



THE SECURITY ORACLE

RCADS™-Remotely Controlled Active Defense & Denial System

TSO's Remotely Controlled Active Defense & Denial System (RCADS*) is a scalable physical security appliance that protects human lives and critical infrastructure. TSO promotes **defense-in-depth** best practices for protecting critical assets and transforms physical security from passive detection to real-time situational awareness and accelerated response to demobilize intruders with non-lethal actuators, i.e. directed high intensity sound, lights, and strobes.

RCADS™ Key Security Elements

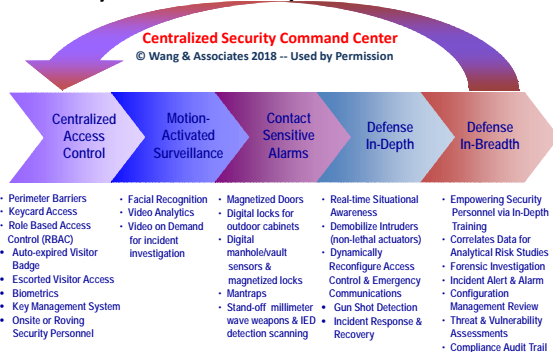
RCADS™ uses Closed-Loop, Automated Reasoning to fuse data from a combination of sensors (e.g., radar, LiDAR, seismic, thermal, gunshot detection, cameras, facial recognition) and drive actuators that deliver non-lethal countermeasures (sight, sound, and touch) to

DETECT-ENGAGE-NEUTRALIZE™ a would-be assailant.

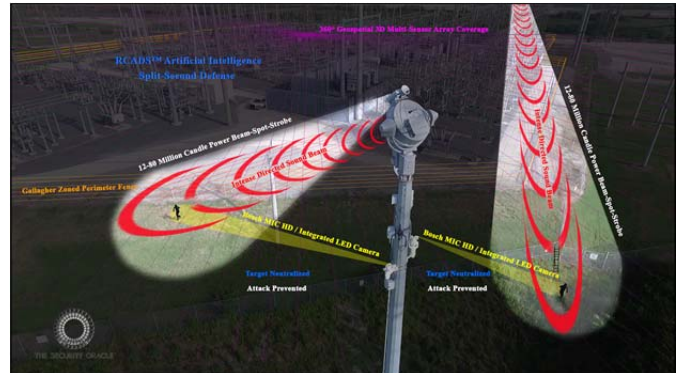
TSO's RCADS™ includes a scalable exterior and interior gunshot detection system, GDS.ai, that can pinpoint location(s) within a defined radius, number of shots fired, bullet trajectories and calibers of weapons used in single or multiple simultaneous gunshot incidents; and discriminate false reports from real gunshot incidents to provide real-time actionable intelligence for law enforcement to respond accordingly.

Game-Changer for Power Grid Resilience

Physical Security Best Practices



- TSO partner's unique end-to-end secure architecture allows us to implement Homeland Security Presidential Directive ([HSPD FIPS-201-2](#)) standard for federated identity management for Federal Agency access control as the only market solution with native FIPS-201-2 Access Control, Intruder, and Perimeter security management within the one product.
- TSO's disruptive artificial intelligence solution empowers organizations to dynamically reconfigure access control and emergency communications systems to adapt to new security threats in sub-second response time and address all applicable NERC CIP regulatory physical security requirements.
- TSO supports clients through specialized consulting services--guiding customers through the implementation process, communicating with those involved in risk management, asset planning, and physical security to ensure that implementation is completed and any issues are resolved so client can be successful utilizing the integrated solution.



- TSO will train physical security operators in system set up, administration, event escalation, logging and maintenance to ensure software integrity and authenticity. Strengthens the security posture of power utilities through collaborative documentation efforts, procurement acceptance testing—**defense-in-breadth** and compliance with [NERC CIP-013-1 Supply Chain Security](#).
- TSO's RCADS™ significantly enhances our clients' capabilities for risk management by providing them with the tools and capabilities to identify, assess and prioritize, develop response plans, monitor and report risk; enabling asset owners to achieve success beyond their expectations while achieving security beyond compliance with [NERC CIP](#) and [NEI 08-09 Revision 6](#) regulatory requirements.
- During the North American Electric Reliability Corporation (NERC) audit of a TSO client in 2017, the auditors acknowledged that the utility, with their deployments of RCADS™ at their two NERC CIP-014 sites, had met the spirit and intent of the [NERC CIP-014 Physical Security Standard requirements](#) for Transmission Substations. The further consensus of the four auditors was that the deployment of RCADS™, an integrated security appliance is a new best practice.
- TSO's Intelligent Coordinator™ enables utility to filter nuisance alarms from situational awareness alarms and empowers operators with actionable intelligence.
- ARES Security Corporation's AVERT® Security Monte Carlo simulation study demonstrates RCADS™ works against attacks while other best practice solutions fall short. [AVERT®](#) is the only security optimization software to receive a [DHS SAFETY Act Certification](#).
- TSO offers fixed installations as well as mobile platform equipped with solar panel(s) for use during outages and event-driven needs.



RCADS™ and Intelligent Coordinator™ is the best of breed integrated solution which reinforces reliable operations of critical assets while reducing the cost of labor-intensive processes — making security investment resilient.

For more information please contact:
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(05/2018)