

Certified SOS Emergency Call System For Lone Workers

Provides rapid assistance in the event of an emergency



Emergency Call System Enables Workers to Work Alone



YOUR NEEDS

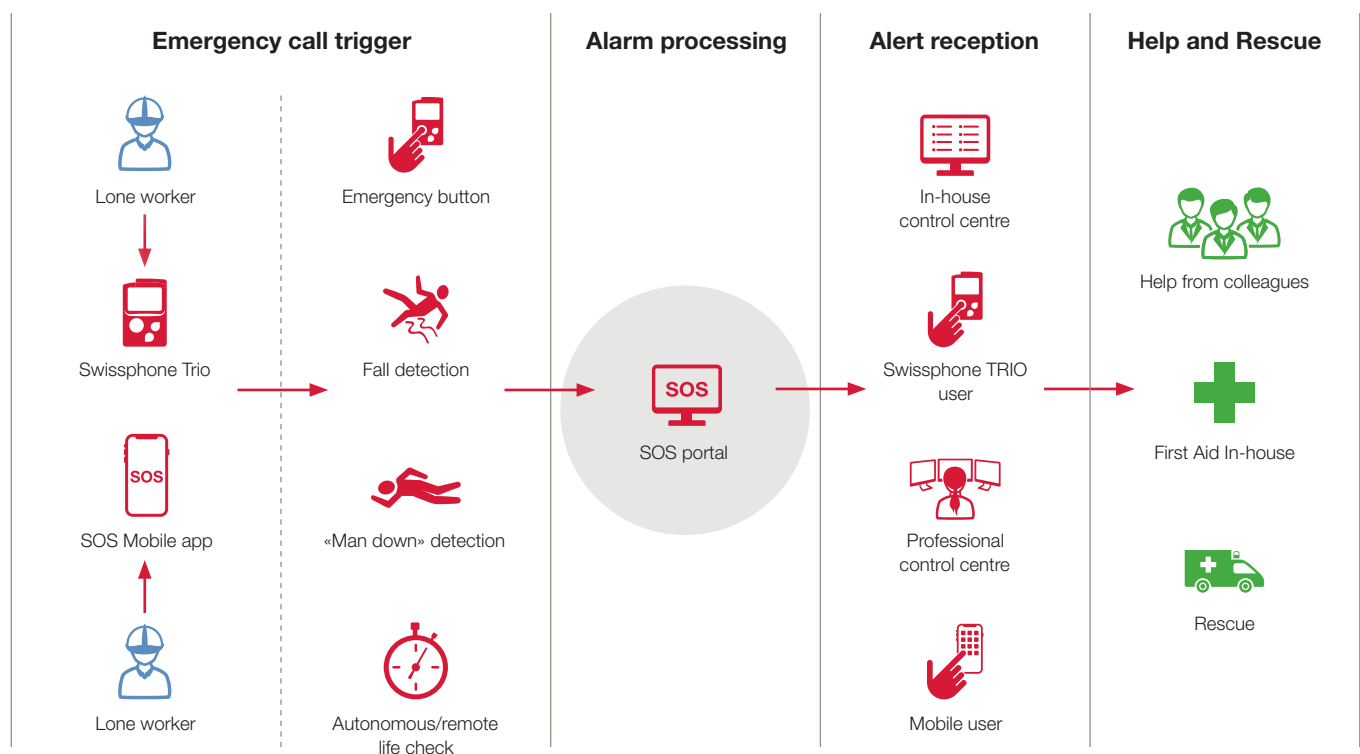
As an employer, you are required by law to ensure the safety of lone workers. While some dangerous jobs can be performed by a single person, employers must guarantee a rapid response to an emergency. This means that you as an employer need a system that alerts you when a lone worker needs help.



