



Kaspersky Industrial
Cybersecurity
Conference

Kaspersky ICS MDR



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kaspersky

Agenda

Challenges

Our expertise

New service

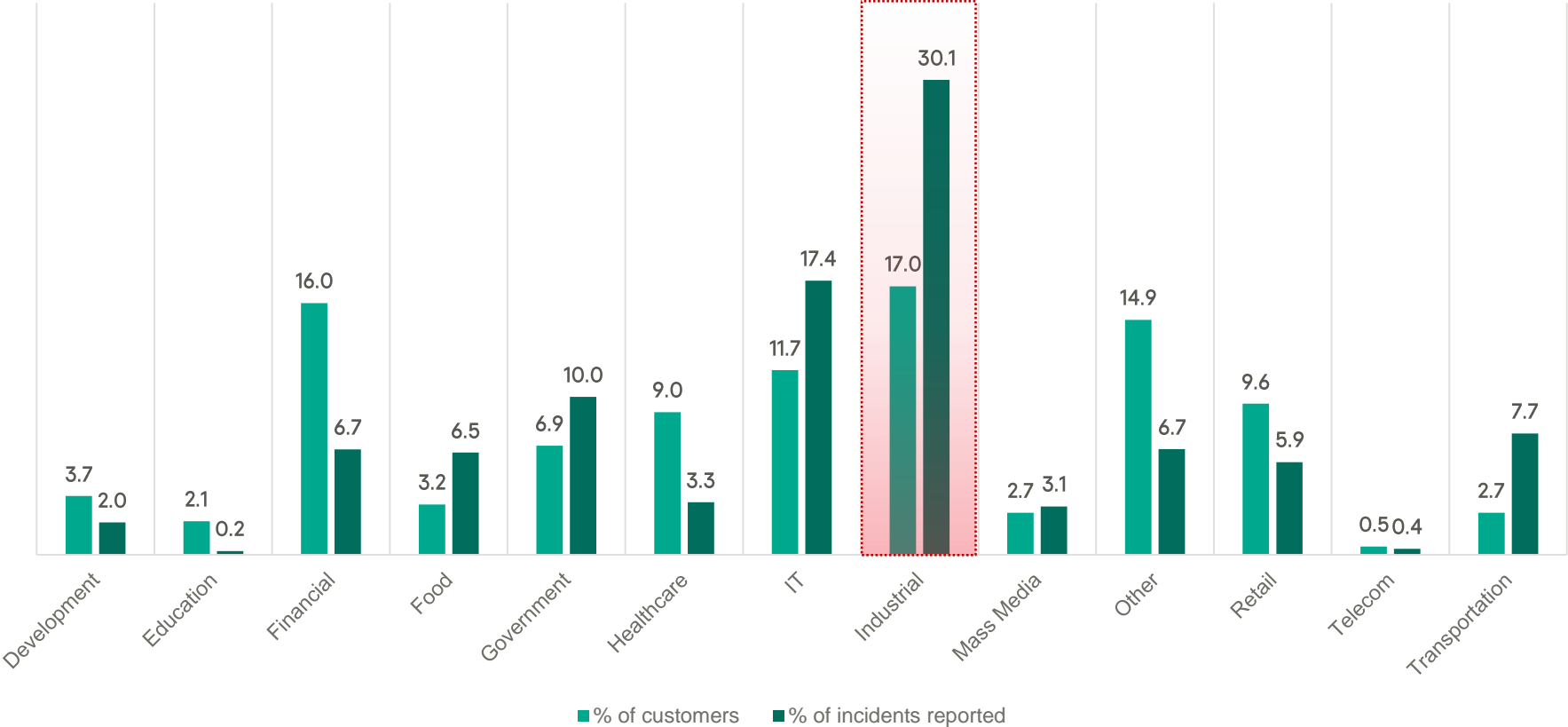
How it works

Summary

Challenges



Industrial is one of the primary targets for cybercrime and APT



Based on Kaspersky MDR service data (2021)

- **31.8%** of industrial hosts encountered malware at least once
- **16.5%** of threats was from the internet sources
- on **7%** of industrial hosts malware was blocked in emails or web traffic

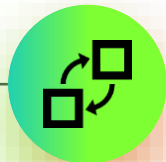
Key security elements

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Expertise

The effectiveness of modern complex security solutions directly correlates with the expertise level of IT security / SOC teams. Organizations should invest in education of their local experts, or use external Managed Detection & Response services from a proven, trusted provider.



