

Application Note

AI-Driven
Prior Authorization,
Cost Estimates,
and Scheduling

Fully integrated with
powerserver™ RIS

Does not require FDA clearance



Alpha Nodus, integrated with RamSoft's RIS/PACS, is an AI-powered service platform automates front desk tasks for outpatient imaging centers and radiology environments, including document processing, eligibility checks, estimates, prior authorizations, scheduling, check-in, and registration. The platform is designed to increase revenue, reduce overhead, and provide faster, compliant care in imaging centers, hospitals, and health systems.

How Alpha Nodus Enhances RamSoft's PowerServer™ Platform

Alpha Nodus supercharges PowerServer™ with AI-driven automation – streamlining prior authorizations, scheduling, and document processing.

The result: faster patient throughput, reduced manual tasks, improved payer compliance, and seamless front-office efficiency within your existing RamSoft ecosystem.

Gravity Platform: A cloud platform that integrates AI-powered automation with human workforces to enhance productivity.

Gravity Docs: An AI-powered document processing system that automates the sorting, indexing, and linking of incoming faxed documents to patient files.

- **Classify** – Machine learning algorithms classifies documents with 99% accuracy to characterize document type such as an order, referral, insurance card, etc.
- **Index & Link** – Uses optical character recognition to extract patient data to match documents to the appropriate EHR.
- **Digitize Orders** – Extracts order details such as exam type, diagnosis, and provider information and then converts into a digital order within RIS, eliminating manual entry.
- **Assist in Exception Handling** – Highlights fields that need attention.

Gravity Auth: An automated system for prior authorization that verifies eligibility and provides cost estimates to boost revenue and reduce claims.

- **Eligibility, Benefits & Estimates** – Check eligibility and create shareable cost estimates with one click.
- **Start Prior Authorization Request** – PA bots navigate and input data to activate prior authorization requests eliminating a manual, time-consuming process.
- **Comprehend Progress Notes** – Technology is applied to identify and examine pertinent clinical information, to determine medical necessity and obtain prior authorization approval.

Gravity Platform: A cloud platform that integrates AI-powered automation with human workforces to enhance productivity.

Gravity Flow: An AI-driven **scheduling system** that optimizes clinical capacity and automates routine scheduling tasks. The system facilitates patients' notifications of wait times via text message and offer scheduling options.

Booking Center with AI Workforce: Transforms scheduling and patient communication.

Capacity Management: Algorithms analyze and predict scheduling patterns like no-shows, then adjust capacity to reduce downtime.

Confirm, Change, Cancel, Instructions, Directions - Automate routine patient interactions through various channels, phone, text, etc.

Intelligent Call Management - Every call gets answered right away. Incoming calls get routed to the appropriate action. Staff has call details prior to engagement.

Gravity Analytics: Real-time data from various sources for complete operational insights and risk mitigation.

Gravity Analytics serves as a CRM (Customer Relationship Management system) for referring physician activity, eliminating the need for another CRM or tracking software.

Faster Scheduling: Prior authorizations are processed in minutes, not days – freeing up time and improving patient throughput

Increased Revenue Capture: Reduces claim denials and improves exam completion rates through timely, validated authorizations

Operational Efficiency: Staff spend less time administering paperwork and more time focused on patient care

Scalable Across Locations: Multi-site organizations can centralize and standardize authorization management

Better Patient Experience: Reduces delays, uncertainty, and missed appointments due to insurance approval gaps

Seamless Workflow: Direct integration into PowerServer ensures minimal disruption and maximum ROI

