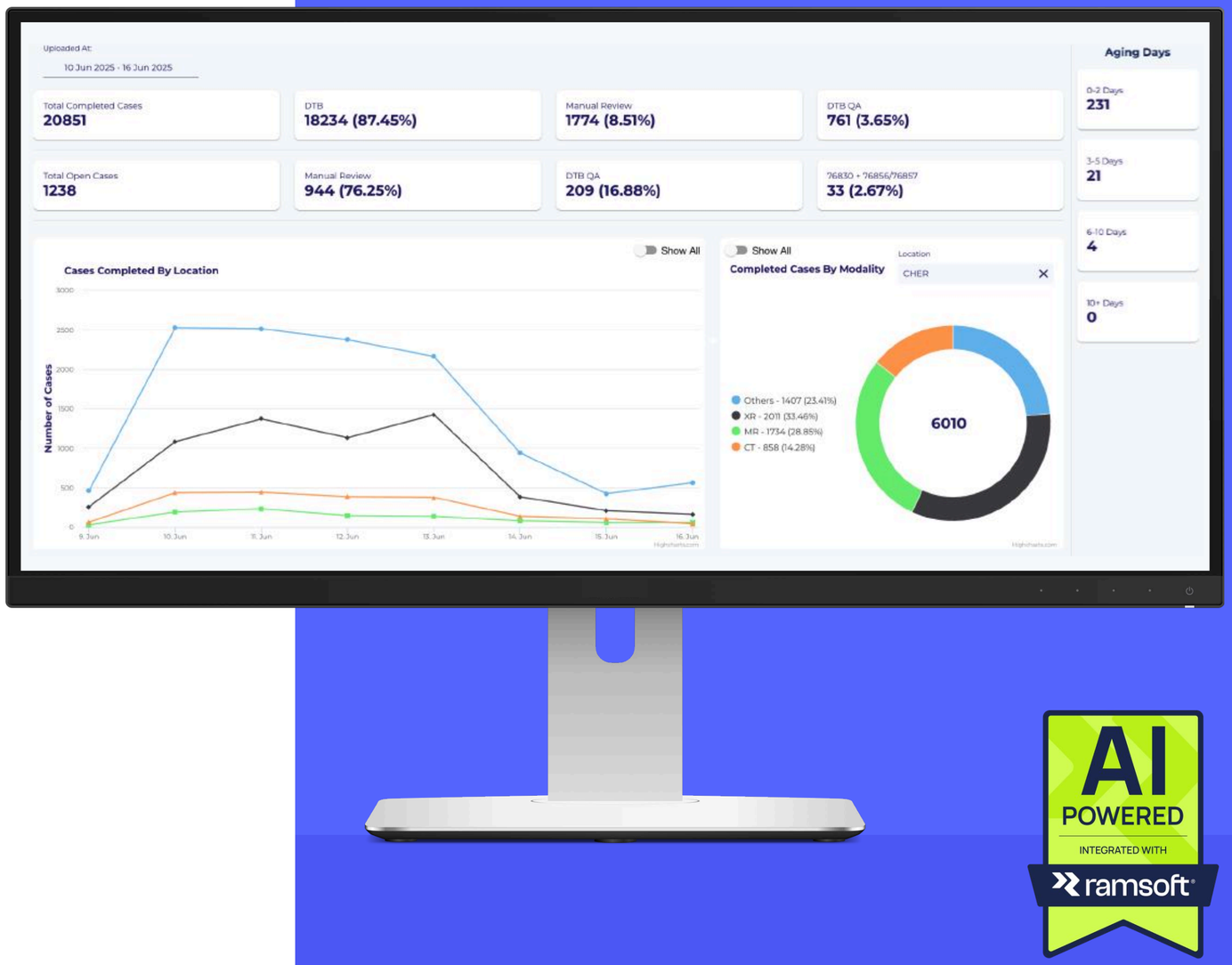
MAVERICK
Autonomous coding. Personalized.

ramsoft®

Application Note

Real-Time AI-based Autonomous Medical Coding



AI POWERED
INTEGRATED WITH
ramsoft®

About Maverick AI ™

mCoder by Maverick Medical AI™ quickly analyzes reports to automatically generate accurate ICD-10 and CPT codes, available to billing systems in real time. By combining in-depth knowledge of medical coding with advanced large language models and deep learning technologies, Maverick's platform autonomously analyzes clinical notes and reports to generate accurate medical codes. Maverick significantly surpasses industry standards with an 85% Direct-to-Bill rate, automating the medical coding process to enhance efficiency, reduce the workload on human coders, and minimize errors.

