



Agenda

Item 6: Operational concept for UAS air traffic management (CONOPS UTM)

INTEGRATION OF ACTIVITIES ON THE MANAGEMENT OF THE UAS AIR TRAFFIC

(Submitted by the Secretariat)

SUMMARY	
<p>The purpose of this paper is to present to SAM/IG/30 the CONOPS UTM, which was prepared in another area of SRVSOP specialists, to identify actions for study, development and improvement of the document, as well as the application of its fundamentals, when States need to prepare basic regulations and/or need to design (re-design) their airspace. This CONOPS is not intended to propose or endorse any specific UTM system design or technical solutions to meet the UTM challenge. Its main objective is to provide a comprehensive framework for such a system. Accordingly, the information contained in this CONOPS proposes a common set of guiding principles and enabling actions.</p>	
Referencia	
<ul style="list-style-type: none"> Meeting reports of the UAS/RPAS Focal Points of the SAM and SRVSOP States 	
ICAO's Strategic Objectives:	<p><i>A - Safety</i> <i>B - Air Navigation Capacity and Efficiency</i></p>

1. Background

1.1 The UAS Traffic Management Operations Concept (CONOPS UTM) was developed by the UAS/RPAS Focal Points designated by the SAM and SRVSOP States. After the approval of the State authorities, the First Edition – March 2023 was published. See documents at the following link:

<https://oaci.sharepoint.com/:f:/r/sites/SAMIG-Grupodeimplementacin/Shared%20Documents/REUNIONES%20SAMIG/TEMAS%20DE%20SAMIG%20Y%20REFERENCIAS/U%20T%20M%20y%20UAS%20RPAS?csf=1&web=1&e=ePbFz6>

1.2 It is necessary to identify actions for the study, development and improvement of the document, as well as the application of its fundamentals, when States need to prepare basic regulations and/or need to design (re-design) their airspace.

2. Analysis

2.1 The CONOPS UTM has been developed to enable the integration of UA into Very Low Level (VLL) airspace. This environment, in which operating procedures rely on human ability to maintain safety levels compatible with air activity, presents a variety of problems and challenges. The volume of UAS operations in this environment can reach a scale comparable to that of manned air traffic, representing a significant challenge for Authorities in the airspace management process.

2.2 The CONOPS UTM will apply to operations conducted in VLLs, **up to 400 feet above ground level, in controlled and uncontrolled airspace**, in operations with visual direct visibility (VLOS) and beyond visual direct visibility (BVLOS).

2.3 This CONOPS is not intended to propose or endorse any specific UTM system design or technical solutions to meet the UTM challenge. Its main objective is to provide a comprehensive framework for such a system. Accordingly, the information contained in this CONOPS proposes a common set of guiding principles and enabling actions.

2.4 The purpose of CONOPS UTM is to describe the conceptual elements associated with UAS operations in VLL airspace, which will serve to guide the development of solutions among the various actors involved in their implementation. In addition, CONOPS seeks to establish a gradual implementation approach, through field demonstrations and in a controlled environment, providing the data collection necessary for the maturation of the system.

2.5 Based on this premise, CONOPS will be updated as necessary, which aims to reflect the progress of research and the continued maturation of concepts resulting from collaboration among all stakeholders.

3. Suggested actions

3.1 The Meeting is invited to:

- a) Take note of the information submitted; and
- b) Analyse actions for the study, development and application of the CONOPS UTM, including the organization of SAM/IG working teams.