



NEXOR[®]

EXPERTS IN SECURE INFORMATION EXCHANGE

ABOUT NEXOR

Nexor is a specialist Secure Information Exchange SME that delivers accreditable Cross Domain Solutions and Consultancy Services into complex and restricted networks globally. Our Consultancy Services are focused on two areas, our Advisory services fixing the problems of today and Research & Innovation solving the problems of tomorrow. Our customers benefit from a combination of a highly customisable and flexible secure information exchange product portfolio, with subject matter experts who are leading MOD research projects into the future of cross domain technology. Nexor's agile development capability complements our services to ensure that the solutions we provide are tailored to enable our customers' business and security objectives, adeptly balancing risk with budget and functionality.

Nexor's roots in developing innovative technology solutions were established in the late 1980s when the business was spun out of a communications research programme at the University of Nottingham and University College London. Our technology brought a new paradigm in functionality and interoperability to open systems messaging and, consequentially, Nexor products were adopted around the globe in several significant mission critical communications projects. For example, Nexor provided the reference platform for the US DoD Defense Messaging System, thereby establishing our technology as the benchmark in the COTS military messaging space and leading to deployment throughout the "Five Eyes" and NATO communities.

From this foundation in high grade security applications, Nexor's capability focus moved to secure information exchange and cross domain solutions in Defence, Secure Government and Law Enforcement sectors. As of today, several hundred guards and gateways based on our technology have been deployed throughout the allied defence and security community.

Our typical customer needs protection from advanced threat actors that may specifically target their organisation using bespoke techniques to gain access to valuable information assets or attempt to control systems. Nexor utilises our extensive experience within this realm to develop sovereign high assurance information exchange solutions that enable cross domain interoperability and interworking following National Cyber Security Centre guidance and principles.

Nexor understands that the next generation of Cross Domain technologies will inevitably need to integrate with Cloud Platforms and Services, and as such we have evolved our solutions and services to enable customers to fully realise the benefits of these collaborative and interoperable landscapes, whilst removing and managing risks.

RESEARCH & INNOVATION

Organisations in the Defence and Security sectors constantly juggle the rapid pace at which technology develops, business and operational needs change, and the threat landscape evolves. These challenges necessitate a different approach to security and information management and often there isn't an off the shelf solution that meets future needs.

Nexor's Research & Innovation services are built on a successful track record of leading and delivering research projects through multi-disciplinary teams on behalf of defence and security organisations. They involve working closely with you to help clearly define the problem that needs solving as the essential starting point to ensure the right design is reached. Once the problem is well understood, then research into the 'art of the possible', design and prototype services can be provided, enabling a clear view of the path towards future system specification, implementation, and operation.

We offer a range of Research & Innovation services including but not limited to the following:

RESEARCH

Investigating Current Secure Information Exchange Problems and Solutions

Nexor has built an impressive research resume in recent years, heading multi-disciplinary projects and cross-organisational teams on MOD funded investigations into the future of information exchange capabilities and cross domain technology. Nexor is here to help you with your research requirements including, research project leadership, literature reviews, investigative research, and problem definition.

INNOVATION & EXPERIMENTATION

Investigating 'Next Generation' and 'Generation after Next' Problems and Solutions

In the world of cyber security, the market needs to evolve constantly and react to ever-changing threats when it comes to protecting and securing environments and information. As such, research and innovation is essential to continue protecting valuable information and data.

At Nexor we understand the need for innovation to protect against threat actors. By leveraging our own research and innovation programmes and the work we do with defence and government, we are well placed to support you in finding solutions to your own information exchange problems.



ADVISORY SERVICES

In today's environment, CISOs and other key stakeholders are aware of the impacts of general cyber security issues. However, it is far more complex to understand the risks specific to your organisation and even harder to competently mitigate against or otherwise address these risks.

Nexor's Advisory Services are designed to support your organisation throughout the business lifecycle, from assessment and strategy to resilience and continuity. We work with senior leaders and board members to ensure holistic alignment on the threats faced, then flow that down into teams to put plans in place and take appropriate actions.

We offer a range of Advisory Services including but not limited to the following:

SECURITY ASSESSMENT SERVICES

Cyber Security Assessments require a range of security assessment tools and techniques to determine the security posture of an organisation. Nexor's security assessment services consider the threats facing an organisation and its ability to respond to them and provide a bespoke cyber security assessment service tailored to your specific needs. Leading on from the assessment, Nexor's consultants will provide mitigation advice and develop security improvement plans to help you move forwards. Security Assessment Services can range from supporting major defence programmes as domain specialists, to a short threat/risk assessment for a small organisation.

CYBER SECURITY STRATEGY AND POLICY DESIGN

Nexor consultants can define your organisation's approach to cyber security through the creation and/or implementation of a robust cyber security strategy based on your business context and risk profile. This will include the identification of, and adherence to, relevant standards that enable business opportunities and provide customer confidence in your organisation's cyber resilience. Information Assurance

Information Assurance is the grounds for justified confidence that a security or privacy claim has been, or will be, achieved. Nexor offers Information Assurance services that will help your business assess if its new solution or system sufficiently manages the risks it introduces.

Our consultants have years of experience in the realm of Information Assurance in a wide range of markets and will use this context to make valuable suggestions and support your business goals.



ADVISORY SERVICES CONT.

