

Category	Capability	AOD	AAM
A2A Protocol	Agent discovery		
A2A Protocol	Context sharing		
A2A Protocol	Task delegation		
AAM Handoff	ConnectionCandidate export	A/R	
Action	Fabric Action Routing		C
Action	Transaction Execution		R
Adapters	API Gateway Adapter (Kong, Apigee)		A/R
Adapters	API Gateway Connection (Kong, Apigee)		A/R
Adapters	Adapter Factory Resolution		A/R
Adapters	Data Warehouse Connection (Snowflake, BigQuery)		A/R
Adapters	Event Bus Adapter (Kafka, EventBridge)		A/R
Adapters	Event Bus Connection (Kafka, EventBridge)		A/R
Adapters	IPAAS Connection (Workato, MuleSoft)		A/R
Adapters	Pipe Discovery from Plane		A/R
Adapters	Plane Health Check		A/R
Adapters	Warehouse Adapter (Snowflake, BigQuery)		A/R
Adapters	iPaaS Adapter (Workato, MuleSoft)		A/R
Agent Lifecycle	Agent health monitoring		
Agent Lifecycle	Agent registration & configuration		
Agent Lifecycle	Agent version management		
Agent Registry	Agent discovery & inventory	C	C
Agent Registry	Agent metadata & ownership	I	I
Approval Workflows	Approval request generation		
Approval Workflows	Human-in-the-loop routing		
Approval Workflows	Override tracking		
Asset Scan	Asset Discovery (Legacy Endpoints)	A/R	
Asset Scan	Policy Manifest Export (Governance Rules)	A/R	C
Candidate Intake	Candidate Defer		A/R
Candidate Intake	Candidate Ingestion	R	A
Candidate Intake	Candidate Match to Pipe		A/R
Candidate Intake	Candidate Triage		A/R
Candidate Management	Defer Candidate		A/R
Candidate Management	Match Candidate to Pipe		A/R
Candidate Management	Receive ConnectionCandidate		A/R
Candidate Management	Triage Candidates		A/R
Capabilities	Capability contract registration	I	I
Capabilities	Capability drift detection	C	C
Classification & Governance	Governance status determination	A/R	
Classification & Governance	IdP governance policy enforcement	A/R	
Classification & Governance	Shadow IT classification	A/R	
Classification & Governance	Vendor governance propagation	A/R	
Classification & Governance	Zombie asset detection	A/R	
Collector Operations	Collector Registration		A/R

Collector Operations	Collector Run Execution		A/R
Collector Operations	Generate Observations		A/R
Collector Operations	Observation Storage		A/R
Collector Operations	Register Collectors		A/R
Collector Operations	Run Collectors		A/R
Collector Operations	Track Collector Runs		A/R
Connector Provisioning	Config Storage		
Connector Provisioning	Dynamic Reconnection		
Contract	Downstream Consumer Protocol (NLQ Interface)		
Coordination	Arbitration & conflict resolution	I	I
Coordination	Multi-agent workflow orchestration	I	C
Discovery & Cataloging	Asset discovery (find data sources)	A/R	
Discovery & Cataloging	Domain canonicalization (alias collapsing)	A/R	
Discovery & Cataloging	Source catalog management	A/R	
Drift Detection	Acknowledge Drift		A/R
Drift Detection	Detect Contract Drift		A/R
Drift Detection	Detect Freshness Drift		A/R
Drift Detection	Detect Schema Drift		A/R
Drift Detection	Drift Acknowledgement		A/R
Drift Detection	Fabric Drift Detection		A/R
Drift Detection	Schema Drift Detection		A/R
Drift Detection	Schema Hash Computation		A/R
Drift Detection	Suppress Drift		A/R
Economics	Budget enforcement	I	C
Economics	Cost attribution per agent	I	C
Execution	Fabric action routing	I	C
Execution	Transaction execution	I	R
Export	DCL Pipe Export		A/R
Export	Pipe Snapshot Export		A/R
Fabric Detection	Connection Routing Logic	A/R	I
Fabric Detection	Fabric Plane Identification	A/R	C

Fabric Detection      Evidence Lead Generation (Connection Hints)      A/R      C

Fabric Detection      Evidence Lead Export to AAM      A/R      I

Fabric Mgmt	Fabric Plane Connection (The Backbone)		A/R
Fabric Mgmt	Routing Policy Enforcement		A/R
Findings & Issues	CMDB gap detection	A/R	
Findings & Issues	Data conflict detection	A/R	
Findings & Issues	Finance gap detection	A/R	
Findings & Issues	Identity gap detection	A/R	
Governance	Auth Policy Enforcement		A/R
Governance	PII Redaction (Edge)		A/R

