

AutoMate

AutoMate improves an organisation's operational performance and staff safety by enabling radio automation through geofencing and situational triggers

The application automatically executes routine and safety critical tasks to deliver results **faster**, **reduce** risk of user error and to **safeguard** your team



SUPERIOR OPERATIONAL PERFORMANCE

- Automatically performs user tasks to improve speed and reliability
- Removes the risk of human error from essential workflows
- Allows radio users to focus on mission critical tasks

IMPROVED STAFF SAFETY

- Sends status messages to control teams to increase situational awareness
- Presents on-screen reminders or notifications and audible alerts to individual and team radio users when hazardous situations are detected
- Allows control teams to initiate radio actions remotely in emergency situations

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Going further in critical communications



RADIO APPS

FULLY CONFIGURABLE TO MATCH AND ENHANCE YOUR WORKFLOWS

- Flexible set up enables a wide range of automations (triggers and radio actions) to support operations
- Automations can be linked and combined according to logic or priority
- Radios can be readily updated with new configurations to match changes in workflows or operational environment
- Automations can be overridden or suspended by radio users in exceptional circumstances

INTUITIVE CONFIGURATION EDITOR INCLUDED

- Automations can be easily defined and updated using the PC based Configuration Editor
- Allows configurations to be created, updated or removed as required
- Allows simple definition of all triggers, including geofence creation and visualisation on a map
- Quick and intuitive to use

Automations can be created by choosing triggers to execute actions. Triggers and actions can be combined from those shown below to meet your own requirements.

TRIGGERS

- GPS Geofences
- Proximity to a Bluetooth® beacon
- Crossing a speed or acceleration threshold
- Radio start up and/or shutdown
- Receipt of SDS message or status message
- Loss of TETRA network signal
- Manual change of TETRA mode (TMO/DMO/DMO Repeater/Gateway)
- Talkgroup selection
- External sensors

AUTOMATED RADIO ACTIONS

- Notifications to the radio user via alert tones and/or on-screen text
- Send SDS or status message to individuals or groups
- Send radio location data
- Change of radio talkgroup
- Change of TETRA mode (TMO/DMO/DMO Repeater/Gateway)
- Execute pre-existing radio softkey functions
- Controlling connected external equipment

TECHNICAL SPECIFICATIONS

COMPATIBLE RADIOS

Compatible with the following radios:

- Sepura SC20/SC21 Handheld TETRA Radios using firmware SC 3.1-001 or later
- Sepura SCG22 Mobile TETRA Radios using firmware SC 3.1-001 or later

INSTALLATION ON RADIO

AutoMate App Installation:

- via Sepura Radio Manager R2.31.8.0 or later

License Installation:

- via Sepura Radio Manager R2.31.8.0 or later

Configuration File Installation:

- via Sepura Radio Manager

CONFIGURATION FILE MANAGEMENT

Configuration File Editing:

- via AppSPACE Configuration Editor

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AutoMate: Use Cases for Critical Communications Users

TRIGGER: GEOFENCE

Sector: Mining 

Activity: Worker enters a geofenced blast zone

Radio Actions: Passing the Geofence, the radio automatically switches to a specific operational talkgroup and confirmation of presence is sent to the control room

Sector: Public Safety 

Activity: Police officers arrive back at the police station and need to connect to the Wi-Fi network to install radio updates

Radio Action: A geofence around the police station triggers the radio to turn the radio Wi-Fi on (and receive updates) when inside the geofence and turn the radio Wi-Fi off (to conserve battery life) when outside



TRIGGER: LOSS OF TMO SIGNAL

Sector: Mining  Public Safety  Transport 

Activity: A radio user enters an underground area with no TMO TETRA coverage to perform a routine task

Radio Actions: The loss of the TETRA radio signal triggers a change to DMO mode to ensure communications are maintained; a return to TMO mode can be triggered when the radio next passes a Bluetooth® beacon or other trigger

TRIGGER: BLUETOOTH® BEACON

Sector: Utilities 

Activity: A radio user enters a chemical lab where hazardous chemicals are stored

Radio Actions: A Bluetooth® beacon, located in the lab, is detected by the radio and triggers an automatic on-screen and audible warning to the user to wear protective clothing

Sector: Industrial  Transport 

Activity: A worker leaves the maintenance yard office and enters the restricted operational area of the yard

Radio Actions: The radio detects a Bluetooth® beacon, located in the yard, and automatically confirms their presence to the control room

TRIGGER: SPEED (GPS)

Sector: Mining  Industrial 

Activity: A vehicle is driving above the site speed limit near to where staff are at work

Radio Actions: The app monitors the speed in a specific location. When a pre-set limit has been exceeded, the app warns the driver to slow down and notifies the control room, adding GPS data so the incident can be logged and addressed



AutoMate: Use Cases for Critical Communications Users

TRIGGER: REMOTE CONTROL SDS RECEIVED

Sector: Public Safety  Transport 
Utilities  Mining 

Activity: An emergency incident occurs and a specific incident talkgroup is assigned. A supervisor sends a remote control message to all team member radios in a single action to force a talkgroup change

Radio Actions: All team members' radios change talkgroup automatically

Sector: Industrial  Transport  Mining 

Activity: Severe weather is heading towards the operational site and poses a threat to all on site. The control room sends a remote control message to the app to warn the users

Radio Actions: The message is received by each radio; each will display a message and play a loud repeating alert tone until the radio user arrives at their nearest assembly point



TRIGGER: ACCELEROMETER

Sector: All      

Activity: An agency vehicle is involved in a serious road traffic accident

Radio Actions: The vehicle radio detects the shock of the impact through its internal accelerometer, which triggers AutoMate to send an emergency SDS message and GPS co-ordinates to control requesting urgent assistance

TRIGGER: EXTERNAL SENSOR

Sector: Public Safety 

Activity: An armed response police vehicle arrives on the scene. The firearm locker is opened and is detected by the vehicle radio

Radio Actions: The radio sends a status message to control updating them of this development, as well as location data

Sector: Industrial  Mining 

Activity: A tipper dump truck has delivered its load but the driver has forgotten to lower the tipper and starts to drive away

Radio Actions: The radio detects that the tipper is raised via a linked sensor and a warning display on the radio screen. GPS detects the truck's movement and emits a loud audible alert, warning the driver to stop and lower the tipper

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