

CONNECTIVITY IN SCHILLER PRODUCTS

SCHILLER connectivity solutions: From small practices to complex hospital environments



SCHILLER
The Art of Diagnostics

CONNECTIVITY IN SCHILLER PRODUCTS

Seamlessly integrating clinical data into your electronic patient record:

- ✦ Data security
- ✦ Accuracy
- ✦ Reliability
- ✦ Fast and automatic data transfer



Bi-directional data transfer and comprehensive data security with the SCHILLER connectivity solutions

BENEFITS OF SCHILLER CONNECTIVITY SOLUTIONS

- ✦ **DATA SECURITY:** Be confident in the security of your patient data. With role-based user access to devices and applications, access to patient data is strictly controlled, and all data transmissions are encrypted using TLS 1.3
- ✦ **ACCURACY:** Advanced features such as PDQ (Patient Demographic Query) directly from the SCHILLER devices, DICOM Worklist, and HL7 or GDT Orders ensure the accuracy of patient demographics presented to the clinicians. Essential in eliminating human error in the recording of patient data.
- ✦ **RELIABILITY:** All SCHILLER applications and devices are constantly updated to ensure we are using the latest encryption and connectivity protocols. The high reliability and continuous comprehensive in-country support from SCHILLER ensure minimal downtime.

- ✦ **FAST AND AUTOMATIC DATA TRANSFER:** Fast end-to-end sync of data between SCHILLER devices and third-party systems. Data are exported automatically as soon as captured, without user intervention.

THE THREE SOLUTIONS IN COMPARISON

- ✦ **SCHILLER Server:** Our hospital-level solution providing customisable secure interfacing to third-party electronic patient records, clinical database of all SCHILLER data accessible via SEMA Workstation for clinical analysis and reporting, role-based authentication, device management and more.
- ✦ **SCHILLER Gateway:** Our hospital-level solution providing secure pass-through interfacing to third-party electronic patient record systems. Supports industry standards such as HL7 ORU, bi-directional DICOM, FDA XML (aECG).

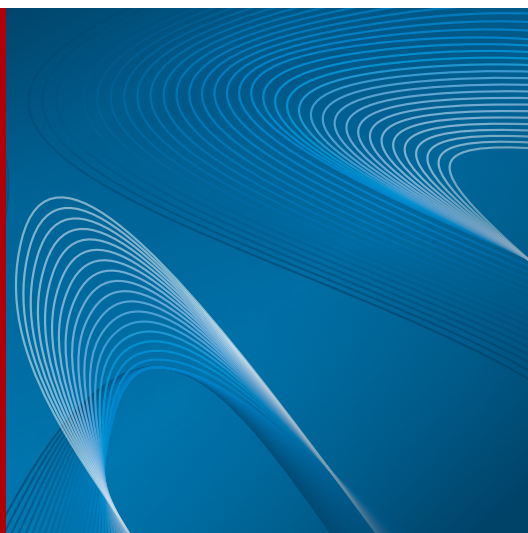
- ✦ **SCHILLER Link:** Our simple desktop application for Windows or Mac providing fast and seamless PDF storage and auto-printing from SCHILLER Resting ECG devices. Also supports bi-directional workflow via GDT (orders and results).



SCHILLER SERVER AND SCHILLER GATEWAY

Hospital-level communication solutions:

- ❖ SCHILLER Server, multi-featured data interfacing and security, with SEMA data management support
- ❖ SCHILLER Gateway, the pass-through interface



Connect SEMA via SCHILLER Server and use the SCHILLER data management system

SCHILLER Server and SCHILLER Gateway are hospital-level communication solutions which allow SCHILLER devices and clinical applications to exchange information with Hospital Information Systems (HIS) via Health Level 7 (HL7) messages or PACS system communication via DICOM standard, as well as supporting enhanced device functionality.

SCHILLER Gateway is a pass-through interface solution. SCHILLER Server provides the same interfacing functionality, whilst also adding further enhanced functionality including database support for SCHILLER's clinical analysis and reporting system SEMA.

COMMON FEATURES

- ❖ Patient Demographic Query (PDQ) speeds up access to information, reduces manual data entry and minimises errors (DICOM C-Find or HL7 A19). Enter or scan a patient ID to a SCHILLER device, and the PDQ interface will seamlessly and quickly provide the patient demographics, ensuring accuracy and convenience, when a worklist or orders are not appropriate.

