

DEFENCE AND SPACE
SECURE COMMUNICATIONS

Syracuse IV

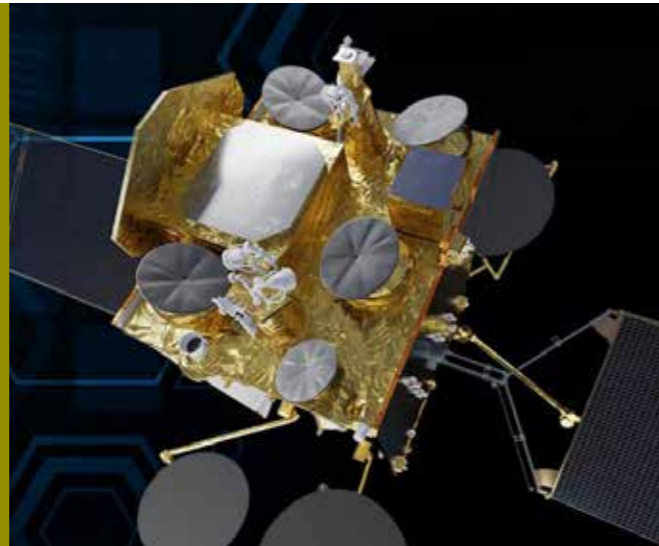
X and Military Ka Services
February 2023

Syracuse IV

The latest generation of Milsatcom system available to military trusted partners

Airbus and Telespazio two world leaders in satellite services have joined forces to sell capacities on Syracuse IV system.

The two companies ensure availability of these capacities to military users while the operation is performed by a dedicated entity « Airbus Telespazio Capacity Operator ».



A highly reliable, secure, safe and resilient solution compatible with the highest military standards

Syracuse IV is a telecommunication system consisting of a ground system and two military satellites, Syracuse 4A and 4B over a broad area ranging from the Caribbean to the Straits of Malacca.

The system is deployed for maritime, terrestrial and air missions allowing multi domain and multi platform operations. Allied forces have access to a trusted communication capacity in X-band, military Ka-band and X/Ka dual-band mode.

The system offers a unique flexibility, benefiting from the highest levels of protection and hardening and is compatible with international military standards (NATO), enabling mission continuity in congested and contested environments. The system is interoperable with other military satcom systems.

The Syracuse 4A satellite was successfully launched in 2021. The first service will open in Q1 2023.



LAND OPERATIONS (MISSION TO HQ)

OPERATIONAL THEATRE TO HQ NETWORK

FEATURES

- High capacity on critical and concentrated theatres
- Reduced susceptibility to jamming

MISSION

- Tactical communications
- Broadband network interconnectivity



MARITIME OPERATIONS

LARGE MARITIME NETWORKS

FEATURES

- Coverage of Atlantic and Indian Oceans, Mediterranean Sea,...
- Global or beam (with pointing control) spot

MISSION

- Government maritime network
- Maritime Intelligence, Surveillance and Reconnaissance (MISR)



AERO OPERATIONS

MOBILE COMMUNICATIONS IN THE AIR

FEATURES

- Sufficient data rates up to MALE-Class UAVs
- Large coverage for long track missions

MISSION

- Robust, Connected Command and Control (C2)
- Manned/unmanned Airborne Intelligence, Surveillance and Reconnaissance (AISR)

