



OTE D-MOST REMOTE-CONTROLLABLE MOBILE RADIO STATION

OTE D-MOST is the Selex ES newest solution to increase the flexibility of radio communications in the air traffic control environment. OTE D-MOST is an independent, configurable and easy to install radio system, suitable to work in any environments, such as rural zones, or in high density, electromagnetic conditions, like airports.

The OTE D-MOST mobile radio station features self set-up. This feature provides a time saving for both installation and commissioning, and does not require special instruments or tools. Typically the OTE D-MOST permits the use of new operating frequencies within two hours!

The Selex ES Mobile Radio System has been specifically designed to support the following scenarios:

- Operating frequency increasing for emergency or special situations during exceptional events (e.g. G8 Conference)
- Operating switchovers during refurbishment or maintenance works.
- Radio coverage and communication network extension in VHF or UHF aeronautical bands.





OTE D-MOST REMOTE-CONTROLLABLE MOBILE RADIO STATION

The OTE D-MOST station has been designed for fast and easy deployment by any form of transport. It incorporates fastening devices to securely attach the mobile station on the ground. The Mobile Radio Station can be carried by train, ship, aeroplane or freight truck, without using special warning signs.

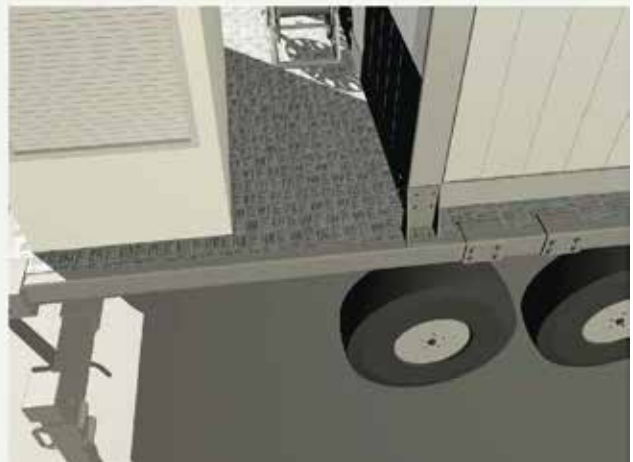
The mobile structure of the OTE D-MOST station comprises an air conditioning shelter loaded on a truck, on which are also placed the support poles for the antennas and a power supply generator. These make the mobile station autonomous and easy to use in any operating situation. The mobile structure comprises the following elements:

- Truck with two axles, approved for high road speeds, equipped with:
 - Spare tyre
 - Floor with shock absorber system
- Aluminium alloy shelter with galvanised steel mesh
- Stabilisation and levelling systems
- Power supply generator, with fuel tank, incorporating automatic recovery in the event of failure to the main power supply
- Support poles for the radiating elements
- Access points for operators (ladder).

The shelter of the OTE D-MOST station has been designed to host all devices and systems used for aeronautical ground-to-air radiocommunications.

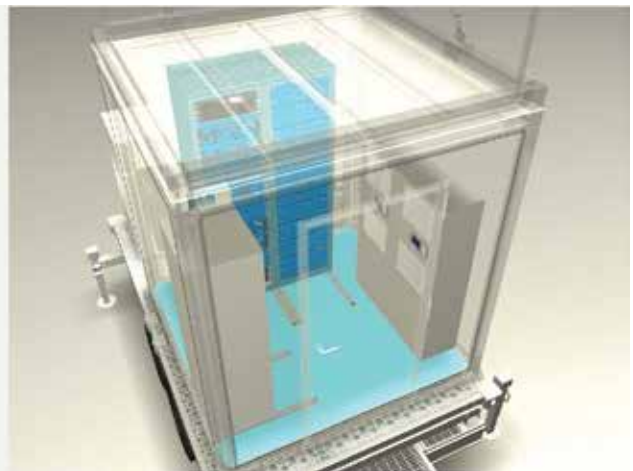
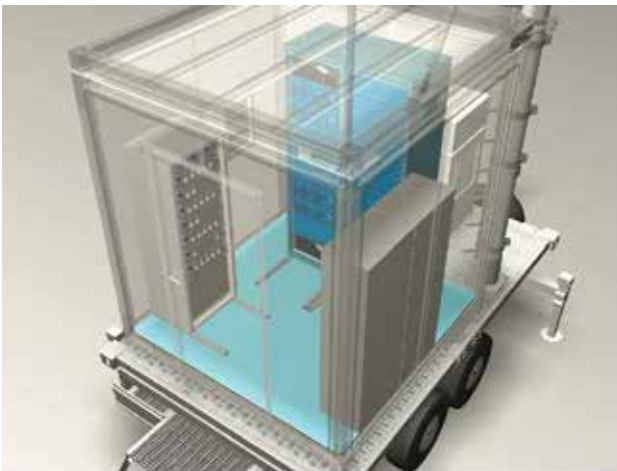
The design allows full system configuration within 15 minutes, reducing the setting up time of the OTE D-MOST Mobile Radio Station to a minimum.





