



# Data Exchange Hub

- › Sovereign API gateway and governed data exchange for connected public sector entities across GCC/MENA.

## WHAT IT SOLVES

- › Governed data exchange across connected entities.
- › A sovereign API gateway that enables secure, standardised data sharing across agencies — without surrendering ownership or control.

## Features:



## Supporting Solution Signal:

- › API Requests
- › Connected Entities
- › Approved Access Flows
- › Audit Events

## Tags:

Data | Integration | Government | Azure | Sovereign





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# Data Exchange Hub.

Sovereign API gateway and governed data exchange for connected public sector entities across GCC/MENA.

DATA | INTEGRATION | GOVERNMENT | AZURE | SOVEREIGN

[www.applab.qa](http://www.applab.qa)



## WHY IT EXISTS

# Governed data exchange across connected entities.

Government entities and state-owned enterprises operate in silos. Data transfers are manual, ungoverned, and unauditible. The Data Exchange Hub provides a sovereign API gateway that enables secure, standardised data sharing across agencies - without surrendering ownership or control.

## PLATFORM CAPABILITIES

### SOVEREIGN API GATEWAY

Centralised, governed entry point for all cross-agency data exchange with policy-driven access control.

### END-TO-END ENCRYPTION

Data is encrypted in transit and at rest. Exchange flows are governed by access policies, authorization, and audit logging.

### REAL-TIME ANALYTICS

Live visibility into exchange activity, volumes, and anomalies across all connected entities.

### FULL AUDIT TRAILS

Every request, response, and access event is captured in audit-ready logs available for compliance review.

### INTEROPERABILITY

Standardised APIs eliminate point-to-point integrations and manual data transfers across agencies.

### IOT AND SMART CITY READY

Architecture supports real-time IoT endpoint data ingestion for smart infrastructure programmes.

# Three design choices that make this platform different

## SOVEREIGNTY

### Built for GCC/MENA Compliance

REGIONAL FIRST, NOT ADAPTED

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**Challenge:** Global API gateways require extensive customisation for GCC regulatory and data residency requirements.

**Our approach:** Arabic-first design, sovereign deployment on-premises or Azure, and GCC/MENA compliance built into the platform from day one.

## SIMPLICITY

### Reduces Integration Complexity

ONE HUB REPLACES MANY CONNECTIONS

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**Challenge:** Point-to-point integrations multiply with every new agency connection, creating fragile, costly, and un-auditable dependencies.

**Our approach:** A single governed hub replaces bilateral integrations - reducing IT complexity with one auditable control plane for all data exchange.

## INTELLIGENCE

### Governed Exchange with AI Visibility

INTEROPERABILITY FIRST, AI-ENHANCED

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**Challenge:** Traditional API gateways move data but provide no visibility into what flows, what anomalies exist, or how data is being used.

**Our approach:** Core value is governed, sovereign exchange. Azure AI adds semantic search and anomaly detection as an enhancement layer on top.

# A governed data platform built on Azure

API management - data integration - AI-enhanced visibility - enterprise security

1

## Azure API Management

Centralised gateway for publishing, securing, and monitoring APIs across all connected entities.

2

## Azure CosmosDB

Globally distributed, multi-model database for high-throughput, low-latency exchange workloads.

3

## Azure Databricks

Unified analytics and data engineering platform for large-scale data transformation and processing.

4

## Azure Function App

Event-driven serverless compute for automated data transformation and exchange orchestration.

5

## Azure AI Foundry

AI layer enabling semantic search and anomaly detection over governed exchange data.

6

## Azure Container Registry

Managed container image storage for consistent and secure service deployment.

7

## Azure AI Search

Vector-based semantic search across governed data assets and exchange records.

8

## Azure DevOps

CI/CD pipeline management for governed, repeatable deployments and change control.

# Deployed for Qatar's most connected agencies.

Built from production-proven integration components deployed across Qatar's public sector. Applab has connected national agencies, customs authorities, and trade entities through governed, auditable data exchange.

## PROVEN ACROSS SECTORS

### NATIONAL CUSTOMS AUTHORITY

Data exchange hub deployed for a national customs and border authority, enabling governed cross-agency data flows.

### NATIONAL TRADE MINISTRY

Governed API integration connecting trade and commerce data across ministerial systems and external stakeholders.

### NATIONAL ENERGY & INFRASTRUCTURE

Governed API front-door with self-service catalogue, DevSecOps pipelines, and full observability across integrations.

### 500+ PROJECTS DELIVERED

Applab has delivered over 500 digital projects for 170+ clients across Qatar, Kuwait, and the wider region.

### 7B+ USER INTERACTIONS

Applab-built systems have processed over 7 billion user interactions and 4 billion QAR in transaction value.

## OUR COMMITMENT

Built from production-proven integration components already deployed across Qatar's public sector.



## DEPLOYMENT AND BUYER FIT

# Built for sovereign governance.

Sovereign deployment on-premises or on Azure. Designed to keep data within your governance framework without surrendering interoperability.

### 01

#### IDEAL FOR

Government ministries, customs authorities, state-owned enterprises, and smart city programmes.

### 03

#### DEPLOYMENT MODEL

On-premises or customer-tenant deployment on Azure. Designed to support data residency requirements.

### 02

#### GEO AVAILABILITY

Qatar and Kuwait. Sovereign on-premises or Azure cloud deployment for any GCC/MENA jurisdiction.

### 04

#### INTEGRATION READY

Connects to existing ministerial systems, ERP platforms, and IoT endpoints via standard APIs.

Contact us to arrange a live demonstration.



# Start Your Digital TRANSFORMATION TODAY



## Locations

### Qatar

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