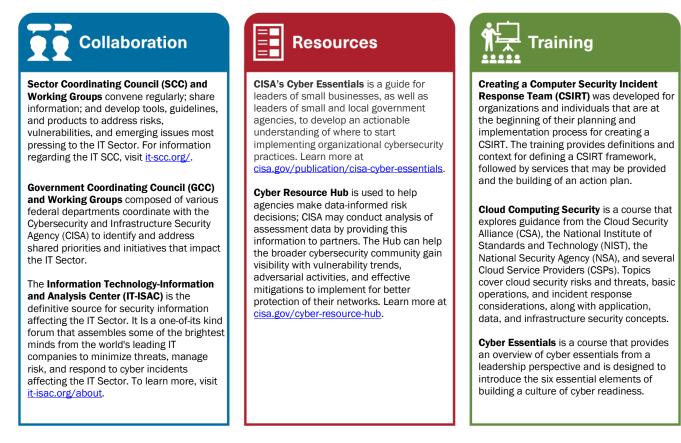


INTRODUCTION TO THE INFORMATION **TECHNOLOGY SECTOR RISK** MANAGEMENT AGENCY

The Information Technology (IT) Sector is central to the nation's security, economy, and public health and safety as businesses, governments, academia, and private citizens are increasingly dependent upon IT Sector functions. These virtual and distributed functions produce and provide hardware, software, and IT systems and services, and, in collaboration with the Communications Sector, the Internet. The Sector's complex and dynamic environment makes identifying threats and assessing vulnerabilities difficult and requires that these tasks be addressed in a collaborative and creative fashion.

INFORMATION TECHNOLOGY SECTOR COLLABORATION, RESOURCES, AND TRAINING

The IT Sector Risk Management Agency (SRMA) is responsible for leveraging knowledge, expertise, and resources to coordinate and collaborate with private sector companies, the Department of Homeland Security, other relevant federal departments and agencies, as well as with critical infrastructure owners and operators and their respective associations, independent regulatory agencies, and state local, tribal, and territorial (SLTT) entities, as appropriate.



SECTOR PROFILE

The IT Sector provides products and services that support the efficient operation of today's global informationbased society, and is integral to the operations and services provided by other critical infrastructure sectors. Comprised of small and medium-sized businesses, as well as large multi-national companies, the IT Sector, unlike many critical infrastructure sectors, is a functions-based sector comprised of physical assets and virtual systems and networks that enable key capabilities and services in both the public and private sectors.

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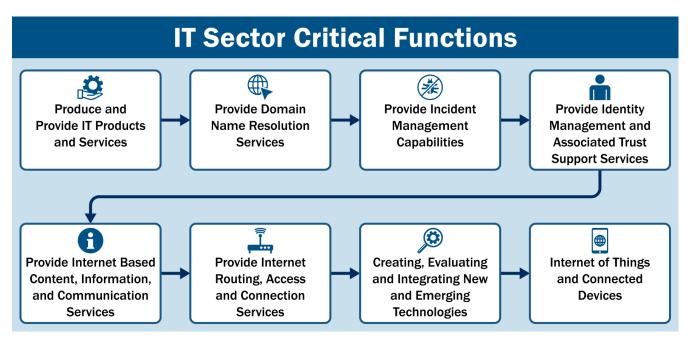
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Critical Sector Functions

IT Sector functions encompass the full set of processes involved in creating IT products and services, including research and development (R&D), manufacturing, distribution, upgrades, and maintenance. Eight critical functions support the Sector's ability to provide high assurance IT products and services for various sectors. These functions are required to maintain or reconstitute networks (e.g., the Internet, local networks, and wide area networks) and their associated services. Provided by a combination of entities—often owners and operators and their respective associations who provide IT hardware, software, systems, and services—IT services include development, integration, operations, communications, testing, and security.



CRITICAL INFRASTRUCTURE SECURITY CONSIDERATIONS

- **Cyberattacks:** Key cyber risks include cyberattacks that target inadequate security controls, outdated patches, and unknown vulnerabilities; social engineering attempts designed to gain operator credentials; and intrusions from insider threats. All such attempts could allow attackers to access critical control systems and disrupt or control physical components and processes. For information on reducing the risk of a successful cyberattack, visit <u>cisa.gov/cyber-hygiene-services</u>.
- **Cybercrime:** Today's world is more interconnected than ever before. Yet, for all its advantages, increased connectivity brings increased risk of theft, fraud, and abuse. As Americans become more reliant on modern technology, we also become more vulnerable to cyberattacks, such as corporate security breaches, spear phishing, and social media fraud. Complementary cybersecurity and law enforcement capabilities are critical to safeguarding and securing cyberspace. For information on combating cybercrime, visit <u>cisa.gov/combating-cyber-crime</u>.
- **Ransomware:** A type of malicious software or malware designed to deny access to a computer system or data until a ransom is paid. Ransomware typically spreads through phishing emails or by a victim unknowingly visiting an infected website. For ransomware guidance and resources, visit <u>cisa.gov/ransomware</u>.

FOR MORE INFORMATION ON THE INFORMATION TECHNOLOGY SECTOR

Contact the IT SRMA at <u>ITSector@cisa.dhs.gov</u> or learn more at <u>cisa.gov/sector-specific-agencies</u>. For additional information about the IT Sector, please view the IT Sector-Specific Plan at <u>cisa.gov/publication/nipp-ssp-information-technology-2016</u>.

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