

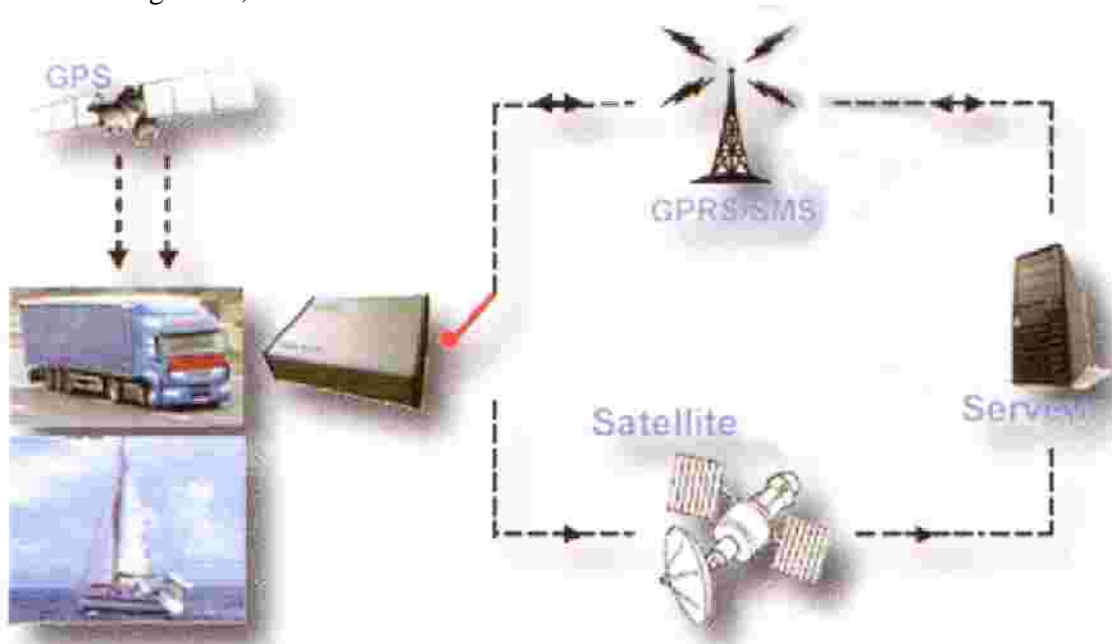
## Tracking systems portfolio of

**Movado Solutions**, global tracking systems supplier, has consolidated since 2006 a wide & comprehensive portfolio of surveillance & tracking solutions, enabling to offer the best suited systems to its customers depending on the pursued objectives and on the budget & geographical constraints of the project . Our solutions are diverse both in terms of the **various types of GPS devices** offered for tracking

- people (autonomous portable devices),
- vehicles or boats (devices to be installed & powered, or autonomous),

and of **the possible ways to transmit the GPS data from the trackers to our server :**

- using public GSM networks, preferably in GPRS mode, but within the geographical limits of such networks coverage area,
- using satellite networks (Globalstar, Iridium, Inmarsat) enabling nearly worldwide coverage area,