The shelter should be equipped with the following devices:

- Up to two 4-channel OTE MGS100 Radio Ground Stations
- Equipment to create a communication link to an operating centre by means one of the following technologies (reflecting individual customer needs or requirements):
 - Satellite system
 - WiMax technology
 - Radio link
 - UHF link
- Uninterruptible power supply system (UPS)
- GNSS localisation device
- Redundant air conditioning system
- Electrical panel
- Electrical and light system with detection devices
- Ancillaries for first aid and emergencies.



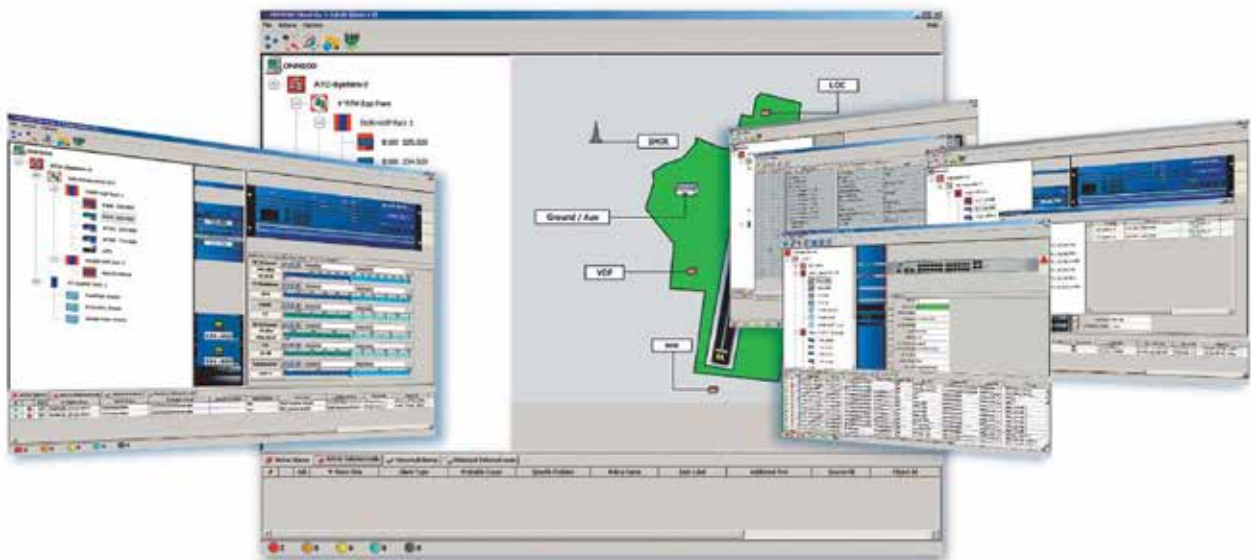
Using a communication link with the operating centre, all the functions of the OTE D-MOST Mobile Radio Station can be displayed in a single mobile Network Management System hosted in the operating centre to provide the following features:

- Monitoring of each devices being installed in the shelter
- Complete management of the equipment host into OTE MGS100 Radio Ground Station
- Radio channel configuration (up to 8)
- Correct position of the OTE D-MOST Mobile Radio Station
- Cab environmental data (measures) and sensors control (i.e. fire, intrusion, etc)
- Power supply data
- Control and monitoring of the power supply generator.

The OTE MGS100 Radio Ground Station supports aeronautical communications of the OTE D-MOST Mobile Radio Station.

It has been designed for flexibility in terms of:

- Radio equipment configuration by frequency range (VHF or UHF)
- Frequencies tuning (within 20 sec.) without using instruments or special tools
- Operating mode set-up (25kHz or 8.33kHz)
- Protection against electromagnetic interferences through the use of automatic filters with double cavities
- Access points for remote/local radio management.



ONM100 management system (NMC100 client graphical interface)



For more information please email infomarketing@selex-es.com

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