How Maverick AI™ Enhances RamSoft's PowerServer™ Platform

With the integration of Maverick AI's advanced autonomous medical coding capabilities, imaging providers now benefit from automated quality checks that improve coding completeness and minimize claim denials. This empowers imaging providers through intelligent and connected workflows. Incorporating Maverick AI's autonomous medical coding into the RamSoft PowerServer™ platform, enabling customers to avoid costly billing errors and enhances overall operational efficiencies.

Features and benefits that deliver real impact

Feature	Benefit	Unique Advantages
Point-of-care coding intelligence	Uses proprietary deep learning and generative AI to generate precise ICD-10, CPT codes, HCPCS, supply codes from clinical notes, in 2 seconds without human intervention.	**The software keeps learning and improving.** • Coding intelligence learns from historical data and is personalized with customer-specific coding/business. The model continuously learns from documentation and manual coding patterns. • All codes assigned are fully explainable in the text with color coding.
Industry-leading 85%+ direct-to-bill rate	Remove coding backlogs and reduce the standard 5+delay in billing caused by traditional processes.	**8 out of 10 cases are coded automatically** and without human intervention
Combined machine learning, deep learning, and large language modes	Sophisticated and fully curated models running 24/7 lead to lowers costs, reduced claim denials, accelerated billing cycles, and frictionless growth.	Reduce coding denials, bill faster, grow effortlessly **97% coding accuracy** – highest in the industry
Effortless scalability	The platform's scalability allows it to handle unlimited volume without requiring additional staff, providing cost savings and preventing bottlenecks during high-volume periods.	**Manages additional volume without the need for additional staff (fully automated)**
Compliance and data quality	• Before implementation, several coding validation rounds assess mismatches between the Maverick model and historical data. Though not a formal audit, this acts as a quality check. • When errors are identified in the historical coding or gaps in documentation, the client is notified for the coding team to address. • If the model does not perform as expected due to coding mismatches, Maverick will make the required adjustments and carry out any customizations necessary to align the model with your organization's coding policies before it is launched.	**Automated compliance** **Increased accuracy in coding increases revenue**
Exception handling	If the engine cannot code with high confidence, the "exception" will flow to a human coder. • Ambiguous or conflicting documentation • Client rules/policies and edits • Complexity • Engine confidence low	• If the engine cannot code with high confidence, the "exception" will flow to a human coder using the mCoder coding platform for improved workflow. • Provides transparency to monitor both the automated codes and the human-assigned codes.
mCoder Statistics	• Performance metrics completed cases, DTB rate, manual review and QA%, aging days and more • Stratification by location, modality, and much more	**KPIs at your fingertips** – quickly make informed business decisions and validate the performance of your coding solution

How Maverick Helps to Automate Medical Coding for an Imaging Facility

Healthcare Provider

Finalize charts
& reports

Medical Charts

Securely via HL7

85% Direct-To-Bill

Deep learning AI for medical coding with
an astonishing 97% accuracy

Autonomous Coding
< 2 sec

Billing Codes

Streaming,
automatically sent
to the billing system
within seconds –
no batching

Customers Billing
Software

85%

Highest Direct to Bill Rates in the industry

58%

Reduction in FTEs

71%

Reduction in Coding Backlog

50%

Reduction in Denials

2 day

Improvement in Billing Cycle

90 day

Implementation

Audit & QA Results

Similar to the Layers report; easily view audit & QA results to determine engine and coder accuracy by audit batch.

(◉) Summary ( ) Frequency ( ) Detail ( ) In-Depth

Total cases queried	17
Comparison failed	0 (0.00%)
Total cases compared	17 (100.00%)
Total CPT code match **| Without Modifiers**	0 (0.00%) **| 16 (94.12%)**
Total Primary ICD code match	8 (47.06%)
Total Supply code match **| Without Modifiers**	17 (100.00%) **| 17 (100.00%)**
Total Quality code match	17 (100.00%)
Total cases match	0 (0.00%)
Total cases different	17 (100.00%)

