

API Reference

AI Operations Center — Complete Endpoint Catalog

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Audience: Integration Engineer, Frontend Developer, QA

Overview

The application exposes **61 API routes** across **87 method+path combinations**. All routes:

- Accept and return JSON
 - Use `Decimal` fields serialized as strings for financial precision
 - Return standard HTTP status codes (200, 400, 404, 500)
 - Are server-side rendered (no CORS restrictions within the app)
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Core Data APIs

Method	Path	Purpose	Key Params
GET	/api/deductions	List all deductions with related data	?limit=N&skip=N
GET	/api/deductions-detail/{id}	Full deduction detail (classification, validity, artifacts)	Path: id
PATCH	/api/deductions-detail/resolve	Record dispute outcome on a deduction	Body: {deductionId, outcome, resolvedAmount, notes}
GET	/api/collections	Ranked collection accounts with scoring	—
GET	/api/invoice-triage	Invoice list with exceptions and classification	—
GET	/api/invoice-triage/{id}	Single invoice detail	Path: id
PATCH	/api/invoice-triage/{id}	Update invoice triage status	Body: {status}
GET	/api/demand-sensing	Forecast, actuals, deviation, attribution, inventory risk	—
POST	/api/demand-sensing	Process planner query via LLM	Body: {query, sku-Code, dc}
GET	/api/buyer-context	Supplier and SKU master data for buyer module	—
GET	/api/executive	Aggregated executive KPIs and financials	—
GET	/api/aged-deductions	Aged deduction summary for escalation	—
POST	/api/aged-deductions	Trigger escalation for aged deductions	Body: {deductionIds, escalationType}

Agent Swarm APIs

Method	Path	Purpose	Key Params
POST	/api/agent-swarm/ run	Trigger an agent swarm run for any MVP	Body: {mvp, caseId}
GET	/api/agent-swarm/ list	List recent agent runs	?mvp=MVP1&limit=10
GET	/api/agent-swarm/ {runId}	Full run detail with reasoning trace and proposals	Path: runId
GET	/api/agent-status	Live agent status updates	?mvp=MVP4&caseId=X
GET	/api/cross-mvp-signals	Cross-MVP signal aggregation	?deductionId=N or ?invoiceId=N

Buyer Copilot APIs

Method	Path	Purpose	Key Params
POST	/api/llm-chat	Streaming LLM chat for buyer copilot	Body: {message, conversationId, userId}
GET	/api/buyer-copilot/conversations	List buyer conversations	?userId=X
POST	/api/buyer-copilot/conversations	Create new conversation	Body: {userId, title}
GET	/api/buyer-copilot/conversations/{id}	Get conversation messages	Path: id
POST	/api/buyer-copilot/conversations/{id}	Send message in conversation	Body: {message}
POST	/api/buyer-copilot/action	Execute a buyer action (PR, acknowledge, etc.)	Body: {actionKind, payload, conversationId}
POST	/api/buyer-copilot/pr/{prNumber}/approve	Approve a purchase requisition	Path: prNumber

Governance & Control APIs

Method	Path	Purpose	Key Params
GET	/api/hitl-queue	List HITL items needing approval	? mvp=X&status=open&caseId=X
PATCH	/api/hitl-queue	Approve/reject HITL item	Body: {id, status, notes, overrideReason}
GET	/api/escalations	List escalation tickets	?mvp=X
PATCH	/api/escalations	Acknowledge or resolve escalation	Body: {id, status, notes}
POST	/api/writeback/submit	Submit writeback request for approval	Body: {mvp, caseType, caseId, action, payload, amount}
PATCH	/api/writeback/approve	Business/IT approval of writeback	Body: {requestId, tier, approvedBy, notes}
POST	/api/writeback/execute	Execute approved writeback via MCP	Body: {requestId}
GET	/api/audit-log	Query immutable audit log	?mvp=X&limit=N
GET	/api/notifications	Aggregated notification center feed	—

