Middleware for Digital Insurance Businesses

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AN INNOVATIVE MODULAR, LOW CODE API GATEWAY AND BUSINESS MIDDLEWARE



Pylon is an innovative framework that works both as Insurance Business Middleware as well as API Gateway, that enables insurance businesses transform, extend and distribute their business digitally in a scalable, maintainable and cost-effective way.



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01 **The Problem** Insurance Businesses







Impractical API Gateways



Standard & Typical

While all the available API Gateways in the market are technically great and functionally rich, they are **Technical frameworks only, not Business solutions**. They mostly work as SaaS model, and thus does **not have specific implementation and business requirements**.



Costly Customizations

Since available API Gateways mostly lack business and domain specific use cases, most of the times these implementations become essential; and these customizations are quite expensive in terms of cost and time.



In many cases, the API Gateways are **rigid in nature**, and commands the enterprise architecture to be developed following a certain pattern; thus, they are **difficult to adapt practically**, and digital solutions becomes **gradually unmanageable**.





Gateways Not Business Ready

Generic Solution

API Gateways required by today's Insurance businesses are not mere technical platforms, but also built-in functionalities related to insurance business are expected in the system.



No Default Integrations

There are number of Government applications and other service providers that any Insurance business needs to be integrated with, such as UIDAI, NSDL, Vahan etc. Gateways available in market do not provide any built-in integrations.



Many Insurance enterprises have number of legacy systems that need to be integrated with the API Gateways. In most cases, this becomes a challenge because of **inability of both the systems**. That makes the **core purpose of API Gateways defeated**.





Unfitting Middleware Solutions

Not Pluggable

Middleware solutions available in the market usually comes with full solution, not pluggable to any existing PAS or to any existing front-end application. This essentially makes those solutions not useful for enterprises already having PAS and digital front-ends.



Some or the other functionality usually are unavailable in existing middleware solutions. Thus, it is almost impossible to establish a digital platform without major and costly customizations.



With the ever-changing business model of insurance businesses and legal obligations from Govt authorities (IRDA etc.), the middleware should be **dynamic and flexible enough to accommodate changes without much of coding and customizations**.





Thin Visitor Management

Separate System Required

As because most of the middleware solutions are uncapable for managing users and visitors, an altogether new and separate application is required for these functionalities, making the overall architecture complex and difficult to maintain.



Existing middleware solutions do not come with proper visitor identification, when the visitor is not logged on and arrives randomly in the website. Separate web crawling and dedupe system are required for this.



No Drop Off Management

For tracking and identifying the dropped off journeys, and to generate alerts and trigger actions, most platforms need to rely on CRM systems. This traditional model makes the whole landscape multipart, unreliable with dependency on multiple systems.







The Solution

for Insurance Businesses





In a nutshell

API Gateway

Pylon is the Enterprise API Gateway that works as the glue between all internal and external applications and systems



Built-in Integrations

Pylon ships with dozens of systems pre-integrated that can used from day one without any further coding and implementation.

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Insurance Business Middleware

Pylon is the only platform available in the market that works as Insurance Business Middleware as well as API Gateway.

Visitor and Drop-off Management

Independent module of Pylon plugs into any front-end application, thereby tracking visitors, corresponding journeys and identifying drop-off incidents.



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Unlike the existing products, Pylon is practically built with relevant features that are actually useful for **businesses and technologies alike**, such as, API restrictions, workflows, real time logging, automatic server health checkup, API analytics and so on.



Pylon is not only a technical framework with high-tech features, it is rather designed focusing on solving business problems such as data transformation, unifying of business data, insurance specific integrations and so on.



Pylon ships with numerous builtin integrations such as UIDAI, NSDL, CIBIL, GSTin, API Setu, Experion, Fastlane, CoWin, Vahan, Alexa, Google Home, Hunter, Perfios, Salesforce, Dynamics CRM, WhatsApp and many more.







Easy Customizations

The modular architecture of Pylon makes it easy to customize the framework. In addition, many of the customizations are done using the control panel only. Pylon can be deployed in enterprise private cloud, making customizations less time taking and with no dependencies.



Dynamic Middleware

The middleware an be dynamically customized and extended using configurations only. No need for extra development and coding for normal use cases implementation. Thus, increasing productivity and reducing time to market and cost to the business.



End-to-end Solution

Pylon middleware satisfies almost all the use cases that are essential for insurance businesses. For instance, managing leads, customers, quotations, documents, proposals, policies, journeys, payments, claims, renewals and so on.







As a middleware solution, Pylon manages all the front-end application flows centrally. In each step, corresponding data is persisted via Pylon APIs. As the flows are maintained from the back-end, these can easily be altered and customized without front-end development.



Each back-end activities are controlled and maintained by the workflow engine embedded in Pylon. For example, when to cKYC, when ask for consent, what to do for refund, what actions to be performed in which case and so

on.

