

Supporting  
European  
Aviation



# High Level Workshop on Drone Detection

## ASTERIX is making the Link

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NETWORK  
MANAGER



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All purpose

STructured

Eurocontrol

suRveillance

Information

eXchange

# ASTERIX Governance

Globally accepted Standard!

ASTERIX Management Group (AMG) und SUR SG

- ➔ international representation
- ➔ Approval of Specifications

Contact: EUROCONTROL ASTERIX Manager ([asterix@eurocontrol.int](mailto:asterix@eurocontrol.int))

Library: <https://www.eurocontrol.int/asterix>

- Bit level definition of a data exchange format
- Set of documents
  - Part 1: Basic Principles of ASTERIX
  - Parts 2ff: Category specifications > applications
    - Cat. 048/034: Radar
    - Cat. 021/023: ADS-B
    - Cat. 020/019: Multilateration
    - Cat. 015/016: Independent Non-Cooperative Surveillance (non-cooperative targets)
    - Cat. 129: UAS Identification and Target Reports (cooperative targets)

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    - **Cat. 129: UAS Identification and Target Reports** (cooperative targets)

# ASTERIX Category 015

## Independent Non-Cooperative Surveillance (INCS) System Target Reports

- Edition 1.0 Released 15 July 2019
- Developed in close cooperation with EUROCAE WG-103 → Standard
- Applicable to all types of INCS Systems
  - Mono-Static
  - Bi-Static
  - Multi-Static
  - Electro-optical
- Position in WGS-84 and polar coordinates plus height (if available)
- Technical and Operational Outputs (processing stages)
- Extensive correlation/covariance information to support tracking
- Link to Cat. 016 to indicate contributing sensors

# ASTERIX Category 016

## Independent Non-Cooperative Surveillance (INCS) System Configuration Reports

- Edition 1.0 Released 15 July 2019
- Provide information on contributors to target reports
- Multiple types of systems/technologies may contribute
- Pair ID makes link to category 015
- Transmitter configuration
- Receiver configuration

# ASTERIX Category 129

## UAS Identification and Target Reports

- Data Item I129/020: UAS Manufacturer Identifier
- Data Item I129/030: UAS Model Identifier
- Data Item I129/040: UAS Serial Number
- Data Item I129/050: UAS Office Registration Country
- Data Item I129/080: Position in WGS-84 Coordinates
- Data Item I129/090: Altitude above Mean Sea Level
- Data Item I129/100: Altitude above Ground Level
- Data Item I129/120: Operational Risk Levels



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# THANK YOU VERY MUCH FOR YOUR ATTENTION

Questions:

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