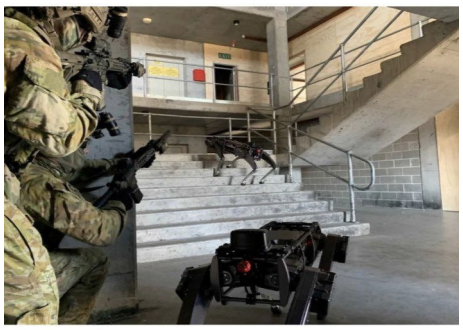
AVERT MPO

ROBOTIC MISSION PLANNING AND OPERATIONS

AUTOMATE PLANNING AND MISSION OPERATIONS FOR TEAMS OF ROBOTIC PLATFORMS AND ARTIFICAL MACHINES

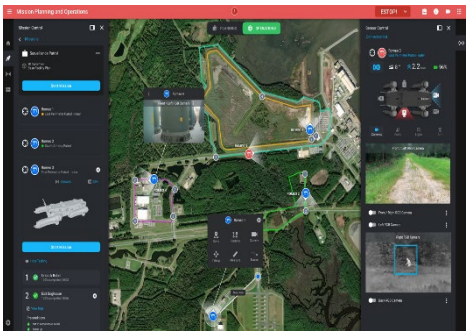
AVERT MPO

MISSION PLANNING & OPERATIONS



MISSION PLANNING & OPERATIONS

- The system automatically plans missions and incident responses, providing a probability of success
- A ingle operator can manage teams of autonomous robots, with human in the loop at anytime
- Browser based C2 for the operations center and ATAK/TAK-CIV apps for responders in the field
- Mission-in-Mission capability



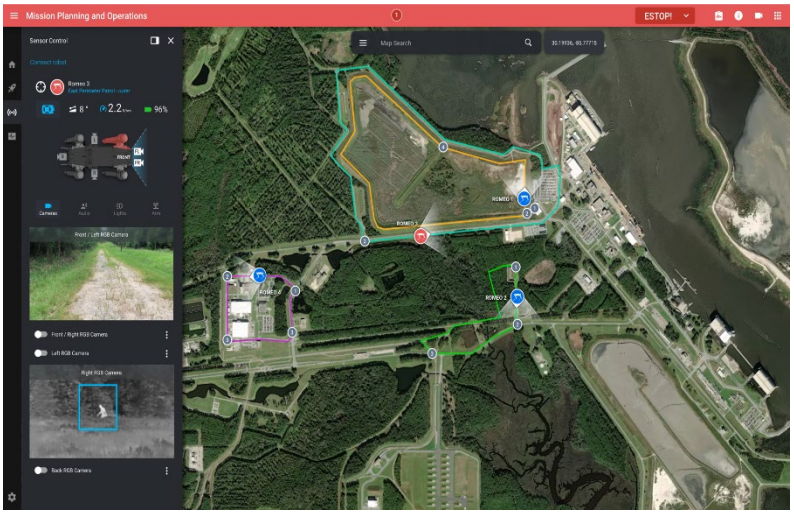
INTEGRATIONS & INCIDENT RESPONSE

- Monitor and control sensors and systems mounted to the robotic platforms and other sensors and systems at your site
- Manage complex incident responses combining robotic platforms with humans working in tandem
- Robotic platform agnostic; robodogs, sUAS, UAS, ground and aerial robots, and artificial machines

DYNAMIC PATHING & AUTONOMY

- Real time pathing, re-pathing, and tasking for robotic platforms
- Use complex tactics such as fastest path, avoid detection, avoid firepower, cover and concealment, bounding overwatch, etc.
- Real-time communications with robotic platforms enables autonomous operations without the need for teleoperators

AVERT MPO CAPABILITIES AND BENEFITS

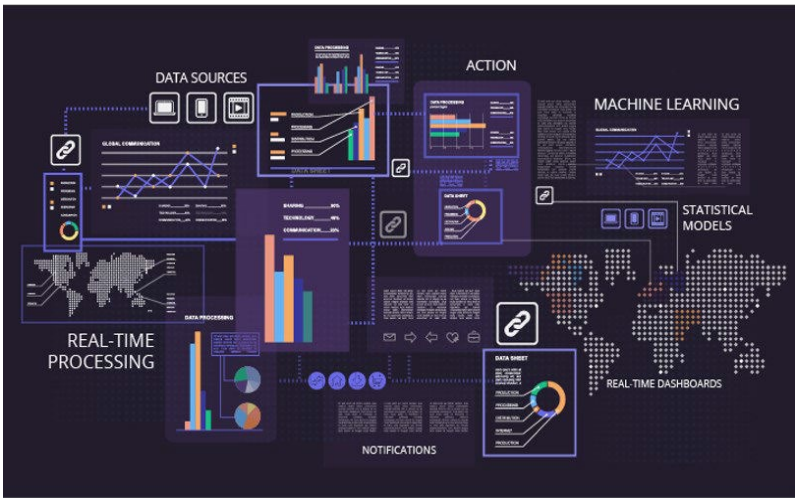


COMPREHENSIVE COMMAND AND CONTROL

AVERT MPO combines a mission planning and operations tool with an advanced Command and Control platform to manage and respond to all aspects of your organization. The system can be utilized for both security and routine operations to optimize monitoring, awareness, and response capabilities. User-defined mission plans, rules, and standard operating procedures can all be incorporated to automatically alert to designated activity, consolidate and disseminate relevant information, and create a collaborative response to any incidents.

DATA FEEDS & INTEGRATIONS

Whether mounted to robotic sentries or utilized on your site, the solution can integrate both security and operational systems/ sensors to provide a comprehensive dashboard that can be shared with internal and external stakeholders. Mission profiles display a comprehensive view of the mission and its objectives, included units, integrated systems/sensors, a mission activity timeline, and standard operating procedures in a checklist view. Any systems/sensors that are integrated with the robotic sentries will automatically be added to the mission profile to be utilized for the mission objectives.



AUTONOMOUS ROBOTIC MPO PROCESS

Robots integrated with AVERT MPO provide a wide range of applications and unique abilities that enable robots to navigate challenging work environments. AVERT MPO utilizes ARES Security's 3D Digital Twin and Command & Control technologies to plan for, manage, and operate autonomous or semi-autonomous robots and their mounted systems. By using a site's 3D Digital Twin, operators can optimize operational planning & equip the robots with automated dynamic pathing that adapts based on mission objectives and obstacles. This provides the robots with extensive site specific knowledge enabling the robots to perform their mission with full autonomy and adapt to their environment without relying on an external controller.

For more information visit www.aressecuritycorp.com or contact contactus@aressecuritycorp.com