- Handling STP/NSTP

The Pylon middleware solution handles all the actions required on a case after STP/NSTP/Break-in evaluation (done by Tailor BRE). All the API calls, Underwriter activities and NSTP handling steps are controlled and managed by Pylon centrally.





C Drop-off Management

An independent module of Pylon, named Sentinel, is **responsible for tracking all the user journeys and identifying the break or drop-off in those journeys**. These incidents are dully logged in the system. This module is separate from Pylon and can be used independently.

Identifying Visitors

Handling and managing logged-on users are common in all systems. However, **identifying anonymous visitors are more important in business context**. Pylon helps in **detecting those visitors, de-duplicating and classifying them**. These maintained data are used for **marketing activities and campaigns**.



The middleware solution has several integrations and these can be attached to various events and incidents. For example, in case of drop-offs, CRM API should be invoked, and corresponding data are pushed to CRM; in case of NSTP, TeleMER vendor API should be initiated; and so on.







Framework Configuration

Pylon Control Panel





Pylon – Single Solution for three Business Problems

Three major Insurance business problems are handled by a single solution – Pylon : API Gateway, Visitor & Journey tracking and Insurance Business Middleware. The Admin Panel interface enables the user to manage all these sub-systems easily and seamlessly.

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Logon to Pylon

User Name

Password

Domain

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API Gateway Logs

Admin Panel shows real time logs of all the activities happened in the API Gateway subsystem. That includes API call logs per Service Accounts along with request and response payloads of each API call, Pylon server logs and so on.

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Service Account Management

Service Accounts are client applications that call Pylon APIs. The Admin Panel enables the administrators to manage these accounts – setting authentication attributes, configuring which APIs are allowed to be called and how many times in a particular time period.

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✓ Register × Cancel





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Dynamic APIs

Not always developers are needed for creating new APIs. Using Pylon Admin Panel, system administrators can register new APIs dynamically on the fly. Multiple data sources can be configured, and Pylon will merge all those retrieved data and will return in a single aggregated payload.

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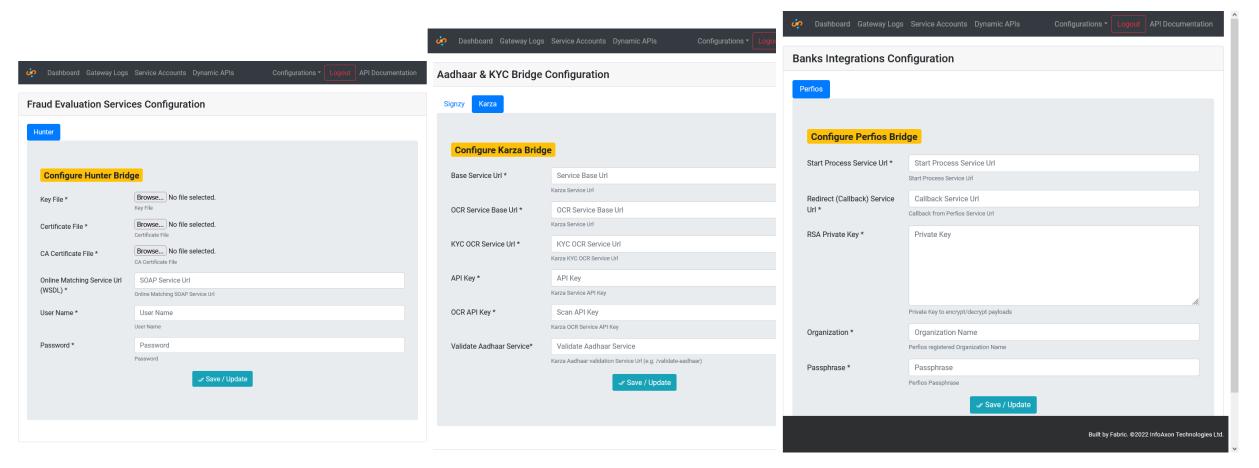
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Built-in Integrations Configuration

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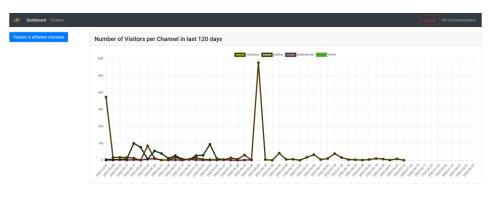


