

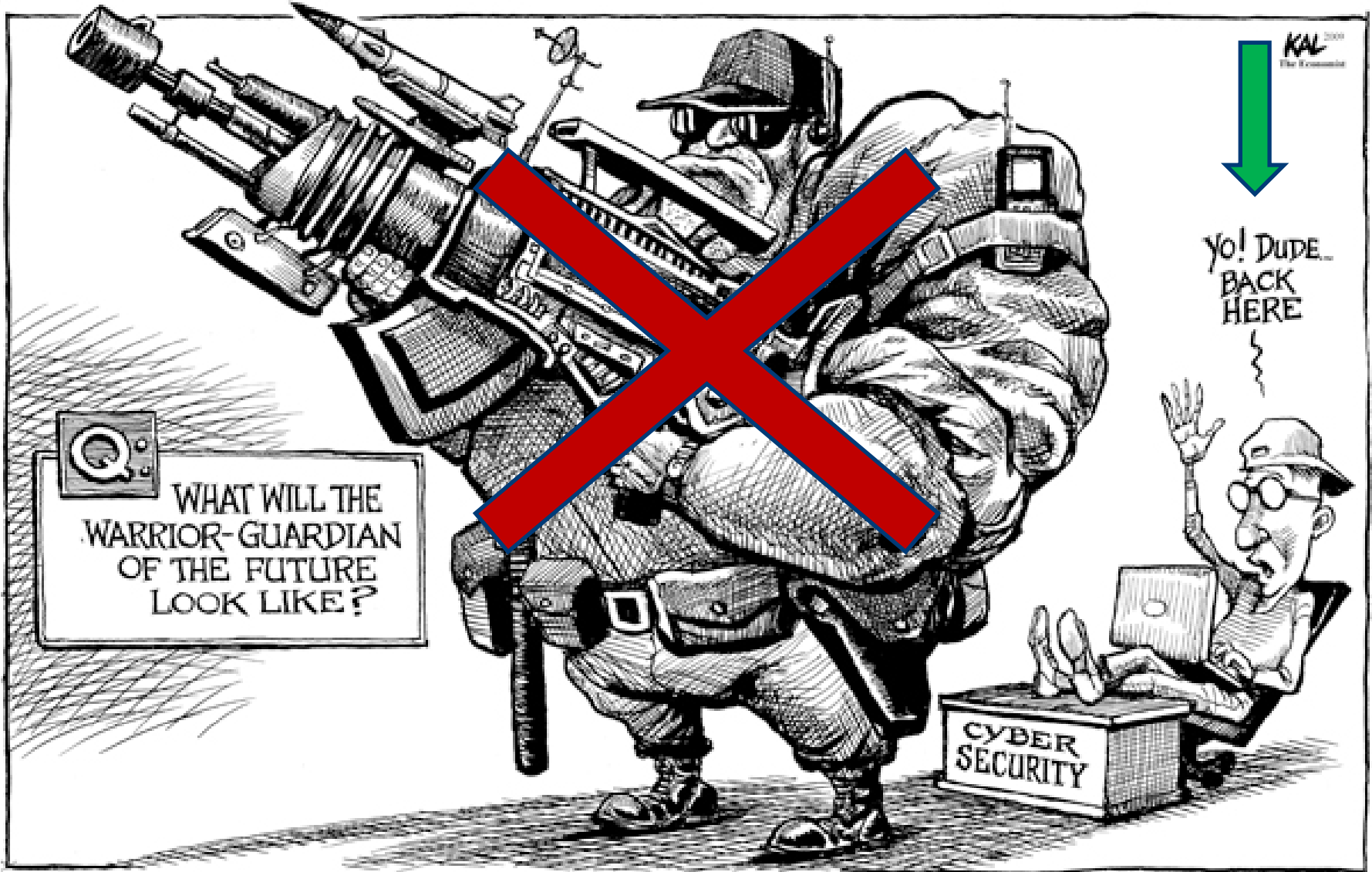


**REMOTELY PILOTED AIRCRAFT SYSTEMS  
SYMPOSIUM  
23-25 March 2015**

**An Aviation Security View on RPAS**

**Steven R. Berti**

**Chief Aviation Security Policy**



# A World of Challenges

*Is our recent experience with “multidiscipline” areas such as ATM and cybersecurity relevant?*