Reliable security solutions

IT security / SOC experts need solutions that monitor all security-related events within their organization's IT infrastructure, with timely and accurate detection of cyberthreats – plus a high level of automation for fast, effective containment and eradication. Such solutions must be specifically designed to address today's evolving challenges.



Threat Intelligence

Without relevant, actionable information about which threat actors pose the highest threat to an organization, and what their tactics, techniques and procedures are, it's impossible to protect against modern, sophisticated cyberthreats. The use of Threat Intelligence data should be an integral part of any business's cybersecurity strategy.

Our expertise



Our expertise

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700+ Threat groups
and campaigns

380K new malicious files are
detected by Kaspersky
every day

200+ world-leading
security
researchers



Threat Research and Global Research and Analysis Teams are
strategically located all around the globe, providing unparalleled depth of
analysis and understanding of all kinds of threats

Targeted attack research

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2016	2017	2018	2019	2020	2021
 ProjectSauron	 WannaCry	 Zebrocy	 Topinambour	 Cycldek	 GhostEmperor
 StrongPity	 Shamoon 2.0	 DarkTequila	 ShadowHammer	 SixLittleMonkeys (aka Microcin)	 ExCone
 Lazarus	 StoneDrill	 MuddyWater	 SneakyPastes	 CactusPete	 BlackShadow
 Fruity Armor	 BlueNoroff	 Skygofree	 FinSpy	 DeathStalker	 BountyGlad
 ScarCruft	 ExPetr/NotPetya	 Olympic Destroyer	 DarkUniverse	 MATA	 EdwardsPheasant
 Poseidon	 Moonlight Maze	 ZooPark	 COMpfun	 TransparentT ribe	 HotCousin
 Danti	 ShadowPad	 Hades	 Titanium	 WellMess	 GoldenJackal
 Dropping Elephant	 BlackOasis	 Octopus		 TwoSail Junk	 FerociousKitten
	 Silence	 AppleJeus		 MontysThree	 ReconHellcat
	 WhiteBear			 MosaicRegressor	 CoughingDown
				 VHD Ransomware	 MysterySnail
				 WildPressure	 CraneLand
				 PhantomLance	

ICS specific threat intelligence

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ICS Reporting

Subscription-based access via a web portal to regular TI reports with ICS-specific information on attacks, threats and vulnerabilities



ICS malware data feed

Feed contains Indicators of Compromise (IOCs) and metadata for integration with third-party SIEM systems



Tailored reports

Highly customized threat intelligence reports with either a tactical or strategic focus for the period (quarter / year) and specified geography / industry



ICS vulnerability data feed

Feed contains accurate and up-to-date information to identify vulnerabilities in the ICS network

ICS related threat intelligence research is conducted by a dedicated team – Kaspersky ICS CERT

- Established in 2016
- The first CERT team created by a commercial organization
- Around 20 highly qualified experts in ICS threat and vulnerability research, incident response and security analysis



