ENTRUST HSMs ENHANCE THE SECURITY OF MEDICAL DEVICES





Healthcare sector is amongst the strong market for security and risk management vendors to help protect patient data, protect critical healthcare devices, and improve compliance with numerous regulations."

SPARK Matrix: IoT IAM, 2020



Entrust and its technology partners deliver complete solutions that secure medical device manufacturing, ensure trust in their deployed ecosystems, and protect data privacy and integrity







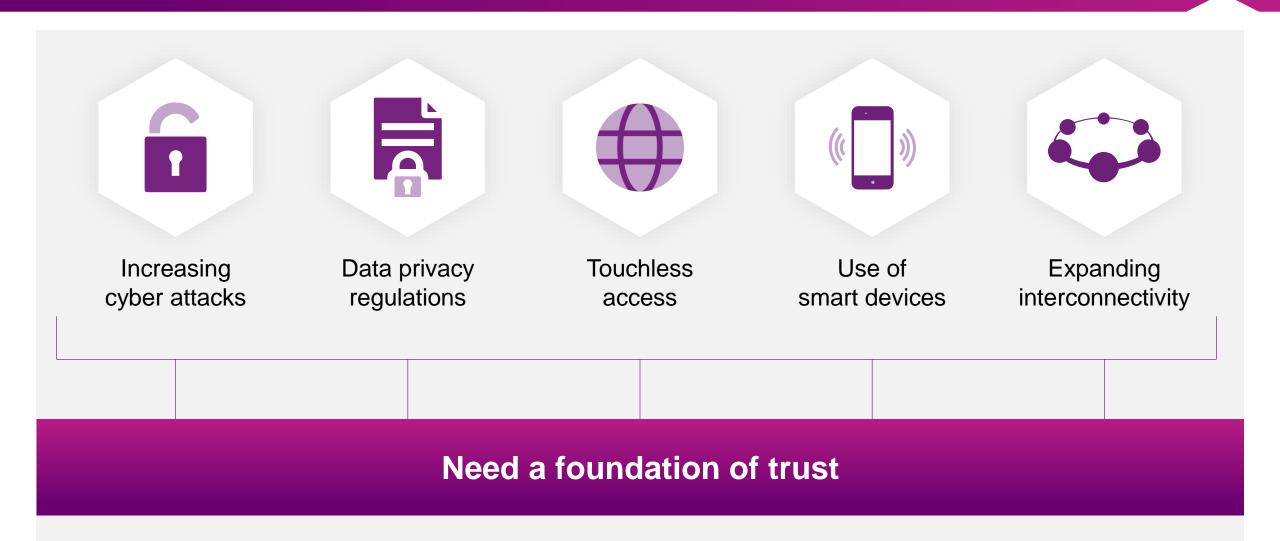








Challenges as medicine goes digital





Data privacy regulations











Healthcare workers require safe secure access to systems

Passwords aren't hygienic

Healthcare going touchless and passwordless





Many hospitals use physical smart cards to access healthcare computers



With virus known to spread by surface transmission, healthcare workers need a safe alternative



Going touchless – smart card security without the physical smart card



Smart credentials are provisioned on workers' phones. Phones stay in pockets and PPE-clad workers are prompted or a PIN on computer to login



Connected devices need security



Smart phones



Wearables



Bedside monitors



Insulin pumps



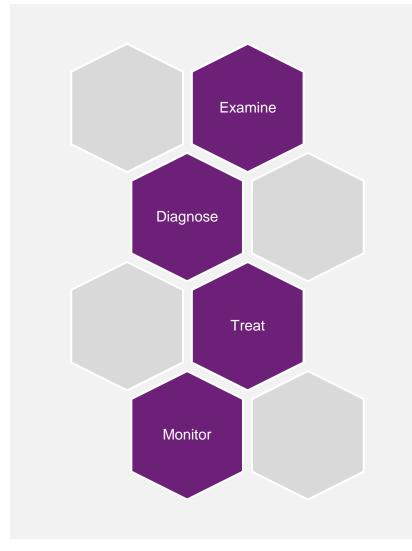
Pacemakers



Anesthesia machines



Surgical robots



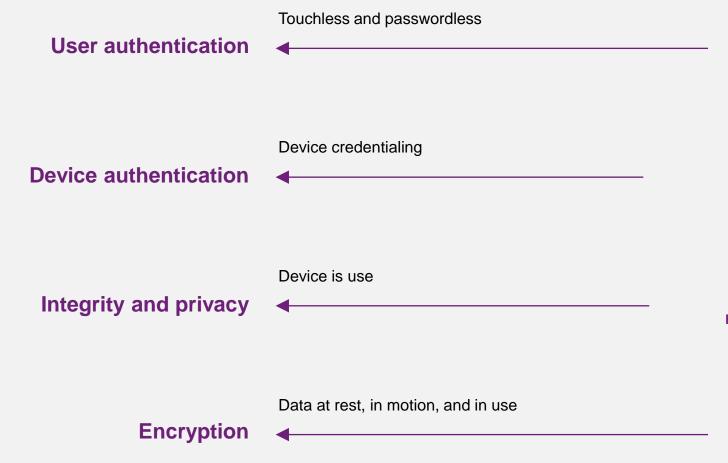


Securing medical system access and devices

Touchless and passwordless User authentication Device credentialing at manufacturing **Device authentication** Device and software authentication upon deployment **Integrity and privacy** Data protection during use **Encryption**