Runs 24/7

Delivers continuous coding without downtime

Codes in seconds

Speeds up billing, reduces A/R, and boosts cash flow

Boosts accuracy and consistency

Minimizes errors and improves code reliability

Scales effortlessly

Handles unlimited volume without additional manpower

Reduces costs and denials

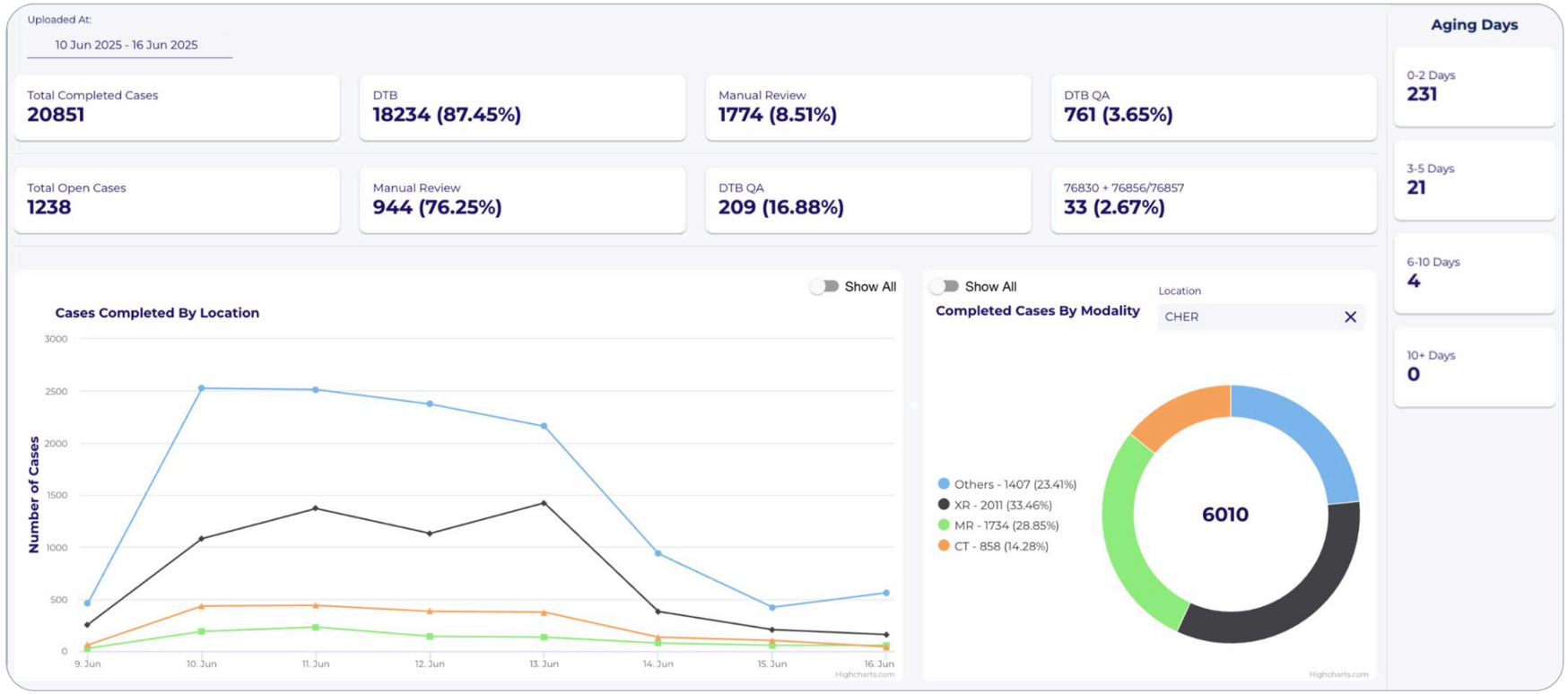
Cuts operational overhead and appeals

Frees up resources

Redirects coders to more complex cases/tasks

Performance Metrics Completed Cases, DTB Rate, Manual Review and QA%, Aging Days and More

Stratification by Location, Modality, Date uploaded



Real Time

Utilization Monitor to view coder system user and activity

Coder

Performance metrics to evaluate individual coder productivity

Support

Performance metrics to evaluate coding support productivity

Work

Access metrics to view overall utilization and access

User Groups | Users | Locations | Work Lists | Apply

Coder Name	User Group	Completed Cases	Rerouted Cases	Current Worklist	Current Location	Total Coding Hours	Average Time On Case (sec)
ashley-coder		0	0	-	-	0	0
bridget.yates		0	0	-	-	0	0

