

Halal Traceability in Global Supply Chain Technology Innovations

Promoting Trust, Transparency and Compliance with Halal Standards



H2O
Halal 20
Indonesia
2024





The Importance of Halal Traceability

Halal Traceability

Ensuring that products meet the requirements of Islamic law from source to consumer -> including slaughter practices, ingredient sourcing and halal financing.

Increasing Global Demand for Halal Products and its role in the Global Economy

According to the State of the Global Islamic Economy Report by DinarStandard, the global halal economy was valued at approximately \$2.29 trillion in 2022, with significant contributions from sectors like halal food, Islamic finance, and lifestyle products. This market is expected to grow to around \$2.5 trillion by 2025 as these sectors continue to expand.



Current Issues in Ensuring Halal Compliance

Lack of Transparency

Traditional methods often lack transparency, often making it difficult to trace products back to their origin and verify compliance.

Complexity & Fraud

The complexity of global supply chains creates vulnerabilities of fraud and mislabeling, undermining consumer trust and market integrity.

Limited Traceability

Majority of the halal products lack comprehensive traceability systems making it difficult to track their journey from farm to table.

If any part of the Halal product is haram (e.g., the financing used to create the product is Haram) it will impact the whole Halal value chain.



Global Halal Market Is Underserved & Projected to Reach 4 Trillion by 2025

The Islamic Economy

\$2.4 trillion

Islamic economy expects that consumer spending on halal products around the world will reach \$2.4 trillion in 2024

Islamic Finance

2.8 trillion

Food & beverage sector, pharmaceuticals, medical, health and cosmetic preparations, travel, tourism

Global Halal Blockchain

Billions

Global Blockchain Halal COE is set to achieve valuation in the Billions by delivering innovative solutions across all these sectors

At Haqq we are creating a Global Halal Blockchain Center of Excellence

A blockchain solutions to enable the end to end Halal value cycle to be fully Halal, from sourcing produce, verifying the production, ensuring the financing used in all stages is Halal.

Community

R & D

Finance Payments



Certifications

Buyers Sellers

Logistics

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Blockchain Technology

Secure and transparent ledgers for recording halal certifications & tracking product movement

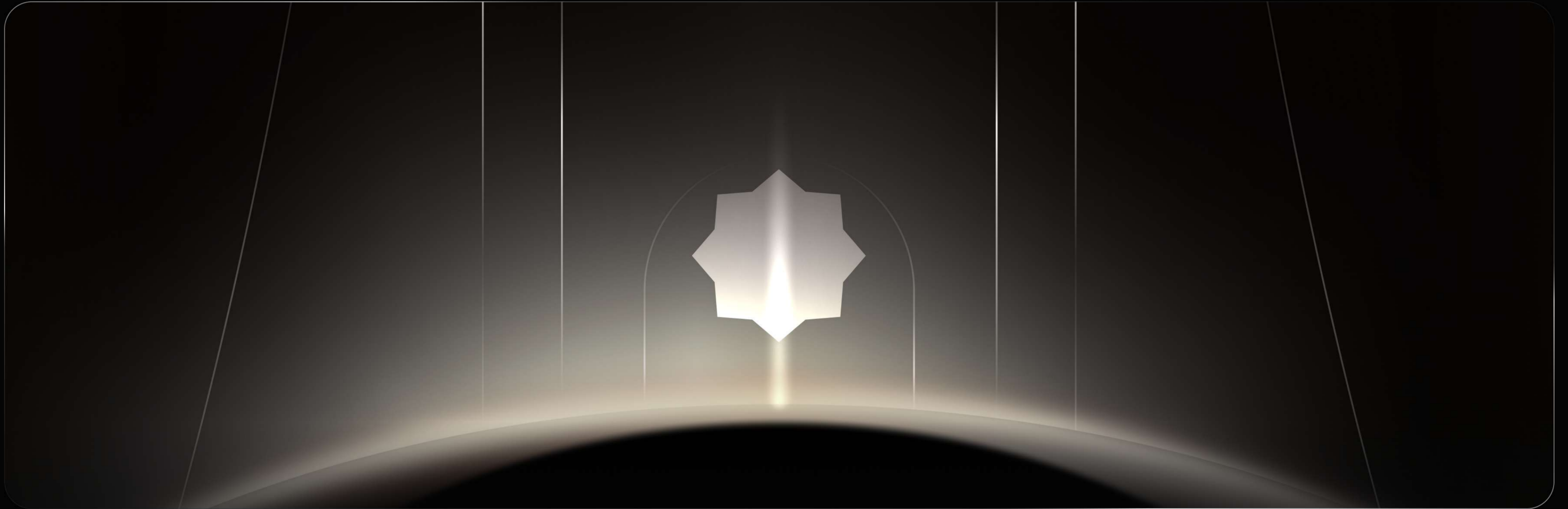
Internet of Things (IoT)