Governance	Rate Limit Enforcement		A/R
Identity & Trust	Agent identity issuance	I	C
Identity & Trust	Trust tier enforcement	I	C
Ingest Pipeline	Drift Detection		
Ingest Pipeline	Record Buffering		
Ingest Pipeline	Self-Healing Repair		
Ingest Pipeline	Stream Consumption (Sidecar)		
Ingest Pipeline	Verification with Farm		
Ingestion	Fabric Pointer Buffering (Zero-Trust)		
Ingestion	Just-in-Time Payload Fetching		C
Ingestion	Schema Drift Detection		C
Lifecycle	Agent onboarding & versioning	I	I
Lifecycle	Zombie agent detection	C	C
Observability	Cost tracking		
Observability	Deterministic replay	I	I
Observability	Execution trace & audit	I	I
Observability	Performance metrics		
Observability	Vitals aggregation		
Operator UI	Display Candidates		A/R
Operator UI	Display Drift Events		A/R
Operator UI	Display Pipe Inventory		A/R
Pipe Inference	Create DeclaredPipe		A/R
Pipe Inference	DeclaredPipe Creation		A/R
Pipe Inference	Fabric Plane Inference		A/R
Pipe Inference	Infer Change Semantics		A/R
Pipe Inference	Infer Entity Scope		A/R
Pipe Inference	Infer Fabric Plane		A/R
Pipe Inference	Infer Identity Keys		A/R
Pipe Inference	Infer Modality		A/R
Pipe Inference	Infer Transport Kind		A/R
Pipe Inference	Modality Inference		A/R
Pipe Inference	Transport Kind Inference		A/R
Pipe Registry	Compute Schema Hash		A/R
Pipe Registry	Serve Pipe Queries		A/R
Pipe Registry	Store Declared Pipes		A/R
Pipe Registry	Version Pipe Changes		A/R
Pipeline Execution	Graph Building		
Pipeline Execution	Narration Broadcasting		
Pipeline Execution	Persona Filtering		
Pipeline Execution	Run Metrics Collection		
Policy & Governance	Agent-level policy evaluation	I	C
Policy & Governance	Autonomy bounds enforcement	I	C
Policy & Governance	HITL escalation	I	I
Query Engine	Intent Classification (POINT, COMPARISON, TREND, AGGREGATION, BREAK		

Query Engine	LLM-Based Query Parsing		
Query Engine	Pattern-Based Pre-parsing		
Query Engine	Query Planning & Decomposition		
Query Engine	Query Execution (Aggregation, Filtering)		
Query Engine	Temporal Resolution (last year, Q3, etc.)		
Query Engine	Metric/Dimension Extraction		
Query Engine	Confidence Scoring		
Query Engine	Answer Assembly & Formatting		
Query Engine	Grounding & Citation		
Query Cache	Semantic Query Cache (Pinecone)		
Query Cache	Query Cache Lookup		
Query Cache	Cache Learning (AI Mode)		
Query Cache	Static/AI Mode Routing		
Query Cache	Query Learning Log		
Query Cache	LLM Call Tracking		
Semantic Catalog	Metric Definitions (37 metrics)		
Semantic Catalog	Dimension Definitions (29 entities)		
Semantic Catalog	Alias Resolution		
Semantic Catalog	Metric-Dimension Validation		
Semantic Catalog	Semantic Export API		
Semantic Mapping	Heuristic Mapping (Dev Mode)		
Semantic Mapping	LLM Refinement (Prod Mode)		
Semantic Mapping	Mapping Persistence		
Semantic Mapping	Batch Mapping API		
Reconciliation	Accuracy measurement	R	
Reconciliation	Ground truth validation	R	
Reconciliation	Pipeline execution	A/R	
Runtime	Task Queue Management		
Runtime	Task queue management	I	I
Runtime	Worker Pool Management (Infra)		
Runtime	Worker pool management	I	I
SOR Identification	Data domain classification	A/R	
SOR Identification	System of Record scoring	A/R	
Scaling Infrastructure	Auto-recovery		
Scaling Infrastructure	Load balancing		
Scaling Infrastructure	Task queue management		
Scaling Infrastructure	Worker pool orchestration		
Scheduling	Cron-based scheduling		
Scheduling	Event-driven triggers		
Scheduling	Webhook triggers		
Schema Ingestion	Demo Schema Loading		
Schema Ingestion	Farm Schema Fetching		
Schema Ingestion	Stream Source Loading		
Security	Context Sanitization		

