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

SATCOMBw Stage 2
10 years of service to the military
Design, implementation and operation from a single source

Contact

Airbus Defence and Space
Communications, Intelligence & Security
Secure Communications
Robert-Koch-Str. 1
82024 Taufkirchen – Germany
E: askgovsatcom@airbus.com
www.securecommunications-airbusds.com
www.airbusdefenceandspace.com
Secure telecommunications services for the German Army (Bundeswehr) in its theatre of operations

**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. Top-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

**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
- ARISAT 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