



MOGIS®

Mobile GSM Infrastructure over Satellite

The mobile GSM solution MOGIS (Mobile GSM Infrastructure over Satellite) provides GSM connectivity at places where it has not been available up to now - as in airplanes, on ships and at isolated locations. The request of business travelers for reachability via voice and data services during their whole travel, as well as quickly building up a wireless communications network in disclosed areas e.g. in case of emergency situations, such as natural disasters, can be finally satisfied. Due to its extreme scalability it can be adapted to any application imaginable.

Seamless GSM everywhere

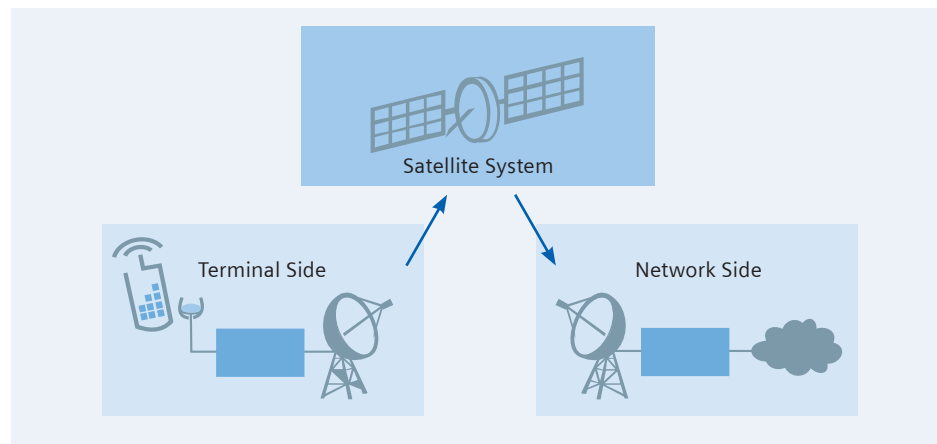
A long-standing wish of business travelers becomes true: The ability to make phone calls wherever they are, especially in airplanes and ships. But also in disclosed areas is mobile connectivity of vital interest in emergency situations, for example during natural disasters. The MOGIS system connects the user to the telecommunication world outside via a satellite link by use of local and remote equipment, and is completely transparent for the user at that.

Potential applications are:

- Business jets
- Cargo ships
- Cruise ships
- Small networks / camps
- Private luxury

The solution

MOGIS integrates into standard GSM-Network components. The MOGIS equipment on the user site builds a local GSM cell and forwards voice traffic over satellite equipment to the MOGIS components on the network side, thus providing access to the world's telecommunication networks. MOGIS provides GSM coverage everywhere, it is totally IP-based and supports different satellite systems, like Inmarsat, DVB-RCS and VSAT. Services can be activated centrally, depending on actual location or manually (e.g. no-annoyance mode for night flights, selective deactivation of calls, SMS, and GPRS, and remote mobile deactivation).



Your advantages

MOGIS not only provides you with a competitive edge by offering a special service to your customers but also offers cost advantages thanks to

- CAPEX/OPEX reduction by up to 7 parallel calls over one 64kBit/s satellite channel
- Re-use of existing infrastructure
- Possible integration with other IP Traffic (WLAN, WiMax, ...)

Nevertheless, due to automatic feature control and charging over well-established contractors, it can still be handled easily.

Flexibility and scalability

A MOGIS solution is tailored to your requirements of type and number of components, and it is widely scalable. It consists of the tailored concept plus high-quality hardware and software components:

- The BTS is the world's smallest pico-cellular base station for GSM, GPRS, EDGE, 900, 1800 or 1900MHz
- Our terminal side GSM server is available in different versions - perfectly geared to the respective application (maritime & car, stationary / rackmount, aviation)
- On-Board Control Equipment is required only for aircraft application; it automatically prevents mobile

stations to contact terrestrial networks, thus increasing flight safety

- Several satellite (SAT) terminal modem types are supported for several standard
- Different SAT antenna packages for fixed installations (aero and maritime) and land-mobile installations are supported by the Terminal Side GSM Server

The system is made complete by the Network Side GSM Server, the Base Station Controller and the MMS Management System, which is serving multiple remote locations. Relying on MOGIS flexibility you can expect a system that will perfectly meet your requirements.

Our Service

- We plan a MOGIS structure that will perfectly fit in with your application.
- We contact the right partners for you.
- We organize order and delivery of your system's hardware and software components.
- We install, configure, and enable your MOGIS system on-site.
- We will keep on being your partner in matters of service and support and for future extensions or upgrades.

Our References

We are proud that Airbus and OnAir are satisfied users of MOGIS systems.

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