



There is a lot of confusion among potential clients about [Lone Worker Safety](#) and [Man Down Systems](#). Few people fully understand their benefits, uses, weaknesses and operational characteristics. Between the usual acronyms and buzzwords associated with all things [Tracking](#) such as GSM, GPS, SMS and GPRS we now add additional brain-benders such as Verticality Sensors, SiRF chipsets and dual panic-buttons!

So what does it all mean, how does it work, what do you need and, more importantly, what do you not need!

Well, this is what the anoraks mean when they say:

- GSM: The Mobile Phone Network, the system on which our mobiles depend to make calls etc.
- GPS: Global Positioning System, the constellation of orbiting Satellites which transmit precise microwave signals to Earth and allow GPS receivers to position themselves accurately around the globe.
- SMS: Short Message Service, a protocol allowing the transmission of 160 character messages through the core or voice GSM network. It can operate even where voice conversation is impossible.
- GPRS: General Packet Radio Service: an add-on to GSM which allows small amounts of data to be sent rapidly on the mobile network, for minimal cost. In practice, only available in areas where good voice coverage exists.
- Verticality Sensors: Automatically triggers alerts from a body-worn device should the user go 'off-vertical' (fall over or go-to-sleep, to you and me!).
- SiRF Chip sets: Arguably the leading manufacturer of tiny, efficient GPS receivers which form the backbone of the best end-user technology available today.
- Dual-Press Panic buttons: A false-alarm prevention system which requires two-buttons to be simultaneously held for a moment in order to trigger an alert.

Now that that is out of the way...

How it all works:

This is actually quite simple to explain... in most [GPS Tracking Systems](#) whether for [vehicles](#), [assets](#) or [personnel](#) the hardware consists of a GSM modem & GPS Receiver. The GPS Receiver positions itself and transmits that location using the GSM Modem on the GSM Mobile Phone Network to various locations depending on the device and its use.

For example, in the case of stolen-vehicle recovery systems, and given that one's car doesn't get stolen everyday (we hope!), it may be acceptable to send coordinates directly to the owners mobile phone. However, in the case of a full [GPS fleet management system](#), we need to send positional information every 20 Seconds to

a computer so that the vehicle's position may be displayed on a map and the huge amount of resulting information collated into quality executive reports.

What you need for reliable GPS Lone Worker Safety & Man Down Systems:

1. [Halo Security](#) 😊
2. GSM Network-hopping: Coverage from any available provider ([contact us](#) for more info)
3. Accurate GPS Receiver with rapid refresh
4. SMS based non-stop-SOS: Once triggered, SOS Alerts only cancelable by Emergency Monitoring Centre (ERC).
5. Long-battery life: 24-72 hrs
6. Dual-Press Panic Buttons
7. 24/7 -365 days a year EMC with digital evidence recording & trained staff
8. One & two-way handsfree-communication to allow ERC silently eavesdrop emergency situations or initiate conversation with user if agreed codeword is spoken by user -when safe to do so.
9. Man Down solution: Without using a verticality Sensor!
10. Non-'[tracking](#)' solution: So staff want to wear the device, not fear Big Brother!
11. Satellite-based mapping to allow ERC provide landmark-based positioning to Emergency services

What you DO NOT want :

1. GPRS Technology: It's not available everywhere and can leave you down when you need it most
2. Sub-24hr battery life. The system needs to be capable of coping with human error i.e. forgetting to charge the device. Face it, you've done this with your mobile and it let you down the next day!
3. Verticality Sensor: More false alarms with these than the boy who cried, "Wolf"! As they trigger shortly after going 'off-vehicle', imagine the number of times that would happen as staff simply change clothes or just perform their normal work routine!
4. A '[tracking](#)' solution: If the system provides staff movement reports, your staff won't use it!

Our Solution, Halo SkyGuard:

The Halo SkyGuard [Lone Worker Safety](#) and [Man Down System](#) includes everything you need and, equally as important, none of what you don't want!

The product of years of research and experience in the field of GPS Telemetry, [Halo SkyGuard](#) comprises a combination of very cleverly manipulated bodyworn hardware and a professional Emergency Reponse Centre to eliminate false alarms and provide unparalleled reliability even when users are:

- In areas where their mobile phone has no coverage
- Indoors and lack GPS signal
- Under duress and being threatened with physical violence
- Underground
- Unconscious
- Their [Halo SkyGuard](#) device has been destroyed

The secure, web-based update facility associated with each device allows users to privately divulge personal information which even their employer need not be aware of. This information, which is protected under [E.U. -wide Data Protection Legislation](#), may be divulged to Emergency Services as appropriate. Such information is presented to ERC staff only when a given unit reports an emergency.

We're sure you'll agree that [Halo SkyGuard](#) represents the last word in [Lone Worker Safety](#) and [Man Down Systems](#) and we very much look forward to proving that this device "does *exactly what it says on the tin*" time and again with an excellent Cost / Benefit ratio.

For further information on [Halo SkyGuard](#) please contact [Halo Security](#).