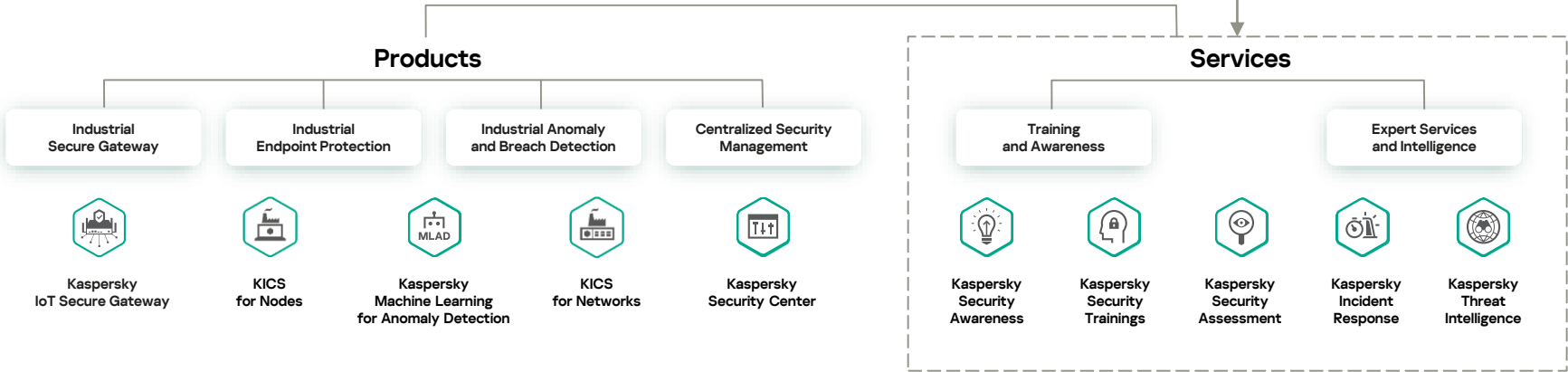
Kaspersky Industrial CyberSecurity



Authorized to Use CERT™
CERT is a mark owned by
Carnegie Mellon University

Kaspersky ICS-CERT

Industrial Systems
Emergency Response
Team offering expert
intelligence and consulting
services.



Some of the supported
devices & protocols



New service

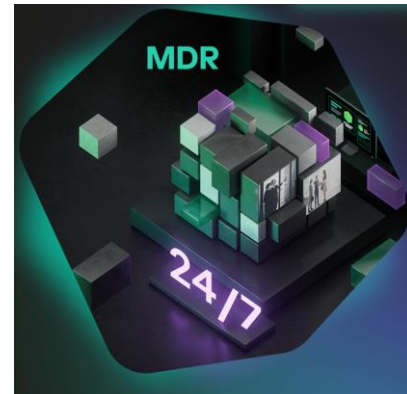
_____ ICS Managed Detection and Response



ICS Managed Detection and Response

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- **Continuous incident detection** service on top of KES, KATA and KICS with easy setup and no additional infra costs
- **Threat detection and Cyber threat hunting:**
 - New malware detection
 - Non-malware attack detection (Living-off the land)
 - APT and targeted attack detection (any sort of human-driven)
- Covers both OT and IT networks
- Unified console for product configuration, incidents and response management
- API support
- Direct access to SOC analysts





Advanced Threat Detection

Kaspersky SOC experts detect even sophisticated targeted attacks with hundreds of threat hunting rules based on our Threat Intelligence and 20+ years of experience in cybersecurity.



Efficiency

Kaspersky SOC experts monitor events from your organization on **24x7** basis.

We analyze all suspicious actions and report only real incidents avoiding false positives.



Response and Remediation

All incidents are reported with the recommendations how to respond to detected threats.

Remote controlled pre-approved and approved response is also supported.

