

Strategic and tactical voice and data communications

- Long distance communications for stationary, deployable and mobile components
- International interoperability in action
- Robust, powerful and scalable communication skills
- High degree of flexibility for all operations through an intelligent mix of resources
- Combination of owner operation with proven rental service and service provision

Airbus Defence and Space

- Main contractor, architect and service provider for SATCOMBw (Germany)
- Main contractor, architect and service provider for SKYNET (Great Britain)
- Main contractor, architect and service provider for COMCEPT (France)
- Main contractor, architect and service provider for export projects
- SATCOM service provider for EU and NATO
- European leader in the construction of communications satellites
- More than 50 years experience in the construction of over 100 geostationary communication satellites
- Hardening to NATO standards, ECCM capabilities, hosted payloads
- National capabilities in critical areas
- Based on international technology for performance and efficiency



SATCOMBw Stage 3 – the next generation

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DEFENCE AND SPACE

SATCOMBw Stage 2

10 years of service
to the military

Design, implementation and
operation from a single source

AIRBUS

SATCOMBw Stage 2

Providing stability and support for Bundeswehr missions outside of Germany, principally in regions where communications between operational sites and the home base are unreliable. Tap-proof satellite-based networks can be deployed quickly and reliably. This requires not only your own satellites, but also a variety of fixed and transportable ground stations and equipment for controlling and monitoring the communication networks. SATCOMBw Stage 2 provides the Bundeswehr with perfect autonomy, security and absolute reliability for its satellite telecommunications.

Airbus Defence and Space is responsible as general contractor for the design, integration and supply of deployable systems, including the flight management of the two military satellites.

Satellite communications from Germany and around the world

powerful. secure. reliable

COMSATBw-1 and -2

- 2 military communications satellites in geostationary orbit
- Nominal positions 37°W and 63°E
- Take-off weight about 2.4 tonnes
- Total power about 3.2 kW
- Minimum lifetime 15 years
- NATO-compliant, UHF / P-band payload with global illumination
- NATO-compliant SHF / X-band payload with global and spot beam illumination
- ARIANE 5 satellite launches from the Guiana Space Centre at Kourou
- Launch Control / Mission Control Centre at Oberpfaffenhofen, near Munich
- Scheduled in-service deployment after extensive testing programme
- Reliable operation since 2009/10

Teleport services

- Implementation and operation of a large ground station system for data distribution and wide area network (BSGA)
- Integration in the SATCOMBw system network

Satellite control

- Management and control of military communications satellites and payloads as-a-service
- 24/7 operation by highly specialised experts
- Partnership with DLR / GSOC
- Architecture expandable to other satellites

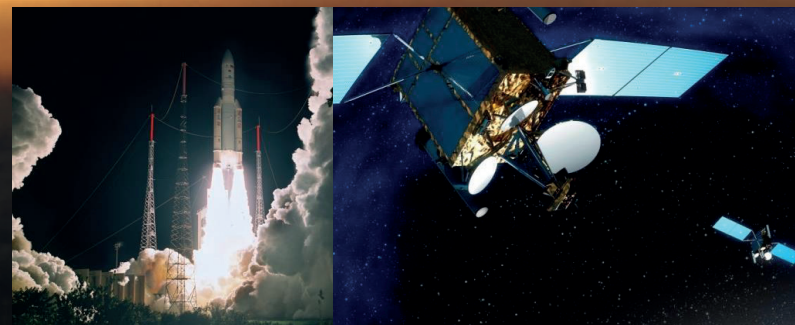
Use of civilian communications satellites

- Capacities of civilian communications satellites for the flexible expansion of COMSATBw- 1 and -2
- Integration of broadband, mobile systems into the SATCOMBw system network (land, sea, air)
- Leasing of selected satellites as-a-service

Ground-based equipment

- Extensive ground segment with over 600 transportable ground stations for all frequency bands (1.2 - 4.6 m class)
- Management and control segment with network planning and monitoring and individual control of all components in the ground segment

Taking on new challenges in today's digital age.



1993 – 1997

Technology preparation

2003

Defining the demand

2006

Signing of the contract

2009

Commissioning COMSATBw-1

2010

Commissioning COMSATBw-2

2011 – 2015

Extensions for UAVs and the Navy

2015

Completion of the construction and testing phase

2016

Service life extension

2025

Next generation