



From Image to Insight — In Seamless Flow with FHIRcast



That's life in **flow.**



When nothing disturbs your flow, your expertise shines through. No distractions, no breaks in concentration: just you, the image, and a clear path to diagnosis.

With AGFA Enterprise Imaging integration of Report Automation, powered by FHIRcast, technology fades into the background, quietly structuring every note, measurement, and annotation, so what stays in focus is the patient case in front of you and the confidence in every conclusion.

Your Day in Flow – Reports That Build as You Read

You analyze, interpret, and record your findings — and Report Automation curates the content. As you work through each case, your measurements, annotations, and dictation flow directly into a structured report in real time, shareable and ready the moment you finish reading.



Pioneering Integration, Validated by the IHE

AGFA HealthCare was among the first to validate and implement the FHIRcast standard for seamless integration of third-party reporting applications, earning the IHE (Integrating the Healthcare Enterprise) Connectathon SEAL and setting a new benchmark for structured, synchronized workflows. The pioneering use of the FHIRcast standard enables real-time, bi-directional sharing of context, data and workflows between Enterprise Imaging and integrated applications.

FHIRcast is a web standards-based protocol developed by Health Level Seven International (HL7) that keeps multiple healthcare applications in sync with the same clinical context — such as a patient, study, or imaging series — in real time. It uses bi-directional synchronization, meaning updates flow both ways, helping reduce reporting errors and improve workflow efficiency.



 **FHIRcast**

FHIRcast: Synchronizing Clinical Information Across Systems

AGFA HealthCare's Enterprise Imaging platform is open and standards-based, enabling seamless integration with best-in-class clinical applications. Within this connected imaging ecosystem, FHIRcast facilitates real-time synchronization of actions and data across systems.

FHIRcast acts as a “**context broadcasting**” system that also synchronizes data, such as measurements. For example, when a radiologist opens a study in a PACS viewer, FHIRcast transmits the relevant patient and study information (including patient ID, study UID, and modality) to other connected applications, such as a structured reporting tool, AI assistant, or EMR. All the applications automatically align to the same patient and study — without manual input.

Through this Seamless Coordination, FHIRcast Enables You to:

- **Minimize “context mismatch errors”:** situations where two applications are not displaying the same patient or study (for example, when a report is dictated for the wrong case).
- **Avoid data duplication errors** that can occur when measurements or other findings are manually re-entered.
- **Improve report template adherence** by enabling structured reporting tools that support standards such as BI-RADS® and PI-RADS® to automatically populate measurements.
- **Enhance reporting efficiency** by allowing AI tools to use FHIRcast to receive study information and pre-fill report templates with relevant findings.

This **real-time bi-directional synchronization of clinical context** across systems can be used to integrate any third-party application that supports FHIRcast, supporting real-time decision-making and automated follow-up recommendations.

FHIRcast vs. Conventional Integration Standards

Feature	FHIRcast	HL7 v2	DICOM Worklist	Proprietary SDKs
Real-time sync	✓	✗	✗	✓
Web standards	✓	✗	✗	✗
Vendor-neutral	✓	✓	✓	✗
Easy to implement	✓	✗	✗	✗
Supports AI workflows	✓	✗	✗	Limited

Simplifying Healthcare Connectivity

Through FHIRcast integration, your reporting and diagnostic tools stay automatically synchronized, so all the systems you use follow the same patient and study in real time. Even when you are working across multiple systems — a PACS workstation, a reporting tool, perhaps an AI-assisted lesion measurement app — everything stays aligned.

A Typical Reading Scenario Might Look Like This:

1. You open a CT scan in your PACS workstation.
2. You identify a lesion and use built-in tools to measure its dimensions.
3. This creates an 'event' in Enterprise Imaging, which is published to a FHIRcast Hub (the 'central synchronizer')
4. Your reporting application automatically captures and transfers lesion data—size, location, and image reference—straight into your report. No dictation, no manual entry. Just seamless, automatic documentation.
5. Your report editor opens automatically with a pre-filled, context-aware description of the lesion, ready for your review and final edits.

No Switching Tabs.

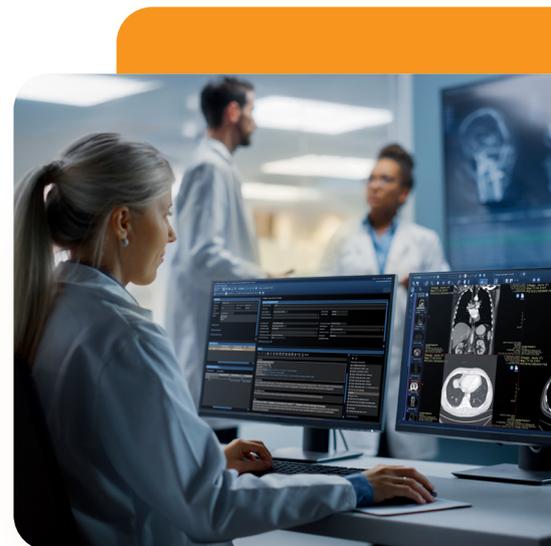
No Retyping.

