



ICAO

International Civil Aviation Organization  
North American, Central American and Caribbean Office

**Second Unmanned Aircraft Systems – Remote Piloted Aircraft Systems Implementation/Regulation  
Workshop (UAS/RPAS/W) for the NAM/CAR/SAM Regions**

On-line, 28 September to 1 October 2021

**Summary of Discussions**

<b>Date</b>	28 September to October 01, 2021
<b>Location</b>	Online
<b>Opening Ceremony</b>	The Workshop was attended by 153 participants from the following regions: 17 delegates from the NAM/CAR Regions, 11 delegates from the SAM Region, 5 delegations from Europe, 6 from Africa, 4 Western Asia and 8 from Central and Eastern Asia. The list of participants is show in <b>Attachment A</b> .

**1. References**

1.1 According with the invitation letter Ref. NT-N1-8.2.23 — E.OSG-NACC90630, States from NAM and CAR Regions were invited to participate in the Second Unmanned Aircraft Systems – Remote Piloted Aircraft Systems Implementation/Regulation Workshop (UAS/RPAS/W) for the NAM/CAR/SAM Regions in coordination with the Federal Aviation Administration (FAA) of United States.

1.2 The ICAO SAM Regional Office sent to SAM States an invitation to participate in the webinar through letter Ref: LT 17/2 – SA306.

**2. Webinar sessions:**

2.1 **First session:** ICAO presented information on the development of Remote piloted aircraft systems (RPAS) Standards and Recommended Practices (SARPs), ICAO Updates to Annex 8, C2 Link, Air Traffic Management (ATM) integration, Update on ICAO Unmanned aircraft systems (UAS) Advisory Group and other ICAO Work Flight rules and unauthorized UAS.

2.2 **Second session:** provided experiences of UAS regulation, security and cybersecurity duo RPAs and UAS operations, information provided from Brazil, Canada and United States.

2.3 **Third session:** first panel on the preparing of aviation professionals for future UAS operations with the participation of many organizations and universities. In this third session experiences about UAS operation with ATM integration were also discussed.

2.4 **Fourth session:** the second panel about UAS operations during the COVID-19 pandemic, lessons learned and challenges for the future was presented with the participation of the industry and international organizations. In addition, a presentation on European regulation was covered.

### **3. Objectives**

3.1 All Session were addressed to States, industry and stakeholders, in order to exchange information and share best practices with ICAO on current and future UAS/RPAS operations.

### **4. Information Provided**

4.1 During la first session the ICAO RPAS Section introduced information about specific updates in the ICAO Annex 8 (airworthiness), Annex 10 (C2 Link) and Annex 6 (operations), ATM and other work on SARPs development.

4.2 ICAO indicated that in the (near) future RPA operations are expected to increase dramatically. The one off agreed procedures will soon become too hard to keep track of, and could lead to loss of situational awareness by controllers, with resulting unsafe situations. Procedures are needed to be accessible to Air Traffic Controllers (ATC), consistently applied and fit for purpose. ICAO does this well – it is called standardization.

4.3 Brazil,Canada and United States presented information about the UAS operation in their States and cybersecurity and safety concerns.

4.4 The first panel about “Preparing aviation professionals for future UAS operations” coordinated by ICAO Global Aviation Training (GAT), had the participation from:

- EUROCONTROL
- Pontificia Universidad Católica, Argentina
- Corporación Educativa Indoamericana, Colombia
- Latin American Institute of Civil Aviation (ILAC)
- National University of Honduras (UNAH)
- Joint Aviation Authorities (JAA) Training Organization

4.5 During the Panel, experiences about UAS operations training and available courses were shared.

4.6 The Panelist explained, “Why it is important” to provide adequate training in all aviation areas about UAS and RPAS operations to ensure a safety operations and correct UAS oversight.

4.7 Colombia provided its experience on UAS/RPAS integration with ATM operations.

4.8 The second Panel was supported by:

- Chile
- United Nations Children's Fund (UNICEF)
- United Nations - International Organization for Migration (IOM)
- UAM - Passenger Autonomous Aerial Vehicle (AAV) EHANG Company.
- The International Air Transport Association (IATA)
- Cursir, Drones for flight inspections

4.9 The panel discussed on experiences of drones operations during the COVID-19 pandemic, and how drones supported many services, especially operation related with health, migration operations, communications and others.

4.10 IATA shared its vision on the integration of commercial operations with drone operations.

4.11 Finally, the industry shared its needs to operate in the different States in a more efficient way.

## **5. Workshop Schedule and Activities**

5.1 The workshop webpage is located at:  
<https://www.icao.int/NACC/Pages/meetings-2021-uasrpas.aspx>

## **6. Outcomes/Recommendations**

6.1 The need for States to integrate drone operations into their national regulations and to incorporate the amendments to the ICAO annexes into their regulations and procedures was widely explained.

6.2 Education in all aviation areas, included inspectors to ensure correct UAS/RPAS operations oversight, is required. Security and cybersecurity was also covered.

6.3 States explained that correct regulations about UAS operations are needed to facilitated the operation of the emerging UAS/RPAS industry, also to ensure that many services through drones can operate in a correct way. In addition, standardization about the different States in their regulation is very important to improve the operation of the UAS and RPAS.

## **7. Accomplishments**

7.1 Information on documentation related with standards and documentation available from ICAO was updated to support States.

7.2 Sharing the different experiences of many States and organizations is very important to learn from the achievements and mistakes of others, as well as to know what we need to develop for the future.

7.3 Recording of sessions is available in the following link:  
<https://www.icao.int/NACC/Pages/meetings-2021-uasrpas.aspx>

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North American, Central American and Caribbean Office (NACC)  
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**Second Unmanned Aircraft Systems – Remote Piloted Aircraft Systems Implementation/Regulation Workshop  
(UAS/RPAS/W) for the NAM/CAR/SAM Regions**  
**Segundo Taller de implementación/regulación del Sistema de aeronaves pilotadas a distancia y los Sistemas  
de aeronaves no tripuladas (UAS/RPAS/W) para las Regiones NAM/CAR/SAM**  
**(UAS/RPAS/W)**

On-line, 28 September to 1 October 2021 / En línea, 28 de septiembre al 1 de octubre de 2021

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