GOVSATCOM Use Cases & Acronyms

Reference annex to the 5G-HUB Final Users Questionnaire

This reference sheet accompanies the 5G-HUB Final Users Questionnaire. It provides the complete list of GOVSATCOM use cases referenced in the survey — grouped according to the three GOVSATCOM Fields of Application (Surveillance, Crisis Management, Key Infrastructures), plus specific use cases for civil and military users — together with the acronyms used throughout the questionnaire.

1 · Use Cases — Full List

SURVEILLANCE

Border surveillance

- Sea border scenarios
- Land border scenarios
- Pre-frontier scenarios
- Military missions and operations (CSDP & national)

Maritime surveillance & control

- Maritime safety and surveillance
- Maritime security: illegal activities
- Fisheries Monitoring Control and Surveillance
- Protection of shore and maritime resources
- Protection of subaquatic cultural heritage
- Military missions and operations

CRISIS MANAGEMENT

Maritime Emergency

- Maritime Search and Rescue (SAR)
- Response to maritime disasters – civil
- Response to maritime disasters – military
- Telemedicine (onboard ships)

Humanitarian Aid

- Assistance in case of disasters and armed conflicts
- Telemedicine
- Refugee camps main communication
- Refugee camps welfare services (e.g. videoconference)
- Peacekeeping mission communications

Civil Protection

- Response to natural and man-made disasters
- Ambulance and fire risk rescue response within EU
- Information dissemination (e.g. open messages comms)
- Forest fires early-warning video surveillance
- External Public protection

Law Enforcement Interventions

- Fight against international drug traffic
- Fight against international Organized Crime Groups (OCG)
- National police missions within EU
- Fight against environmental crimes (e.g. illegal waste dumping).

EU External Action

- Civilian CSDP missions
- Election observation
- EU Diplomatic representation in foreign countries
- Intelligence
- UN missions
- NATO missions

Forces deployment

- Defence National Territory
- Support Air Defence systems
- Joint military C2 network resilience – secondary links
- Support to other governmental bodies
- HQ Operations connection
- Air alternative communications
- Maritime military research – ship communications

KEY INFRASTRUCTURES

Transport infrastructures

- Air traffic management
- Rail traffic management
- Road traffic management
- Maritime traffic management

Space Infrastructures

- Space segment infrastructure protection and service enhancement
- Ground segment infrastructure protection and service enhancement
- Launch segment infrastructures enhancement (e.g. CGS)
- Service synergies (e.g. Copernicus, Galileo, SSA)
- Military space segment infrastructure protection and enhancement
- Military ground segment infrastructure protection and enhancement

Institutional Communications

- National diplomacy (e.g. connectivity between HQ and remote sites, dedicated secure lines of communication)
- EU delegations out of the EU
- Connectivity to the ECHO field offices outside EU
- EU High & Special Representatives
- EUROPOL network
- Police routine operations

Cyber-Security Operations

- Secure out-of-band management for critical nodes
- Resilient communication for CSIRT coordination during terrestrial outages

Utility & Resource Management

- Remote monitoring of Smart Grids and water distribution
- M2M/IoT security for energy infrastructure in unserved areas

Governmental Logistics

- Secure tracking of sensitive/classified institutional assets
- Seamless 5G-Sat connectivity for diplomatic and high-value transport

Other Critical Infrastructures

- Energy grid infrastructures – backup communication link
- CBNR Infrastructures – backup communication link
- Financial Infrastructures (e.g. National or EU institutions) – backup communication link
- Telecommunications Infrastructure (e.g. secure backup link, interconnection between systems)
- ICT infrastructure

SPECIFIC USE CASES FOR CIVIL AND MILITARY USERS

Polar Regions

- Surveillance services
- Diplomatic activity e.g. international actions
- Protection of space infrastructure
- Air Traffic Management (ATM)
- Crisis management missions
- Military operations in the Arctic
- Dissemination of space data in the Arctic regions

UAV/RPAS Beyond Line-of-Sight Communication – Aerial SatCom

- UAV/RPAS Command & Control communications
- UAV/RPAS sensor data transmission

SU-M. M2M & IoT communication

- Secure and cost-effective M2M communications
- IoT secure applications

2 · Acronyms

Acronym	Meaning
ATM	Air Traffic Management
CSDP	Common Security and Defence Policy
EC	European Commission
EU	European Union
FoA	Field of Application
GNSS	Global Navigation Satellite System
GOVSATCOM	Governmental Satellite Communications
HQ	Headquarters
IoT	Internet of Things
M2M	Machine to Machine
MS	Member State
PoC	Point of Contact
RPAS	Remotely Piloted Aerial System (same as UAV)
SAR	Search and Rescue
SATCOM	Satellite Communication
TBC	To Be Confirmed
TBD	To Be Defined
TV	Television
UAV	Unmanned Aerial Vehicle