

## EADS Capability Overview for BSTC

EADS is a proven global leader in the development and delivery of integrated border security systems which are deployed worldwide including in Romania (SISF BorderNet: the first ever integrated border security system in Europe), Saudi Arabia (Northern Border Security Project: comprehensive land border security system protecting 900 km of Northern land border and the System Integration Engineering Project: providing visibility and operational awareness for 9,000 km of land and maritime borders), and Qatar (National Security Shield: securing 900 km of Qatar's coastline, land borders and AOR). EADS' border security solutions are based on a wide range of platforms and state-of-the-art technologies including our SPEXER™ family of radars and highly intuitive C2/COP.

Our SPEXER™ family of radars is made up of the following products:

- SPEXER™ 1000 – Security Radar for Camp, Perimeter and Infrastructure Surveillance
- SPEXER™ 1500 – Security Radar for Large Perimeter and Border Surveillance
- SPEXER™ 2000 – Security Radar for Border Surveillance
- SPEXER™ 2000 Coastal – Security Radar for Coastal Surveillance

Some key characteristics of the SPEXER™ radars are:

- First operational land-based surveillance radars worldwide using Active Electronically Scanned Array (AESA) technology as well as innovative Digital Beam Forming (DBF) technology.
- Long range/wide area surveillance leading to early warning and high level of situational awareness
- Fast and accurate tracking with high clutter suppression reducing Operator workload and enabling detection in harsh environments
- Multi-tasking capability – one SPEXER radar can replace several conventional radars and allows for flexible surveillance scenarios
- Low lifecycle cost due to electronic scanning
- Detection of ground and sea targets as well as low-flying air targets (such as low-level helicopters, ultralights & UAVs)

Our C2/COP software has been specifically designed for Border Security missions. It is highly intuitive, has a modular and open architecture and is extensible. Additionally, our C2/COP is operational and successfully proven in border security systems throughout the Middle East and Europe.

Cassidian, the defense and security division of EADS, has recently incorporated the optronics and optics activities of Carl Zeiss Optronics GmbH into their Sensors and Electronic Warfare Business Line complementing the existing capabilities in the area of sensors while enabling future development of complete sensor solutions from a single source. The Optronics division develops and manufactures optronic, optic and precision-engineered products for military and civil applications focusing on border surveillance systems, optical and opto-electronic devices and components for vehicles such as sensors and optics and submarine periscopes.

EADS has also partnered with academia to build analytical tools for border security that incorporate social, cultural, behavioral and organizational aspects of interactions among border security forces, smugglers and the population and represent integrated technology architectures made up of fixed and mobile sensor and surveillance networks. These predictive social simulation tools model actor response to outside influences and provide critical capabilities which influence border security operations, planning, analysis and training.

The EADS North America SONEX program is a technology for bulk explosives detection. The technology uses Neutron Interrogation based upon patented technology by an EADS affiliate, Sodern. SONEX is scalable from small parcel sized detection platforms up to large maritime systems. EADS North America is currently working with the United States Department of Defense on several innovative applications of the SONEX technology.