



Optimal Endpoint Security Explained and Explored in Partnership with Matrix42

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Introduction

Data protection is a baseline requirement for businesses, governments, and individuals in today's world.

Data breaches, hacking, and the human element are continuous reminders of threats and risks worldwide. Both the monetary and reputational costs associated with a data breach can be astronomical. Requirements of advanced cybersecurity and endpoint DLP (data loss protection) strategies all rely on dependable and efficient storage and memory.

The use of encryption, fast storage, and memory combined with best practices, standards, and policies is a big step. Lost laptops and USB drives leave individuals and companies alike vulnerable to exposing personal and private information. Kingston offers threat prevention solutions to help mitigate risks while complementing an existing or developing security plan.



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Content

This short eBook will look at endpoint solutions, and where Kingston's encrypted USB drives, its customization program, and Matrix42 EgoSecure Data Protection software have helped solve six different industry sector challenges and provide them with a solution that matched their business needs.

We deep dive into these six sectors and see how they dealt with their endpoint security challenges.

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Section 1: Industry Use Case

Public Sector



Situation:

Within the public sector, the use of USB devices is very common. For example, public order offices must copy the pictures taken of parking offenders and administrative offences from digital cameras to the authorities' systems via USB cable. Police authorities receive investigation data on external data-storage devices. This data needs to be rewritten and unauthorized access must be prevented.

Challenge:

Due to the high demand for USB devices, employees regularly ask for USB drives. The use of private and unauthorized data storage devices must be blocked for security reasons. If an employee needs a new USB storage device, it should be made available as quickly as possible via the User Help Desk so that the employees are not disturbed in their work. It is important to note that no security problems arise from the use of the appropriate USB devices.

Solution:

By combining device control, data filtering, and encryption, the following scenario can be made possible:

Unknown devices are generally blocked on computer endpoints. Data storage devices such as digital cameras are only allowed for certain functions, such as reading image files. Write operations are generally encrypted and allowed only on authorized USB devices. All data accesses are logged. The management of authorized devices can be simplified by customizing serial numbers and hardware IDs. Thus, Matrix42 Service Management allows the user to request a personalized Kingston Technology USB Drive in the Self-Service Portal. After an approval process, the USB device is automatically authorized for use in EgoSecure Data Protection.

“ Our employees are excited that new USB devices are provided easily and quickly after the short approval process. We are very happy with Kingston Technology's customization program and easy administration of Matrix42's combination of service management and endpoint security. ”

Head of Helpdesk, Public Sector

Section 2: Industry Use Case

Health Care



Situation:

External storage devices continue to be used frequently as a means of exchanging data with employees and other institutions.

For example, hospitals in Germany must provide the Cancer Registry with information about current cancer cases and their progression. For ease, this data is often transferred via mobile data storage devices.

Doctors also like to take documents, like research data, to their lectures on USB drives.

Challenge:

Patient data is highly sensitive and must not fall into the hands of unauthorized persons. Therefore, data protection needs to be increased and strengthened. If a data carrier is lost, this can become a major problem, not only because of GDPR but also for the well-being of patients. For this reason, it is important that access to USB data storage is controlled, monitored, and encrypted.

Solution:

EgoSecure Data Protection combines various protection measures such as access control, data auditing, filtering, and encryption in one solution. IT administrators are able to decide which employees are granted access to which devices. Exceptions can be made using criteria such as the serial number and hardware ID. These identifiers can be defined using Kingston Technology's customization program, so that only one value needs to be configured in the EgoSecure Data Protection management to allow only company-approved devices to be used. This minimizes the administration effort enormously and increases data security (GDPR, CCPA, HIPAA, etc), as access is encrypted and monitored.

“ We had already used Kingston encrypted USB drives. Now, with EgoSecure Data Protection, we can also ensure that the traceability of data transfers of patient data is realized in accordance with the EU-GDPR. ”

CISO, University Hospital



Section 3: Industry Use Case

Finance



Situation:

Banks are subject to various compliance requirements. One of these requirements is compliance with PCI-DSS (Payment Card Industry Data Security Standard). The PCI-DSS requirements include the need for data encryption, vulnerability analysis, and data filtering. The goal is to minimize or completely prevent threats and IT security risks.

