Technical specification sheet

How ClinivaSys runs inside the hospital

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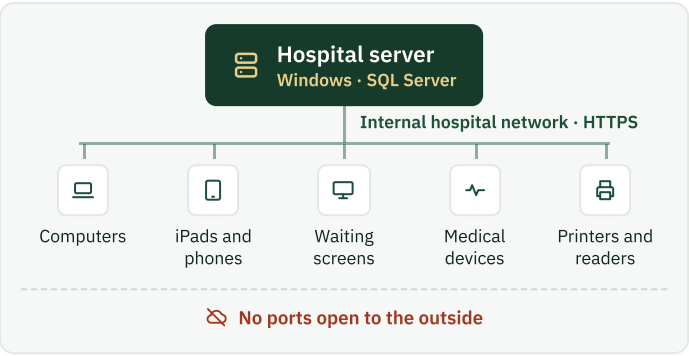
One Windows server inside the hospital runs the software and a local SQL Server database, and every device reaches it over the internal network. One installation and one licence activation; backups and updates from the admin screen, with no dependence on the internet.



- Unlimited devices: one server serves hundreds of devices at the same time.
- The database, imaging studies, reports and attachments all stay inside the facility.
- Clinical AI runs on the facility server with a built-in drug library, with no external connection.
- One central installation on the server, with a full technical guide in the installation package.

Recommended server specifications

Facility size	Devices	CPU	Memory	Storage
Clinic or small center	Dozens of devices	4 cores	8 GB	256 GB SSD
Mid-size hospital	100+ devices	8 cores	32 GB	1 TB NVMe
Large hospital	Hundreds of devices	16 cores	64 GB	2 TB NVMe (RAID 1)

Runs on a physical or a virtual server, such as Hyper-V or VMware.

Network

- Cat6 cabling and gigabit switches.
- Enterprise wireless access points for iPads on the wards.
- Encrypted HTTPS connection between devices and the server.
- The internal network port opens automatically during installation; no external ports.

Devices and peripherals

- Browser via an internal link: Chrome, Edge, Firefox, and Safari on iPad.
- A desktop program on the server, and an app installed from the browser.
- 80 mm thermal printers for wristbands and queue tickets, A4 for invoices.
- Barcode and QR readers; a phone as camera for IDs and samples.

Medical device integration

Hospital and Complete packages

- Laboratory analyzers, with results imported directly.
- Patient monitors and temperature sensors.
- Fingerprint terminals, with punches reaching HR in real time.
- We confirm compatibility with your devices before installation; the protocol depends on each device.

Security

- Data-level permissions per role and per employee.
- Passwords stored as one-way hashes.
- Account and workstation lock; password recovery without the internet.
- Audit log of more than twenty event types.
- Two-hour emergency access with a recorded reason.

Backup

- Manual backups and scheduled automatic backups.
- .bak files on a network drive, USB drive or local disk.
- Restore from a backup file on the admin screen.

Updates

- Every update is digitally signed.
- Delivered over the internet, by USB or over the hospital network.
- Readiness check and verification before installing; rollback when needed.

Offline licensing

- A signed key bound to the facility and its package, verified locally.
- One activation on the server covers every device.
- Package upgrades with a new key, without reinstalling.

What needs the internet?

All daily operation runs on the internal network. Only three optional features need a connection:

Feature	When it needs the internet	Without the internet
MyHealth patient record	To upload an encrypted copy for patients who opted in	The original stays on the hospital server; records of patients who do not opt in stay internal
Sharing imaging studies	Only when the short cloud link is chosen	A link on the hospital network, or a standalone file on a USB drive
WhatsApp messages: appointment reminders, billing notices, record sharing link	Only at the moment of sending	Booking and billing carry on without interruption