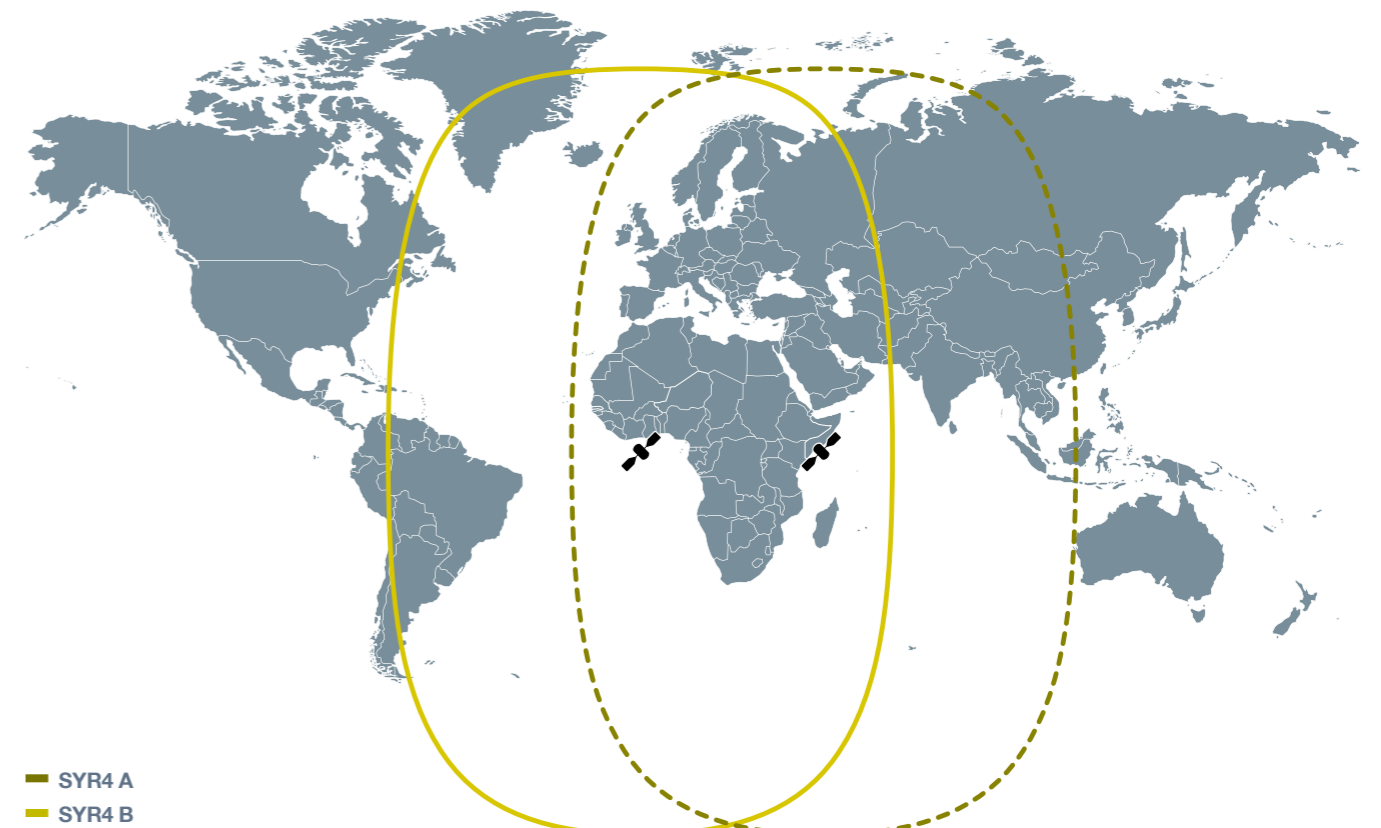
X-BAND

- Frequency band reserved for military customers for reliable, robust and secured communication links
- Multiple-mission beams
- Theatre coverage with steering rights
- Completely flexible payload reconfiguration
- Beam forming
- Embedded anti jamming and electronic warfare resistance
- For COTP and COTM applications
- For mobile forces (small dishes)
- High performance in harsh environments

MILITARY KA-BAND

- Frequency band for secured mobile communication at high throughput
- Multiple mission beams
- Theatre coverage with steering rights
- Completely flexible payload reconfiguration
- Beam forming
- Embedded anti jamming and electronic warfare resistance
- For ISR missions or COTM applications
- High throughputs

Services are managed and operated by a dedicated entity allowing a high level of availability, flexibility and reactivity in service definition, planning, set up and delivery. The system also allows a wide range of combinations between bands and beams offering users to implement the best service.



— SYR4 A
- - SYR4 B

TECHNICAL SPECIFICATIONS SYR4A & SYR4B

MANUFACTURERS	• Thales Alenia Space and Airbus Defence and Space	POLARISATION	• Circular
LAUNCHER	• Ariane	BEAMS	• Global beam • Fixed and Steerable theatre beams
LAUNCH DATE	• 2021	COVERAGE	• Atlantic Ocean, Europe, Middle East, Africa, Indian Ocean
BANDS	• X-band, Military Ka-band • Dual Band X/MilKa • Flexible X/MilKa payload	SECURITY	• Embedded protection and hardening against cyber, intercept and EMP/HANE-type threats. • Encrypted TTC's
DESIGN LIFE	• 15 years +		