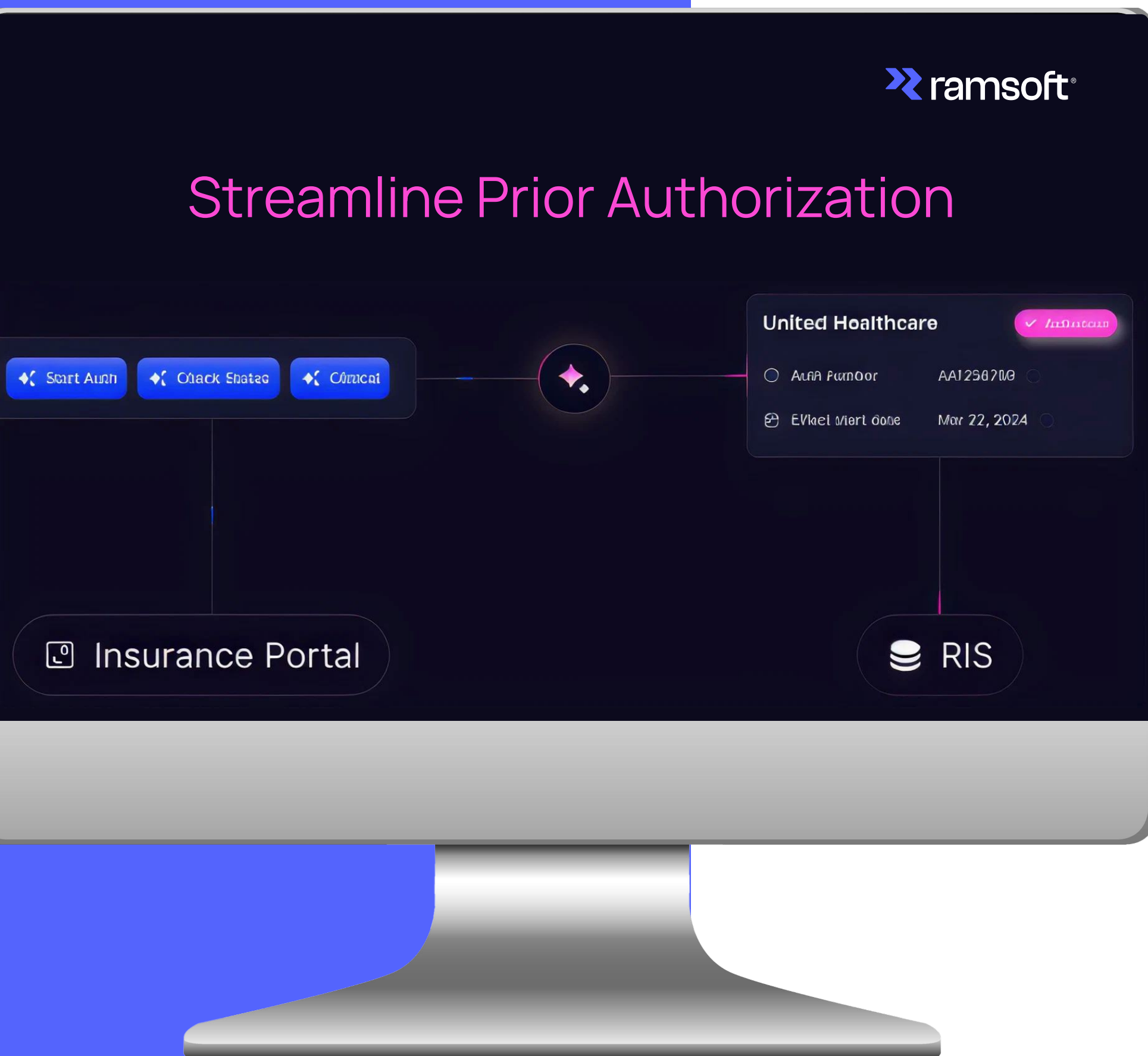
Precise Process Automation: Automates repetitive manual tasks quickly.

Omni-Channel Communication: Combines various communication methods into a unified system for efficient data flow and management.

The only vendor to provide patient responsibility estimates for primary and secondary insurances.

Largest network in the industry, connected with 1,500 insurance payers.

Overcome employee switching costs: The system retains knowledge for front desk tasks.



Clinical Needs Alpha Nodus Solves

Timeliness of Care – AI algorithms in scheduling and insurance authorizations facilitate faster access to results for life-threatening, unknown critical conditions.

Reduction in medical errors from manual processes and data entry.

Elimination of Document Chaos

Uses AI to classify, digitize, and link patient documents with 99% accuracy – enabling faster order processing and exception handling.



Atlantic Medical Imaging: Enhancing Scheduling and Prior Authorization with Gravity AI

Context: Atlantic Medical Imaging (AMI), a prominent provider of imaging services, partnered with Alpha Nodus to implement Gravity AI for scheduling and prior authorization processes at RSNA 2023.

Outcomes:

- **Operational Insights:** Gravity Analytics provided actionable data, enhancing decision-making and workflow productivity.
- **Increased Schedule Efficiency:** Predictive analytics **reduced no-show rates by 15–20%**, filling schedule gaps and **increasing patient throughput by 10–15%**.
- **Faster Prior Authorizations:** Automation streamlined approvals, **reducing processing time by 40–60%**, preventing costly rescheduling.
- **Patient-Centered Care:** Minimized wait times, improving patient experience (qualitative feedback indicated **25% higher satisfaction**).



Improving Operational Efficiency Using Artificial Intelligence In Outpatient Radiology

Context: How one imaging center used Gravity to increase their patient volume by 10% and reduce prior authorization workload by 50%

Outcomes:

- **7%** increase in completed MRI, CT, MG volumes
- **\$1.62** Million in increased gross profit
- **71%** Decrease in patient wait time
- **50%** Workload fully automated
- **3%** Increase in exam volume

“Rising costs, staff shortages, and increasing demand make medical imaging unsustainable. We need to address these challenges with AI-driven automation and cloud solutions to improve patient outcomes.”

Vijay Ramanathan
CEO and Co-Founder
RamSoft



RamSoft is pleased to have a wide variety of leading AI-based partners that are fully integrated into their PowerServer™ and/or OmegaAI® platforms. Some of these partners include:

Generative AI Reporting



Cloud fax and digital workflow



AI for enhanced Breast Cancer Detection



AI-powered medical coding



Mammography CAD AI and Triage



Worklist orchestration



Automated workflows for front desk



Practice management and medical billing



Cloud-based medical billing





workflow accelerated
patient care accelerated
imaging accelerated

RAMSOFT HEADQUARTERS

20 Adelaide St, East, Suite 1105
Toronto, Ontario M5C 2T6
contactsales@ramsoft.com
+1 888.343.9146

RAMSOFT USA

131 Continental Drive, Suite 301
Newark, Delaware 19713
contactsales@ramsoft.com
+1 888.343.9146

RAMSOFT INDIA

IndiQube Ascent, Municipal No: 420,
Koramangala 4-B Block
Bengaluru, 560034

ramsoft.com | sales@ramsoft.com