



medcrypt

TODAY, MEDICAL
DEVICE CUSTOMERS
DEMAND PROACTIVE
SECURITY.

IT USED TO BE ACCEPTABLE FOR
DEVICE MAKERS TO REACT WHEN
CYBERSECURITY ISSUES WERE
REPORTED.



HOSPITALS DON'T WANT TO—AND CAN'T—SECURE SOMETHING AS COMPLICATED AS A LINEAR ACCELERATOR.



PATIENTS SIMPLY
CAN'T SECURE THEIR
MEDICAL DEVICES.



NOW, BUYERS WANT
SECURITY BUILT IN.



A dimly lit hospital room with various medical equipment, including a patient bed, monitors, and IV stands. The scene is overlaid with a dark, semi-transparent filter. The text is centered in the middle of the image.

**BUILD SECURE DEVICES,
QUICKLY,
EFFICIENTLY**

THE FDA EXPECTS PROACTIVE SECURITY

LACK OF SECURITY IS DELAYING MARKET LAUNCH

THE FDA'S MUST-HAVE PRODUCT FEATURES



Cryptography



Behavior Monitoring

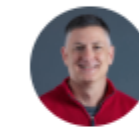


Vulnerability Tracking

FDA official: Draft cybersecurity guidance has 'teeth'

Not following the guidance in premarket submissions means potential delays for device makers, said Suzanne Schwartz, director of CDRH's Office of Strategic Partnerships and Technology Innovation.

Published April 11, 2022



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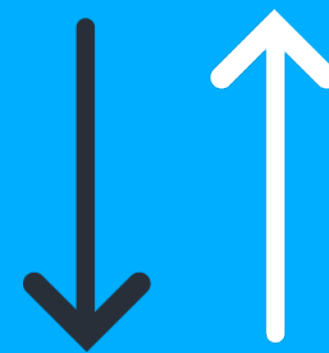


Image courtesy of FDA

WHY CAN'T EVERY MEDICAL DEVICE VENDOR IMPLEMENT PROACTIVE SECURITY TODAY?



Security features can be
obsolete, before they even ship.



Security features compete for
priority with clinical features.



Security is hard. Even CIA, Apple,
and Google have made mistakes.

AND, EXISTING TOOLS WEREN'T BUILT FOR THIS.



Monitoring tools for hospitals alert the hospital, not you, creating alarm fatigue.



Anti-virus software wasn't built with safeguards for keeping people alive



Traditional IoT security software wasn't designed for clinical use

MEDCRYPT MAKES PROACTIVE SECURITY EASY.





Guardian

Cryptography

- Easy to use API
- Proven Crypto
- Unique device key pairs
- Customizable certificate management
- Wide platform support
- Works on new, existing, and embedded devices

```
/* finding channel in system */
medcrypt::Coordinates coordinates = {"MyServiceName", "BaseSession", "MyChannelName"};
medcrypt::ChannelGuard* my_channel;
status = my_guardian->FindChannelGuard(coordinates, my_channel);

/* sending data */
std::string tx_buffer = "my data goes here";
my_channel->DataForChannel(tx_buffer);
my_guardian.Run();

/* receiveing data */
std::string rx_buffer;
my_guardian.Run();
my_channel->DataFromChannel(&rx_buffer);
```


DESIGN MEDICAL DEVICES THAT ARE AS
SECURE AS THE PHONE IN YOUR
POCKET.

medcrypt

CHALLENGE

The FDA has recently implemented stricter requirements for Medical Device Manufacturers to secure their devices

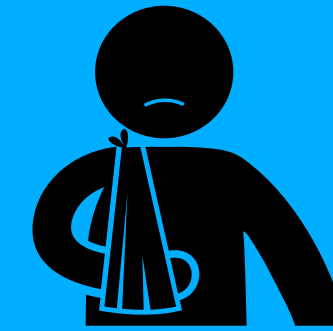


RISK

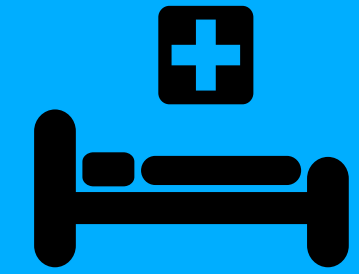
Insufficient cybersecurity measure can potentially impact:



Revenue



Patient Safety



Delivery of Care



Regulatory Compliance



Reputation



Legal Exposure



**MEDICAL DEVICE MANUFACTURERS
ARE BEING REJECTED BY THE FDA AND
HOSPITALS FOR CYBERSECURITY FAILURES**