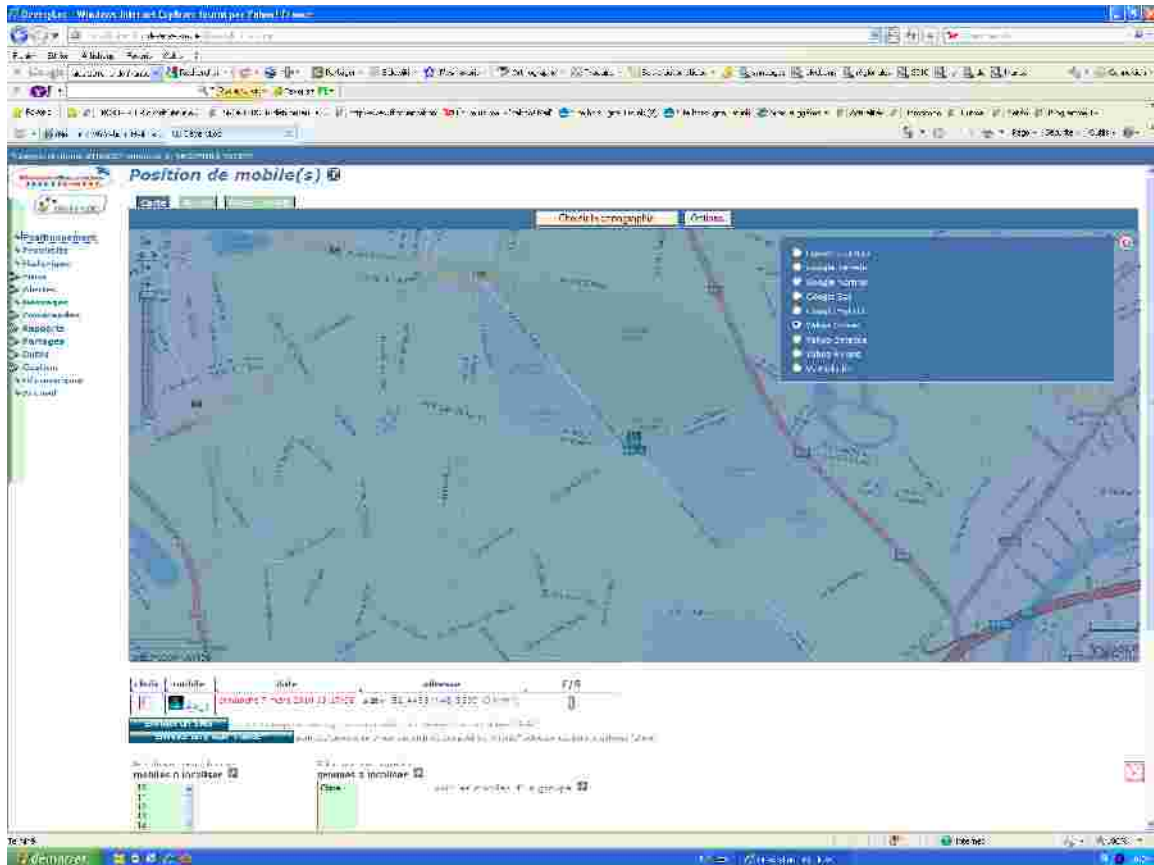


- possibly using private UHF/VHF direct transmission for a limited coverage area, centered on a boat, an off-shore platform or rig, or a work site in remote areas.

The tracking system operator access the operational data (position & speed of the mobiles and potential alarms) by web services using any computer connected to the Internet : with his user name & password, he connects to his account on our web site **Movado Fleet Tracker / Deveryloc** et and access all possible information in real time or of the past (2 months memorization). The MFT/Deveryloc functions are comprehensive & general so to adapt to a vast array of operational needs (cf below) ! When MFT/Deveryloc detects an event (various events may be programmed, such as geo-fence), alarms are generated and pre-determined persons may receive notification sms or emails in quasi real time.

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The functions offered by MFT/Deveryloc encompass Location, Proximity, History, Alerts, Messages, Commands, Reports, Tools et Administration. Positions are displayed on the screen using Google & Yahoo facilities or Via Michelin digital maps (cf below) :



### 1. The tracking of people

For tracking people we offer small personal trackers to carry (in the pocket, at the belt,...) or to take along close to the person (in a bag or backpack, a boat): those trackers are self-powered by internal batteries yielding autonomies of at least a day (depending on the operational conditions & the battery type & model) and are to be regularly re-charged using 220 VAC wall chargers or cigare-lighter adapters or computer USB ports. We may greatly increase the autonomy using external power banks with USB plugs.

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### - Personal trackers using the GSM networks

We offer several types of such personal tracking, mainly depending on the use, or not, of the possible GSM telephonic functionalities :

- The NS100 is an « universal » personal tracker allowing :
  - § The tracking in GPRS mode (or SMS if no GPRS) at regular & programmable intervals in terms of time or distance or both
  - § To be called just like using a GSM phone
  - § To call 3 pre-registered numbers using the C1, C2, C3 keys
  - § To send up to 5 SMS & call an emergency number using the SOS key
- The NS90 is a pure personal tracker allowing :
  - § The tracking in GPRS or SMS mode at regular & programmable intervals in terms of time or distance or both
  - § To send up to 5 SMS & call an emergency number using the SOS key (the called person may hear the surrounding speech & sounds thanks to the micro that the NS90LL integrates)
- Both the NS100 & NS90
  - § integrate a Log memory enabling to store up to 100.000 GPS records to be downloaded to a computer using the hyper-terminal
  - § offer regular or double autonomies thanks to the two versions of proposed batteries (Regular or Long Life)