Challenge:

There are many risks to IT security that exist at the endpoint. Every day, employees have to work with payment card information from consumers and businesses, and process sensitive data from financial institutions. They are therefore exposed to the threat that data from the cloud, email, USB, and web could be compromised by malware, or that data could accidentally fall into the hands of third parties if it is not adequately protected. Such an incident would be a risk with financial implications for a bank, in terms of GDPR, PCI-DSS, and the Sarbanes-Oxley Act. Furthermore, cyber criminals try to influence or manipulate banking systems in various ways and are becoming more

creative in the process. Recently, for example, a cybercrime that targeted ATMs involved interrupting the power supply and restarting the system with a bootable USB device in order to steal the money.

Solution:

IT systems must be secured by multi-layered protective measures. This can be achieved through application control, device control, anomaly detection, UEBA (User and Entity Behavior Analytics), monitoring, and full-disk encryption with pre-boot authentication. Matrix42 can implement this in an automated and integrated ecosystem, so that only permitted applications and encrypted USB devices are allowed. Furthermore, suspicious or malicious activity is detected, and further measures are automatically initiated. Regarding the use of USB drives, the combination of customized USB drives from Kingston Technology helps to ensure that devices are included in the whitelisting with a minimum of effort and that data is encrypted in a traceable manner. This increases compliance enormously and with no additional effort.



“ With EgoSecure Data Protection and the whitelisting functionality, we only allow Kingston encrypted USB drives to be approved. We whitelist Kingston encrypted USB drives with a personalized hardware ID – other devices are not allowed. This reduces the administration effort enormously – but increases security! ”

IT Manager, Financial Company

Section 4: Industry Use Case

Automotive



Situation:

In the automotive industry, USB devices are used in various areas. For example, research data is stored on external storage devices and exchanged between the different engineers at the company. To configure production machines, files are transported from the IT environment to OT environment. All this data is highly sensitive and must be protected against industrial espionage and data theft, otherwise the accumulated knowledge can fall into the wrong hands.

Challenge:

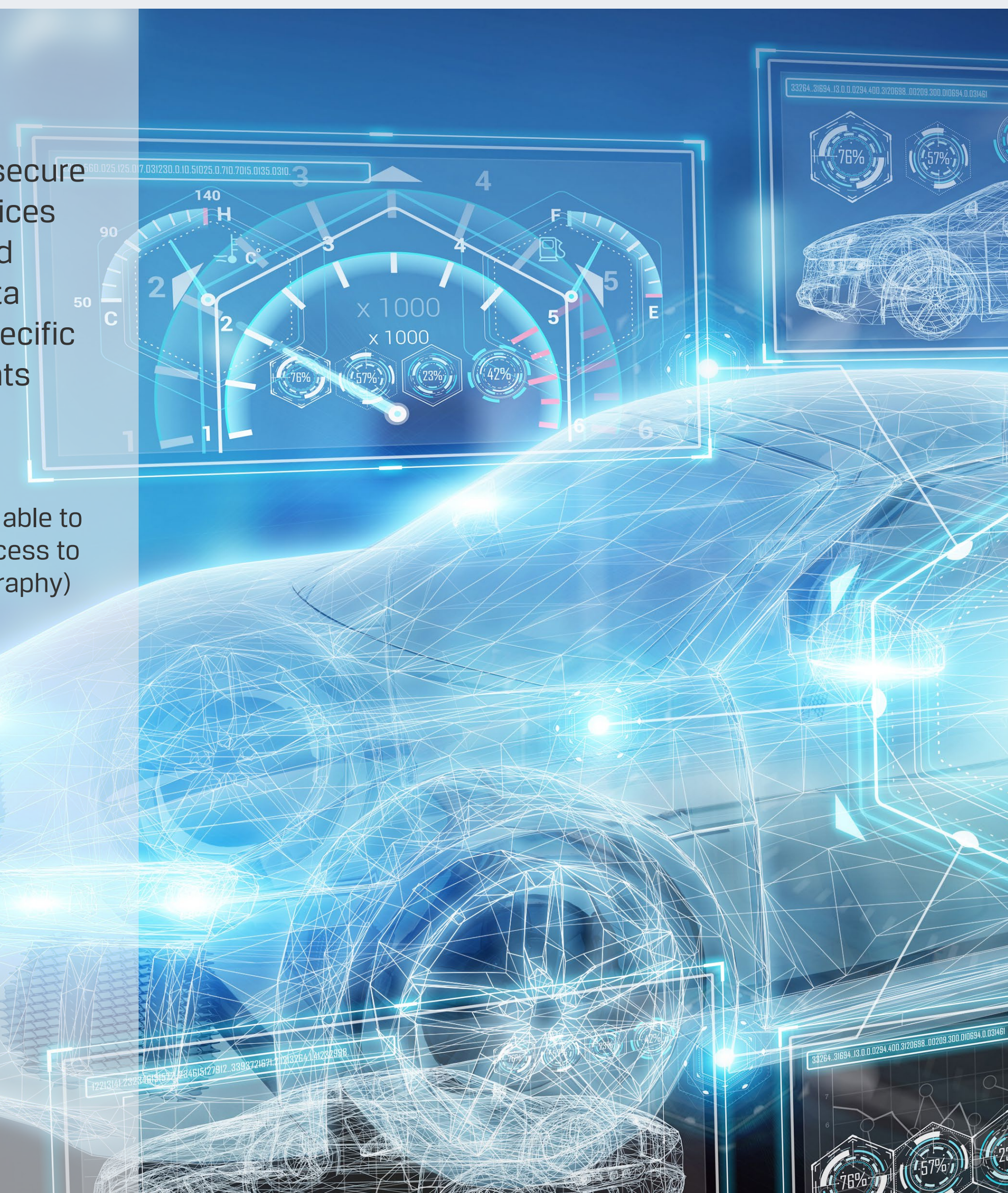
The automotive industry is subject to compliance requirements such as TISAX, prototype protection, ENX, ISO27001, "third-party connection," and GDPR. In TISAX, the Control 9.1, 9.5, and 10.1 articles regulate that data accesses must be controlled, monitored, filtered, and encrypted. These measures must also be observed in the other compliance requirements, such as GDPR and ISO27001, in all areas of automotive companies.

