



Communication Satellites for Defence and Security Challenges and opportunities

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SATCOM for civilian security purposes

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SATCOM for Security: the civilian Users

User communities

- Border Surveillance
- Maritime Security
- Police missions
- Civil Protection
- Humanitarian Aid
- Transport Facilities
- EU Civil CSDP Missions and Operations

Emerging Trends

- Drones
 - RPAS,
 - Other Drones
- Artic communications

Infrastructures using critical SATCOMs

- Transport Infrastructures
 - including Single European Sky ATM dimension, Global flight tracking, ERTMS
- Integrated Information Infrastructure
 - The European Border Surveillance System (EUROSUR)
 - The Common Information Sharing Environment (CISE) for integrated maritime surveillance
- Space Infrastructures
 - including EGNOS GALILEO and COPERNICUS
- EU Institutional Communications

Study: Identification of the requirements for Satellite Communication to support EU Security Policies and Infrastructures:



Phase 1: Civil User SATCOM Requirements

Phase 2: Landscaping exercise (solutions)

**Phase 3:
Scenario and
technology
roadmap**

Overall approach

Documentation review



SATCOM Security Users Workshop



Interviews & Workshops with users



Definition of a
**set of 31
main
missions**
covering the
activities
performed by
UC & INFRA

Mission n°1

UC 1

UC 2

Mission n°2

UC 2



Mission n°31

UC 5

INFRA 1

Collection of
current and future
**high level
SATCOM user
requirements**
for each main
missions

Mission n°1

● Req #1 ● ● ● ●

● Req #2 ● ● ● ● ●

Mission n°2

● Req #1 ● ● ● ● ●

● Req #3 ● ● ● ● ●



Mission n°31



Consolidation of high level
SATCOM user requirements
from all main missions of each
UC & INFRA:
**‘High Level SATCOM User
Requirements’ document**



Main findings

- *Growing security user needs*
- *Specific security/defence risks*
- *Uncertain evolution of the SATCOM supply*

Way forward

- *Pool SATCOM demand*
- *Make best use of existing COMMERCIAL and GOVSATCOM systems*
- *Prepare the next generation GOVSATCOM together*

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