

EUROCONTROL Guidance for Military Aeronautical Information Publications Consistency with ICAO Annex 15



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Abstract
<p>The purpose of this document is to provide EUROCONTROL Guidance to develop and to publish harmonised Aeronautical Information Publications for military organisations.</p> <p>The present document was endorsed at the 20th meeting of Military ATM Board (MAB) on 3rd May 2017.</p>

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ANNEX A - Template

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EXECUTIVE SUMMARY

The purpose of this document is to provide EUROCONTROL Guidance to enable military organisations to implement an harmonised way to elaborate and to publish Military Aeronautical Information Publications (AIPs) in Europe.

The document is released in the framework of Harmonisation of Military Aeronautical Information in Europe through the EUROCONTROL Aeronautical Information Services (AIS) Database (EAD) initiative (HMAI).

Conformance of European military and civil-military AIP format to ICAO Annex 15 is necessary to facilitate the potential integration of military data in EAD and to increase overall AIP harmonisation and consistency of the information published and used by European aviation stakeholders.

Migration of military organisations as Data Providers and/or Data Users to EAD will improve the availability, completeness and harmonisation of aeronautical information. That will facilitate the alignment of military stakeholders with the objectives of the Single European Sky ATM Research (SESAR) programme, both in its development and deployment phases, in line with the European ATM Master Plan Technology Changes and Roadmaps supporting SWIM, Advanced FUA, Digital NOTAM and Mission Trajectory amongst other services.

Activities are ongoing to adapt the AIXM model used by the EAD static database (SDM) and therefore the conformity of military AIP formats with the one defined in ICAO Annex 15 is a critical requirement.

1. INTRODUCTION

1.1 Background

As part of the Harmonisation of Military Aeronautical Information in Europe through the EUROCONTROL Aeronautical Information Services (AIS) Database (EAD) initiative (HMAI), an analysis of ten military Aeronautical Information Publications (AIP) has been performed in 2014. The HMAI initiative has been underway since 2012 and will now progress through the harmonisation of Military AIP and alignment with ICAO SARPs, the continuation of EAD preparation to better accommodate military AIP as well as the support for the migration of military organisations to EAD as static and dynamic Data Provider and Data User.

This analysis has identified a range of differences between the structure of the present military AIPs and the AIP template as published in the International Civil Aviation Organisation (ICAO) Annex 15, Appendix 1. Some additional military specific information items have been identified.

This analysis has complemented recommendations of the EUROCONTROL AIP Task Force (AIP-TF), which were proposed and accepted in due time.

Whilst there is no obligation for the military to apply the template of ICAO Annex 15, there are user benefits in this being applied and the fact that all the analysed Military AIPs were, to a lesser or greater extent, based upon the ICAO template is a good indication that this is generally accepted by the military AIS.

Further analysis of the information contained within military AIPs suggested that despite the structural differences much of the information contained could be included within the standard civil AIP template.

Migration of military organisations as Data Providers and/or Data Users to the European AIS Database (EAD) will improve the availability, completeness and harmonisation of aeronautical information. That will facilitate the alignment of military stakeholders with the objectives of the Single European Sky ATM Research (SESAR) research programme, both in its development and deployment phases, in line with the European ATM Master Plan Technology Changes and Roadmaps supporting SWIM, Advanced FUA, Digital NOTAM and Mission Trajectory amongst other services.

1.2 Purpose of the document

The purpose of this document is to provide EUROCONTROL Guidelines Guidance to enable military organisations to implement a harmonised way to elaborate and to publish the Military Aeronautical Information Publications (AIPs) in Europe.

1.3 Scope of the document

This document is applicable to military AIS/AIM and provides recommendations to insert specific military information into the appropriate section of the AIP template as defined within ICAO Annex 15, Appendix 1.