OUR SOLUTION

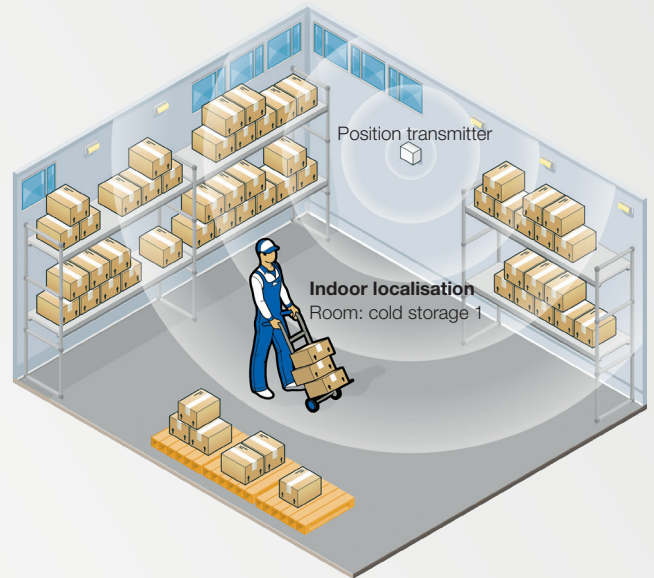
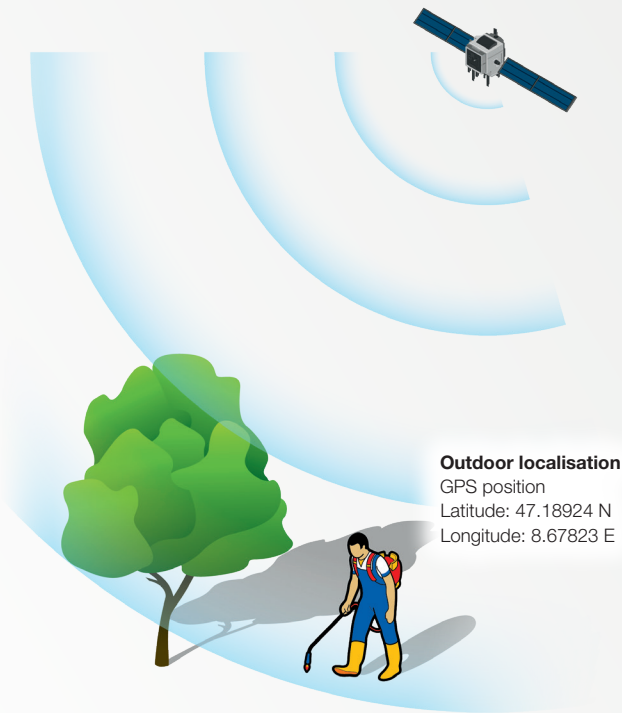
The Swissphone SOS solution is able to detect emergency situations like a fall or no movement. If an injured lone worker is still capable, he can call for help by pressing the emergency button of his emergency device (Swissphone Trio or smartphone). If the motion sensor detects no movement for a specified period of time or if a fall is detected, it will trigger an alarm. At the same time, an audible alarm (siren) activates for sound localisation. The web-based SOS portal supports the alerting by displaying a predefined emergency plan. Location information helps the intervention crew to get to the incident quickly.

Alarm process Swissphone SOS solution



Surveillance and immediate help in case of an emergency:

- Emergency button for manual alerting
- Continuous monitoring: automatic alerting when no movement (man down) or a fall is detected (fall detection)
- Indoor and outdoor localisation of an emergency
- Periodic monitoring: an alarm will be triggered when a pre-determined period of time elapses without confirmation (remote life check and auto life check)



Solution benefits

Rapid response

The following options are available to ensure rapid assistance:

- Emergency calls will be processed by a continuously staffed control centre.
- In-house security responds to emergency calls.
- Co-workers nearby will be notified of the emergency call via app, voice alerting, text message or by paging.

Operation principle of the SOS beacon position transmitters

The SOS beacon transmitters are placed in buildings, tunnels and factories. Position information are transmitted regularly to the Swissphone TRIO or smartphone running the SOS Mobile app. In case of an emergency the latest position received from a position transmitter will be sent to the control centre to pinpoint the person seeking help. It is also possible to trace the path of the person who initiated an emergency call.

Localisation indoor and outdoor

Information about the exact location of an injured person is the key for rapid response. Outdoor localisation is done by GPS. For indoor localisation SOS beacons (working wireless) provide accurate localisation data.

