

# MCR TRACER



MCR Tracer is part of MCR Voice & Data Monitoring-Center Tracer has been developed to satisfy the upcoming need of LEAs to track targets movements by means of GPS and GPRS Systems.

## GEOGRAPHICAL TRACKING OF TARGETS: A TACTICAL TOOL

The geographical localisation of monitored targets is nowadays one of the most important tools in investigation activities.

AREA has developed in house a solution to pinpoint someone's position down to 25 metres using devices so small to fit in the palm of one hand: Tracer

It is made up of:

- The Tracking Device (TD) capturing localisation data and voice streams
- The Remote Control Management (RCM) which receives, manages, stores and displays geographical data and related targets information.

The TDs are installed on vehicles or others moving objects.

By means of them, Law Enforcement Agencies (LEA) can acquire two different types of relevant data concerning:

- Vehicles movements history and real-time monitoring: date and time of all movements,

average speed, real-time localisation on maps, etc.

- Live audio of conversations held inside the targeted vehicle.

## TRACER ARCHITECTURE

The TDs can be used both alone and together with the RCM support.

The RCM support can be provided by means of different tools, according to Customers monitoring needs and budget.

It receives the localisation data coming from the TDs and shows them through one or more of the followings:

### 1. MCR Player Interface (AREA Monitoring Center)

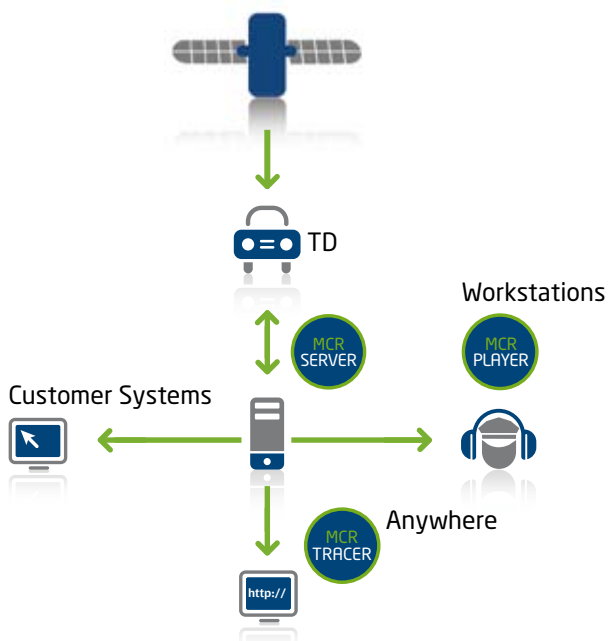
The full integration of Tracer with MCR Voice & Data Monitoring Center provides the best performances and economies of scales, allowing LEA operators using the same MCR Player interface for all kinds of monitoring activities: fixed and mobile telephony and IP data interceptions, localisation tracking services, live audio interceptions, etc.

### 2. MCR Tracer Anywhere (AREA Web Interface)

By means of a specific Web-based application, it is possible to have the rendering on maps of the geographical data belonging to the targets without having a complete monitoring center infrastructure.

### 3. Integration with specific Customer applications

AREA will provide the consulting support for the full integration with existing systems. Tracer is therefore highly scalable and flexible. Both products, TD and RCM, are entirely designed and manufactured by AREA.



## LOCALISATION AND TRANSMISSION TECHNOLOGIES

Tracer is based on a combined use of the two main localisation network protocols (GPS and GSM) in order to grant the highest performances and reliability:

- GPS system offers the fastest targets localisation, higher precision and continuous update of date, time and other basic tracking parameters
- GSM cell-based localisation offers instead 100% network coverage and network signal



unaffected by weather or environmental factors.

Four different transmission modes are supported:

- GPRS
- E-MAIL
- SMS
- DIRECT CALL (FOR LIVE AUDIO ONLY)

Localisation data are transmitted by default via GPRS. In case of missing GPRS signal, data are sent via SMS.

To grant the best GSM coverage, SIM cards from different operators can be installed on board and managed both automatically by recognizing the most suitable connection or and on Administrator request. If both networks are unavailable, localisation data are cached on the MPS device and forwarded when the connection is re-established. Data are sent every 30 seconds if not configured differently. Localisation data can be also transmitted via e-mail on Administrator request. Live Audio streams are sent via direct call from the device to an MCR IMC or any answering and recording application.

### MCR TRACER: MAIN FEATURES

Complete remote control of the device

- Via SMS, e-mail or through the MCR Client Interface
- Remote firmware upgrade and remote complete configuration

Full support for live audio interception

- MP3 compression for live audio transmission - Voice stream buffering with no GSM coverage
- Connection to two microphones supported
- Recording activated on request by LEA or through voice threshold setting

Wide range of customisable parameters

- Admin&User full configuration, roles Master, Administrators and Users
- Hibernation Mode setting and restoring: automatic or manual
- GPS history transmission on demand
- Time range to receive GPS signal
- Real Time Tracking Options

High flexibility in data management and rendering

- Through Palm or PC via web browser by

means of an https secure connection to a configured Web Server

- Through MCR Voice & Data Monitoring Center Client (MCR Player interface) or any other monitoring center workstation
- Optimised management of autonomy
- Consumption 100 mA average, 30 days estimated autonomy with default settings (4 hours-time movement of target, data sent every 30 seconds)
  - Power supplied by means of battery pack or car battery
  - Auto-switching to Hibernation Mode after configurable time-ranges or events (i.e. after the target has stopped or has come in a specified space range)
  - Auto-switching On at configurable time ranges or events (i.e. on next target movement or in case the target goes out of a specified space range)

Small dimensions and high capacity

- 85 x 36 x 13 mm for 110 grams
- 250 MB capacity, Embedded File System (EFS)

High reliability and security

- Double SIM, automatic or manual switch
- Each device is tested singularly under stressing conditions

High precision in geographical data rendering

- Map and Guide software
- NavTech maps



AREA

[www.aremcr.com](http://www.aremcr.com)