment manufacturers on recent 100% hold baggage screening projects In addition to the all important security screening of baggage and passengers the book also looks at the following areas associated with airport security through the use of a detailed structured security check list evaluation questionnaire The questionnaire allows airports to assess the state of readiness of their airports and then using the other chapters gain an insight regarding which technology will best solve any security gaps The authors offer a unique perspective through their background and experience Many of the checked baggage screening procedures and equipment discussed in the book have already been implemented in the UK with the authors responsible for leading this effort The combined experience they can offer to the industry world wide is invaluable The Handbook of

**Security** Martin Gill,2022-06-22 The substantially revised third edition of The Handbook of Security provides the most comprehensive analysis of scholarly security debates and issues to date It reflects the developments in security technology the convergence of the cyber and security worlds and the fact that security management has become even more business focused It covers newer topics like terrorism violence and cybercrime through various offence types such as commercial robbery and bribery This handbook comprises mostly brand new chapters and a few thoroughly revised chapters with discussions of the impact of the pandemic It includes contributions from some of the world's leading scholars from an even broader geographic scale to critique the way security is provided and managed It speaks to professionals working in security and students studying security related courses Chapter 5 is available open access under a Creative Commons Attribution 4 0 International License via link springer com Forensic Investigation of Explosions, Second Edition Alexander Beveridge, 2011-11-02 Now in its second edition Forensic Investigation of Explosions draws on the editor s 30 years of explosives casework experience including his work on task forces set up to investigate major explosives incidents Dr Alexander Beveridge provides a broad multidisciplinary approach assembling the contributions of internationally recognized experts who present the definitive reference work on the subject Topics discussed include The physics and chemistry of explosives and explosions The detection of hidden explosives The effect of explosions on structures and persons Aircraft sabotage investigations Explosion scene investigations Casework management The role of forensic scientists Analysis of explosives and their residues Forensic pathology as it relates to explosives Presentation of expert testimony With nearly 40 percent more material this new edition contains revised chapters and several new topics including A profile of casework management in the UK Forensic Explosives Laboratory one of the world's top labs with a discussion of their management system training procedures and practical approaches to problem solving Properties and analysis of improvised explosives An examination of the Bali bombings and the use of mobile analytical techniques and mobile laboratories. The collection analysis and presentation of evidence in vehicle borne improvised explosive device cases as evidenced in attacks on US overseas targets This volume offers valuable information to all members of prevention and post blast teams Each chapter was written by an expert or experts in a specific field and provides well referenced information underlying best practices that can be used in the field laboratory conference room classroom or courtroom

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