Configuration & Tuning APIs

Method	Path	Purpose	Key Params
GET	/api/boundary-conditions	List boundary conditions	?mvp=X
PATCH	/api/boundary-conditions	Update a boundary condition value	Body: {mvp, conditionKey, value}
POST	/api/boundary-conditions	Reset conditions to defaults	Body: {action: "reset", mvp}
GET	/api/scenarios	List what-if scenarios	?mvp=X
POST	/api/scenarios	Run a what-if scenario	Body: {mvp, name, overrides}
PATCH	/api/scenarios	Apply scenario as new defaults	Body: {scenarioId}

Evaluation & Learning APIs

Method	Path	Purpose	Key Params
GET	/api/agreement-metrics	Agreement-with-human metrics + disagreement drill-down	?mvp=X
POST	/api/agreement-metrics	Reseed/recompute agreement metrics	—
GET	/api/agreement-rate	Raw agreement rate data	?mvp=X
POST	/api/agreement-rate	Record a new agreement/disagreement	Body: {mvp, class-Value, agreed}
GET	/api/golden-cases	List unlabeled golden cases (MVP1)	—
POST	/api/golden-cases	Save SME label on golden case	Body: {id, classification, verdict, ...}
GET	/api/override-reasons	List override reasons and patterns	?mvp=X
POST	/api/override-reasons	Record new override reason	Body: {caseType, agentProposal, sme-Correction, reason, ...}
GET	/api/prompt-versions	List prompt versions	?mvp=X&status=active
POST	/api/prompt-versions	Create new prompt version	Body: {mvp, prompt-Type, systemPrompt}
PATCH	/api/prompt-versions	Activate/deactivate prompt version	Body: {id, status}
GET	/api/prompt-refinements	List suggested refinements	?status=pending
POST	/api/prompt-refinements	Create refinement suggestion	Body: {source-PromptVersionId, patterns, suggestion}
PATCH	/api/prompt-refinements	Review/implement refinement	Body: {id, status, reviewedBy}

Per-MVP Evaluation APIs

Method	Path	Purpose
GET	/api/mvp2/agreement	MVP2 collections agreement metrics
GET	/api/mvp2/score	MVP2 scoring model outputs
GET/POST	/api/mvp2/golden-cases	MVP2 collections golden cases
GET	/api/mvp3/agreement	MVP3 invoice triage agreement metrics
GET	/api/mvp3/validity	MVP3 invoice validity engine results
GET/POST	/api/mvp3/golden-cases	MVP3 invoice golden cases
GET	/api/mvp4/agreement	MVP4 buyer copilot agreement metrics
GET/POST	/api/mvp4/policy-evaluate	MVP4 policy engine evaluation
GET/POST	/api/mvp4/golden-cases	MVP4 buyer golden cases

Metrics & Value APIs

Method	Path	Purpose	Key Params
GET	/api/mvp-metrics	KPI baselines and current values per MVP	?mvp=X
GET	/api/value-ledger	Value ledger entries and aggregations	?mvp=X&caseId=X
POST	/api/value-ledger	Create value ledger entry	Body: {mvp, case-Type, caseId, category, bucket, amountUsd}
GET	/api/cross-mvp-trust	Platform-wide trust score and breakdown	—
GET	/api/proposals	Action proposals across all MVPs	? mvp=X&status=proposed

Validation & Orchestration APIs

Method	Path	Purpose	Key Params
POST	/api/deduction-validate	Run 7-point validity engine on deduction	Body: {deductionId}
GET	/api/mvp1-orchestrate/{deductionId}	Run full MVP1 orchestration pipeline	Path: deductionId
POST	/api/invoice-triage/run-batch	Batch-run invoice triage	Body: {invoiceIds}
POST	/api/invoice-triage/seed	Seed invoice triage test data	—
GET	/api/invoice-triage/arbitrage	List arbitrage opportunities	—
GET	/api/invoice-validate	List recent invoice validity checks	—
POST	/api/invoice-validate	Run validity engine on invoice	Body: {invoiceId}
POST	/api/shortage-reconciliation	Run GR/ASN/BOL three-way match	Body: {invoiceId}

Infrastructure APIs

Method	Path	Purpose
GET	/api/mcp-health	MCP gateway health (circuit breaker status per system)
GET	/api/search	Global search across 6 entity types
GET	/api/test-runner	Run E2E and database integrity tests
POST	/api/seed-data	Seed core reference data
POST	/api/seed-extra	Seed additional scenario data