SLOVENSKI STANDARD
SIST EN ISO/IEEE 11073-40101:2022

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Zdravstvena informatika - Interoperabilnost naprav - 40101. del: Temeljno - Kibernetska varnost - Procesi ocenjevanja ranljivosti (ISO/IEEE 11073-40101:2022)

Health informatics - Device interoperability - Part 40101: Foundational - Cybersecurity - Processes for vulnerability assessment (ISO/IEEE 11073-40101:2022)

Informatique de santé - Interopérabilité des dispositifs - Partie 40101: Fondamentaux - Cybersécurité - Processus pour l'évaluation de la vulnérabilité (ISO/IEEE 11073-40101:2022)

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35.240.80	Uporabniške rešitve IT v zdravstveni tehniki	IT applications in health care technology

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EUROPEAN STANDARD

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EUROPÄISCHE NORM

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English Version

Health informatics - Device interoperability - Part 40101: Foundational - Cybersecurity - Processes for vulnerability assessment (ISO/IEEE 11073-40101:2022)

Informatique de santé - Interopérabilité des dispositifs - Partie 40101: Fondamentaux - Cybersécurité - Processus pour l'évaluation de la vulnérabilité (ISO/IEEE 11073-40101:2022)

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European foreword

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INTERNATIONAL STANDARD **ISO/IEEE 11073-40101**

First edition
2022-03

Health informatics — Device interoperability —

Part 40101: Foundational — Cybersecurity — Processes for vulnerability assessment

Informatique de santé — Interopérabilité des dispositifs — Partie 40101: Fondamentaux — Cybersécurité — Processus pour l'évaluation de la vulnérabilité

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IEEE Std 11073-40101™-2020

Health informatics—Device interoperability

Part 40101: Foundational—Cybersecurity—Processes for vulnerability assessment

Developed by the

IEEE 11073 Standards Committee
of the
IEEE Engineering in Medicine and Biology Society

Approved 24 September 2020

IEEE SA Standards Board

Abstract: For Personal Health Devices (PHDs) and Point-of-Care Devices (PoCDs), an iterative, systematic, scalable, and auditable approach to identification of cybersecurity vulnerabilities and estimation of risk is defined by this standard. The standard presents one approach to iterative vulnerability assessment that uses the Spoofing, Tampering, Repudiation, Information Disclosure, Denial of Service, and Elevation of Privilege (STRIDE) classification scheme and the embedded Common Vulnerability Scoring System (eCVSS). The assessment includes system context, system decomposition, pre-mitigation scoring, mitigation, and post-mitigation scoring and iterates until the remaining vulnerabilities are reduced to an acceptable level of risk.

Keywords: cybersecurity, embedded Common Vulnerability Scoring System, IEEE 11073-40101™, medical device communication, Personal Health Devices, Point-of-Care Devices, STRIDE, vulnerability assessment

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