1.4 Conventions

This paragraph may include explanations on how specific words like “shall”, “should” and “may” are used in this document. You will find below usual wording conventions for specification and guidelines:

1. Guidelines using the operative verb **shall** indicate that they **must be** implemented to achieve the minimum objectives of this guidance material.
2. Guidelines using the operative verb **should** indicate that they are **recommended** to achieve the best possible implementation of this guidance material.
3. Guidelines using the operative verb **may** indicate **options**.

It may also explain the convention for identifying and numbering requirements in the case of a specification.

1.5 Abbreviations

AARA	Air to Air Refuelling Areas
AD	Aerodrome
AIP	Aeronautical Information Publication
AIP-TF	AIP Task Force (AIM-SWIM Team)
AIS	Aeronautical information service
AIXM	Aeronautical Information Exchange Model
ATS	Air Traffic Service
EAD	European AIS Database
ENR	En-Route
FUA	Flexible Use of Airspace

GEN	General
HMAI	Harmonisation of Military Aeronautical Information in Europe through the EUROCONTROL Aeronautical Information Services (AIS) Database (EAD)
ICAO	International Civil Aviation Organization
NM	Network Manager
NMOC	Network Manager Operations Centre
NOTAM	Notice to Airmen
OAT	Operational Air Traffic
SDO	EAD static data base
SESAR	Single European Sky ATM Research
SDM	Static Data Management
SWIM	System Wide Information Management
TACAN	TACTical Air Navigation

1.6 Reference material

- [RD 1]** ICAO Annex 15, Aeronautical Information Services, Fifteenth Edition
- [RD 2]** Doc.8126, Aeronautical Information Services Manual, Sixth Edition

2. HARMONISATION GUIDELINES FOR MIL AIP PROVISIONS

Guidelines described in this paragraph aim at providing recommendations to develop harmonised military AIPs supporting information consistency and facilitating automated processing at network and local level.

A summary of sections and sub-sections with reference to ICAO Annex 15, Appendix 1, that need guidance is provided in Annex A of this document with particular harmonisation recommendations indicated. Military AIS/AIM officers should adhere to the provisions of Annex 15 as such for all sections and sub-sections not mentioned in Annex A.

ICAO Annex 15 comprises the following generic sections:

GEN 1 - NATIONAL REGULATIONS AND REQUIREMENTS
GEN 2 - TABLES AND CODES
GEN 3 - SERVICES
ENR 1 - GENERAL RULES AND PROCEDURES
ENR 2 - AIR TRAFFIC SERVICES AIRSPACE
ENR 3 - ATS ROUTES
ENR 4 - RADIO NAVIGATION AIDS/SYSTEMS
ENR 5 - NAVIGATION WARNINGS
ENR 6 - EN-ROUTE CHARTS
AD 1 - AERODROMES/HELIPORTS - INTRODUCTION
AD 2 - AERODROMES
AD 3 - HELIPORTS
Classifications
Abbreviations

In this way, the military AIPs will become more aligned with ICAO Annex 15, Appendix 1.

2.1 GEN 1 - National Regulations and Requirements

2.1.1 Military designated authorities

Harmonisation Guideline # 01/01	Military aviation authorities should be included in GEN 1.1.
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2.1.2 Entry, Transit and Departure for foreign military aircraft

Harmonisation Guideline # 01/02	Information on entry, transit and departure procedures for foreign military aircraft into and over their State's territory should be published in GEN 1.2
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2.1.3 National Regulations and Agreements – Military aviation

Harmonisation Guideline # 01/03	MIL information related with national regulations and agreements/conventions applied to MIL flights should be published in GEN 1.6.
--	---

2.2 GEN 2 - Tables and Codes

2.2.1 General and en-route MIL Radio and Navigation Aids Units

Harmonisation Guideline # 02/01	Information regarding general and en route MIL radio and navigation aids should be published in GEN 2.5. (See also ENR 4.1, AD 2.19 and/or AD 3.18, depending on the purpose the aid serves).
--	---

2.3 GEN 3 - Services

2.3.1 MIL AIS Information

Harmonisation Guideline # 03/01	MIL AIS information should be included in GEN 3.1.
--	--