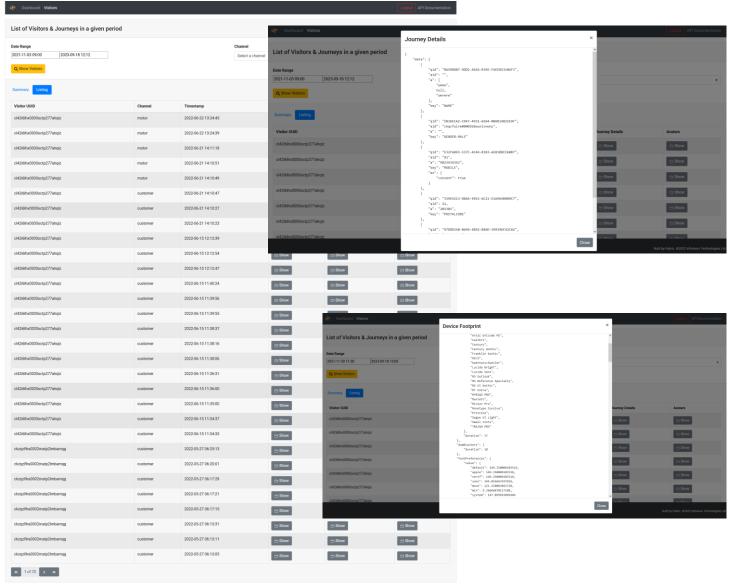




Visitors Tracking

Tracking the website and mobile application visitors is easy with Pylon. Just integrate Pylon SDK in your web or mobile asset, Pylon starts tracking both logged and anonymous visitors arriving in your application. In addition, the SDK also enables monitoring the journeys and escalates the dropped-off journeys to suitable applications and dashboards.







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Insurance Middleware

The business middleware subsystem enables the system to manage all the sell and purchase operations, leads and customers, journeys and forms, proposals and policies, payments and failures, the STP/NSTP workflows, and all the other insurance business functionalities.

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MOTOR	8510	Anshul Mittal	2023-07-19 16:16	2023-07-23 16:16	Quotation	4 Wheeler Private	₹8185				
HEALTH	29444	David Jones	2023-07-19 16:16	2023-07-23 16:16	Quotation	Flexi Health	₹ 8254				
MOTOR	25662	Nisha Srivastava	2023-07-19 16:16	2023-07-23 16:16	Policy	4 Wheeler Commercial	₹852				
MOTOR	53058	Darpan Bansal	2023-07-19 16:16	2023-07-23 16:16	Initial	2 Wheeler	₹ 7287				
MOTOR	16948	Aditya Kaushik	2023-07-19 16:16	2023-07-23 16:16	Quotation	Big Vehicle Dashboard Carts	₹ 543 Policies			Logout API Do	cumentat
TRAVEL	68617	Ankit Tiwari	2023-07-19 16:16	2023-07-23 16:16	Qu	st of Policies so	old per Channe	el & LOB in a given period			
HEALTH	16120	Prateek Sharma	2023-07-19 16:16	2023-07-23 16:16	Po	te Range		Channel		LOB	
MOTOR	46434	Vishal Jain	2023-07-19 16:16	2023-07-23 16:16	Qu 20	23-09-19 16:19 23-09-19 16:19		Select a channel	\$	Select a Line of Business	
« 1 of	157	»			C	Show Policies					
					SL	immary Listing					
					1,0	00	Partner - HEALTH	Customer - HEALTH Agent - MOTO	OR Partner - N	NOTOR Agent - HEALTH	
					8	00	/				
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Policies sold customer Agent Parts





Framework Overview

Pylon Architecture





High level logical model

Pylon middleware and the sub-systems are the supplier of all the functionalities and APIs exposed from the platform.

The front-end of Pylon is mainly of two types – Admin Panel and Developer Portal. And number of APIs are exposed from Pylon with JSON payload via REST APIs using which service accounts integrate with Pylon.

In the back-end, Pylon integrates with Insurance Company APIs, business PAS systems or any other service/data providers, legacy databases, Government systems and so on.







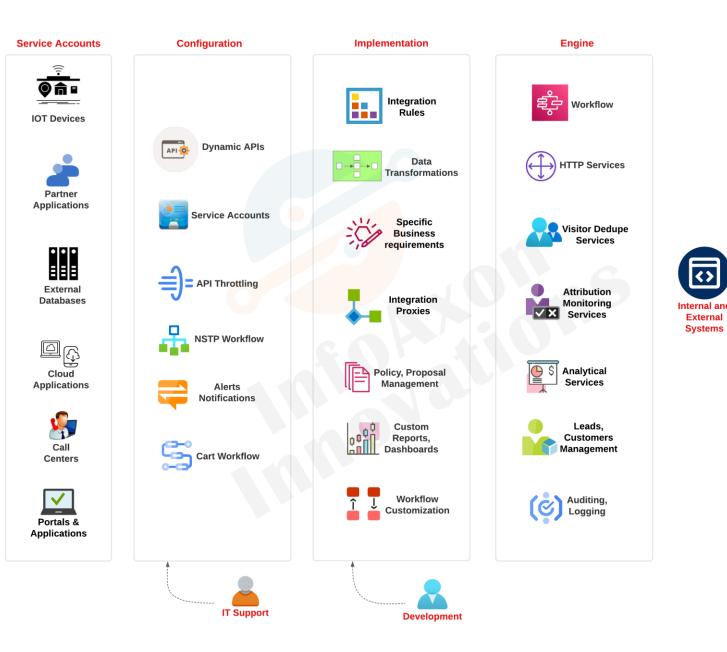
Application flow

Pylon engines invoke services from several internal & external systems. Along with managing other workflow functions.