SECURE INFORMATION EXCHANGE SOLUTION DESIGN

Nexor are experts in the field of secure information exchange, having designed solutions for complex and restricted networks globally. We have in-depth knowledge of a range of different environments and principles such as Zero Trust, Data Centric Security, Cloud Environments, and Traditional Information Exchange enabling us to contribute to your solution designs from a security perspective, or design a Secure Information Exchange Solution that will meet your business objectives and security needs.

SECURE BY DESIGN

There has been a strategic shift across government and defence in how organisations approach security. This shift is designed to enable a culture of proactive risk management and appropriate security consideration throughout the capability lifecycle, whereby policies are no longer something to refer to or adhere to only at the point of implementation. Instead, they act as guard rails and connect cyber security principles, roles, processes, tools, and techniques used throughout the lifecycle to achieve secure outcomes.

At Nexor, the approach of implementing security from the start of a project has always been fundamental to the way we work with our clients and design and develop our own solutions. This approach is validated through a range of current certifications: ISO 27001 (Information Security Management) held since 2004 and TickITplus (Software Trustworthiness) since 2014.

SUPPLY CHAIN SECURITY

It is important to have a secure supply chain to protect the integrity and availability of products and services to ensure they are delivered to the right location within timescales. Alongside the operational aspects, it is a necessity to protect the confidentiality of data and information.

Nexor's Supply Chain Security Service assesses the cyber security risk of a supply chain for your particular project or procurement. It takes a holistic view of cyber risk, combining information from multiple sources. This includes the dark web, data incidents directly linked to your supply chain and, where available, data via a third-party data breach. This is then fused with an understanding of your company's ownership, geographic locations, and key personnel/executives to provide an overall risk assessment for companies within a supply chain. Nexor will then work with you to create and implement a risk mitigation plan, and where required, monitor the supply chain companies on an ongoing basis.



SIXA® SOLUTIONS

SIXA® is the innovative technology framework which forms the foundation of a Nexor Cross Domain Solution. Designed by experts with decades of experience in secure information exchange, SIXA® is aligned to the NCSC Secure Design Principles enabling simpler, quicker, and more affordable accreditation of a high assurance cross domain solution.

It is designed to be flexible and adaptable according to specific customer requirements, ensuring that our agile collaborative approach leads to a solution that meets your organisational and security objectives.

Nexor Cross Domain Solutions can be delivered either as:

- An off the shelf solution utilising our existing Secure Information Exchange Architecture configured to meet your specific secure information exchange requirements.
- OR
- A collaborative, evergreen hardware or cloud-based software solution developed using agile methods and Nexor's evolving extensive library of Information Exchange functions and features to meet your changing business and solution requirements.

The SIXA® framework provides a cost optimised Secure Information Exchange approach by taking advantage of the underlying software and hardware cloud-native services to flexibly allocate resources on demand and provide resilience against failure at multiple levels of the system.

Using this framework also allows Nexor's proprietary technology to fully integrate with third-party functions from world-leading security partners such as Sophos and Peraton. This enables us to design complete cross domain solutions that mitigate against a wide range of risks.

NEXOR SENTINEL

The Nexor Sentinel is a SIXA® based mail guard appliance designed to protect an organisation by validating that inbound and outbound electronic messages conform to the security policy of the protected domain. The underlying secure framework ensures network separation of the connected domains, while the base mail guard application ensures only policy conformant messages can pass between these connected networks. Sentinel has a long deployment history within NATO and independent national defence organisations including the UK MOD.

SIXA® SOLUTIONS CONT.

NEXOR GUARDIAN

The Nexor Guardian is a SIXA® based cross domain guarding appliance that provides a flexible and modular solution to control and validate the flow of data being transferred between networks of different trust levels, through its highly secure, high-throughput content checking capability. Only data that passes policy enforcement rules are allowed to transfer to the destination network.

NEXOR PROTEAN

Nexor Protean is a SIXA® based cross domain guarding solution specifically built using cloud technologies and adhering to Nexor's Secure Information Exchange Principles. This can be used to create guards and integrate with agile build pipelines, data flows and other secure processes within and across cloud environments. Nexor Protean provides guarding capability within a scalable platform allowing multiple modules to be stood up and increasing capacity for those modules as needed with secured and verified data flows.

NEXOR DATA DIODE

The Nexor Data Diode is our optical data diode solution, physically designed to only allow data transfer in one direction, providing a 100% guarantee that no data can ever leak back to the untrusted network. This makes it an excellent fit for high assurance environments where data leakage is unacceptable. The Nexor Data Diode has the highest accreditation for operation in the highest assurance environments and has been widely deployed in security and defence organisations.

NEXOR GUARDIODE

The Nexor GuarDiode is a unified product combining the highly secure, high-throughput, content checking capability of a Guardian with the enforced one-way data transmission of a data diode. A range of optional extra security features means it is highly configurable according to your requirements. Nexor GuarDiode has already been deployed in a variety of defence environments.

NEXOR LTD
8 THE TRIANGLE
ENTERPRISE WAY
NG2 BUSINESS PARK
NOTTINGHAM
NG2 1AE
UNITED KINGDOM

T: +44 (0) 115 952 0575

E: [INFO@NEXOR.COM](mailto:info@nexor.com)

W: [WWW.NEXOR.COM](http://www.nexor.com)

COPYRIGHT © 2023 NEXOR ALL RIGHTS RESERVED