Coder Name	Modality Group	Num Coded (4257)	Coded Procedures (0)	Coded Supplies (0)	Num. Rerouted (14)	Total Coding Hours (29.64)	Average Time On Case (sec) (25.5)	Handled Cases Per Hour (324.7)
champagnet	Unknown, MA, MR, CT, IR, Other, MAJOR, IR, NM, XR, US, OBUS, PET, LAB	407	-	-	4	3.76	32.9	109.4
essexc	Unknown, MA, MR, CT, IR, Other, MAJOR, IR, NM, XR, US, OBUS, PET, LAB	2944	-	-	9	13.74	16.8	214.9
harbint	Unknown, MA, MR, CT, IR, Other, MAJOR, IR, NM, XR, US, OBUS, PET, LAB	905	-	-	1	12.14	48.2	74.6

Coder Name	Modality Group	Num. Cases Accessed (0)	Num. Rerouted (0)	Total Coding Hours (0)	Average Time On Case (sec) (0)	Cases Rerouted Per Hour (0)
ashley.admin	Unknown, MA, MR, CT, IR, Other, MAJOR, IR, NM, XR, US, OBUS, PET, LAB	19	-	-	-	-
charlie.admin.radnet	Unknown, MA, MR, CT, IR, Other, MAJOR, IR, NM, XR, US, OBUS, PET, LAB	-	-	-	-	-

User ID	Username	Working Hours	Last Login
63d2376fe21bf5c432e988e2	matan-radnet6-admin	2,176.89	29 MAR, 06:47
646b4cff017bb87f1986fe9a	whitel	2,148.96	26 Jan, 10:02

Direct to Bill

Facility Processing to evaluate DTB cases & routing

Location	Modality	Total Uploaded (133)	Total Billed (2)	Engine Coded (2)	Eligible DTB % (100%)	Engine No Code (0)	# Cases DTB (2)	# Cases Reviewed (0)	DTB % (100%)
CAOPS IC	Unknown, CT, XR, US, MA, MR	72	2	2	100%	0	2	0	100%
KERN IC	Unknown	13	0	0	0%	0	0	0	0%

Worklist

Processing metrics to view DTB effectiveness & Routing

Location	Modality	Total Uploaded (133)	Total Billed (2)	Engine Coded (2)	Eligible DTB % (100%)	Engine No Code (0)	# Cases DTB (2)	# Cases Reviewed (0)	DTB % (100%)
CAOPS IC	Unknown, CT, XR, US, MA, MR	72	2	2	100%	0	2	0	100%
KERN IC	Unknown	13	0	0	0%	0	0	0	0%

CPT

Code Identification
Per code; review DTB rates

				All			All CPTS			All Primary ICD-10s			All Supplies			All ICD-10s			All Qualities			All Modifiers		
				Accepted		Total	Accepted		Total	Accepted		Total	Accepted		Total	Accepted		Total	Accepted		Total	Accepted		Total
CTP	Location	Modality	Actual DTB%	(#)	(%)	All Codes	(#)	(%)	CPT Codes	(#)	(%)	Primary ICD-10 Codes	(#)	(%)	Supply Codes	(#)	(%)	ICD-10 Codes	(#)	(%)	Quality Codes	(#)	(%)	Modifiers
0866T	All	MR	0%	0	0%	1	2	100%	2	0	0%	1	1	100%	1	–	–	0	–	–	0	–	–	0
10005	All	IR	0%	5	100%	5	8	100%	8	5	100%	5	–	–	0	–	–	0	–	–	0	–	–	0

Case Status

Uploaded, open and aging to validate date delivery & case state

Location	Modality	Work List	Count
COMM IC	All	All	10423
CAOPS IC	All	All	7349
BWMC HOSP	All	All	7138

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:

AI marketplace with testing and monitoring

CARPL

Cloud fax and digital workflow

InterFAX

AI-powered reporting and lesion tracking

MD.ai

AI-powered medical coding

MAVERICK
Autonomous coding. Personalized.

Mammography AI-CAD and triage

iCAD

Worklist orchestration

newVue AI

Automated workflows for front desk

AlphaNodus

Practice management and medical billing

AdvancedMD

Cloud-based medical billing

practicesuite

ramsoft | workflow accelerated
patient care accelerated
imaging accelerated

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