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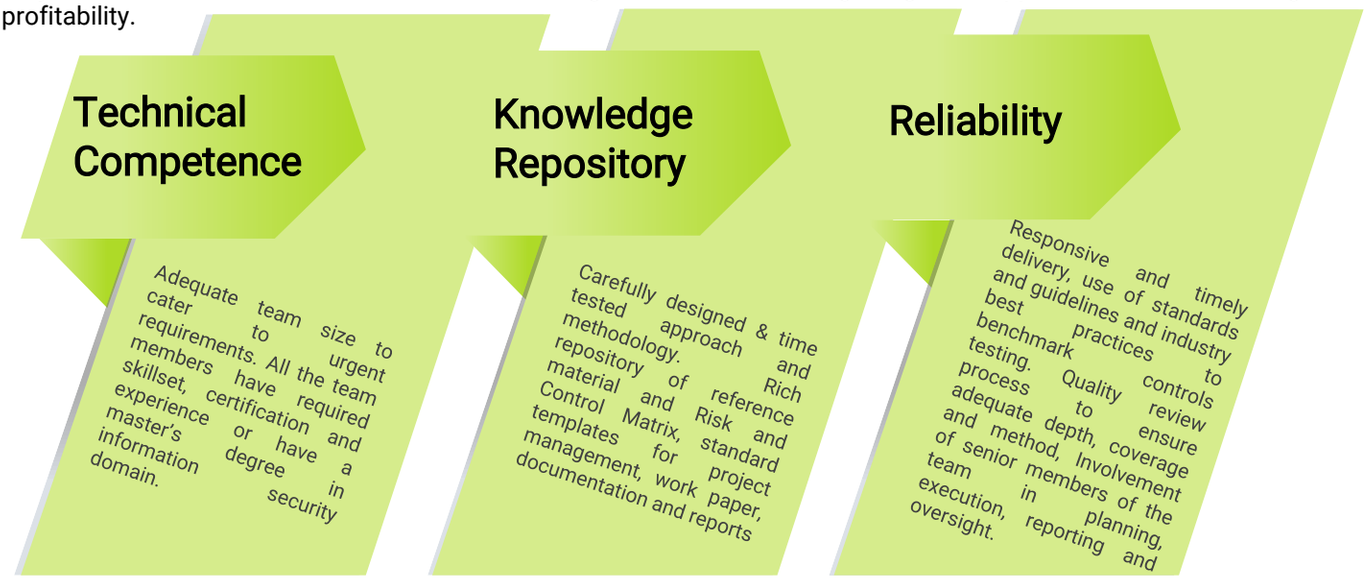
Baker Tilly Global Centre of Excellence

Cyber Security | Digital Transformation | Cognitive Technology | e-Governance | Enterprise IT Solutions

Introduction

The Global Centre of Excellence (GCE) is designed to help member firms with seasonal resource requirements, recruitment difficulties or addressing skills-gaps; leveraging highly skilled resources in India cost effectively, in order to deliver solutions which benefit both their client and them.

Member firms can also collaborate with the GCE to build new businesses and take advantage of any new opportunity that may arise. It enables member firms to deliver strategies and take advantage of growth opportunities, whilst driving their own profitability.



'Cyber risk' is any risk of financial loss, disruption or damage to the reputation of an organization from some sort of failure of its information technology systems. All types and sizes of organizations that use information technology are at risk, if they are not managed properly. Although Cyber Risk is a subset of information security, with web facing devices, web sites, mobile apps, almost all business face this risk. It is not only restricted to enterprise IT (such as organization's information assets and infrastructure) but also industrial systems, Internet of Things (IoT) etc. Securing information assets from cyber risks means having technologies, processes, and practices designed to protect networks, devices, programs, and data from attack, damage, or unauthorized access.

Digital transformation is the process of using digital technologies to create new — or modify existing — business processes, culture, and customer experiences to meet changing business and market requirements. This reimagining of business in the digital age is digital transformation. Digital transformation is the integration of digital technology into all areas of a business, fundamentally changing how you operate and deliver value to customers. Digital transformation begins and ends with the customer. Eg. Web and mobile app based applications, ATM, eWallets, data analytics to understand customer needs in a better manner, chatbots, email campaign, social media marketing etc.

Cognitive technology is a subset of the broader field of artificial intelligence. Cognitive Technology learns and imitates human thought process. Below are the prominent cognitive technologies that you cannot choose to ignore. Big Data Analytics, Machine Learning, Natural Language Processing, Artificial Intelligence. Cognitive Technologies Services are used to augment cyber risk services and digital transformation.

Keeping an eye on future technologies and risks as explained above, we have carefully crafted our services.