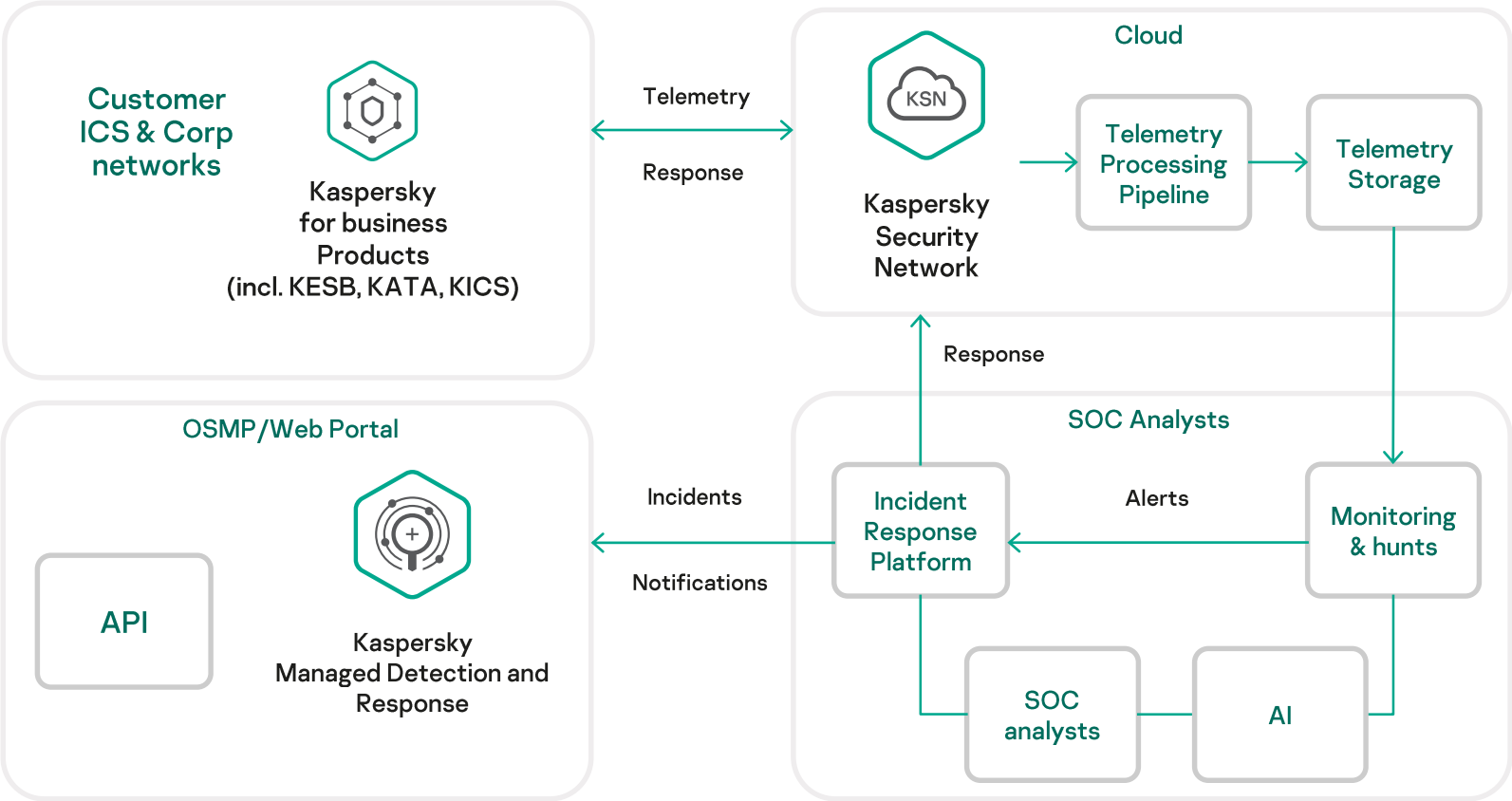
Customer Profile	MDR Value
No security operations at all	Baseline security operations: <ul style="list-style-type: none">- Monitoring, threat detection, investigation
Mature security operations (Enterprise SOC)	Additional detection capabilities: <ul style="list-style-type: none">- Detect threats with Kaspersky products- Reported incidents can be pulled to corporate Incident management system (API)
Managed Security Service Provider	Augment existing threat detection capabilities: <ul style="list-style-type: none">- Detect threats with Kaspersky products- Enrich Provider's reports

Priority level	Reaction time	Target value
High (example: targeted attack)	1 hour	90%
Medium (example: common malware)	4 hours	90%
Low (example: adware, riskware, etc.)	24 hours	90%

- **Reaction time** – the time from detection of incident (Created time) to publishing it to MDR portal (Updated time)
- **Target Value** – percent of the number of incidents with Reaction time and Response time met Target value objective

A collage of green cubes and rectangles featuring various industrial and energy-related images: an offshore oil rig, a wind turbine, a power line tower, a crane, and a pumpjack, set against a dark background.