*Where should we focus our efforts?*

*Who are the right players?*

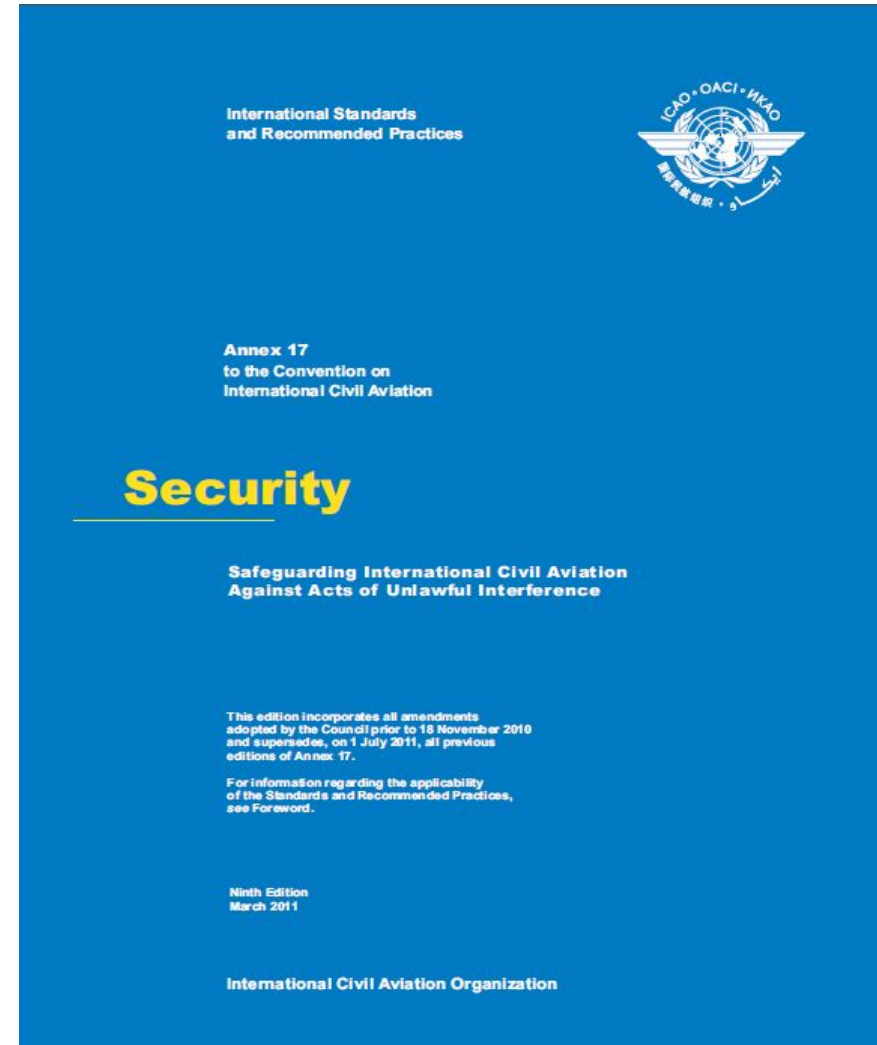
*What is the appropriate forum to address security aspects of RPAS?*

*Known vs. unknown: are we identifying all possible threats posed by the use of RPAS?*

