



**STORMSHIELD**



INDUSTRIAL SECURITY

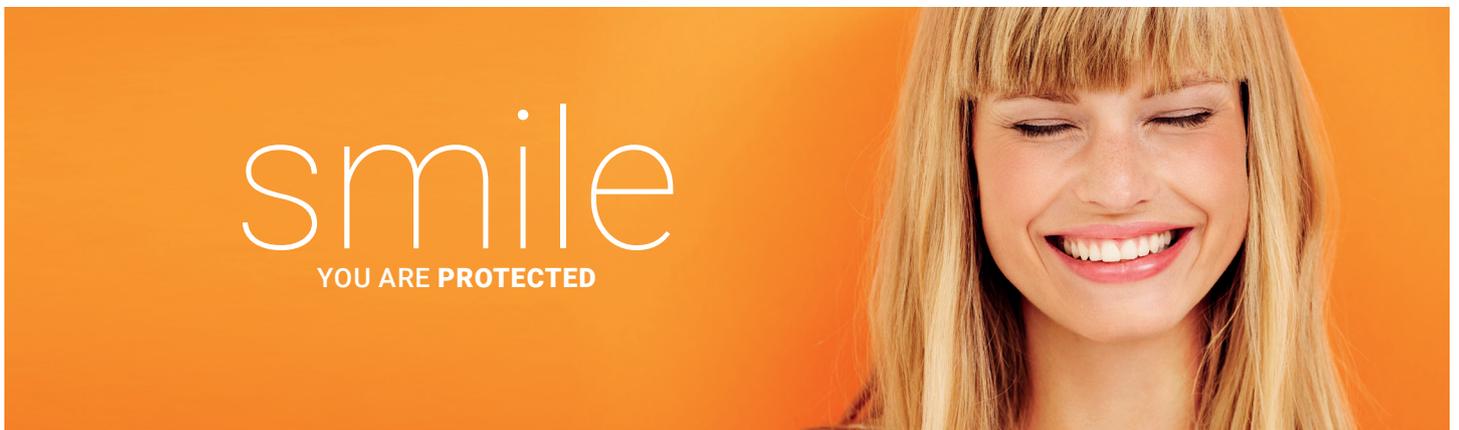
STORMSHIELD  
**PROTECTION  
FOR  
OPERATIONAL  
NETWORKS**

Unified Threat Management and Next-Generation Firewalls  
Solutions



## Our mission

To make the digital world a sustainable and trustworthy environment, by ensuring business continuity and data protection for organisations, their employees and their customers.



### TRANSPARENT **SAFETY**

In this *Bring-Your-Own-Everything* era, it is increasingly difficult to impose rules on users to **develop an agile company that is in tune with the times**. For security to be efficient, it needs to be transparent for users and administrators.

### COLLABORATIVE **SECURITY**

A new approach to security has become indispensable. Stormshield therefore offers the Multi-layer Collaborative Security concept. This holistic model, based on **an active collaboration between the security engines of our different solutions**, is the future strong defence of information systems.

### SCALABLE **SECURITY**

As a security solution requires years of investment, the Stormshield product ranges offer the modularity and features required for **supporting future developments** of the information system.



# The European solution that meets your needs



## Protocol content monitoring

Latest generation firewall that inspects the business flows of industrial installations.



## Optimised protection engine

The activation of security has a controlled impact on the latency and use of your equipment.



## Trust

The standard qualification and highest-level European certifications



## Industrial application inventory

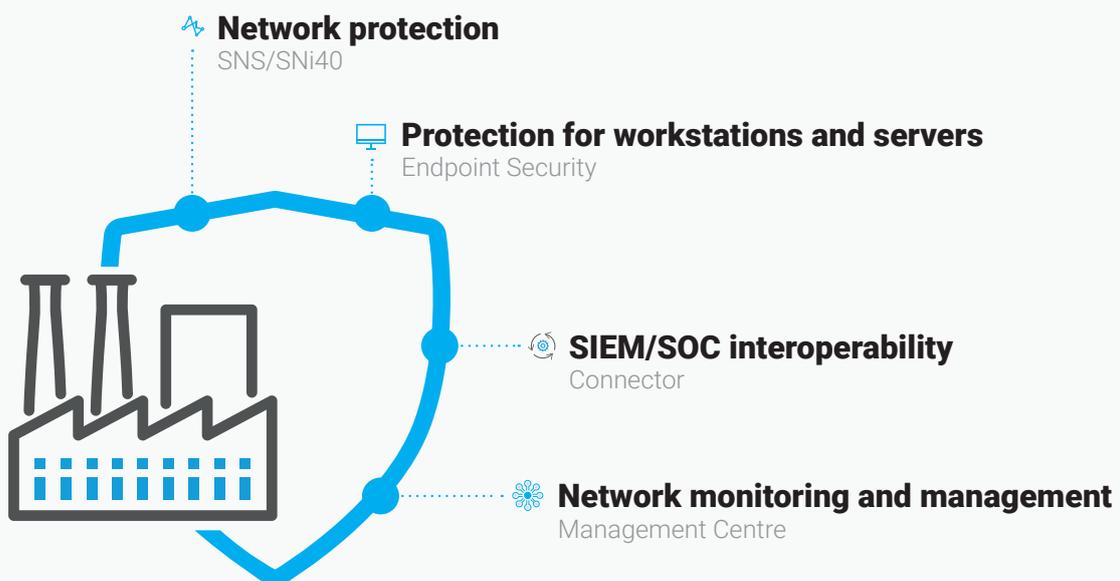
Being aware of all the industrial system factors is very helpful for managing operational risks. Moreover, you receive a notification when a vulnerability is detected in your network.