Pylon development team is responsible for feature implementation in the framework.

IT support team manages the configurations of Pylon solution using Admin Panel and configurations.

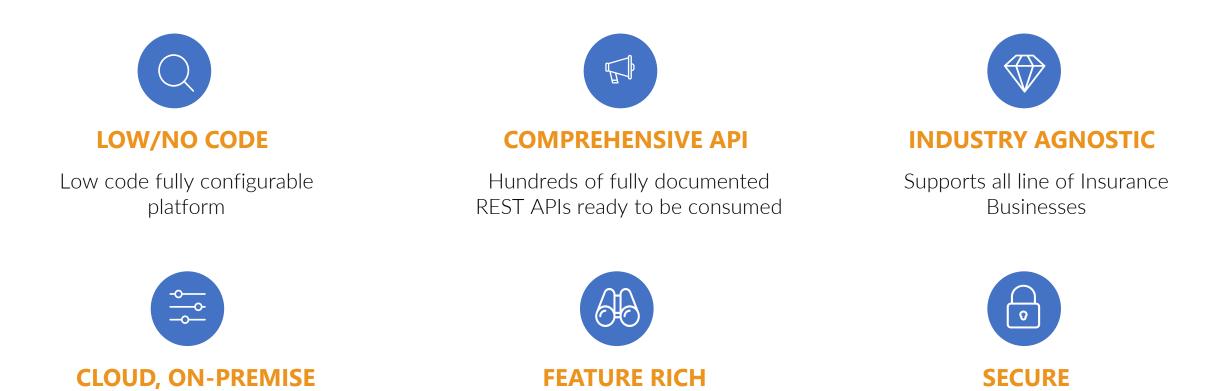
Finally, Service Accounts invoke the services from Pylon system.



PYLON 🥨



Flexible, Configurable, Scalable, Future Proof



Deploy anywhere using Kubernetes clusters

foAxon

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Industry leading features and

configurable functionalities



Full security and regulatory

compliance ready



Product Portfolio

Where We Stand

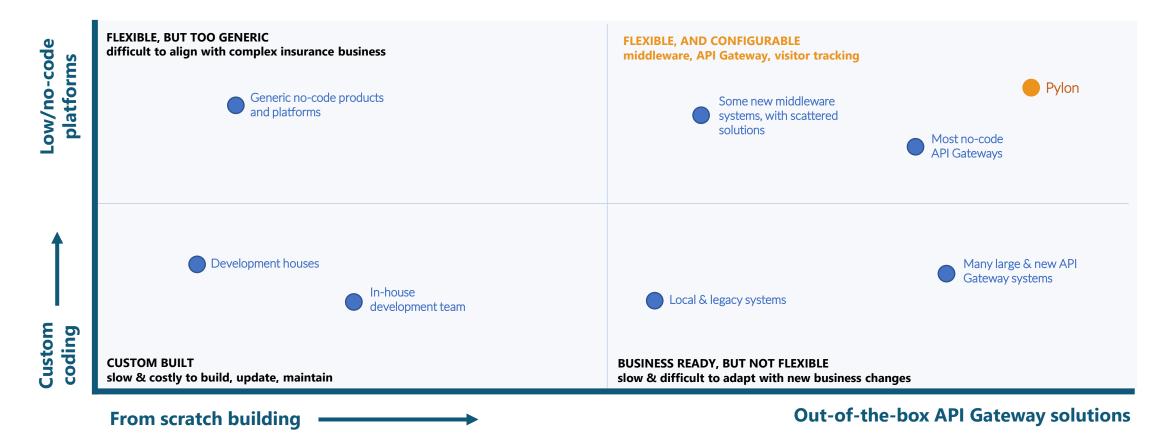






Competitive landscape

Unlike any of the existing products and platforms Pylon brings all the three most important middleware functionalities required for your insurance business in a single package.









Few of our esteemed and satisfied customers.



Chola MS has been using Pylon for managing al the integrations, journey tracking and insurance business middleware for their Health and Motor line businesses. Pylon has been delivering more than thousands of transactions per minute since last three years. Britam With you every step of the way

The prime insurance provider across several African countries, Britam, is managing all the external and integrations of the portal and mobile application using Pylon.



Pylon has been the business middleware, dropoff tracker and integration hub of Edelweiss digital channels since last two years.





for more information

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