### - Personal trackers using the satellite networks

When the geographical area of the tracking project is bigger than the GSM networks coverage area, being limited or null in un-inhabited or remote regions (off-shore, deserts, etc...) we may propose two types of autonomous & personal satellite tracker:

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- The SPOT Messenger is a « leisure type » personal tracker using Globalstar satellites allowing to be located by friends or rescuers:
  - § By pressing the Ok or Help key to send a email to the friends ;
  - § Regularly (every 10 minutes) by activating the tracking mode (active during 24 hours periods)
  - § By pressing the 911 key to send an email to the rescuers ;
  - § Within a coverage area that covers almost all the world (see below) and the usage constraints of having the unit horizontal and with a wide view of the sky (like on a boat for example)



- The Solara Field Tracker 2100 is a « professional » personal tracker & messaging system Iridium allowing :
  - § To be tracked at programmable intervals ;
  - § Receive & send text messages ;
  - § Send alarms ;
  - § Within a worldwide coverage area (thanks to Iridium LEO network).



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### 2. The tracking of vehicles or boats

For that purpose we offer trackers which are to be tight to the mobile asset, being a vehicle or a boat, that can be autonomous with internal antennae (no cabling to done) or with external antennae (GPS, GSM or Satellite) & to be powered by the on board energy system (12 or 24 VDC)

#### - Trackers using the GSM networks

We may offer different brands & models depending the project is for France or for other European countries or elsewhere in the world. As a example, we may offer the Intellitrac AVL (Automated Vehicule Location) tracker X1 :

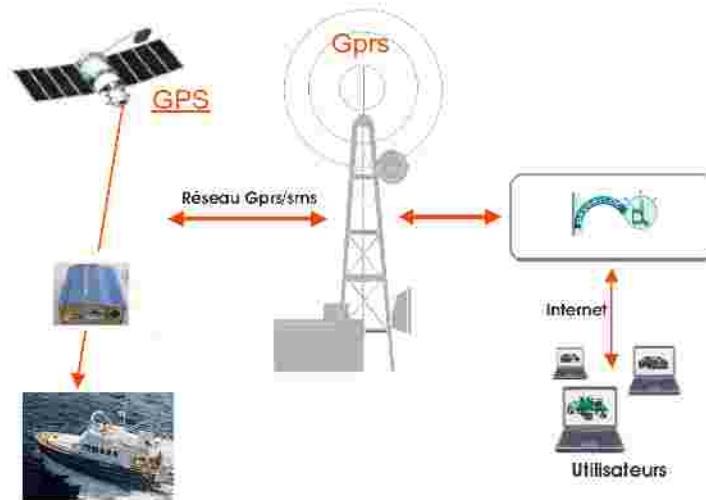
- The X1+ is a AVL tracker allowing :
  - § The tracking in GPRS mode (or SMS) with programmable intervals
  - § The transmission of up to 4 alarms to the server
  - § The reception of up to 4 controls from the server



When installed on a boat, this system allows the tracking up to 10-15 Km from the coast (depending on GSM networks existing in the country), limit of the off-shore coverage.

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When the mobile travels outside the GSM/GPRS coverage area, the tracker buffers the GPS records which cannot be transmitted and send them in-a-row when the mobile re-enters a GSM/GPRS network (when reaching a island or the continent), so that we may know the precise route of the boat, but “after-the-fact”.