- ❖ Supports the import of a worklist to SCHILLER devices and Clinical Applications directly from a HIS or PACS system by using DICOM Modality Worklist.
- ❖ Export of the clinical results as a final report and/or raw diagnostic data and waveforms directly to any third-party Electronic Patient Record via HL7, DICOM, PDF, XML or GDT.

ADDITIONAL BENEFITS OF THE SCHILLER SERVER

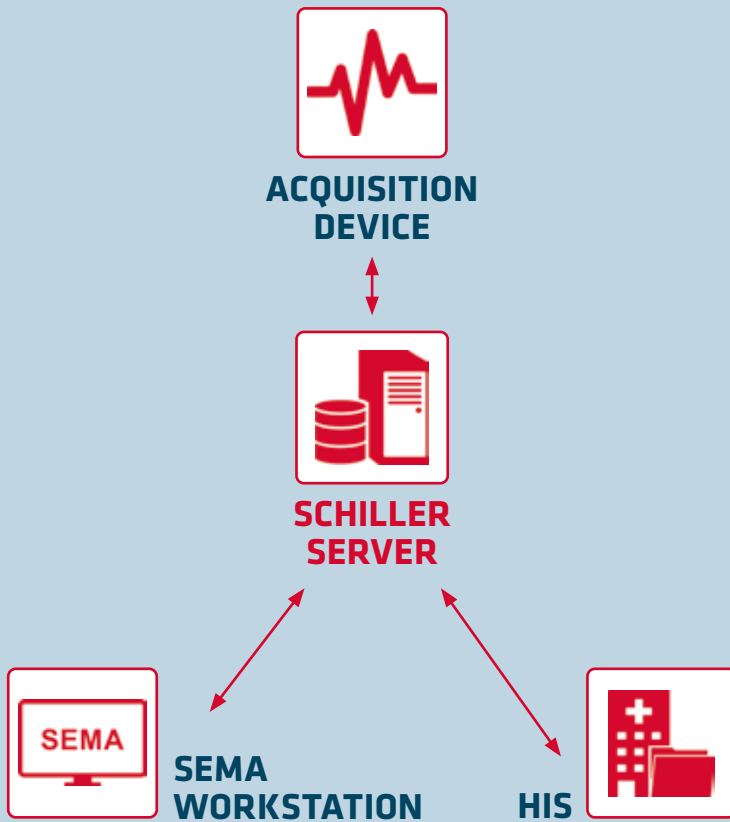
- ❖ Profit from all possibilities of SEMA Workstation when using SCHILLER Server: The SCHILLER clinical data management system SEMA is connected via SCHILLER Server.
- ❖ Communication with all SCHILLER devices (emergency, pulmonary, monitoring, exercise ECG, etc.)
- ❖ Support for role-based user authentication on supported SCHILLER devices and software applications, optionally integrated into existing Hospital LDAP (Lightweight Directory Access Protocol)

user management systems (like Microsoft Active Directory).

- ❖ By utilising NextGen MIRTH interface engine, SCHILLER Server can provide highly customised solutions for even the most complex of customer interfacing requirements.
- ❖ Device Management – logging of device connection and status, self-test reports, and maintenance scheduling.
- ❖ HL7 ADT Patient demographic data import directly into the SEMA database.
- ❖ Additionally supports interfacing via HL7 ORM, GDT

CONNECTED VIA SCHILLER SERVER

- ❖ Bi-directional communication enables import and export of data and measurements to all systems involved.
- ❖ SCHILLER Server is a solution with a database and stored data. SCHILLER Server is installed on the hospital IT infrastructure.
- ❖ SCHILLER Server features the connection of the data management system SEMA.



SCHILLER Server connects the acquisition devices with HIS and enables the use of SEMA Workstation, by allowing data storage on the SCHILLER Server. Communication works bi-directional.

CONNECTED VIA SCHILLER GATEWAY

- ❖ Bi-directional communication enables import and export of data and measurements to all systems involved.
- ❖ SCHILLER Gateway is an application installed on the hospital server but without its own database.

