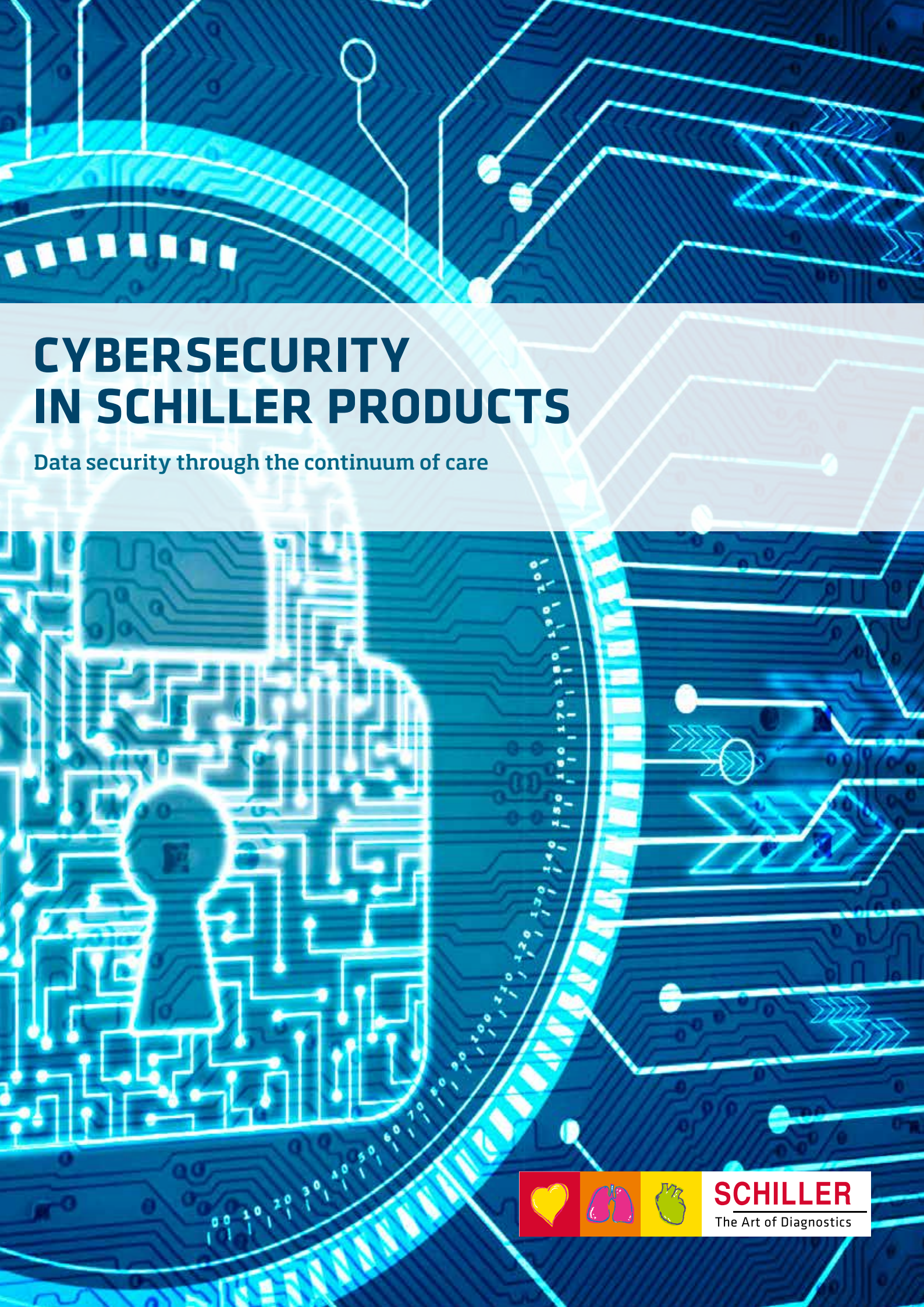
CYBERSECURITY IN SCHILLER PRODUCTS

Data security through the continuum of care



SCHILLER
The Art of Diagnostics

CYBERSECURITY IN SCHILLER PRODUCTS

SCHILLER devices are cybersecure thanks to these features:

- Role-based access control
- Patient identification features: worklist/orders, barcode, PDQ
- Directory Services integration via LDAP with audit logging
- Encrypted data transmission
- WPA2 enterprise WiFi protocol

SCHILLER ECG devices are professionally penetration-tested to ensure they are safe from malicious attacks.

The latest generation of SCHILLER resting ECG devices is equipped with high-end security features. Devices are professionally penetration tested to ensure protection against cyber attacks. Security is ensured by using a customized, security-hardened Linux kernel. This ensures that patient data is secure from unauthorised access, while supporting compliance with hospital IT data policies and the GDPR law.

PATIENT DATA PROTECTED FROM UNAUTHORIZED USERS

Access control level can be configured from "none" to "advanced".

- Users log in with a personal user name and password.
- Roles can be assigned to control access to patient data and configuration settings.
- User accounts are either managed remotely on the SCHILLER Server, linked to Directory Services with LDAP via SCHILLER Server, or on each ECG device in the settings.
- Users are automatically logged off after a specified period of inactivity.
- If user management is not active, the device can still be password protected.

EASY TROUBLESHOOTING

SCHILLER Server, clinical software applications and medical devices hold comprehensive audit and security logs. This ensures that user and data activity on the device is logged.

GUARANTEE DATA INTEGRITY

Identifying the patient correctly and easily is vital. DICOM worklist and HL7 orders can be used for patient identification. The PDQ feature allows fast patient query and simplifies the daily hospital routine. 1D and 2D barcode scanners are supported.

SCHILLER devices support mandatory fields during data entry, if required.

These tools help drastically reduce patient demographic errors. SCHILLER Server also provides integrity and correlation checking for an added layer of protection.

ENSURE DATA SECURITY

Data transmitted to and from SCHILLER devices is encrypted using SSL/TLS.

SCHILLER uses hospital-standard and secure WiFi protocols such as WPA2 enterprise with certificate-based authentication.

Recorded data can be automatically deleted on the device after successful transmission to SEMA and/or HIS.

ROLE-BASED ACCESS CONTROL

With advanced user access control, SCHILLER ensures that only authorised personnel can access a device.

Users log in with a personal user name and password. Roles are assigned to users for access to the memory and settings.

User accounts are either managed remotely on the SCHILLER Server, linked to Directory Services with LDAP via SCHILLER Server, or on each ECG device in the settings.

Users are automatically logged off after a specified period of inactivity.

LDAP INTEGRATION

SCHILLER medical devices can be integrated into the hospital's LDAP (e.g. Active Directory) for single sign-on user authentication.

AUDIT LOGGING

SCHILLER Server, clinical software applications and medical devices hold comprehensive audit and security logs.

PATIENT IDENTIFICATION

Features that drastically reduce patient demographic errors and expedite workflows:

DICOM worklist and HL7 orders, 1D and 2D barcode scanners.

Support of mandatory fields during manual data entry.

Fast patient query through PDQ simplifies daily hospital routine.

SECURE DATA TRANSMISSION

Data transmitted to and from SCHILLER devices is encrypted using SSL/TLS.

Secure WiFi-protocols are incorporated, such as WPA2 enterprise with certificate-based authentication.

Recorded data can be automatically deleted on the device after successful transmission to SEMA and/or HIS.

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Device availability in your market is subject to regulatory approval.

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