Solution:

Encrypted USB drives from Kingston Technology secure data with hardware-based encryption. These devices can be assigned a personalized serial number and hardware ID, which can be used in EgoSecure Data Protection to enable automatic whitelisting for specific types of data usage. Furthermore, data movements can be monitored and analyzed if there are any suspicious activities.

“ With Matrix42 and Kingston Technology, we have been able to implement TISAX requirements such as Control 9.5 (access to information and applications) and Control 10.1 (cryptography) without major changes in user behavior. ”

CTO, automotive supplier



Section 5: Industry Use Case Telecommunication



Situation:

Telecommunication providers have a lot of information about customers. This information is highly sensitive, particularly with respect to GDPR. Therefore, sufficient measures need to be taken to prevent data loss and data theft.

Challenge:

Employees of telecommunications companies work with customer data every day. Most of the data is stored within business applications. However, there is a risk that customer contracts or even database exports may be stored on endpoint and external devices connected to them. For data exchange, the users often use external storage. It is therefore very important that incorrect data storage practices are detected and corrected or protected.

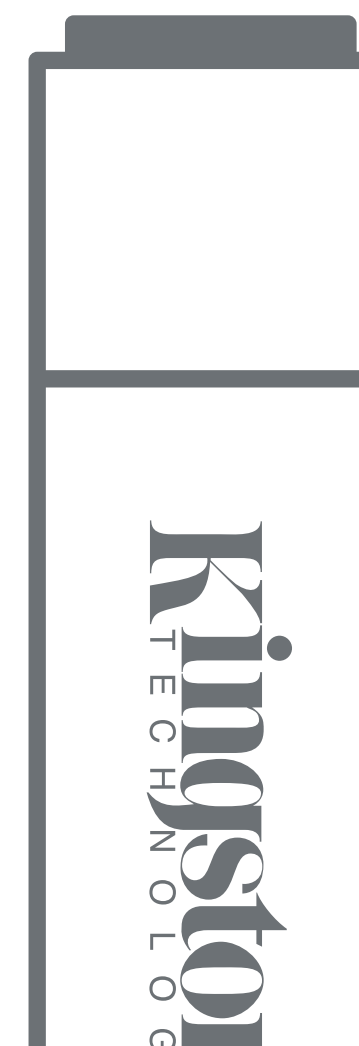
Solution:

