Webinar on the implementation of AMET-B0 and AMET-B1

(Virtual, 21 March 2023)

Agenda Item 1 : • ASBU Enablers and related actions to be taken to implement ASBU MET elements with the identified stakeholders

WP2.2 - ASBU MET Elements and Enablers

(Presented by the Secretariat)

SUMMARY	
This paper presents the presents the enablers of applicable ASBU MET elements as identified and approved by APIRG/25 through Decision 25/XX. Action by the Meeting **is provided in paragraph 3**	
REFERENCES ▪ APIRG/24 Meeting Report ▪ APIRG/25 Meeting Report ▪ The 6tfh GANP	
Strategic Objectives	***A – Safety, B – Air Navigation Capacity and Efficiency***

1 INTRODUCTION

1.1 **ASBU Enablers** are the components including **standards, procedures, training, technology, etc**., required to implement an element. Their goal is **to identify the stakeholders** involved in the implementation of an ASBU element as well as **all the necessary requirements**, in order **to ensure an effective implementation**. Some of the enablers can be elements in other threads, for instance: avionics or ground systems in the technology threads.

*1.1. **Les facteurs de mise en œuvre ASBU** sont les composants comprenant les **normes, les procédures, la formation, la technologie, etc.**, nécessaires à la mise en œuvre d'un élément. Leur objectif est d'identifier **les parties prenantes** impliquées dans la mise en œuvre d'un élément ASBU ainsi que toutes les exigences nécessaires, afin d'assurer une mise en œuvre efficace. Certains des facteurs peuvent être des éléments d'autres Fils, par exemple : l'avionique ou les systèmes au sol dans les fils technologiques.*

2 DISCUSSIONS

2.1. The enablers (generic) as defined above in introduction are provided in Appendix 1 to working paper.

2.2. Table 1 below indicates possible enablers for implementing AMET B0/1 and B1/4 in a given RODB. Note that this example is provided for discussions purpose.

ROBD CountryLand

Element	Enablers	Comments
AMET-B0/1 Meteorological observations products		
AMET-B1/4 Dissemination of meteorological information		

3 ACTION BY THE MEETING

3.1. The meeting is invited to:

a) Note the information provided in this working paper; and

b) Make comments as appropriate.

WP2.2 - Appendix 1- ASBU MET element Enablers

ASBU Modules	ASBU Elements	Enablers	Stakeholders
AMET-B0 Global, regional, and local meteorological information to support flexible airspace management, improved situational awareness, collaborative decision-making and dynamically optimized flight trajectory planning.	**AMET-B0/1** Meteorological observations products	• National framework amendment for the provision of meteorological observations products	• CAA
		• Procedures for the provision of meteorological observations products	• ANSP • MET Service Provider
		• Transmission of meteorological observations data from aircraft	• Aircraft Manufacturer
		• Automated systems and infrastructure to support the provision of meteorological observations products	• Airport Operator • ANPS • MET Service Provider
		• Training requirements for the provision of meteorological observations products	• CAA • ANSP • MET Service Provider • Airport Operator
	AMET-B0/2 Meteorological forecast and warning products	• National framework amendment for the provision of meteorological forecast products and warnings	• CAA
		• Procedures for the provision of Meteorological forecast products and warnings	• ANSP • MET Service Provider

ASBU Modules	ASBU Elements	Enablers	Stakeholders
		• Training requirements for the provision of meteorological forecast products and warnings	• CAA • ANSP • MET Service Provider • Airport Operator
		• Systems and infrastructure to support the provision of meteorological forecast and warning products	• MET Service Provider
	AMET-B0/3 Climatological and historical meteorological products	• National framework amendment for the provision of climatological meteorological information products	• CAA
		• Procedures for the provision of climatological meteorological information products	• ANSP • MET Service Provider
		• Training requirements for the provision of climatological meteorological information products	• CAA • ANSP • MET Service Provider • Airport Operator
		• Systems and infrastructure to support the provision of climatological meteorological products	• MET Service Provider
	AMET-B0/4 Dissemination of meteorological products	• National framework amendment for meteorological information exchange	• CAA
		• Procedures for meteorological information exchange	• ANSP • MET Service Provider
		• Communications infrastructure for meteorological information exchange	• ANSP • MET Service Provider

ASBU Modules	ASBU Elements	Enablers	Stakeholders
		• Training for meteorological information exchange	• ANSP • MET Service Provider
		• ICAO Meteorological Information Exchange Model (IWXXM) V1-V2	• ANSP • MET Service Provider
AMET-B1 Meteorological information supporting automated decision process or aids, involving meteorological information, meteorological information translation, ATM impact conversion and ATM decision support	**AMET-B1/1** Meteorological observations information	• National framework amendment for the provision of meteorological observations information	• CAA
		• Procedures for the provision of meteorological observations information	• ANSP • MET Service Provider
		• Transmission of meteorological observations information from aircraft	• Aircraft Manufacturer
		• Automated systems and infrastructure to support the provision of meteorological observations information	• Airport Operator • ANSP • MET Service Provider
		• Training requirements for meteorological observations information	• CAA • ANSP • MET Service Provider • Airport Operator
	AMET-B1/2 Meteorological forecast and warning information	• National framework amendment for the provision of meteorological forecast and warnings information	• CAA
		• Procedures for the provision of meteorological forecast and warnings information	• ANSP • MET Service Provider

ASBU Modules	ASBU Elements	Enablers	Stakeholders
		• Training requirements for Meteorological forecast and warning information	• CAA • ANSP • MET Service Provider • Airport Operator
		• Systems and infrastructure to support the provision of meteorological forecast and warning information	• MET Service Provider •
	AMET-B1/3 Climatological and historical meteorological information	• National framework amendment for the provision of climatological meteorological information	• CAA
		• Procedures for the provision of climatological meteorological information	• ANSP • MET Service Provider
		• Training requirements for climatological meteorological information	• CAA • ANSP • MET Service Provider • Airport Operator
		• Systems and infrastructure to support the provision of climatological meteorological information	• MET Service Provider
	AMET-B1/4 Dissemination of meteorological information	• National framework amendment for the dissemination of meteorological information	• CAA
		• Procedures for the dissemination of meteorological information	• ANSP • MET Service Provider

ASBU Modules	ASBU Elements	Enablers	Stakeholders
		• Communication infrastructure for meteorological information exchange	• ANSP • MET Service Provider
		• Training for the dissemination of meteorological information	• CAA • ANSP • MET Service Provider • Airport Operator
		• ICAO Meteorological Information Exchange Model (IWXXM) V3	• ANSP • MET Service Provider