No Risk Off Transcription Errors Caused by in Manual Entry.

**Just Seamless,
Real-time Interoperability.**

Up to **30%** of a radiologist's day is spent on manual data entry and navigating between systems¹.

With FHIRcast-enabled automation, that burden can be reduced by over **50%**, speeding up report turnaround and easing workload pressure².



1. Frost & Sullivan. What More Intelligent Imaging Data Management Means to Radiologists. Daniel Ruppert, Consulting Director, Healthcare & Life Sciences. Retrieved from <https://enlitic.com/wp-content/uploads/Imaging-Data-Management-for-Radiologists.pdf>

2. Radiology Business. Radiologists Reduce Time Spent on Noninterpretive Tasks by 70% with Communication Support. Hannah Murphy, December 8, 2022. Retrieved from <https://radiologybusiness.com/topics/healthcare-management/medical-practice-management/reduce-time-spent-noninterpretive-tasks>

More Than an Image. The Big Picture.

As imaging volumes rise and complexity grows, the need for fast, flexible interoperability is more urgent than ever. Healthcare organizations must deliver streamlined experiences for clinicians, without adding friction for IT.

That's what AGFA HealthCare delivers — bringing third-party applications seamlessly into the Enterprise Imaging workflows with the FHIRcast standard, setting a new benchmark for seamless data exchange.



BENEFITS FOR

Radiologists

- **Less manual entry, fewer errors**, with key findings like measurements and image data flowing directly into the report
- **Seamless image-to-report workflows** that minimize context switching
- **Fewer interruptions**, enabling more time to focus on confident, informed diagnosis
- **Streamlined dictation**, with AI suggestions filling in the details

Referring Physicians

- **Clear, structured reports** using standardized templates that improve readability
- **Direct image hyperlinks** to key slices, supporting faster clinical decision-making
- **Reliable follow-up**, with automated recommendations that help ensure continuity of care

Clinical and Operational Leaders

- **Faster report turnaround**, to support timely, high-quality care
- **Reduced radiologist fatigue**, by minimizing data entry, avoiding repetition, and lowering cognitive load
- **Enhanced quality and traceability** for more reliable reporting and follow-up

IT

- **Robust performance and reliability**, with the Automated Reporting integration using the Simplified Integration & Maintenance FHIRcast standard that has been recognized with the IHE Connectathon SEAL for compliance
- **No need for proprietary software development kits or custom middleware**: FHIRcast uses current web standards
- **Future-ready interoperability**, built on HL7 FHIR and IHE standards to support compatibility with evolving healthcare ecosystems

Faster AI-enhanced Reporting

Report Automation, **powered by bi-directional FHIRcast synchronization**, links Enterprise Imaging and third-party applications such as Rad AI Reporting™ to deliver a single, seamless workflow — from image interpretation to structured reporting in real time. This tight connection:

- streamlines the creation of structured, AI-enhanced reports
- minimizes manual data entry
- strengthens clinical collaboration

The reporting workflow becomes an extension of the radiologist's thoughts, helping them **stay focused on the image, not the interface**.



Built on Open, Standards-based Interoperability

- **FHIRcast-enabled architecture** creates sustainable interoperability and avoids vendor lock-in, while enabling seamless integration with third-party reporting solutions.
- **Open platform strategy** helps protect IT investments by eliminating the need for costly system replacements.
- **AI-compatible design** aligns with enterprise digital transformation goals.
- **Standards-based deployment** streamlines integration across PACS and reporting systems.
- **Automated data exchange** reduces manual syncing tasks and ongoing support burdens.

Report Automation: Powering a More Connected Imaging Platform

By seamlessly integrating solutions into your Enterprise Imaging platform through FHIRcast, this standards-based interoperability extends your solution with AI-enhanced, structured reporting. And as your needs expand, Report Automation works seamlessly alongside the other pillars of the platform, bringing every part of your imaging strategy into flow.



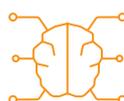
Anytime, Anywhere.

The Streaming Client enables blazing-fast, flexible access to the full diagnostic toolset, truly delivered through a web-based Cloud architecture optimized for diagnostic performance. Care teams stay connected with fast, secure image access, while IT eliminates infrastructure burdens, client maintenance, and version management.



Work in Flow.

With our RUBEE® Orchestrator, studies are intelligently assigned based on clinician expertise and availability—and critical findings are automatically escalated. This seamless, personalized worklist keeps clinicians in the zone, assigns cases in a fair and equitable manner, so they can perform at the top of their craft.



Augmented Intelligence.

With RUBEE® AI, embedded AI tools help accelerate reads, flag critical findings, and surface what matters most — right within your workflow.

Speed meets confidence. Integrated seamlessly with your existing systems, AI supports faster reads, prioritizes efficiently, and helps you focus on the most complex cases. The result: more confidence in every diagnosis.

More Than an Image.
The Big Picture.

That's life in **flow**.

Ready to Simplify Radiology Reporting and Amplify Diagnostic Confidence?

Ask your AGFA HealthCare representative how to start your AI-driven, FHIRcast-integrated Report Automation journey.

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