

Securing Canada's Most Sensitive Information: Eliminating Emission Risk and Data Leakage Through Emissions Security (EMSEC)

Calian's emission security solutions protect Canada's most sensitive information for government, defence and critical infrastructure organizations by actively monitoring and securing devices, networks and physical infrastructure. We remove every vector of RF emissions risk, preventing unauthorized interception and ensuring mission-critical data stays in your control.



With decades of RF/Tempest expertise and Canadian Industrial TEMPEST Program accreditation, Calian combines robust design reviews and vulnerability assessments to guarantee both compliance with the Government of Canada's ITSG-11A and operational readiness.



Calian EMSEC Capabilities

Risk Assessments: Get a clear harmonized threat risk assessment (HTRA) assessment pinpointing your risks.

Site Evaluations: Calian conducts on-site evaluations, including RF-level testing within building structures, providing emission security zoning guidance and insight for informed decisions about deploying RF protections and meeting requirements for facility security clearances.

Equipment Testing: Calian maintains a Canadian Industrial TEMPEST Program (CITP) accredited test facility, providing TEMPEST level I through III validation services with a wide range of testing capabilities. Calian also provides in-place TEMPEST validation services, providing certification of equipment and systems, such as network cabinets or custom enclosures, within a customer's own lab or production facility when required.

Shielding Technologies: Calian provides TEMPEST-certified protection for a broad range of products—from workstations (laptops and tablets) to networking products (such as routers and switches).

Compliance: Calian ensures organizations meet regulatory requirements such as those outlined by the Canadian Industrial TEMPEST Program and the Government of Canada's Emission Security Guidance ITSG-11A.

Technical Surveillance Countermeasures (TSCM): Calian provides facility, residence and vehicle TSCM sweeps as well as RF spectrum in-place monitoring solutions and services. Intelligent speech masking solutions and RF/IR shielding solutions, including window films, foils, paint and caulks.

End-to-End Support: Calian's team of experts provides end-to-end support, from initial evaluations to the integration of advanced countermeasures.



Notable Projects

Calian provides emissions security for defence, national security and government customers.

Calian operates as the primary emission security subject matter expert for complex long-term Canadian defence projects, crossing multiple domains and helping to shape Canada's defence against foreign and domestic threats.

Calian also holds long-standing EMSEC and Technical Security Countermeasure (TSCM) service delivery contracts with key federal departments, providing ongoing support to prevent the leakage of confidential information, both through effective countermeasures and real-time monitoring.

Calian is actively involved as a trusted EMSEC advisor for new construction and major renovation projects within multiple Canadian federal departments, ensuring adherence to EMSEC standards and the proper implementation of key safeguarding measures.

Calian is working with private sector clients on key initiatives to provide consulting, assessment and validation services in support of data safeguarding requirements.

Explore RF Emissions Security

Implement Calian EMSEC solutions and protect your sensitive emissions from unauthorized access. For more information, visit calian.com/itcs/cybersecurity/rf-emissions-security



For over 40 years, Calian has delivered mission-critical solutions when failure is not an option. Trusted worldwide, we empower organizations in critical industries to overcome obstacles, manage risks and drive progress. By combining the expertise of our people, proven industry insight, cutting-edge technology, bold innovation, and global reach, we deliver tailored solutions that solve complex challenges. Headquartered in Ottawa, Canada, with over 5,000 people around the world, Calian's solutions protect lives, strengthen security, foster global connectivity and drive economic progress, making a lasting impact where and when it matters most.