2.3.2 NOTAM & SNOWTAM Publication

Harmonisation Guideline # 03/02	Information related to NOTAM & SNOWTAM publication should be included in GEN 3.1
--	--

2.3.3 Instrument procedures Charts

Harmonisation Guideline # 03/03	Information about use of Instrument procedures Charts should be published in GEN 3.2.4.
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2.3.4 ATS contingency planning

Harmonisation Guideline # 03/04	Information about ATS contingency planning should be published in GEN 3.3.1
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2.3.5 ATS Delegations

Harmonisation Guideline # 03/05	Information about ATS Delegations should be published in GEN 3.3.2.
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2.3.6 RVSM Application Area

Harmonisation Guideline # 03/06	Information about RVSM Application Area should be published in GEN 3.3.3.
--	---

2.3.7 Alerting services

Harmonisation Guideline # 03/07	MIL alerting services should be included in GEN 3.3.3.
--	--

2.3.8 Exemptions to 8.33 kHz and RVSM equipped Aircraft

Harmonisation Guideline # 03/08	Details regarding the exemptions to 8.33 kHz and RVSM equipped aircraft should be included in GEN 3.3.3.
--	--

2.3.9 Military infrastructure availability codes and weather colour state codes

Harmonisation Guideline # 03/09	National military infrastructure availability codes and weather colour state codes information should be included in GEN 3.5.3.
--	---

2.4 ENR 1 - General Rules and Procedures

2.4.1 Aircraft Flameout Procedures tactical flights

Harmonisation Guideline # 04/01	Information regarding Aircraft Flameout Procedures should be published in ENR 1.1 General Rules
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2.4.2 ATS Route crossing

Harmonisation Guideline # 04/02	Information on ATS Route crossing should be published in ENR 1.8.
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2.4.3 Communications Failure

Harmonisation Guideline # 04/03	Information on Communications Failure should be published in ENR 1.8
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2.4.4 Procedures with OAT details

Harmonisation Guideline # 04/04	Information on Procedures with OAT details should be published in ENR 1.8.
--	--

2.4.5 Airspace reservation procedures

Harmonisation Guideline # 04/05	Information on Airspace reservation procedures for MIL operations should be published in ENR 1.9.
--	---

2.4.6 Advisory Information on improved OAT FPL

Harmonisation Guideline # 04/06	Any restriction, limitation or advisory information related to improved OAT FPL should be published in ENR 1.10
--	---

2.4.7 Addressing of OAT FPL messages

Harmonisation Guideline # 04/07	Information on addressing improved OAT FPL messages should be published in ENR 1.11
--	---

2.4.8 Safety occurrence reporting system

Harmonisation Guideline # 04/08	Information on Safety occurrence reporting system should be published in ENR 1.14
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2.5 ENR 2 - Air Traffic Services Airspace

2.5.1 Procedures for Air Traffic Services Provisions

Harmonisation Guideline # 05/01	Information regarding Area of Responsibility (AOR) of military controlling units (MCU) should be published in ENR 2.1.
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2.6 ENR 3 - ATS Routes

2.6.1 Helicopter routes

Harmonisation Guideline # 06/01	MIL information on helicopter routes should be published in ENR 3.4.
--	--

2.6.2 Specific routes and procedures

Harmonisation Guideline # 06/02	MIL information for specific routes and procedures should be published in ENR 3.5. Note: Ideally Airspace should be described in ENR 1 & 2 while routes should appear in ENR 3.
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2.6.3 ATS TACAN routes RNAV

Harmonisation Guideline # 06/03	MIL information regarding TACAN routes should be published in ENR 3.5
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2.6.4 Orbit areas

Harmonisation Guideline # 06/04	Information on Orbit areas utilised by military aircraft should be published in ENR 3.6
--	---

2.7 ENR 4 - Radio Navigation AIDS/Systems

2.7.1 En-route MIL Radio Navigation

Harmonisation Guideline # 07/01	Information regarding en route MIL Radio Navigation Aids should be published in ENR 4.1 (see also GEN 2.5 List of radio navigation aids, AD 2.19 Radio navigation landing aids and/or AD 3.18 Radio navigation and landing aids).
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2.8 ENR 5 - Navigation Warnings

