

INSPIRE

RIS & PACS PLATFORM

A complete radiology information system and picture-archiving platform for modern hospitals — scheduling, worklists, reporting, PACS storage, web viewers, AI assistance, and patient delivery. Deployed on your own servers. No cloud lock-in. No per-study fees.

 **Built for hospitals**

 **On-premises**

 **DICOM & HL7**

 **AI-assisted**

 **PWA mobile**

 **Multi-viewer**

60%

FASTER TURNAROUND

0

PER-STUDY LICENSE

15+

MODALITY PROTOCOLS

24/7

DICOM LISTENER

Everything a radiology department needs — in one install.

Scheduling → Modality worklist → Image acquisition → Reporting → Patient delivery. End to end.

Two tightly-integrated components work together to cover the whole imaging workflow — from booking the exam to handing the patient their report.

INSPIRE RIS

Radiology Information System. Patient records, scheduling, modality worklist generator, reporting workstation with Dragon-friendly dictation editor, electronic signatures, audit trail, analytics, patient portal, WhatsApp reminders, multi-user role-based access, mobile PWA.

INSPIRE PACS

Picture Archiving and Communication System. Full DICOM SCP listener on port 4242 for C-STORE, C-FIND, C-ECHO, C-MOVE, Storage Commitment, Modality Worklist. DICOMweb support. Four viewers out of the box — Stone / OHIF v3 / BlueLight (web) + Weasis (native desktop, launched via `weasis://`). PostgreSQL index, Lua extensibility, bulk study management.

Clinical workflow, end-to-end



Schedule the exam

Receptionist creates appointment → accession number auto-generated → worklist sent to the modality within seconds.



Acquire images

Technologist selects patient on the modality — all patient data is pre-filled. Images flow straight into InSpire PACS over DICOM.



Read & report

Radiologist opens the study in the split-screen reading page: Stone / OHIF / BlueLight (browser) or Weasis (native desktop viewer) on the left, rich-text reporting editor on the right. Templates, sections, section quick-inserts, voice-friendly.



Sign & finalize

One click signs the report with the radiologist's saved signature block. Optional resident workflow: residents draft → radiologist signs final. Both credited on the printout.



Deliver to the patient

Finalized X-ray reports become a single hospital-branded PDF with every image embedded as JPG. CT / MRI reports share a DICOM viewer link. Sent by WhatsApp, email, or SMS with a revocable token.

DRAGON-FRIENDLY REPORTING

Rich-text editor tuned for voice dictation — section quick-inserts, reusable templates, clean cursor handling. Split-screen with the viewer.

MULTI-VIEWER (4 VIEWERS)

Stone / OHIF v3 / BlueLight in-browser + **Weasis** native desktop client (launched via `weasis://` with DICOMweb auth built in). Per-study picker, MPR, 3D, hanging protocols, full-screen diagnostic.

AI ASSISTANT

Floating chat bubble (Gemini / Ollama). Ask findings, summarize priors, suggest templates. Privacy-aware, per-user.

DUAL SIGNING

Optional resident → radiologist workflow. Residents draft, radiologist signs. Both credited on the printout.

SIGNED-REPORT INTEGRITY

Signed reports lock automatically. Only admins can correct. Timestamped **addenda** from the original signer — never rewrite history.

DUAL AUTOSAVE

Every keystroke saved in the browser; silent server autosave every 30 seconds. No lost work on a network drop or PC crash.

SMART ACCESSION

Every exam gets a unique accession automatically. Walk-ins get one stamped back into the DICOM tags.

PRIOR VIEWER

Opens the previous study of the same modality on the second screen automatically — side-by-side comparison.

BATCH OPERATIONS

Bulk Sign & Finalize, bulk Print, bulk link, bulk reassign — built for high-volume days.


» AUTO-ADVANCE READING

Optional radiologist toggle: every Sign & Finalize auto-closes the viewer, picks the next unread exam from the queue, opens it in the tab, and relaunches the viewer on the reading monitors. Zero clicks between reports.

» RIS ↔ PACS SYNC

One place to edit a patient: name, Medical Number, DOB, sex. Changes propagate to every matching study in the PACS automatically so the RIS and the archive never drift apart.

» LINK EXAMS

Group 2+ studies of the same patient into one reading session — they share a single canonical report, flip to Reported together, and the Reports Hub flags every member with a  badge. Perfect for multi-region CTs, biplane X-rays, and follow-up + prior read as one.

» PER-USER UI

Each radiologist tailors their own workspace: Classic or Modern dropdown sidebar, Dark mode for the reading pane, Auto-advance to plough through the unread list. Nothing affects other users — and it survives login.

» CHOOSE YOUR EDITOR

Four editor styles — **Rich** (TinyMCE), **Quill** (lightweight), **Plain** (Bold/Italic/Size), **Text** (pure dictation). Radiologists flip between them from a topbar slider; saved per user. All four are Dragon NaturallySpeaking-compatible.