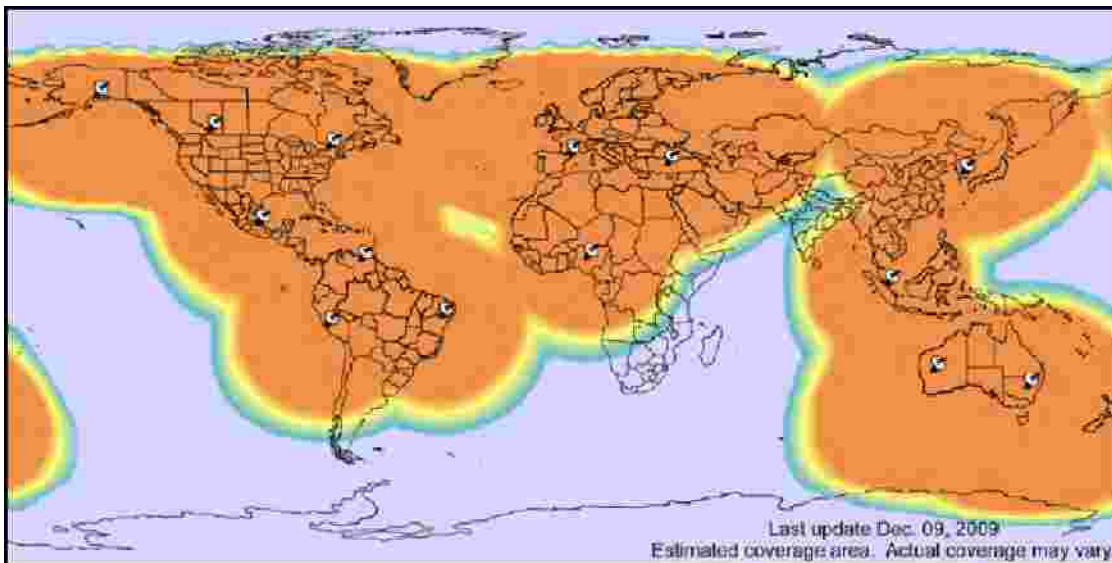


### - Trackers using the satellite networks

When the geographical area of the tracking project is bigger than the GSM networks coverage area, being limited or null in un-inhabited or remote regions (off-shore, deserts, etc...) we may propose types of satellite trackers:

- The AX Tracker or the SmartOne are autonomous trackers using Globalstar satellites and allow
  - § To be regularly tracked, sending several positions everyday (from 1 to 24, at pre-determined hours, depending on needs & budgets) ;
  - § A very easy installation because no cabling at all is necessary as all antennae and the battery are located inside the flat case to fix horizontally
  - § Optionaly, the SmartOne tracker may be connected to external sensors, to detect door opening for example
  - § Within a coverage area that covers almost all the world (see below) and the usage constraints of having the unit horizontal and with a wide view of the sky (like on a boat for example)

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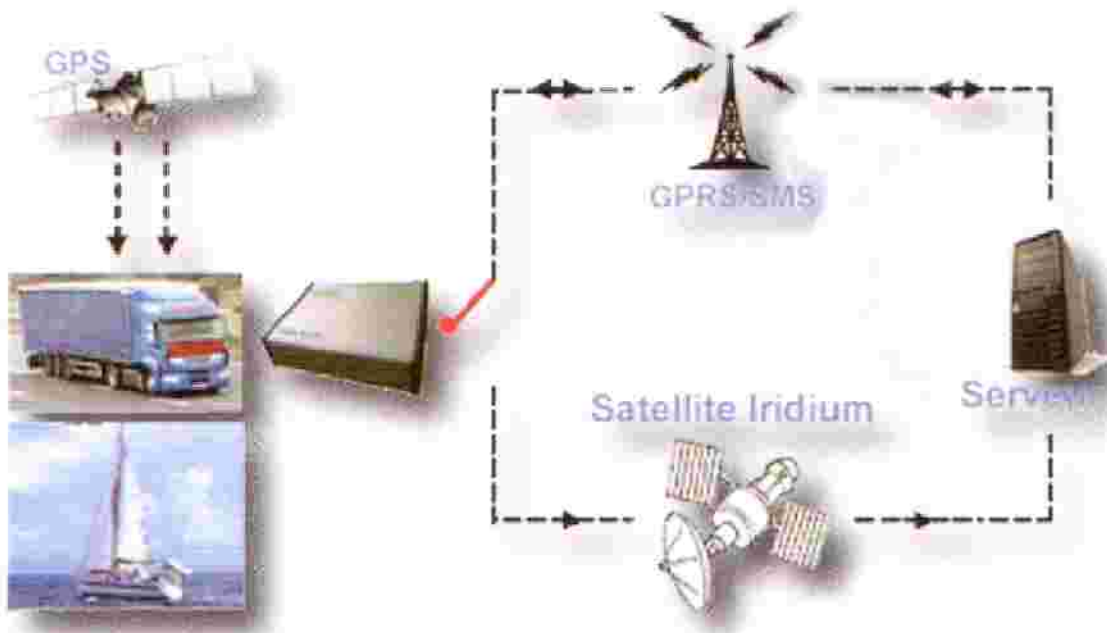
The following trackers are called « hybrids » as they may combine GSM/GPRS & satellite networks in order to benefit of the goodies of each type of network: when the mobiles are under a GSM/GPRS network the tracker prefers that mode that enable to send positions very frequently at reasonable cost, and when the mobile cannot any more connect to any GSM/GPRS network (leaving populated areas or going far off-shore) the tracker switched automatically to a satellite network, that may be Inmarsat or Iridium, and reduces the frequency of tracking as the cost of each position transmission is much higher than with GPRS.