Building a root of trust





System access



Device manufacturing



Remote monitoring/ treatment



Remote diagnosis



Root







Entrust HSMs: A foundation of trust









Highest level of protection for encryption or signing keys

Implement and enforce customer-defined policy

"Harden" applications that use cryptography

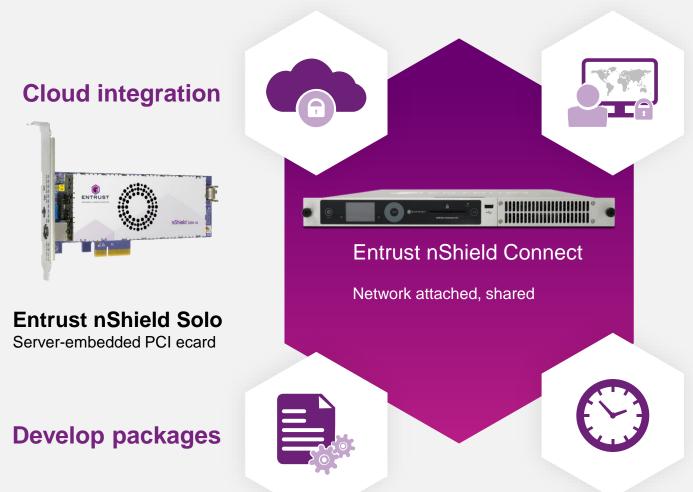
Source of high quality random numbers for keys



HSMs are certified, trusted platforms for performing cryptographic operations and protecting keys



Entrust HSM family of products



Remote monitoring



Entrust nShield Edge Low cost, portable

Time stamping package



Use cases: Identity for healthcare

Identity Proofing – fully digital identity verification

Best-in-class multi-factor authentication (MFA)

Credential-based passwordless/touchless access

Secure portals – employee, patient

Single sign-on (SSO)

File encryption and document signing

Adaptive risk-based authentication

Self-service password resets



Healthcare professionals

Doctors, nurses, clinicians

Secure access to patient records and care systems from anywhere. Passwordless and touchless options.

Secure delivery of test requisitions for patients including third party lab partners

Secure receipt of patient test results

Secure patient communications

Mobile signing of prescriptions and documents

Secure access to email and employee portal











Healthcare support staff

Admin, Operations

Secure access to all apps, networks, & VPN from anywhere

Digital patient onboarding

Secure delivery of patient support services: records, billing, insurance forms, etc.

Secure delivery of support services to healthcare employees: HR, employee portals, etc.











Patients

New & existing

Self-service digital identity verification

Secure digital onboarding – option for virtual patient ID

Secure access to patient portals – healthcare, insurance

Self-service password resets













Use cases: Secure connectivity and data sharing

Patient-Centric Care



Customer need:

- Provide secure connectivity for all external patients
- Drive patient-centered culture through technology
- Promote growth and flexibility for future expansion

Solution:

 Encryption as a service subscription platform integrated with Entrust nShield to protect and manage cryptographic keys

Benefits:

- Enhanced online communications with patients
- Ensure PII/PHI is always secure for compliance
- Brings staff, clinicians, and patients closer together

Clinical Trials



Customer need:

- Secure paperless cloud-based data sharing
- Automate document handling and exchange
- Trusted signature capture on mobile devices

Solution:

 Entrust nShield root of trust secures customer's cloud-based clinical trial digital signing solution

Benefits:

- Accelerate delivery of new drugs to market
- Reduce cost/provide competitive advantage
- Facilitate compliance to regulatory standards



Entrust Security

20+

Years of delivering trusted threat protection and enabling compliance



Deep expertise and track record in applied cryptography



HSM market leader with a long history of industry certifications and validation



- Cloud IoT Blockchain Payments
- Solutions delivering trust for business critical applications and information

1000+

- Organizations rely on Entrust to secure and support their applications and information
- 57 of the Global Fortune 100
- 10 of the top 20 FTSE 100



Trusted by clients and partners worldwide

\$800M+

Revenue

2,500+

Employees

50

Years of innovation

1000+

Technology and channel partners

Market leader in the

4.7_B

annual financial card and government ID issuance market

690_K

websites secured globally

45K+

instant issuance deployments worldwide

24M+

SWIFT messages encrypted & secured daily

10M

secure identity
& payment credentials
issued daily

57

Of Global Fortune 100 companies use our HSM 25

countries use our PKI, as well as the UN, Interpol & NATO

95M+

protected workforce and consumer identities