Emergency call transmission via mobile network

Emergency calls are transmitted over the mobile network. Repeaters are used to broaden the reception area if necessary, in a cellar. Due to the life check functionality, a lone worker can be monitored even in areas without mobile network coverage. This life check is either made automatically by the SOS portal, where the loss of communication triggers a predefined time out counter. An alarm is generated after counter expiration on the SOS portal and forwarded according the settings. The life check can also be triggered manually.

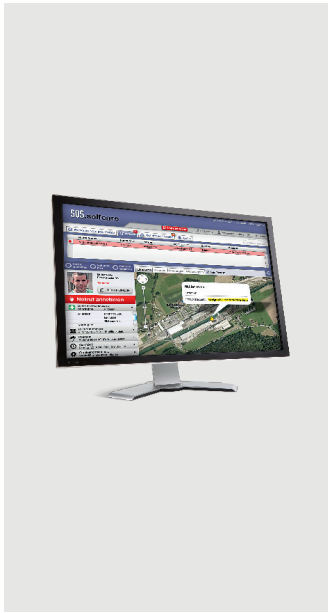
Legal principles

The following organisations and institutions have created regulations and recommendations for lone workers:

- German legal accident insurance (DGUV)
Rule 112-139 / DIN VDE 0825
- Swiss accident insurance institution (SUVA)
Categorie 2 (SUVA Publication 44094, chapter 6.2)
- Italian law decree: Decree 81 from 2018
- British standard BS8484:2016

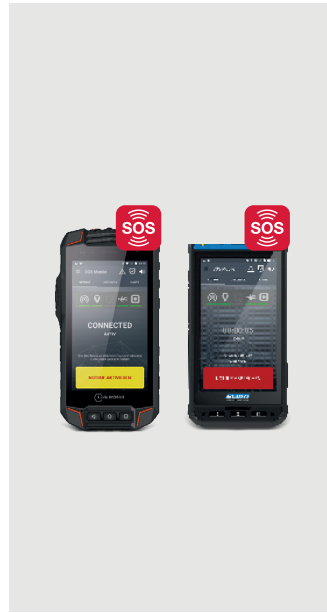
In these regulations and recommendations, a person is considered a lone worker, when immediate help cannot be guaranteed in case of an accident or emergency because he/she is out of sight from co-workers. Emergency call systems enable lone workers to work in potentially risky environments.

Components



SOS portal – Professional emergency system

- Web-based (=platform independent) emergency call system
- No hardware or software installation
- No maintenance by operator required
- Highly redundant cloud-based safety solution
- Redundancy for maximum availability
- Automatic event protocolling for seamless traceability
- Optional location features
- Continuously staffed control centre (optional)



SOS Mobile app

- Easy-to-use emergency application for smartphones
- Emergency button
- Man down detection, life check
- For iOS and Android

Rugged smartphones from iSafe and ecom (ATEX zone 1 and 2)

- Designed for high loads
- Dust- and waterproof
- Dedicated red emergency button
- Selected smartphones are certified according to DIN VDE V 0825 standard

Swissphone TRIO lone worker safety device

- Manual emergency button
- Automatic emergency call (fall detection, man down detection, autonomous life check, remote life check in case of connection loss)
- False alert prevention: emergency button protection, pre-alert
- Localisation (outdoor: GPS, indoor: position transmitter)
- Emergency call transmission via mobile network (date and/or text message)



SOS beacon for inhouse localisation

- Based on wireless connection
- Long battery life cycle
- Small form factor: 43 x 43 x 19 mm

SOS button

- Dedicated alarm button for the SOS Mobile app or SOS gateway
- Perfect for dedicated alerting, silent alarm, amok
- Localisation enabled with SOS gateway



SOS gateway (optional)

- Enlarging mobile network coverage
- Frequency bands: GSM900 / GSM1800 / UMTS
- Simple installation



I.SEARCH alarm server (optional)

Local paging system:

- Alerting of on-site personnel and fire brigades
- Alerting in case of machine failure
- IT monitoring



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