

Automatic Location Tracking System

Personnel Tracking

Vehicle Tracking

Asset Tracking

Motorola Radios GPS Tracking Capability

Mobile Radio & In-Vehicle Radio

Android Phones

Automatic Location Tracking System

Overview

MWI's Automatic Location Tracking System (ALTS) solution is based on GPS technology to track vehicles, personnel or any asset that has an in-built GPS receiver and has the means to communicate its position to a backend system. The solution is feature rich and highly scalable.

Features a light-weight web based scalable solution that can be deployed on the intranet or internet environment to track hundreds or thousands of devices.

The software provides a map-based view to display the real-time tracks of a single device or a group of devices as defined by the customer.

ALTS system has been successfully deployed on several Dimetra & ASTRO infrastructure in the Asian region. It can support GPS updates from TETRA / ASTRO radios, LEX and other Android based phones.

Features (Base Package)

∰ Group Map

- Track movement of selected radio groups in real-time.
- Auto Update on/off
- Standard MAP features Pan/zoom map, recentre map, show device details, distance calculator, etc.
- · Specify icons for each group
- Show Geozones
- Location details in tabular form

O Device Map

- Track the movement of selected device / vehicle in real time.
- Auto Update on/off
- Standard MAP features Pan/zoom map, recentre map, show device details, distance calculator, etc.
- Replay archived GPS positions
- Show Geozones
- · Location details in tabular form

 From group map & device map, user can select an ad-hoc command to send to the device. Depends on whether customer server can support ad-hoc commands.

■ Reports

- Device Event Detail Report:
- Group Event Detail Report
- Group Last Location Summary Report.

- ESRI Shape files, Geotiff files,
- Geo database & PostGIS database

(**Note**: Motorola shall supply the maps for MWI to format & load into MWI's MAP Server)

- Openstreet Map (Online Map)
- Google Map (Online Map)

(**Note**: Motorola shall buy Google API key for Google MAP Service usage)

A Basic & Run Time Alerts

- Speed alert thresholds can be defined.
- Emergency alert emergency button/man down is triggered.
- Comms Failure no updates for designated time frame.
- Provides ability for a user to monitor device/vehicle alerts which shall be updated in near real-time whenever system triggers an alert.
- User can acknowledge/close active alerts on this page.

G Historical Alert Page

- Provides ability for a user to search alert history based on:
 - Device/Vehicle group;
 - Vehicle:
 - Alert status;
 - Priority;
 - Alert Type;
 - Acknowledged user;
 - From Date & To Date;
- Reports can be generated for historical alerts.



- Geozones being created to track radios inside/outside geozones, or to generate geofencing alerts based on geozones.
- ALTS system supports Point Radius & Polygon geozones, which can have up to 20 vertices.
- Composite Geo-fencing alert rules can be created with combination of multiple geozones.

Account Admin

- Represents a customer/organization.
- An ALTS system can be shared by multiple customers/accounts.
- Each account can be configured with distinct account logo, time-zone, metric system, GPS format, device/group label etc.

Device & Group Admin

- Device can be configured manually in ALTS System or imported from exported UCS data in CSV format (for Motorola Radios).
- Device Group definition allows for monitoring of radios as a group, radio groups are created according to functions of organizations, the system can assign radio groups to users so that users can track only assigned radio groups.

Language Support

English.

Geozone Admin

 This feature allows creation, editing and deletion of geographical fences (geozone) on the map display.

Geo-fence Alerts

Inside/Outside Geozone, Entry/Exit Geozone alerts.

User & Role Admin

- Roles can be created for grouping of access rights; a user configured under a role will inherit the access rights from the role.
- Access rights are assigned to different users to access different resources in the system, including functions, and information pertaining to device group.

Ⅲ Alert Rule Admin

 Alerts are triggered based on alert rules; alert rules can be configured according to different criteria such as position, speed, date time, device groups etc.

⊟ Vehicle/Personnel Admin

 Devices can be associated with a vehicle (or) person. Tracking and reporting can then be done based on vehicles/persons.

Advanced Features / Functions (offered under Options)

☆ Additional Language Support

 Spanish, French, German, Greek, Italian, Dutch, Hungarian, Portuguese, Romanian, Russian, Serbian, Turkish, Japanese, Chinese, Thai, Indonesian.

Point-of-Interest (POI)

 To add wayside points in database so that they can be displayed on Map.

 To cater to high availability, the solution will be deployed with load balancing and DB replication.

📞 🔳 Voice Call & Messaging

 From group map & device map, user can select a Radio and make a voice call or send Short Data Message to devices.

Alert Forwarding

 Alert rules can be configured with Notifications. ALTS supports 3 types of notifications - SMS, Email and SDTS message.

Supported OS Linux and Windows Server Supported Browsers Chrome, Firefox, Microsoft Edge Max Number of Radios Up to 100,000 Max Number of Web Clients Up to 100 Supported Interfaces SDR, MUPS, IMW and MWI's Interface for Android Phones such as LEX Server Specification: - Intel Xeon 8 cores, 2.1 GHz (or equivalent) - 24GB RAM

ALTS Client

ALTS Server

Minimum Specification for up to 1000 Radios:

for a period of up to 3 months.

- Intel i7, 3.2GHz processor (or equivalent)

- 2 x 600GB SAS Hard Disk (RAID 1 config)

Linux or Windows Server Standard Edition

Please note that the hardware configuration specified above will be able to handle up to 2000 radio updates at 30sec interval and the data shall be stored

- 8GB RAM

System Package

Base	Software
Include	es:

- ALTS Software
- License for tracking 500 Radios
- Support for 5 clients
- English Language Pack
- Services for MAP formatting (MAP to be provided by Motorola)
- 1x ALTS Server (to support max 2000 radios and 20 clients)
- User Documents
- Shipment Terms Ex Works, MWI, Singapore
- Training

Excludes:

• Site Works

Add-on Components (Options)

Additional Radios

Every – 500, 1000 & 10000 radios

Advanced Functions / Features

- Local Language Package
- POI Layer
- TETRA / ASTRO Radio or Talkgroup Voice Call
- Short Data Messaging
- Alert forwarding thru SMS / SDS / Email
- High Availability Support

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