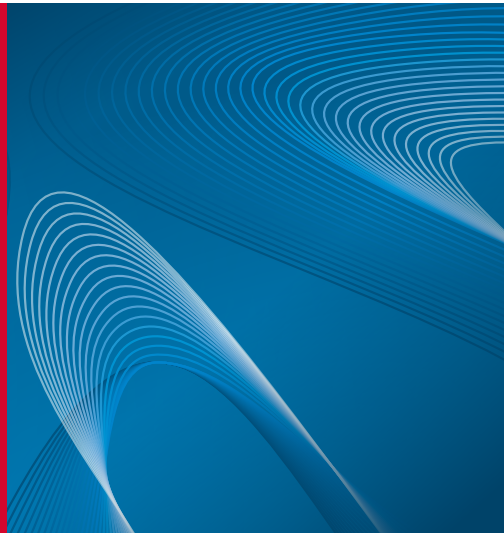


SCHILLER Gateway connects the acquisition devices with HIS and enables bi-directional communication.

SCHILLER LINK

SCHILLER Link, the desktop communication application:

- Easy to install
- Instant access to diagnostic PDF ECGs
- Auto-detected wi-fi connection to SCHILLER ECG device
- Windows and Mac



SCHILLER Link connects your SCHILLER ECG device wirelessly to your local computer.

SMALL AND EASY TO INSTALL APPLICATION

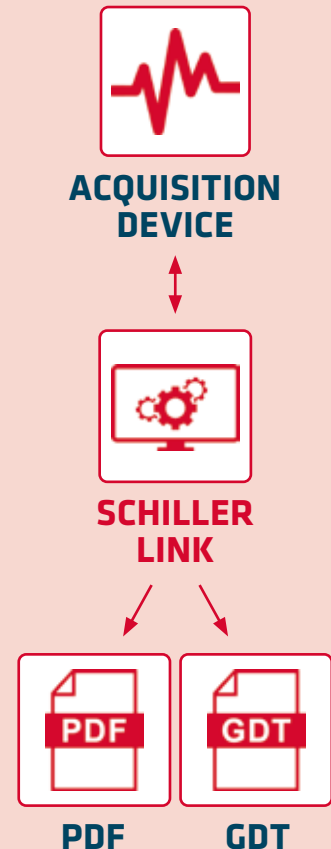
Fast and easy PDF export and bi-directional communication with EMR systems. SCHILLER Link is the perfect tool for small clinics and doctor's practices where a paperless ECG workflow is preferred. SCHILLER Link can be installed with just a few clicks on a laptop or PC.

FEATURES

- Auto-detects ECG machines – minimal configuration required on ECG device
- Automatically print the ECGs in high quality to any connected laser printer
- Export resting ECG, exercise ECG reports, rhythm ECG, SAECG, and spirometry as high resolution diagnostic PDF reports to a folder
- Customisable filename based on patient ID, name etc.
- GDT Support (import orders and export)
- Available for Windows and Mac OS
- Suitable for a doctor or a very small clinic

CONNECTED VIA SCHILLER LINK

- Bi-directional communication between acquisition device and PC
- SCHILLER Link is an application installed on the local PC.



COMPARISON AT A GLANCE

	SCHILLER Server	SCHILLER Gateway	SCHILLER Link
Communications			
PDF	✓	✓	✓
DICOM encapsulated PDF	✓	✓	
DICOM waveform PDF	✓	✓	
DICOM structured stress	✓	✓	
aECG XML (FDA XML)	✓	✓	
HL7 export	✓	✓	
PDQ (HL7 A19/DICOM MLW QRY)	✓	✓	
DICOM MLW	✓	✓	
HL7 orders	✓		
GDT	✓		✓
Compatibility			
SEMA Workstation	✓		
Embedded resting ECG, new generation	✓	✓	✓
Embedded resting ECG, legacy devices	✓	✓	
CARDIOVIT CS-200 family	✓		
CARDIOVIT CS-104	✓		
GANSHORN products	✓		
Rescue devices	✓		
medilog Holter	✓		
Advanced features			
MIRTH	✓		
Actice directory integration	✓		
Device management	✓		
Multi-tenancy	✓		
SEMA liberty mobile	✓		
Environment			
Hospital	✓	✓	
Small office network	✓	✓	✓



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