



18 Februray 2015

NSO(C3B)0244(2015)AC/322/5535

MCJSB

STANAG 5535 AC/322 (EDITION 1) – AIR SURVEILLANCE AND GROUND BASED SENSORS INFORMATION EXCHANGE - ADatP-35

Reference: AC/322(SC/5)N(2010)0017 dated 18 June 2010

1. The enclosed NATO Standardization Agreement, which has been ratified by nations as reflected in the NATO Standardization Document Database (NSDD), is promulgated herewith.
2. The reference listed above is to be destroyed in accordance with local document destruction procedures.

ACTION BY NATIONAL STAFFS

3. National staffs are requested to examine their ratification status of the STANAG and, if they have not already done so, advise the NHQC3S, through their national delegation as appropriate of their intention regarding its ratification and implementation.



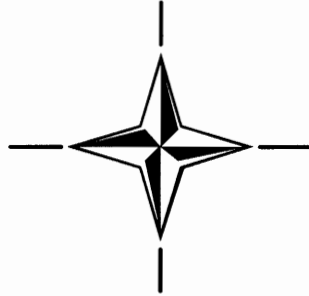
Edvardas MAŽEKIS
Major General, LTU AF
Director, NATO Standardization Office

Enclosure:
STANAG 5535 (Edition 1)

NATO UNCLASSIFIED

STANAG 5535
(Edition 1)

**NORTH ATLANTIC TREATY ORGANIZATION
(NATO)**



**NATO STANDARDIZATION OFFICE
(NSO)**

**STANDARDIZATION AGREEMENT
(STANAG)**

SUBJECT: AIR SURVEILLANCE AND GROUND BASED SENSORS INFORMATION
EXCHANGE - ADatP-35

Promulgated on 18 February 2015

A handwritten signature in black ink, appearing to be 'Edvardas MAŽEIKIS', is written over a large, stylized, curved line that sweeps from the bottom left towards the top right. The signature is fluid and cursive.

Edvardas MAŽEIKIS
Major General, LTU AF
Director, NATO Standardization Office

NATO UNCLASSIFIED

NATO UNCLASSIFIED

RECORD OF AMENDMENTS

No.	Reference/date of Amendment	Date Entered	Signature

EXPLANATORY NOTES

AGREEMENT

1. This NATO Standardization Agreement (STANAG) is promulgated by the Director NATO Standardization Office under the authority vested in him by the NATO Standardization Organisation Charter.
2. No departure may be made from the agreement without informing the tasking authority in the form of a reservation. Nations may propose changes at any time to the tasking authority where they will be processed in the same manner as the original agreement.
3. Ratifying nations have agreed that national orders, manuals and instructions implementing this STANAG will include a reference to the STANAG number for purposes of identification.

RATIFICATION, IMPLEMENTATION AND RESERVATIONS

4. Ratification, implementation and reservation details are available on request or through the NSO websites (internet <http://nso.nato.int>; NATO Secure WAN <http://nso.hq.nato.int>).

FEEDBACK

5. Any comments concerning this publication should be directed to NATO/NSO – Bvd Leopold III - 1110 Brussels - BEL

NATO UNCLASSIFIED

INTENTIONALLY LEFT BLANK

NATO UNCLASSIFIED

**NATO STANDARDISATION AGREEMENT
(STANAG)**

**AIR SURVEILLANCE AND GROUND-BASED SENSORS
INFORMATION EXCHANGE**

REFERENCES

- (a) Bi-SC AIS Concept of Operations for the NATO Common Operational Picture, dated 2nd January 2001
- (b) EUROCONTROL Surveillance Data Exchange Part 1 (SUR.ET1.ST05.2000-STD-01-01 Edition 1.29 dated February 2002)
- (c) SHAPE letter 12.10.03.00/SHOXA/2510/05 dated 25 October 2005

AIM

- (1) The aim of this STANAG 5535 is two-fold:
 - a. To register national agreement to use the EUROCONTROL¹ All Purpose Structured Eurocontrol Radar Information Exchange (ASTERIX) standard as a NATO standard for air surveillance data and ground-based sensors information exchange; and
 - b. To register national acceptance of ADatP-35 as the NATO Compendium of ASTERIX Special Military Data Categories.

BACKGROUND

- (1) The NATO Air Command and Control System (ACCS) includes the Recognised Air Picture (RAP) production capability in accordance with reference (a). The detection, collection, fusion, identification and dissemination of air surveillance data gathered from (active and passive) military and civilian ground-based sensors needs to be supported by a single standard ensuring interoperability. The All Purpose Structured Eurocontrol Radar Information Exchange (ASTERIX) standard has been proven and is already in widespread use across NATO nations, providing the most suitable basis to this aim, but needs to be complemented with specific military data categories in support of NATO's information exchange of air surveillance and ground-based sensors.
- (2) One of the main aspects of ASTERIX is the Data Categories. The format contains up to 256 data categories which define the type of data exchanged over the communications medium between the different users. The Categories contain a Catalogue of Data Items (the Data Item being the smallest unit of information defined and standardized). Up to 256 Data Categories can be defined and their usage is as follows:
 - 000 to 127 – applicable for standard civil and military applications. These already exist and are published by EUROCONTROL;

¹ European Organization for the Safety of Air Navigation

NATO UNCLASSIFIED

- 128 to 240 – reserved for special military applications. These are the scope of ADatP-35, the NATO Compendium of ASTERIX Special Military Data Categories; and
 - 241 to 255 – used for both civil and military non-standard applications. Dedicated for future developments.
- (3) The purpose of ADatP-35 – *NATO Compendium of ASTERIX Special Military Data Categories* is to be the repository of agreed military data categories in order to ensure interoperability across NATO on the information exchange of air surveillance and ground-based sensors when using the ASTERIX standard. The NATO ACCS Management Agency (NACMA) is assigned with custodianship of this document.

AGREEMENT

- (1) Participating nations agree to use, where appropriate, the ASTERIX standard as defined in reference (b) and its subsequent editions, for the information exchange of air surveillance and ground-based sensors, as complemented by the special military data categories contained in the associated ADatP-35.
- (2) Changes to ADatP-35 will be incorporated into the publication and will be sent for promulgation by the ISSC as part of it, after formally offered by NACMA to implementing national authorities and have been agreed by them.

IMPLEMENTATION OF THE AGREEMENT

- (1) This STANAG 5535 is considered to be implemented when the ADatP-35 is published with a NATO effective date declared by the NATO C3 Board.