2.8.1 Military exercise and training areas and air defence identification zone

Harmonisation Guideline # 08/01	General rules and procedures, description of low altitude flights (including the Flightplan BufferZone FBZ of mil exercise areas), helicopter training areas, specific low flying areas, and air defence exercise areas & identification zones should be published in ENR 5.2.
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2.8.2 Military information regarding target towing and AARAs

Harmonisation Guideline # 08/02	MIL information regarding target towing and AARAs should be published in ENR 5.3.
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2.9 ENR 6 - En-Route Charts

2.9.1 Military low altitude charts

Harmonisation Guideline # 09/01	MIL information with regard to low altitude charts should be published in ENR 6 Charts.
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2.10 AD 1 - Aerodromes/Heliports - Introduction

2.10.1 Runway friction measuring devices

Harmonisation Guideline # 10/01	General information on Runway friction measuring devices should be published in AD 1.1.5.
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2.10.2 General information regarding services

Harmonisation Guideline # 10/02	General information regarding services such as fuel, oil and de-icing agents; oxygen systems and starting units should be published in AD 1.1.6.
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2.10.3 General information regarding Arresting Systems

Harmonisation Guideline # 10/03	General information on Arresting Systems and their description should be published in AD 1.1.6. (See Recommendation 2-57-1 regarding specific arrester system information).
--	---

2.10.4 Rescue and fire-fighting information

Harmonisation Guideline # 10/04	States should describe the national system in AD 1.2.1. States should conform to either ICAO or NATO categories. (See Recommendation 2-56-1 regarding specific rescue and fire-fighting information).
--	---

2.11 AD 2 - Aerodromes and AD 3 - Heliports

2.11.1 Magnetic variation and annual change

Harmonisation Guideline # 11/01	Magnetic variation and annual change should be published in AD 2.2 Aerodrome Geographical and Administrative Data (para 2.2.5) & AD 3.2 Heliport Geographical and Administrative Data (para 3.2.5).
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2.11.2 Aerodrome Starting Unit facilities

Harmonisation Guideline # 11/02	Information on starting unit facilities for an aerodrome should be published in AD 2.4 under item 7) remarks.
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2.11.3 Aerodrome Oxygen facilities

Harmonisation Guideline # 11/03	Information on oxygen facilities for an aerodrome should be published in AD 2.4 under item 7) remarks.
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2.11.4 Specific information on rescue and fire-fighting

Harmonisation Guideline # 11/04	Specific information on rescue and fire-fighting services should be described in AD 2.6 and AD 3.6
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2.11.5 Runway Physical Characteristics, Taxiways

Harmonisation Guideline # 11/05	States should apply internationally recognised classifications and use PCN (Pavement Classification Number) in accordance with ICAO SARPS. This should be listed in the following sub-sections: for AD Runways in AD 2.12; AD Taxiways in AD 2.8 and for Heliports in AD 3.8 and AD 3.12, as required.
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2.11.6 Specific information on arrester systems

Harmonisation Guideline # 11/06	Specific information on arrester systems should be published in AD 2.9.
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2.11.7 Aerodrome Arrestor Systems

Harmonisation Guideline # 11/07	Information on arrestor system present on the runway direction should be published in AD 2.12 under item 14) remarks.
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2.11.8 MIL Radio Navigation Aids for landing

Harmonisation Guideline # 11/08	Information regarding MIL Radio Navigation Aids for landing should be published in AD 2.19 and/or AD 3.18. (also see GEN 2.5 List of radio navigation aids and ENR 4.1 Radio navigation aids – en-route)
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2.11.9 Pyrotechnics on the airfield/aerodrome

Harmonisation Guideline # 11/09	Information regarding pyrotechnics on the airfield/aerodrome should be published in AD 2.20.
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2.12 Miscellaneous

