

ATUM

By AtenTEC

*“Composable Backend
Framework for Custom
Enterprise Platforms.”*



***The Engine Behind Purpose-Built
Business Platforms.***



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AtenTEC

 Custom-Built Platforms for Complex Operations and Specialized Workflows.
Powered by ATUM.


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ATUM is

ATUM is a modular, workflow-centric backend framework designed to power complex, domain-specific platforms through customizable microservices. Developed by AtenTEC using the Go programming language, **ATUM** separates **core business logic** from **project-specific workflows** — enabling rapid delivery of deeply customized enterprise solutions.

Unlike traditional **ERPs** or rigid **SaaS backends**, **ATUM** focuses on **modularity**, **composability**, and **integration readiness**, allowing teams to build precision-engineered platforms like FleetFix, Anchor MMS, and others — with full control over operational behavior.

*“**ATUM** is not an ERP — it’s the modular, workflow-driven architecture that powers our enterprise solutions.”*



BUILT WITH MICROSERVICES, DEFINED BY BUSINESS LOGIC, AND CUSTOMIZED THROUGH DECLARATIVE WORKFLOWS, ATUM ADAPTS TO YOUR OPERATIONS, NOT THE OTHER WAY AROUND.

ARCHITECTURE

ATUM uses a **two-layer architecture** for every functional module:

1. Core Modules

- Written in Go
- Provides generic business logic (e.g., Ledger, Inventory, Procurement)
- Exposes core APIs for CRUD, listing, filtering, and system-level logic (validation, constraints).
- Cannot operate independently without a Workflow Layer

2. Workflow Layer

- Defines business-specific behavior
 - Custom fields, validation, automation
 - Print formats (via AtenRP)
 - Ledger mappings (via LedgerRule)
- Triggers, notifications, side-effects
- Fully declarative, per-project
- Customizable without affecting the core module layer

This separation allows:

- 💡 Reuse of core logic across verticals
- ⚙️ Per-deployment customization
- 🚀 Faster QA and delivery cycles

ATUM

WORKFLOW LAYER

Pre-Project customization logic

**CUSTOM
BUSINESS RULES**

**DOCUMENT
TEMPLATES**
(Via AtenRP)

**LEDGER
RULES**

**WORKFLOW
TRIGGERS &
NOTIFICATIONS**

TWO-LAYER ARCHITECTURE

WORKFLOW LAYER

Pre-Project customization logic

LEDGER

INVENTORY

PROCUREMENT

ATENRP
(Document Generator)

ATUM uses a **two-layer architecture** for every functional module:

Feature	Description
APIs	All services expose RESTful APIs.
Message Queue	Uses RabbitMQ (Kafka optional) for async workflows.
Document Generation	AtenRP engine defines custom outputs (PDF/Excel).
Ledger Rules	Declarative accounting impact engine.
External Auth Support	Auth is handled by the overall platform — not ATUM itself.
3rd Party Systems	Easily connects to payment gateways, ERPs, and more.

STACK OVERVIEW

Backend

- Go (Golang)
- AtenGAPI Runtime (Gen 4.40)
- AtenRP (for document rendering)

Infrastructure

- Docker containers
- RabbitMQ (default MQ)
- TLS + scoped tokens
- Audit trail by default


Data Layer

- SQL: MySQL / PostgreSQL / BigQuery
- NoSQL: MongoDB / Datastore



CUSTOMIZATION SCOPE

ATUM uses a **two-layer architecture** for every functional module:

LAYER	CUSTOMIZABLE?	ACCESS BY 3RD PARTY
Core Microservices	✗ No	✗ No
Workflow Layer (rules)	✓ Yes	🔒 Controlled Access
Print Definitions (AtenRP)	✓ Yes	✓ With Templates
LedgerRules Definitions	✓ Yes	✓ Under NDA
UI Layer (Frontend)	✓ Yes	✓ Per Project
<div> AtenTEC controls the core runtime, modules, and service engine. External developers may only extend via approved configuration interfaces.</div>		

