Managed Security Services
Managed Security Services to fight cyber-threats

Today’s telecom companies face an increasing volume and variety of cyber threats. To combat these risks, Nokia offers its Managed Security Service (MSS), an end-to-end security solution that helps prevent, detect, respond to and recover from attacks. It continuously manages an operator’s security infrastructure to protect against all applicable cyber-threats and meet all security standards and regulations.
A new world of threats
Telecom companies are experiencing a new world of cyber-threats, one where there is no longer a firm border between the safe and the unsafe. With network boundaries dissolving and networks themselves made up of several technologies from different vendors, intruders have more chances to gain access and cause damage using advanced malware. Such attacks may be from inside or outside the network, making any part of the network vulnerable, including the radio and core networks.

Conventional controls to prevent attacks have become ineffective and the focus has shifted to detection and response. However, existing security solutions are designed largely for enterprises and lack the features needed for telecom security.

Bridging the security gap
Nokia Managed Security Services (MSS) bridges this gap and supports operators with both basic and advanced services. While the basic services focus on improving the prevention of attacks, the advanced services detect attacks in progress and develop a better response to them.

## Services

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<th>Basic Services</th>
<th>Advanced Services</th>
<th>Hosted Services</th>
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<td>- Security advisory</td>
<td>- Transformation security services</td>
<td>- Nokia NetGuard</td>
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<td>- Layered attack deterrence</td>
<td>- Rapid response services</td>
<td>- Threat Intelligence</td>
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<td>- Security governance</td>
<td>- Context-aware security services</td>
<td>- Security Monitoring</td>
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<td>- Compliance management</td>
<td>- Threat intelligence &amp; threat hunting</td>
<td>- Vulnerability Management</td>
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<tr>
<td>- Security infra management (all layers)</td>
<td>- Investigations and digital forensics</td>
<td>- Advanced Malware Protection</td>
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<tr>
<td>- Business resiliency management</td>
<td>- VA/PT/EH (Application and Network)</td>
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<td>- Data Protection/Privacy</td>
<td>- Application security services</td>
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<td>- Third party security</td>
<td>- Data-centric security services</td>
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<td>- Identity and access management services</td>
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### MSS Core Portfolio

- Security Risk Index (SRI)
- Security Infrastructure Management Services
- Security Governance, Risk and Compliance Management Services
- Security Monitoring & Response Services
- Transformation Security (Cloud, Virtualization, IoT, etc.)
- Penetration Testing (Hacker’s Perspective)
- Threat Intelligence, Threat Hunting & Digital Forensics
- Security Solutions aaS
  - Hosted security solutions (Nokia NetGuard, DeepField, Security Monitoring, Vulnerability management, etc.)

### Hosted Services
- Nokia NetGuard
- DDoS – DeepField
- Threat Intelligence
- Security Monitoring
- Vulnerability Management
- Advanced Malware Protection
Better detection and response
Nokia MSS related to cyber-attacks detection and response can be divided into those employed before a security incident and those used once an attack is executed. Together they provide a complete spectrum of defence for telecom companies facing a wide range of both known and unknown threats.

Before security incident:
• Use-Case and Response Plan: This helps telecom companies identify telecom-specific threats or use cases and form a response plan to counter them
• Threat Intelligence: The Nokia threat intelligence service keeps operators up to date on current global threats
• Threat Hunting: Our deep analytics and machine learning capabilities identify unknown or hidden threats that could evade existing security methods
• Security Monitoring: Nokia’s unique use-case-based methodology monitors security alerts and events in real-time

After security incident:
• Security Incident Management: This service speeds up the management of the lifecycle of a security incident, using effective and faster incident analysis, communication, work-around, response, root-cause analysis and corrective measures
• Rapid Response Service: Nokia’s rapid security response service integrates machine intelligence with human expertise, to effectively contain, mitigate or eliminate the identified threats
• Investigation and Digital Forensics: Domain experts and forensics capabilities aid an effective response to cybercrimes, from the initial triage to investigations and corrective measures.
<table>
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<tr>
<th>Global Presence</th>
<th>Security Project World Wide</th>
<th>Certifications held by our security experts</th>
<th>Active role in security standardization bodies</th>
<th>Commercial LTE Network Secures</th>
<th>Open interface and vendor agnostic</th>
<th>Dedicated security service team since</th>
<th>Firewall installed on operator networks</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>500+</td>
<td>10+</td>
<td>No1.</td>
<td>2004</td>
<td>4000+</td>
<td>2004</td>
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**Wide-ranging benefits**
- Access to Nokia’s wide security portfolio to meet a wide range of security needs
- Enhance cybersecurity solutions with tailored telecom security use cases
- Gain continuous visibility of your readiness and improve security posture facing cyber-threats and comply with regulations
- Build effective detection and response mechanisms against modern day cyber-threats
- Sustained security program with continuous visibility and predictable outcome
- Secure safe adoption of disruptive technologies such as cloud, big data and Internet of Things (IoT)
About Nokia
Nokia is a global leader in the technologies that connect people and things. Powered by the innovation of Bell Labs and Nokia Technologies, the company is at the forefront of creating and licensing the technologies that are increasingly at the heart of our connected lives.

With state-of-the-art software, hardware and services for any type of network, Nokia is uniquely positioned to help communication service providers, governments, and large enterprises deliver on the promise of 5G, the Cloud and the Internet of Things. http://nokia.com

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