2.12.1 Classification

Harmonisation Guideline # 12/01	States should comply with ICAO SARPS and avoid other classifications such as the NATO classification system, if possible.
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2.12.2 Specific MIL abbreviations

Harmonisation Guideline # 12/02	For MIL harmonisation, an asterisk should be used to mark specific MIL abbreviations and MIL in the brackets, without creating any separate section.
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ANNEX A - TEMPLATE

ICAO, Annex 15, Appendix 1 Template	Harmonisation Guidelines
GEN 1- National Regulations and Requirements GEN 1.1 GEN 1.2 GEN 1.6	Harmonisation Guideline # 01/01 Harmonisation Guideline # 01/02 Harmonisation Guideline # 01/03
GEN 2 - Tables and Codes GEN 2.5	Harmonisation Guideline # 02/01
GEN 3 - Services GEN 3.1 GEN 3.1 GEN 3.2.4 GEN 3.3.1 GEN 3.3.2 GEN 3.3.3 GEN 3.3.3 GEN 3.3.3 GEN 3.5.3	Harmonisation Guideline # 03/01 Harmonisation Guideline # 03/02 Harmonisation Guideline # 03/03 Harmonisation Guideline # 03/04 Harmonisation Guideline # 03/05 Harmonisation Guideline # 03/06 Harmonisation Guideline # 03/07 Harmonisation Guideline # 03/08 Harmonisation Guideline # 03/09
ENR 1 - General Rules and Procedures ENR 1.1 ENR 1.8 ENR 1.8 ENR 1.8 ENR 1.9 ENR 1.10 ENR 1.11 ENR 1.14	Harmonisation Guideline # 04/01 Harmonisation Guideline # 04/02 Harmonisation Guideline # 04/03 Harmonisation Guideline # 04/04 Harmonisation Guideline # 04/05 Harmonisation Guideline # 04/06 Harmonisation Guideline # 04/07 Harmonisation Guideline # 04/08
ENR 2 - Air Traffic Services Airspace ENR 2.1	Harmonisation Guideline # 05/01
ENR 3 - ATS Routes ENR 3.4 ENR 3.5 ENR 3.5 ENR 3.6	Harmonisation Guideline # 06/01 Harmonisation Guideline # 06/02 Harmonisation Guideline # 06/03 Harmonisation Guideline # 06/04
ENR 4 - Radio Navigation AIDS/Systems ENR 4.1	Harmonisation Guideline # 07/01
ENR 5 - Navigation Warnings ENR 5.2 ENR 5.3	Harmonisation Guideline # 08/01 Harmonisation Guideline # 08/02
ENR 6 - En-Route Charts ENR 6	Harmonisation Guideline # 09/01

ICAO, Annex 15, Appendix 1 Template	Harmonisation Guidelines
AD 1 - Aerodromes/Heliports - Introduction AD 1.1.5 AD 1.1.6 AD 1.1.6 AD 1.2.1	Harmonisation Guideline # 10/01 Harmonisation Guideline # 10/02 Harmonisation Guideline # 10/03 Harmonisation Guideline # 10/04
AD 2 - Aerodromes AD 2.2 AD 2.4 AD 2.4 AD 2.6 AD 2.8; AD 2.12 AD 2.9 AD 2.12 AD 2.19 AD 2.20	Harmonisation Guideline # 11/01 Harmonisation Guideline # 11/02 Harmonisation Guideline # 11/03 Harmonisation Guideline # 11/04 Harmonisation Guideline # 11/05 Harmonisation Guideline # 11/06 Harmonisation Guideline # 11/07 Harmonisation Guideline # 11/08 Harmonisation Guideline # 11/09
AD 3 - Heliports AD 3.2 AD 3.6 AD 3.8 ; AD 3.12 AD 3.18	Harmonisation Guideline # 11/01 Harmonisation Guideline # 11/04 Harmonisation Guideline # 11/05 Harmonisation Guideline # 11/08
Classifications	Harmonisation Guideline # 12/01
Abbreviations	Harmonisation Guideline # 12/02



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