To simplify the procurement process, encrypted USB drives from Kingston Technology with a personalized product ID can be quickly purchased via a predefined

whitelist in EgoSecure Data Protection and delivered via the Matrix42 Service catalog. Data storage and exports that may contain sensitive information can be automatically identified and remediated by a deep-content inspection based on "data in use" and "data at rest" scans. Data movements are logged centrally. This enables the employee to receive new hardware for data storage quickly after it has been requested and approved, and helps guarantee GDPR compliance.

“ Matrix42's self-service portal enables our users to request the storage media they need. Once the order has been approved and delivered, the device is authorized by EgoSecure's device control. The combination of Matrix42 and Kingston Technology increases productivity and security in our company. ”

CTO, Telecommunications Provider



Section 6: Industry Use Case

Manufacturing Industry



Situation:

The gold of the future is digital data. This valuable data in manufacturing industries includes production plans, data about customers and suppliers, and company know-how. If this data is lost, it may not just lead to very severe penalties under the GDPR, but also to exponential & reputational problems. Unfortunately, lost USBs are found in taxis, laundries, at airports, train stations, or in parking lots every single day.

Challenge:

Storage devices often contain highly sensitive data and, unfortunately, this data is often not encrypted. There is also the risk that service technicians may use external data carriers to install updates for production machines. These external devices carry the risk of introducing malware into the network.

Solution:

Encrypted USB drives from Kingston Technology secure data with hardware-based encryption. These devices can be delivered with a personalized serial number and hardware ID, which can be used in EgoSecure Data Protection to enable automatic whitelisting for specific types of data usage. Furthermore, data movements can be monitored and analyzed if there are any suspicious activities.

“ The encryption of our production data is very important for us to protect ourselves against data theft. This highly sensitive data is only allowed on approved Kingston encrypted USB drives via file filtering by EgoSecure Data Protection. On all other USB devices, production data is blocked and write access to external data storage is secured by EgoSecure's on-the-fly encryption and logging. ”

IT Security Officer, Manufacturing Industry





Section 7: Kingston Technology and Matrix42 solutions



The use of encryption, fast storage, and memory combined with best practices, standards, and policies is a big step. Lost laptops and USB drives leave individuals and companies alike vulnerable to exposing personal and private information. Kingston Technology offers threat-prevention solutions to help mitigate risks while complementing an existing or developing security plan.

Kingston Technology Encrypted USB Drives

Kingston Technology's hardware-based encrypted USB drives feature data-protection solutions for mobile data in and outside of an organization's firewall. Designed to protect data that requires airtight security, these drives help you meet specific industry standards, directives, and regulations. Products are TAA compliant, FIPS certified, and available in capacities up to 128GB, making them ideal for both corporate users and government agencies alike.



Secure Customization Program

You can customize Kingston Technology's encrypted USB drives in a variety of ways to meet your organization's needs. Add selected features to create unique, indispensable drives. Kingston Technology offers easy and convenient ordering for your customized encrypted USB drive through your preferred reseller. Kingston Technology's line of encrypted USB products includes the DTVP30, DT4000G2, and IKD300S series. This program offers the options most frequently requested by customers, including serial numbering, dual password, and custom logos. With a minimum order of 50 pieces and reorder quantity of 25 pieces, the program delivers precisely what your organization needs.

Matrix42 EgoSecure Data Protection

Matrix42 EgoSecure Data Protection provides companies with 360° security management for the prevention and protection of devices, systems, and data. The solution automates the entire process from prevention and detection to countermeasures in the event of damage, without loss of productivity.

Data protection and cyber security can feel like a daunting responsibility. The requirements for digital work have changed significantly, with employees having the ability to decide for themselves when, where, and with which devices they work. The right combination of hardware-based encrypted USB drives and endpoint software management can help organizations to gain control of their organization's devices. Therefore, mitigating risk of data breaches and supporting their ongoing GDPR compliance strategy.





About Kingston

With over 30 years of experience, Kingston Technology has the knowledge to identify and resolve your endpoint security challenges without compromising your organization.

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