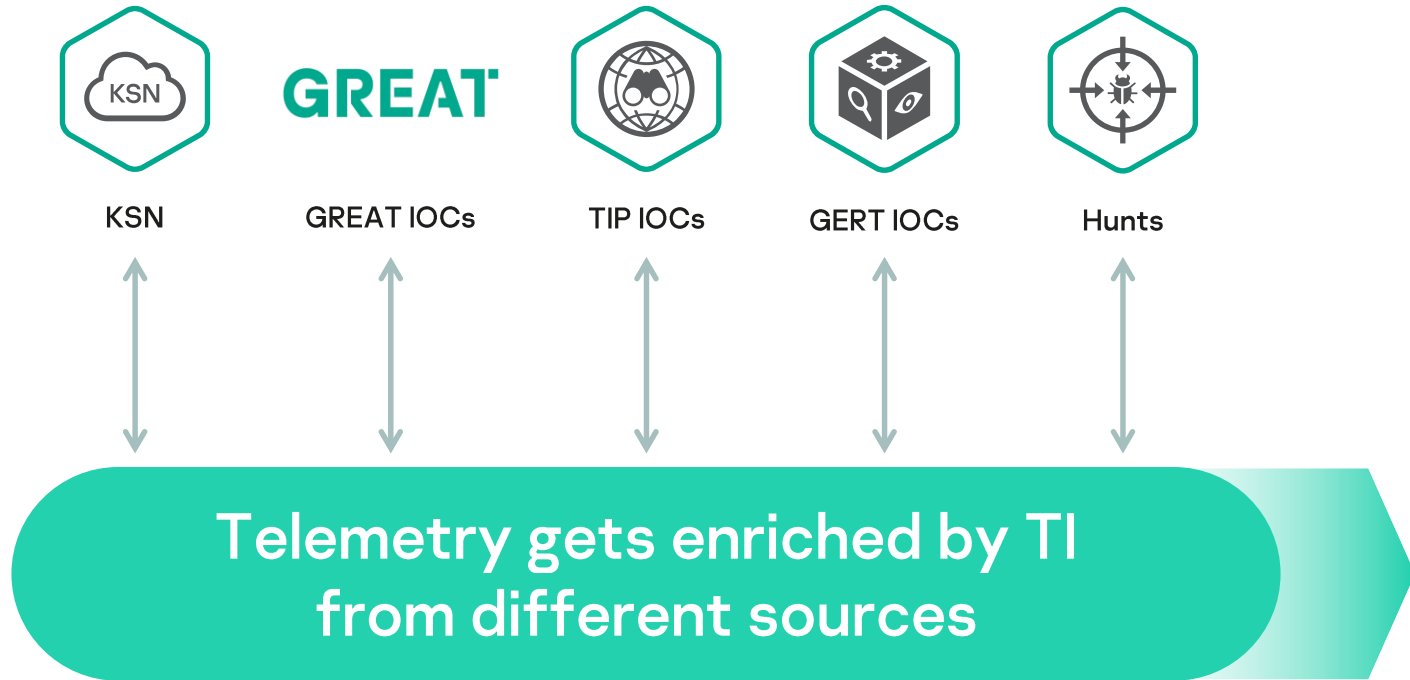
High-level service architecture



- Filesystem events (file creation, modification)
- Process events (process start, process injection, etc.)
- Network events (connection, DNS query, file downloading, email, etc.)
- System events (registry, event logs, WMI, autorun, etc.)
- Endpoint security events (AV/KICS detect, etc.)
- Network security events (KICS detect, KATA, etc.)
- Service events

Telemetry processing pipeline – enrichment (examples)

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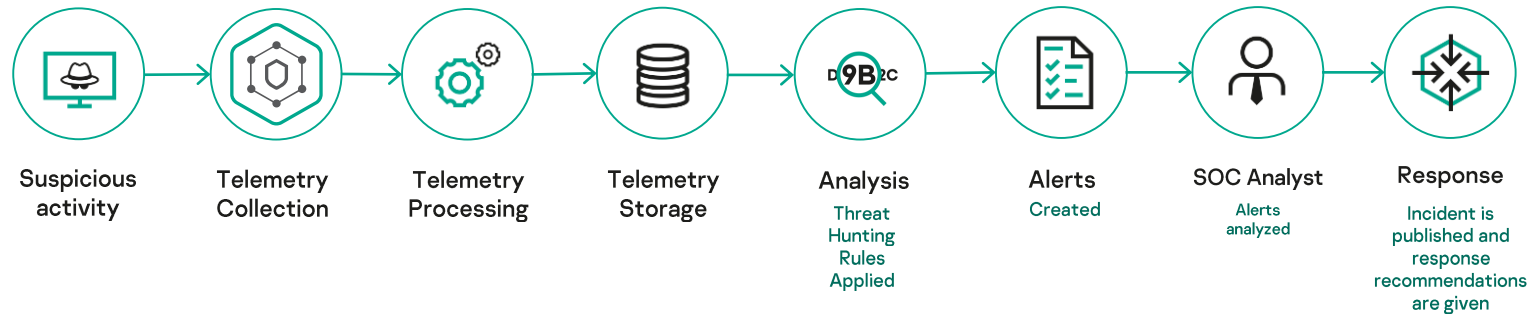


Threat hunting rules or “hunts”

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- 1100+ active threat hunting rules including ICS-specific
- Each rule created by our experts
- Rules are based on our Threat Intelligence and MITRE ATT&CK Framework
- Rules are regularly updated with information from our Threat Intelligence services

So how it works



Summary

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- 24x7 incident detection service
- Run by Kaspersky SOC analysts with years of experience and 500K+ protected nodes of 200+ customers
- Covers both IT and OT networks
- Works on top of Kaspersky security products (no additional software required)
- Can be integrated with existing IRP/SOAR systems (through API)
- Easy setup and no additional infrastructure costs
- **Free trial period**

Thank you

Try ICS MDR now for free!

Anton Ivanov

Chief Technology Officer

kaspersky