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- The SureLinx is a Hybrid tracker combining GPRS & Inmarsat



- The Triple Trac is a Hybrid tracker combining GPRS & Iridium (worldwide coverage)



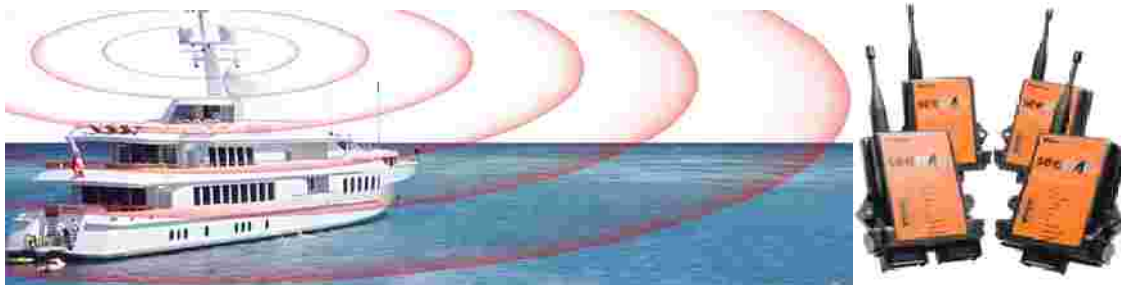


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### - Trackers using private UHF/VHF local networks

For a tracking project around a fixed point, within some kilometers (up to 10 Km) of a such center, being an oil rig in the desert or an off-shore platform or an Exploration vessel, we may propose the Seetrac system which is based on UHF/VHF links between the trackers (vehicules, tenders or people) and the base station, a computer for operating the system & displaying the trackers positions, connected to an antenna as high as possible.





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### 3. References

The following entities have trust Movado Solutions for their tracking needs :

#### - **Sportive Tracking**

- **Rallys** (rental of up to 120 NS100 trackers per Rally) :
  - § Rallye de Monte-Carlo (France, Monaco) in 2009, 2010, 2011
  - § Rallye International du Valais (Switzerland) in 2007, 2008, 2009 & 2010
  - § Rallye du Chablais (Switzerland) in 2008, 2009, 2010 & 2011
  - § Critérium Jurassien (Switzerland) in 2008, 2009, 2010 & 2011
  - § Rallye d'Antibes (France) in 2007 (test) & 2010
  - § Rallye du Var (France) in 2009 (test)
- **Marathons** (rental of up to 20 NS90 trackers per Marathon) :
  - § Marathon Nice Cannes (France) in 2009 & 2010
- **Regattas** (rental of up to 60 NS100 or 90 trackers per race)
  - § Primo Cup (Dragons sailboats, Monaco) in 2008
  - § Jet Ski European Championship (France) in 2008
  - § 24 heures de Rouen (Speed boats) in 2010 & 2011
  - § 24 heures de Augustow (Poland, Speed boats) in 2010 & 2011
- **Trails** (rental of up to 200 NS100 or NS90 trackers per race)
  - § Ultra Trail Mont Blanc (France, Italy, Switzerland) in 2008, 2009, 2010
  - § Swiss Raid Commando (Swiss Army) in 2009

#### - **Fleet tracking of vehicules or boats**

- France : various SMEs in the sectors of transport, maintenance, medical, taxi-boats as well as pleasure boats on the French Riviera (equipped with NS100 or X1+ trackers)
- New Caledonia : supply Navitec company with AVL X1+ & hybrid Triple-Trac trackers
- Gabon, Dubai : service company for off-shore oil exploitation (equipped with AX Trackers)
- Senegal, Mali : test of a AX Tracker on the train line Dakar-Bamako
- International : pleasure boats around the world (AX Trackers)

#### - **GPS Time Stamping of workers**

- France : cleaning & maintenance companies using NS90 & an ad-hoc software (developed by Movado Solutions) to time-stamp the workers when they arrive and leave work locations (using « geo-fencing » capabilities of the NS90 personal trackers).