## Respect your compliance commitments

Ensure that you comply with standards, regulations and norms that require an access control (PCI-DSS, ISO 27001, the French Data Protection law, etc.).

## A comprehensive offer



# PROTECT THE INDUSTRIAL INSTALLATIONS FROM THREATS TARGETING WORKSTATIONS OR COMING FROM THE NETWORK

## Detect and protect your industrial business with no impact

By integrating Stormshield security solutions in the OT (Operational Technology) and IT (Information Technology) domains, you benefit from a combination of protection measures for your production systems without impacting your business. All your systems have unique technical solutions designed for both domains.



### Integrity

By strengthening the security level on control workstations and conducting a thorough inspection of the traffic on the operational network, you will reduce the risk of flows and business applications from being corrupt. The global approach of Stormshield's industrial offer ensures the complete integrity of the industrial system.

### Availability

The products implemented in Stormshield's industrial offer are designed to meet requirements in terms of the operational network's performance and availability. You therefore protect your infrastructure while guaranteeing its proper operation.

### Trust

Stormshield's industrial offer includes a global solution for protecting the industrial system. Based on certified products, this approach guarantees mutual trust in the messages exchanged between the different components of the system.

## Certified trust

As a trusted partner, Stormshield provides technologies that are certified at the highest European level (EU RESTRICTED, NATO RESTRICTED, EAL3+/4+, QUALIFICATION ANSSI and FIPS 140-2).

The certifications and qualifications obtained guarantee a level of protection that is suited to the strategic information of the most sensitive companies and

organisations.

As evidence of Stormshield's commitment to responding to the challenges of industrial security, SNI40 is the first protection solution to be awarded the CSPN Industrial Firewall certification, offered by the French National Cybersecurity Agency (ANSSI).



# A unique combination

## for advanced security

### A comprehensive range...

Stormshield Network Security is a comprehensive range of network security solutions with a reinforced casing, the SNI40, for environments with major constraints.

### ... and a single software

The Stormshield Network Security range has a single interface which enables you to manage your security policy easily and implement a complete protection inside or around your industrial system.

### Controlling business applications

The Stormshield Network Security range offers a highly efficient inspection engine. Its thorough analysis of the industrial protocols guarantees the detection and protection of the business line application flows of the main manufacturers (Schneider Electric, Siemens, Rockwell, etc.).

### Joint centralised management

Stormshield Network Security's centralised administration solution offers joint management and supervision between the IT and OT networks. It helps you control your security policy in a global way to enable you to reduce operating costs.

### Signature-free autonomous solution...

Stormshield Endpoint Security protects all industrial workstations including those that are disconnected through a security solution without a signature database and therefore without requiring any updates. This solution therefore also ensures protection against obsolete systems, such as Windows Vista, XP or Windows 2003 Server.

### ... against unknown threats

The signature-free approach, based on behavioural analysis, guarantees optimal protection against sophisticated unknown threats.