Now For Tomorrow

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Security Advisory & Consulting

- Formulation of Strategy & Roadmap
- Formulation of Enterprise Security Architecture
- IT Governance
- Risk Management
- Compliance Management

IT Strategy and Roadmap helps provide a high level strategic view of the plan, aligns investments and organization's goals and strategy. It also helps reaching consensus regarding priorities and required actions, promoting communication across various key stakeholders and preserving the dominance of the big picture over present-day problems. Designing and implementing enterprise security architecture has become an incredibly complicated task. Regulatory environments add yet another level of complexity. We offer an implementable and successful Enterprise Architecture framework that has enabled our customers with a robust framework to manage Governance, Risk and Compliance successfully.

We can bring clarity to your governance structure by setting a uniform framework, with clearly defined accountable roles, policies, processes and guidelines that can be adopted across an enterprise. A well-defined Risk Management framework is one of the most powerful tools any organization can use. We have developed Risk Management approaches tailored to organizations nature of business and maturity levels.

We can guide you in the right direction and ensure that best practices are not only documents, but also actionable processes put into operation.

Enterprise IT Security

- Red Teaming
- Blue Teaming
- Cloud Security Assessment
- DevSecOps
- Vulnerability Assessment/ Penetration Testing) Assessment (VAPT)

The enterprise perimeter is expanding across a growing number of connected devices and hybrid clouds while they take advantage of emerging digital technologies.

Enterprises are facing more sophisticated and more persistent attacks, both from outside and within, but are struggling to detect and respond to new threats and build cyber resiliency into their security program. Our Enterprise Security Solutions are designed to maintain & supplement the effectiveness of your physical and IT security capabilities, to develop preparedness for a broad range of scenarios, and to provide appropriate response & recovery capacity.

Our Red teaming services follow a full-scope, multi-layered attack simulation designed to measure how well your People, Networks, Applications and Physical Security controls can withstand an attack from a real-life adversary. Similarly, any gaps in your security can be uncovered—and fixed—with advanced, comprehensive evaluation by our Blue Team security experts who will think like attackers and will harden your systems to minimize your network's surface vulnerabilities.

Monitoring & Incident Response

- SOC-as-a-Service
- SOC Engineering
- SOC Management
- Breach Assessment
- Cyber Drills & Playbooks

Businesses operating in today's competitive environment have increasing touchpoints both within and outside the security perimeter. Due to this, cyber risks have increased manifold. Adopting a preventive approach to data security breach is no longer enough. The need of the hour is proactive and constant monitoring and rapid action to counter any threats.

This is where our Security Operations Center (SOC) services completely fits the bill. These security centers are completely customizable based on an organization needs and offer round-the-clock monitoring services to prevent, detect, analyze and quickly respond to cyber security incidents. Our SOC services are available through different delivery modes including remote shared model, on-site dedicated team, or as a hybrid approach. Irrespective of any SOC model, these security centers deliver cost-effective outsourced security monitoring services to reduce cyber risk and improve compliance and proactively fix issues before any incident takes place

Technology Management

- IT Financial Consulting
- IT Portfolio & Project Management
- IT Service Management
- Business Continuity Management
- Disaster Recovery

As businesses continue to invest millions in upgrading their technology infrastructure, it is imperative that they manage it efficiently as well. Not doing so can result in inefficiencies, inflated operational cost and reduced consumer confidence. Managing technology involves planning, designing, optimizing, operation and control of technological products. However, Technology is inherently difficult to manage because it is constantly changing, often in ways that cannot be predicted. We offer a suite of services for organizations to maintain and enhance the competitive advantage of such investments based on proprietary knowledge and know-how.

Digital Transformation

- AI Consulting
- Digital Strategy
- Cloud Strategy
- Agile Transformation
- Big Data Consulting

Emerging technologies including social media, the cloud, data analytics, and mobile — are rapidly turning disruptive for businesses across all industries, from retailers and banks to telcos and energy companies. We have over a decade of experience in managing the systems and workings of global enterprises and partnering with them on their digital journey. With a comprehensive suite of services, we can help support and accelerate your organization's digital transformation journey to unlock productivity gains across all levels of your organization.

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Digital Forensics

- Evidence Collection
- Evidence Protection
- Chain of Custody
- Recovery
- Investigation

Advances in digital technology have changed the way we live, communicate and do our business. Today's world is more connected than ever before. In such an ecosystem, criminals also take advantage of the loopholes. When organizations face a cyberattack, a rapid and thorough incident response is essential to minimize the threat and safeguard the critical information infrastructure. The impact severity, scope, and cost of a cyber security incident increases with every hour it remains unresolved.
The only way to be prepared for the ever evolving cyberattacks is to have a contingency plan in place and experts on call. Our Digital Forensics team help you respond quickly to minimize damage and reduce downtime in the event of a cyberattack. Our team will take a comprehensive, reactive, proactive and predictive approach to restore normalcy, identify the root cause and suggest measures to stop the reoccurrence of such security breaches.