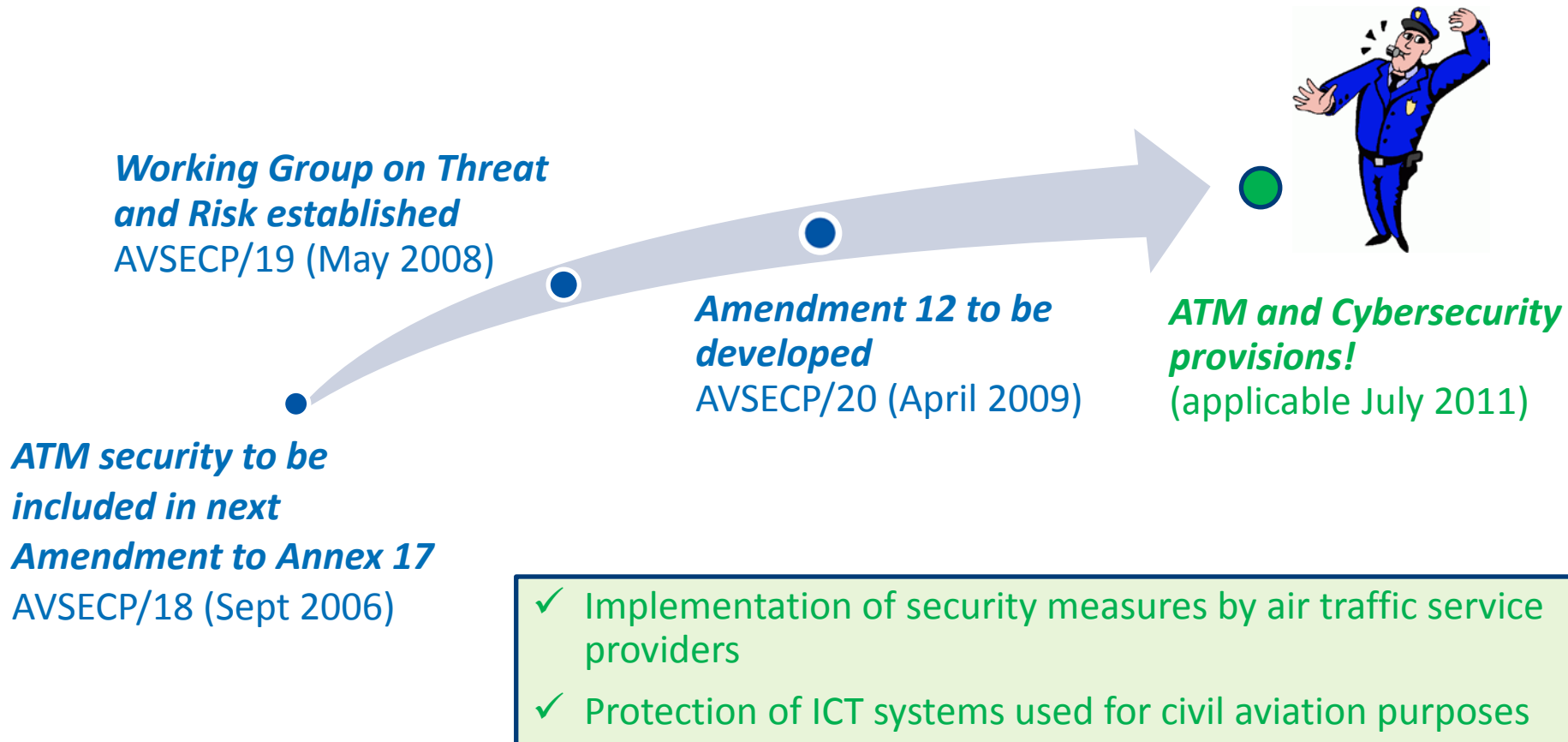


# ANNEX 17 — SECURITY

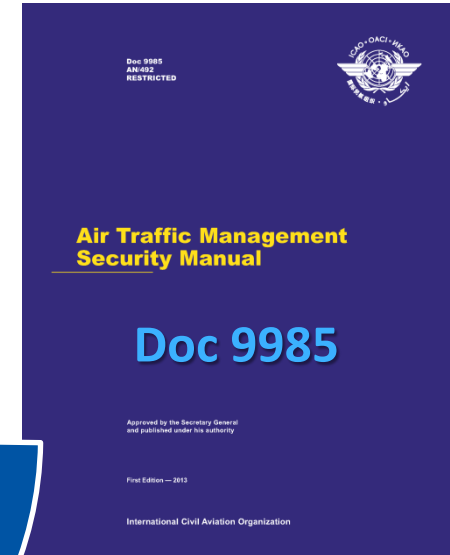
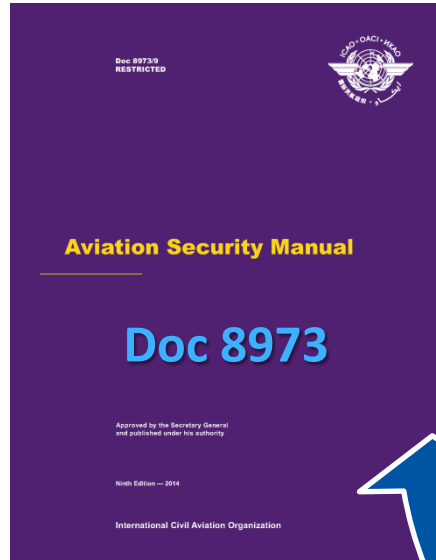
- ❑ 9<sup>th</sup> Edition of Annex 17 incorporates Amendments 1 to 14
- ❑ Amendment 12 introduced ATM and cybersecurity provisions
- ❑ Amendment 14 became applicable in Nov. 2014
  - ❑ ensure a risk-based cybersecurity regime



# A Brief History of Time – Part I: Policy

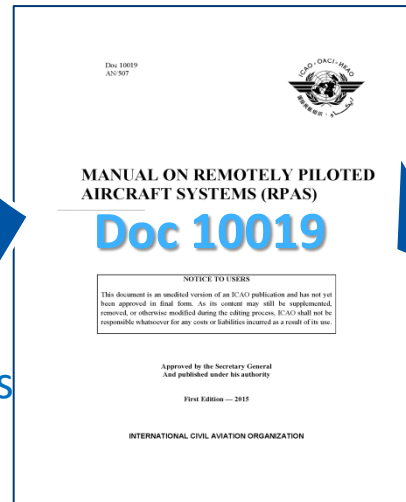


# A Brief History of Time – Part II: Guidance



**Cross-reference approach**

**Common elements**



## Security Manual

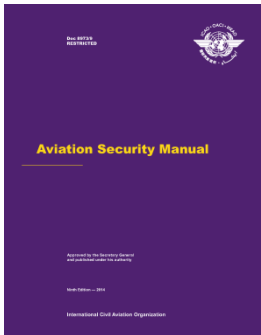
- Physical protection
- Access control
- Security control for staff
- Basic cybersecurity measures

## ATM Sec Manual

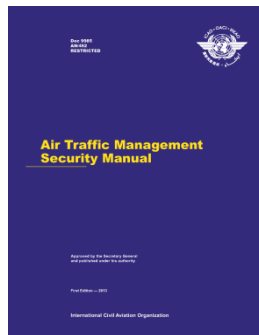
- Protection of ATM systems
- Support of the ATM system to others engaged in aviation security

# A Collaborative Endeavour

Doc 8973



Doc 9985



Doc 10019



ICAO AVSEC  
AVSEC Panel  
ECAC

Ongoing work on cybersecurity capitalizes on collaboration between WGTR, ANB Technical Panels, AVSEC Force and IHLG (ACI, CANSO, IATA, ICAO, ICN) For example: IHLG Action Plan

ANB  
ICAO AVSEC  
WGTR  
...more?

## The Way Forward

- Continuous collaboration with all entities involved in RPAS matters (*and ATM and cybersecurity?*) - to enable ICAO to create synergy and develop further standards, guidance material, and training.
- Technical panels of ANB and AVSECP can be used for communication, cooperation and collaboration by all entities involved (coordination mechanism).
- Duplication of work by different entities should be avoided.





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and Caribbean  
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Central African  
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North Atlantic  
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(MID) Office  
Cairo

Eastern and  
Southern African  
(ESAF) Office  
Nairobi

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(APAC) Sub-office  
Beijing

Asia and Pacific  
(APAC) Office  
Bangkok



THANK YOU