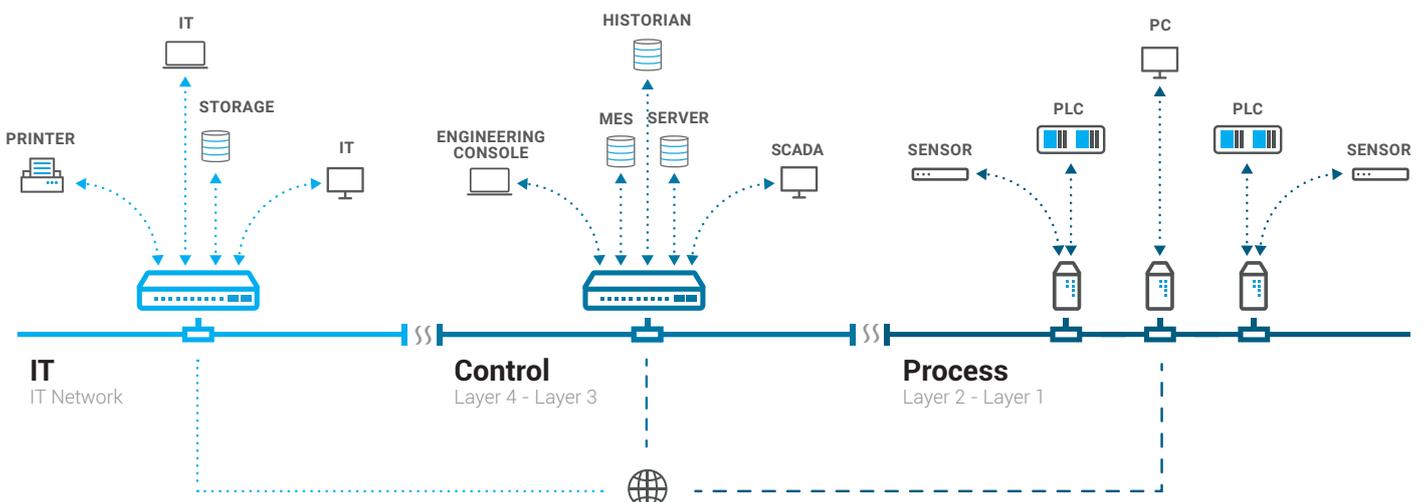
### Connectivity monitoring

It is essential to monitor peripheral devices (USB, Wi-Fi, 3G, 4G, etc.). Stormshield Endpoint Security makes managing accesses to certain kinds of peripheral devices easier (approval under conditions, bans).

### Technology that is adaptable to the context

Stormshield Endpoint Security's behavioural analysis protects workstations and consoles in real time. Stormshield Endpoint Security can react automatically depending on the environment. This unique capacity to adapt makes it possible to take immediate action when the context changes.

## Implementation of solutions



# Customised solutions

An offer adapted to your business needs

## Distribution (water - gas - electricity)

- Reduce your operating costs • Simplify the network administration
- An all-in-one functional coverage
- Offer on-demand services to your customers • Support your sales force

## Agri-food

- Guarantee the availability of services • Protect medical files
- Merge mobility and security • Manage patient data more easily

## Electric production

- Reconcile security, reliability & flexibility • End-to-end risk management • Reduce operating costs

## Transport and mobility

- Performance • Secure your communications • Centralise your security management • Traceability

## Energy (petrol - gas)

- Choose trustworthy products
- Protection at the highest level
- Manage the protection of your communications • Centralise to make management easier • Easy to integrate into your structure

## Production chain

- Protect the entire industrial chain • Secure accesses and workstations remotely • Ensure network availability
- Inventory of the industrial infrastructure

## Technical management of buildings

- Management of vulnerabilities • Quick return on investment • Choose trustworthy solutions

# A team

by your side



**A specialised multidisciplinary team** that understands the challenges of your sector



**Permanent support** and proximity of sales and technical teams



**R&D teams** fully dedicated to Industry

# Services for efficient security

## Support

- Level 1 by the publisher
- 24x7 optional
- Incident tracking on [mystormshield.eu](http://mystormshield.eu)

## Professional Services

- Consulting day with a Stormshield expert
- Technical account management

## Training

- 3 levels of expertise
- Training that leads to certification
- Training adapted to IT & OT staff

# Network solutions

	SN160	SN210	SN310	SNi40	SN510	SN710	SN910	SN2100	SN3100	SN6100
<b>PERFORMANCE*</b>										
Firewall throughput (1,518 byte UDP)	1 Gbps	2 Gbps	3.5 Gbps	4.8 Gbps	5 Gbps	10 Gbps	20 Gbps	50 Gbps	70 Gbps	140 Gbps
IPS throughput (1,518 byte UDP)	800 Mbps	1.6 Gbps	2.4 Gbps	2.9 Gbps	3 Gbps	7 Gbps	12.5 Gbps	30 Gbps	40 Gbps	53 Gbps
IPS throughput (1 MB HTTP)	400 Mbps	800 Mbps	1.1 Gbps	1.8 Gbps	1.7 Gbps	2.6 Gbps	7 Gbps	17 Gbps	20 Gbps	24 Gbps
<b>VPN*</b>										
IPSec throughput (AES128 – SHA1)	200 Mbps	350 Mbps	600 Mbps	1.1 Gbps	1 Gbps	2.4 Gbps	4 Gbps	8 Gbps	10 Gbps	15 Gbps
Max. number of IPSec VPN tunnels	50	50	100	500	500	1,000	1,000	5,000	5,000	10,000
<b>AVAILABILITY</b>										
High availability (Active/Passive)	-	-	•	•	•	•	•	•	•	•
Fail-safe mode	-	-	-	•	-	-	-	-	-	-
<b>CONNECTIVITY</b>										
10/100/1,000 interfaces	1+4 ports (switch)	2+6 ports (switch)	8	5	12	8-16	8-16	2-26	2-26	8-48
1 GB fibre interfaces	-	-	-	0-2	-	0-4	0-6	0-24	0-24	0-48
10 GB fibre interfaces	-	-	-	-	-	0-2	0-2	0-12	0-12	0-26
<b>INDUSTRIAL PROTOCOLS</b>										
List of protocols	SN160	SN210	SN310	SNi40	SN510	SN710	SN910	SN2100	SN3100	SN6100
	<b>Owners:</b> UMAS, S7 200-300-400, CIP / <b>Control:</b> Modbus, OPC UA, IEC 104, BACnet/IP, DNP3 / <b>Supervision:</b> OPC, EtherNet/IP									
	UNIFIED SECURITY			OT	BUSINESS CONTINUITY			FLEXIBILITY & PERFORMANCE		