Telecom Security

- Telecom Red Teaming
- Air Interface, SS7, Diameter
- GTP, VoIP, Volte, SIP
- NFVi, LTE, IPTV, IoT
- 1G, 2G, 3G, 4G & 5G

The Telecom security landscape of enterprises has become more complex with security threats becoming more organized, focused and directed. The sheer volume and complexity of data to analyze, detect and mitigate a Telecom threat on a timely manner has also grown exponentially.
Our telecom service helps Telcos secure their data, applications and networks against the most advanced cyber threats. Our R&D teams have analyzed the current threat landscape applicable to Telecom Operators & developed a comprehensive solution of platforms and frameworks to mitigate/avoid threats to telecom companies.
All these make automating, orchestrating & eventually making "Telecom Security Risk Management" an autonomous process.

Industrial Security

Security Assessment of :

- OT Infrastructure
- ICS Infrastructure
- SCADA Systems
- Low Voltage Systems
- PLCs

Industrial Control Systems (ICS) are different in the architecture and functioning comparing it to the traditional technical systems. The ICS systems include – supervisory control and data acquisition (SCADA) system, distributed control systems (DCS), extremely low voltage systems (ELV); which are used in different industries. ICS are typically used in industries such as electric, water and wastewater, oil and natural gas, transportation, chemical, pharmaceutical, pulp and paper, food and beverage, and discrete manufacturing (e.g., automotive, aerospace, and durable goods). In the past, such environments used to be isolated from the Internet and had its own protocol to control processes. However, in today's technological era most industrial control systems connect directly or indirectly to the internet. This introduces them to vulnerabilities like any other connected system. The difference is that downtime or infiltration of an ICS network could result in massive outages, hundreds of thousands of impacted users and even a national disaster.

Blockchain Security

- Threat Modeling
- Security Methods & Practices
- Risk Management
- Attack Vectors & Mitigation
- Net Security Risk Analysis

Although blockchain transactions are validated and processed by participants that are already recognized by the ledger, the challenge or issue of trust remains. Our Blockchain security services ensure that your blockchain system is secure and trustworthy in order to avoid the substantial impact of a cyberattack. Not only that, we also build security into your blockchain technology from the grounds-up.

IoT Security

- Vulnerability Assessment
- Penetration Assessment
- Interface Assessment
- AAA Testing
- Privacy Assessment

Internet of Things (IoT), is a game changer in the way systems have and will communicate with one another. With an increasing number of devices being connected by the day, the threats and targeted attacks on IoT ecosystem have grown both in size and complexity. Such threats and data privacy concerns must be addressed through an integrated suite of security initiatives fine-tuned to IoT.

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Generic Approach & Methodology

Risk Services

1	Risk based and business centric. Considers every layer of information systems landscape
2	Device control environment from compliance and offensive perspective and drawing inference by correlating security domains
3	"Cradle to Grave" approach for information lifecycle to identify subtle risks
4	Benchmarking with standards and industry best practices
5	Proactive response mechanism to changing threat vectors in the digital world

Digital Transformation

1	Defining Value: Secure senior management commitment, Set clear ambitious targets, secure investment
2	Launch and acceleration: Start with lighthouse projects, appoint a high caliber launch team, Organize to promote new agile ways of working, Nurture a digital culture
3	Scaling up: Sequence initiative for quick returns, build capabilities, adopt a new operating model

Our Technology Partners:

NSDL e-Gov : e-Governance Solutions & Services

NSDL e-Governance works closely with various government agencies for designing, managing and implementing e-Governance projects including GST, Tax information network, Central records keeping for national pension systems, unique identification number Aadhaar enrolment / authentication, e-KYC services, eSign etc.
NSDL e-Governance with its inherent strength and capabilities in project management and technologies expertise as delivered state of the art e-Governance solutions which have helped governments and other bodies to identify and clear bottleneck, promote transparency, reduce service delivery cost and deliver public services efficiently

For More Information please refer to https://www.egov-nsdl.co.in

Allied Digital : Enterprise IT Solutions

Now, be it IT or IT Security, with our partnership with Allied Digital we are providing all technology services under one single roof. Allied Digital is well renowned as a leading Global IT Transformation Architect, with an impeccable track record for designing, developing, deploying and delivering end-to-end IT Infrastructure services. With over two decades of proven experience Allied Digital responsibly delivers cutting-edge IT services and solutions to a wide range of industries spanning 35 countries across 5 continents.
As a trusted partner with wide range of service capabilities and state-of-the-art global command centers, Allied Digital help clients transform and succeed in challenging environments by making better IT decisions.
It has technical knowledge, skill and expertise in the areas of IT infrastructure hosting, monitoring, management and optimization and modernization. Their service pillars are IT-As-A-Service, Infrastructure Services, End User IT Support, IT Asset Lifecycle, and Enterprise Applications & Integrated Solutions and is delivering cutting edge IT services & Solutions to a wide range of industries

For More Information please refer to https://www.allieddigital.net

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