SECURITY, COMPLIANCE & AUDIT

ATUM inherits enterprise-grade security from AtenGAPI:

- ✓ TLS-encrypted communication
- ✓ Audit trail for all changes, loggable events
- ✓ Scoped access tokens and route-level control
- ✓ No shared logic between tenants
- ✓ supports compliance requirements such as:
 - GDPR (Europe)
 - NCA/SAMA (KSA — via deployment-specific controls)
 - ISO 27001-ready environments (when deployed on certified infra)

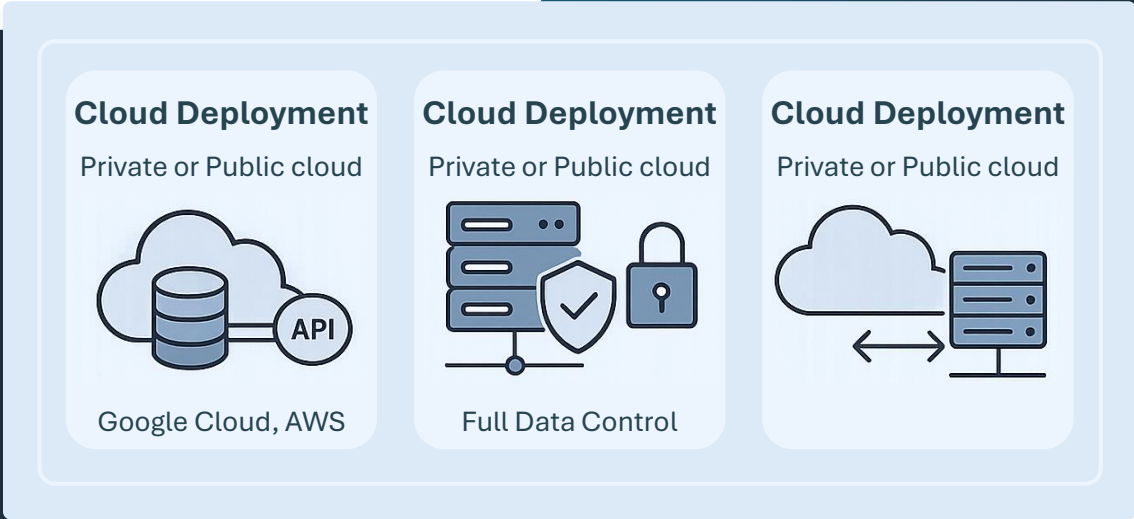
ATUM can be deployed in multiple environments depending on project requirements:

ENVIRONMENT	SUPPORTED
On-Prem	<input checked="" type="checkbox"/> Yes
Cloud	<input checked="" type="checkbox"/> Yes
Hybrid	<input checked="" type="checkbox"/> Yes

MINIMUM REQUIREMENTS:

- Docker
- SQL-compatible database
- NoSQL storage (MongoDB or Datastore)
- Message Queue (RabbitMQ)
- External Auth System

ATUM Flexibility –
Multiple Deployment
Models



ATUM Deployment
Models

TESTED & PROVEN IN

1. FleetFix:
Car rental
workshop
management.



2. Anchor MMS:
Marina operation
management.



3. Anchornize:
Water sports &
asset scheduling
platform.



All the above use **ATUM** for:

Accounting



Procurement



Inventory



Notifications



Workflow automations



IDEAL USE CASES



Enterprises with
unique workflows
that standard ERP
can't handle.



Government-
backed digital
transformation
platforms.



SaaS platforms built
for specific verticals
(e.g., mobility,
maritime).



Companies needing
modular
infrastructure that
grows with their
operations.

SUMMARY

ATUM is not a product — it's a platform to build products.

By separating logic from customization, and exposing flexible interfaces to integrate with any stack, **ATUM** offers both engineering power and business agility.

For high-stakes enterprise software, **ATUM** is your foundation.



ATUM is

***BUILT TO INTEGRATE EASILY WITH BOTH
INTERNAL AND EXTERNAL SYSTEMS.***

GET IN TOUCH



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