Self-Healing	Connection/Fabric Drift Detection		A/R
Self-Healing	Consumer Lag Detection		A/R
Self-Healing	Execute Self-Heal (Restart Consumers)		A/R
Self-Healing	Heal History Logging		A/R
Self-Healing	Warehouse Suspend Detection		A/R
Source Normalization	Alias Resolution		
Source Normalization	Discovery Mode (New Sources)		
Source Normalization	Pattern Matching		
Source Normalization	Registry Loading		
Tee Request Management	Approve/Reject Tee		A/R
Tee Request Management	Create Tee Request		A/R
Tee Request Management	Track Tee Status		A/R
Telemetry	Metrics Collection		
Telemetry	TPS/Quality Calculation		
Telemetry	Telemetry Broadcasting		
Triage & Prioritization	Asset prioritization scoring	A/R	
Triage & Prioritization	Provisioning status assignment	A/R	
Trust & Security	Injection defense		
Trust & Security	PII detection & redaction		
Trust & Security	Policy enforcement		
Truth	Accuracy Measurement	R	R
Truth	End-to-End Injection Tests		I
Truth	Ground Truth Validation	C	C
Verification	End-to-End Injection Tests		I
Verification	Generate Test Data		I
Verification	Ground Truth Validation	C	C
Verification	Provide Source of Truth		C
Verification	Verify Against Truth		R
Visualization	4-Layer Sankey Graph		
Visualization	Persona-Based Filtering		
Visualization	Monitor Dashboard		
Visualization	Telemetry Ribbon		
Visualization	Terminal Narration		
Visualization	Topology API Exposure		I
Visualization	Galaxy Visualization		
Visualization	Dashboard Generation		
Visualization	Chart Generation		
Visualization	Dashboard Refinement Actions		
Response Generation	Text Response Formatting		
Response Generation	Synonym Normalization		
Response Generation	Off-Topic Handling		
Response Generation	Graceful Fallbacks		
Response Generation	Ambiguity Detection		
Session Management	Session State (In-Memory)		

Session Management	Session Stats Persistence		
Session Management	Tenant Isolation		
Session Management	Row-Level Security		
Data Query	Query Endpoint (POST /api/dcl/query)		
Data Query	Ranking/Superlative Support		
Data Query	Fact Base Execution		
Data Query	Quality Score Metadata		
Workflow Orchestration	Run cancellation		
Workflow Orchestration	Run creation & tracking		
Workflow Orchestration	Step sequencing		

DCL	NLQ	AOA	FARM	Notes
		A/R	I	
		A/R	I	
		A/R	C	
		A/R	I	Routes 'Write' intent to Fabric Plane
		A/R	I	Executes via AAM Adapters
			I	Managed API Proxy
			I	Proxy/REST modality
			I	Instantiates Strategy (Gateway vs Bus)
			I	JDBC/Bulk Read modality
			I	Streaming Consumer
			I	Streaming Consumer modality
			I	Webhooks/Signals modality
			I	Inventory reusable data pipes
			I	Monitor adapter connectivity
			I	JDBC Read
			I	Webhooks/Signals
		A/R	C	
		A/R	I	
		A/R	I	
I		A/R	I	Agents as first-class assets
C		A/R	I	Domain, owner, trust
		A/R	I	
		A/R	I	
		A/R	I	
				Legacy Fallback
				Export rules for AAM to enforce
			I	Defer with reason
			I	Receives from AOD
			I	Link candidate to existing pipe
			I	Status management
			I	
			I	
			I	
			I	
C		A/R	I	Declared agent abilities
C		A/R	I	Observed vs declared behavior
			C	
			C	
			C	
			C	
			I	Register collection strategies

			I	Execute with tracking
			C	
			I	Raw collector output
			I	
			C	
			I	
A/R			I	
A/R			C	
A/R	C		C	DCL provides semantic API for NLQ consumption
C		A/R	I	Deterministic outcomes
C		A/R	I	Fan-in / fan-out
			C	
			I	
			C	
			C	
			C	
			I	Operator action
			I	Connectivity drift
			C	Field changes (not connection)
			C	Data structure drift
			I	
I		A/R	I	Prevent runaway spend
C		A/R	I	Tokens & infra
I		A/R	I	Writes routed via AAM
I		A/R	I	Execution via adapters
I			I	DeclaredPipes for DCL consumption
			I	Point-in-time export
				Context for AAM Handoff
				Detects the Backbone

C Observation plane signals hinting at asset-to-fabric connections (Network traffic, IdP OAuth, CMDB deps)

I Passes connection hints in ConnectionCandidate handoff for AAM to validate against plane crawl

			I	Connects to Planes, not Apps
			I	Enforces 'Block Direct Access'
			C	
			C	
			C	
			C	
			I	Plane-level auth validation
			I	Redacts before data enters DCL