## Strengthened solution

Installation

Rail Din (length: 35 mm, norm: EN 50022)

### INDUSTRIAL PROTOCOLS - DEEP PACKET INSPECTION (DPI)

Modbus, UMAS, S7 200-300-400, EtherNet/IP, CIP, OPC UA, CEI 60870-5-104, OPC (DA/HDA/AE), BACnet/IP and IT

### HARDWARE

	SNi40
Storage	32 GB SSD
Archiving division	> 20 GB SSD
MTBF (years) @ +25°C	26.6
Redundant power supply (DC)	12 - 36 VDC / 5 - 1.67 A
Consumption (W) (Idle) DC @+25°C	15.5
Consumption (W) (full load, max.) DC @+25°C	19.5
Heat dissipation (max. BTU/h)	66.54
Working temperature	-40° to +75°C (-40° to +167°F)
Humidity relating to functioning (without condensation)	0% to 90%
Level of protection provided by the box (IP Code)	IP30

### COMPLIANCE

CE/FCC, EN 61000-6-2:2005, EN 61000-6-4:2007/A1:2011, IEC 61000-4-18:2006/A1:2010, IEC 60068-2

## Protection of Workstations & Consoles

### Software components

Agent  
Server  
Administration console

### Advised system prerequisite

#### For the agent

Pentium IV 3 Ghz

#### Memory

512 MB (minimum)/1 GB (recommended)

#### Disk space

250 MB (90 MB with the agent's logs)

#### Operating systems

Windows XP SP3 (32 bits)  
Windows Vista (32 & 64 bits)  
Windows 7 SP1 (32 & 64 bits)  
Windows 8.1 Update 1 (32 & 64 bits)  
Windows 10 (32 & 64 bits)  
Windows Server 2003  
Windows Server 2008 SP2 (32 bits)  
Windows Server 2008 R2 (64 bits)  
Windows Server 2012 R2 (64 bits)

#### For the administration server

Processor paced at minimum 1 Ghz

#### Memory

Minimum 1 GB

#### Operating systems

Windows Server 2008 SP2 (32 bits & 64 bits)  
Windows Server 2012 R2 (64 bits)

\*The performances are measured in a laboratory and under ideal conditions for the 3.x version.  
The results vary depending on the test conditions and software version.

# Stormshield Industrial Offer the key points



## AUTONOMOUS SOLUTION

As a major French cybersecurity player, we have been offering solutions that respond to European legal requirements for the last 15 years.



## ACCREDITATIONS

Our technologies are certified at the highest European level, guaranteeing you customised protection for your organisation's strategic information and sensitive data.



## ECOSYSTEM

We work with other players to develop joint solutions, share information about threats and collectively improve our customers' defences.



## ALL-IN-ONE SECURITY

You benefit from all the integrated security features.  
At no extra cost.



## INDUSTRIAL SECURITY

The high availability function and fail-safe mode of the SNI40 network guarantee optimal service continuity even in the event of default.



## SIGNATURE-FREE PROTECTION

The ideal solution to counter known or unknown threats for non-connected and/or obsolete environments.



## UNIQUE END-TO-END SOLUTION

Protect your entire IT and OT network infrastructure efficiently via your control workstations.



## SERVICE PACKS

Choose an offer that is pure and simple with four security service packs that integrate the hardware maintenance of your product.



## TECHNICAL SUPPORT

Our technical support works closely with our R&D teams so you benefit from manufacturer's expertise.



# STORMSHIELD



Stormshield, a wholly-owned subsidiary of Airbus CyberSecurity, is offering innovative, end-to-end security solutions for the protection of IT networks (Stormshield Network Security), workstations (Stormshield Endpoint Security) and data (Stormshield Data Security).

[www.stormshield.com](http://www.stormshield.com)