» SCANNED PHYSICIAN ORDERS

Receptionists attach the referring-physician order with one tap — a phone-camera button opens the back camera, a file button picks from disk. Orders travel with the appointment and appear on the left of the radiologist's reading pane.

» EXPORT TO EXCEL

One click on the Reports Hub exports the currently filtered list to a native .xlsx — Medical Number, accession, modality, radiologist, signed-at, turnaround, 18 columns in all. No paid components.

"Switching to InSpire cut our report turnaround by over half, and the radiologists love the Dragon-friendly editor and the ability to read remotely from a tablet."

— **Head of Radiology, hospital deployment (testimonial available on request)**

AUTOMATED DAILY BACKUP

Nightly to your SMB/NAS at 01:00 — database, DICOM images, worklists, config. Super-admin dashboard with live log, schedule, run-now.

WHATSAPP ALERTS

Admin gets a message on backup start / complete and any service going down or recovering. 30-min dedup stops spam.

LIVE DICOM FEED

Terminal-style real-time stream of every modality connection, study arrival, auto-link event — invaluable during onboarding.

MODALITY AUTO-ONBOARDING

DICOM C-ECHO from the web UI. Register an AET once and the modality is live. Storage Commitment out of the box.

THIRD-PARTY INGESTION

Pull signed reports from another RIS/PACS (e.g. CareStream Vue) with an outbound bridge. No firewall holes, idempotent.

HISTORICAL IMPORT

Interactive importer for legacy reports from Excel — per-row patient match + confirm. Bring years of data in cleanly.

ROLE-BASED ACCESS

super_admin / admin / radiologist / resident / tech / receptionist. Granular per-user perms, live refresh (no re-login).

AUDIT TRAIL

Every field change tracked — edits, report saves, DICOM deletions, shares, sign-ins. Old + new JSON retained.

ANALYTICS

Exam volume, radiologist productivity, turnaround time, referrer trends. Export to PDF with your hospital logo.

PATIENT DELIVERY — 3 TIERS

Per-modality choice of **PDF** (X-ray/mammo), **ZIP + browser viewer** (any OS), or **self-extracting EXE with portable Weasis** (Windows) — the patient double-clicks and a real DICOM viewer opens with MPR/3D/cine, no install. Disclaimer + IP-logged consent before content is served.

INSTALLABLE MOBILE APP

Progressive Web App — radiologists install InSpire on Android/iPhone from the browser. Full reporting from a tablet.

100% ON-PREMISES

Runs on your own server via Docker Compose. No cloud dependency. Your data stays in your building.

Why InSpire vs. the market

Capability	Typical cloud RIS	InSpire
On-premises, no per-study fees	No	✓ Included
Four integrated viewers (Stone + OHIF + BlueLight + Weasis)	Single viewer	✓
Dragon-friendly reporting & dual signing	Limited	✓ First-class
Signed-report lockdown + timestamped addenda	Ad-hoc	✓ Enforced
Dual autosave (browser + server)	Rare	✓
Automated backup to your NAS + WhatsApp alerts	Add-on	✓ Included
Ingest from another RIS/PACS (CareStream, etc.)	No	✓
Installable mobile app + open standards	Varies	✓ PWA, full DICOM/HL7
Patient delivery: PDF / ZIP / self-extracting EXE with viewer	PDF only	✓ All three per modality

WHAT YOU GET ON DAY 1

- Complete InSpire RIS + InSpire PACS stack deployed on your server.
- Hospital branding (logo, name, print header/footer, colors).
- All your existing modalities connected and echoing.
- User accounts & role defaults for every team.
- Patient and historical study import if available.
- Staff training — radiologists, technologists, receptionists.

HARDWARE REQUIREMENTS

- **Server:** 8+ CPU, 16 GB RAM, 2+ TB storage (scales with study volume).
- **OS:** Linux (Ubuntu / Debian / RHEL family).
- **Network:** LAN access to all modalities; optional VPN / Cloudflare Tunnel for remote reading.
- **Workstations:** any modern browser (Chrome / Edge / Firefox). No installed software required.

Tech stack (for your IT team)

FRONTEND

PHP 8.2, Progressive Web App, service worker, responsive design (mobile → 4K).

RIS DATABASE

MySQL 8.0. Normalized schema with audit triggers.

PACS DATABASE

PostgreSQL 14 (Orthanc index backbone).

IMAGING CORE

DICOM SCP/SCU, DICOMweb (WADO, QIDO, STOW), Lua scripting for hospital-specific flows.

VIEWERS

Stone Web Viewer, OHIF v3, BlueLight (browser) + Weasis (native desktop, weasis://) — all pre-integrated.

INTEGRATION

HL7 adapters available, REST API for everything, DICOMweb for third-party viewers.

Ready to see it live?

Book a 30-minute demo on your calendar. We'll connect to your environment, simulate a modality, and run an end-to-end workflow with your team.

Company	SoftNSol — Healthcare Software Solutions
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Product	InSpire RIS & InSpire PACS