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## NoSaCo Rack

The NoSaCo® Rack is the ideal solution for humanitarian response teams, European civil protections or other long term deployments requiring in-field broadband internet access during disaster relief or on remote sites. The NoSaCo® Rack is deployed for emergency.lu as an end-to-end solution in conjunction with ranger and disposable 2,4 m C-band antennas. A waterproof modem has been directly mounted on the antennas to keep the RF-cable length at a minimum. As a result, the included 12 m network cables can be used to place the NoSaCo® Rack under shelter, while the modem and antenna remain outside. The deployment kit offers high performance twoway communications providing up to 8 Mbps bandwidth (based on beam setup) for data, video and voice transmission.

The terminal is pre-configured and offers "out-of-the-box" network, security, quality of services and access control. It has been developed to allow fast and user-friendly on-site installation. The components arranged therein have been selected with focus on reliability and durability. NoSaCo® Rack uses a revolutionary design able to resist shocks and adverse temperature conditions (0-50°C), optimized for transport and shipping.

The terminal is integrated with a community-based, field-proven mission critical information system Pulse™ Core. Complemented with the mobile application Pulse™ Reporter, Pulse™ EcoSystem allows reliable and secure sharing of commands, positions, visual and sensor data during a mission.

### KEY FEATURES

- Light-weight, easily transportable system
- Pre-configured "out of the box" network and access control
- Cost-efficient communication terminal for disaster relief or network backup
- System convertible with rack integration
- Security concepts to protect sensitive data and service resilience

### REFERENCES

Ministry of Foreign Affairs, Luxembourg  
[www.emergency.lu](http://www.emergency.lu)

## Meta-information

### Readiness

- TRL 9 - Actual system proven in operational environment

### Innovation stage

- Stage 6: Wide-scale Adoption

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### Documentation:

#### Crisis size

- Cross-border
- Large scale
- Regional
- Local

#### Crisis Cycle Phase

- Response
- Recovery

# Supported Use Cases

## Camp

End-users work in a well-defined and physically confined geographical area, e.g. a refugee or resettlement camp, a work compound, or a staff accommodation complex. All users must have a two-way (up/down) data connectivity service to their mobile device irrespective of their location in the geographical area or time of day. Number of users between 5 up to many hundreds. At least 1 square kilometre camp size.

### Related CM functions

- [Provide reliable temporary sheltering](#)

## Lone Vehicle

While on mission a vehicle with several end-users drives through a remote area (anywhere in the world) where there is no public mobile data service available. The vehicle, and each (up to 5 per car) users in and around the vehicle must have a two-way (up/down) data connectivity service to their mobile device irrespective of their location or time of day.

### Related CM functions

- [Build broadcast, cable, and satellite based messaging capability](#)
- [Build messaging to mobile devices capability](#)

# Illustrations

## NoSaCo Rack



*NoSaCo Rack multi-purpose, rack-ready communication system*

## Similar solutions