

Healthcare Cybersecurity

Healthcare industry cybersecurity breaches may cost human life

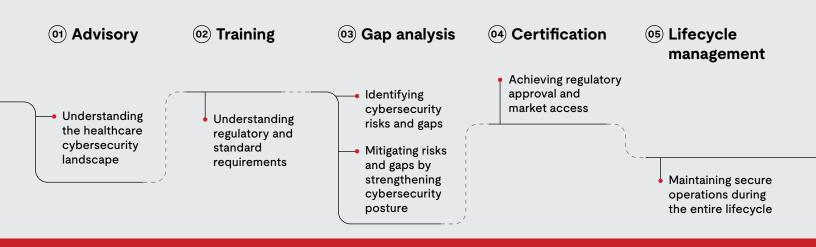
The integration of advanced information technologies in medical devices is transforming the healthcare industry, driving dramatic improvements in the efficiency and effectiveness of healthcare and related services. But this integration has fostered the emergence of a new set of challenges for patients, healthcare providers and device developers and manufacturers. Today, the healthcare industry is a significant target for hackers and cybercriminals, potentially compromising private and confidential healthcare data and placing the safety and health of patients at risk.

Healthcare cybersecurity trends and challenges

Manufacturers Healthcare providers High risk Market competition to human life Brand reputation Data and privacy Hostile attacks and Medical liability financial loss and lawsuits Healthcare providers brand Compliance protection against breaches - ◆ US FDA requirements IMDRF -Harmonization ◆ China NMPA Australian Therapeutic • Goods Administration - - European Medicines Agency

Collaborate with UL Solutions

Your cybersecurity journey along the medical device development lifecycle











Healthcare cybersecurity solutions

- Private and confidential security workshops to share best practices and learnings unique to your needs.
- Gap analysis services to detect nonconformities and errors early on in the design phase.
- Custom testing and assessment services throughout the development life-cycle.
- Complete evaluation and certification services to the U.S. Food and Drug Administration (FDA) recognized UL 2900 Series of Standards and other industryleading standards.



I need comprehensive cybersecurity services.

UL Cybersecurity Assurance Program (UL CAP) — A full suite of advisory, testing and certification services is designed to help organizations manage their cybersecurity risks and validate their cybersecurity claims.



Advisory

- Customized program
- Education support
- Cybersecurity best practices and standards
- Assess cybersecurity objectives and processes
- Qualify risk
- Product development



Testing

- · Penetration testing
 - Structured security assessments
- Exposing software vulnerabilities
- Embedded systems analysis and firmware evaluation

Certification

- · Highest recognition of due diligence
- Product or system

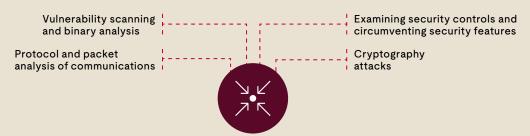
UL CAP Cybersecurity Assurance Program
Based on the UL 2900 Series of Standards | UL 2900-2-1



I want to understand and mitigate the software risks.

Medical device penetration testing services — Extends from medical device software security testing through authoring the FDA recognized UL 2900 Series of Standards.





Medical Device Penetration Testing



I need to meet the regulatory requirements. **Medical device cybersecurity certification** — Verify compliance to requirements by validating that product and systems offer a reasonable level of protection against risk.





Medical device cybersecurity certification

Why UL Solutions for cybersecurity?



Independent, trusted third party



Hardware- and software-based security evaluations



Cybersecurity expertise



Cybersecurity and safety



Full life cycle solutions



Assessment of security development practices



Industry knowledge



Global teams and /2/ local support

Cybersecurity foundation

- Expertise in global standards and frameworks
- · Extensive knowledge of best practices
- · Growing list of Internet of Things (IoT) security solutions

Learn more and speak to one of our experts today at <u>UL.com/</u> healthcare-cybersecurity.



UL.com/Solutions

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