			I	Plane-level rate limiting
I		A/R	I	Separate from service identity
I		A/R	I	Native vs customer vs third-party
A/R			C	
A/R			I	
R			A	
A/R			C	
C			A/R	
A/R			I	Buffers Pointers, NOT Payloads
R				Fetch only on Semantic Map request
A/R			C	Field changes (not connection)
I		A/R	I	Promotion & rollback
C		A/R	I	Sprawl control
		A/R	I	
C		A/R	C	Debug & audit
C		A/R	C	Who did what, when
		A/R	C	
		A/R	C	
			I	
			I	
			I	
			I	
I			I	Publish to DCL
			I	WHERE pipes live
			I	
			I	
			I	
			I	
			I	
			I	
			I	HOW pipes are accessed
			I	API, EVENT_STREAM, TABLE, FILE
			I	
			I	
			I	
			I	
A/R			I	
A/R			I	
A/R			I	
A/R			I	
C		A/R	I	Autonomy, scope, cost
I		A/R	I	Guardrails
C		A/R	I	Confidence-based approval
DOWN)	A/R		I	5 intent types from natural language

	A/R		I	Claude API extracts structured JSON
	A/R		I	Regex before LLM for dashboards/viz
	A/R		I	Breaks complex questions into steps
R	A		I	NLQ orchestrates, DCL provides data
	A/R		I	Interprets time references
	A/R		I	LLM extracts + synonym normalization
	A/R		C	Bounded [0,1] with weighted factors
	A/R		I	Structures response for consumers
	A/R		I	Attaches evidence to answers
	A/R		I	Vector similarity for query matching
	A/R		I	EXACT/HIGH/MEDIUM thresholds
	A/R		I	Stores successful parses
	A/R		I	Mode toggle for speed vs learning
	A/R		I	Logs all queries with success/failure
	A/R		I	Per-session counts with Supabase
A/R	C		I	CFO/CRO/COO/CTO/CHRO packs
A/R	C		I	Business, pipeline, ops, tech, HR
A/R	C		I	'AR' → 'ar', 'attainment' → 'quota_attainment'
A/R	C		I	Which dims apply to which metrics
A/R	C		I	Full catalog for NLQ consumption
A/R			I	Pattern matching ~1s
A/R			I	OpenAI + Pinecone RAG ~5s
A/R			I	PostgreSQL storage
A/R			I	Bulk semantic mapping endpoint
			A/R	
			A	
			C	
		A/R	I	Moved from FARM (Ops)
I		A/R	I	Async orchestration
		A/R	I	Moved from FARM (Ops)
I		A/R	I	Scalable execution
			C	
			C	
		I	A/R	
		I	A/R	
		C	A/R	
		I	A/R	
		A/R	I	
		A/R	R	
		A	R	
A/R			I	CSV files + fact_base.json
R			A	From FARM_API_URL
R			A	Real-time sources from DB
		A/R	C	Security layer before Agent Logic

			I	Detects lost connectivity to Plane
			I	Event Bus specific drift
			I	Restarts Consumers/Reconnects
			I	Audit trail of repairs
			I	Warehouse specific drift
A/R			C	
R			A	
A/R			I	
R			A	
			I	
			I	
			I	
A/R			I	
A/R			C	
A/R			I	
		A/R	I	
		A/R	I	
		A/R	C	
			A/R	
I			A/R	Injects at AAM, verifies at DCL
C			A/R	The 'Test Oracle'
I			A/R	Injects at AAM, verifies at DCL
			A/R	
C			A/R	FARM is Test Oracle
			A/R	
			A	
A/R			I	Pipeline→Sources→Ontology→Personas
A/R			I	CFO/CRO/COO/CTO buttons
A/R			I	Collapsible right panel
A/R			I	
A/R			I	Real-time processing log
A/R				Backend for Graph UI
	A/R		I	Node-based with related metrics
	A/R		I	Dynamic widget schemas from intent
	A/R		I	Line, bar, area, pie, stacked, waterfall
	A/R		I	'Add a chart', 'Show by region'
	A/R		I	Value, unit, period, confidence
	A/R		I	100+ synonyms → canonical names
	A/R		I	Easter eggs, polite redirects
	A/R		I	Never show raw errors
	A/R		I	Pattern-based, returns prompts
	A/R		I	Dashboard state, 2hr TTL

	A/R		I	Supabase storage
	A/R		I	tenant_id on all DB queries
	A/R		I	Supabase RLS policies
A/R	C		I	Metric + dimensions + filters
A/R	C		I	Top N, Bottom N, Best, Worst
A/R			I	51 data arrays, 1500+ records
A/R			I	freshness, quality_score, record_count
		A	R	
		A/R	R	
		A/R	C	