



IT Security and Canada: The Future Is Here

Canadian firms are renowned for their ability to tackle tough problems — such as technology security issues — with innovative hardware, software and services.

Canadian security technologies protect people, sensitive data and assets; maintain the efficiency and success of business operations; and guarantee adherence to privacy legislation. Canada is the best place in the G7 to do business, and our \$1.2-billion security sector offers many investment and partnership opportunities.

> CORPORATIONS AND GOVERNMENTS WORLDWIDE

rely on Canada's IT security companies for advanced applications in biometrics, cryptography and encryption, mobile authentication, cybersecurity, public safety, and product certification.

Biometrics

- **Diaphonics'** voice biometrics accurately confirms callers' identities and helps governments, law-enforcement agencies and businesses positively identify employees, agents and customers over the phone.
- **Visiphor's** facial-recognition algorithms and tools are installed at more than 130 sites worldwide, assisting security staff in identifying people and verifying identities.
- **Acsys Biometrics** provides identity-verification technology and biometric products to a wide range of service sectors, from government to financial services to health care and more. Acsys' Face Recognition System learns, recognizes and remembers facial characteristics, becoming more familiar with a face each time it sees it without increasing the size of the biometric template.

Cryptography and Encryption

- **Absolute Software** is a leader in computer theft recovery, including data protection and secure asset-tracking applications. Its Computrace suite can also manage regulatory compliance obligations.
- **Certicom** has over 350 patents and patents pending worldwide for its Elliptic Curve Cryptography products. It provides the core technology for the National Security Agency's Suite B standard for secure government communications.
- **OKIOK's** Global Trust software is included in Siemens' HiPath Scurity DirX identity and access-management suite.

Mobile Authentication

- **Diversinet's** mobile-device security software allows users to protect their identities and data when communicating or making transactions on wireless networks.
- **MXI Security, a division of Memory Experts International**, manufactures portable security devices that combine secure storage with digital identity, cryptography and strong authentication. Its clients include secret service agencies.
- **Radio IP Software** is a leader in wireless data communications, providing the most comprehensive connection-ware for all wireless networks, public networks and 802.11 hot spots.

Cybersecurity and IT Security Consulting Services

- **Graycon Group's** security services focus on network infrastructure-related security, such as risk management and planning, implementation, and monitoring.
- **Q1 Labs**, with R&D facilities in Canada, provides award-winning network intrusion detection and management software for businesses and government.
- **Securis** offers security services, information security consulting, vulnerability assessments and investigation services for North American organizations.

Public Safety, Surveillance and Tracking Technologies

- **Forensic Technology** pioneered automated ballistics identification and has developed the first and only 3-D cartridge-case imaging station. The company has formed partnerships with hundreds of public-safety agencies in more than 37 countries and territories.
- **Kolombo Technologies** uses cutting-edge technology to eradicate theft and hijacking. It covers four markets: heavy machinery and trucks, boats and marinas, vehicle fleets and urban equipment, and security of commercial and institutional operations.
- **Optosecurity's** OptoScreener® is the world's first X-ray check-point upgrade. It automatically detects weapons and weapon parts and identifies dangerous liquids and gels.

Security Product Certification

Canada is home to three of the world's best laboratories authorized to evaluate and certify security products:

- **CGI Group's IT Security Test and Evaluation Facility** (www.cgi.com)
- **DOMUS IT Security Laboratory** (www.domusitsl.com)
- **EWA-Canada's IT Security Evaluation & Test Facility** (www.ewa-canada.com)

Cutting-Edge Canadian Research

Canada's IT security sector is young, vibrant and largely made up of small and medium-sized enterprises. Many companies specialize in commercializing their R&D, especially in niche strengths such as encryption, surveillance, tracking and sensors. Nearly two thirds of IT security firms are actively engaged in R&D.

Canadian universities are significant centres of IT research. Over the past 10 years, they have completed more than \$5.2 billion in R&D commissioned by the private sector.

Canadian national and provincial/territorial associations foster collaboration among industry members, and provide very current information on R&D, investment and partnership opportunities. These include:

- **Association de Sécurité de l'Information du Montréal Métropolitain** (www.asimm.org)
- **Association de la sécurité de l'information du Québec** (www.asiq.org)
- **Canadian Security Association** (www.canasa.org)
- **Canadian Association of Defence and Security Industries** (www.defenceandsecurity.ca)
- **Canadian Advanced Technology Alliance** (www.cata.ca)
- **Information Security Institute of Quebec** (www.isiq.ca)
- **Information Technology Association of Canada** (www.itac.ca)
- **Réseau des TI au Québec** (www.fiq.qc.ca)
- **Society for the Policing of Cyberspace** (www.policyb.org)

> TAKE ADVANTAGE OF BUSINESS OPPORTUNITIES IN CANADA TODAY

For in-depth industry-specific analysis and reports, statistics, news, events and contacts, visit Industry Canada's website at www.ic.gc.ca/ICT.

For further information about doing business with Canada and to contact a Trade Commissioner in your area, visit the Canadian Trade Commissioner website at www.tradecommissioner.gc.ca.

Other brochures in this series — on ICT, wireless, e-health and digital media — are available on Industry Canada's website.