IoT devices can collect real-time data on product conditions, animal welfare, and production processes

Artificial intelligence (AI)

AI can automate tasks like halal slaughtering verification, improving efficiency and accuracy

Our Product



 HAQQ

 ISLM



The Process: Halal trade finance and production certification



Halal Slaughter
& AI Verification



Halal Certification
of Livestock



Halal Packaging
& Shipping



Sharia Financing
for Livestock

Digital Solution



1.1 The dashboard provides a central viewpoint identifying the company's inventory and tracked items

Global Inventory Overview

Inbound

Subscribed: 0 Items

Pending: 0 Items

Our Inventory: 342 Items, 15 Groups

Outbound

Global Inventory: 47 Items

Tracked: 387 Items

Data Interchange Messages

Incoming messages: 11

Outgoing messages: 12

Recent Events

- 30.09.2024 20:17: Add Temperature to Mina Halal Boneless Skinless Chicken Breast
- 30.09.2024 20:17: Add Temperature to Mina Halal Boneless Skinless Chicken Breast
- 30.09.2024 20:16: Add Temperature to Mina Halal Boneless Skinless Chicken Breast
- 30.09.2024 20:16: Add Temperature to Mina Halal Boneless Skinless Chicken Breast
- 30.09.2024 20:16: Add Temperature to Mina Halal Boneless Skinless Chicken Breast

1.2 Inventory list shows a list of items that are being tracked

Inventory list:

Companya

Inventory Management - Local Items

Sort	Name	Date	Creator	Category	Tags	Txid	DNA	Data	Consumed Items	Actions
	Mina Halal Boneless Skinless Chicken Breast	73e76	30.09.2024 19:58	companya@unisot.io						[Icons]
	Extra Virgin Olive Oil	7500f	10.09.2024 10:19	companya@unisot.io						[Icons]
	Extra Virgin Olive Oil	767fc	26.08.2024 15:13	companya@unisot.io						[Icons]
	Extra Virgin Olive Oil	767fc	26.08.2024 15:13	companya@unisot.io						[Icons]
	Polymer	f9e2b	17.07.2024 11:00	companya@unisot.io						[Icons]
	Piglet	bc254	15.07.2024 14:17	companya@unisot.io						[Icons]

Digital Solution



1.3 The item data shows the data that is stored within for the item as well ad add provide options to add data.

Item Data

Inventory Management - Local Items

+ Add Data

Attachments

MAJELIS ULAMA L.

Created At	Data structure	Value	Creator	Category
▶ 30.09.2024 20:17	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:17	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:16	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:16	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:16	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:15	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:15	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:15	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:15	Temperature	custom	companya@unisot.id	Attributes
▶ 30.09.2024 20:14	Energy	custom	companya@unisot.id	Sustainability
▶ 30.09.2024 20:09	Image	{"fileName":"halal-certificated4...	companya@unisot.id	Branding
▶ 30.09.2024 20:08	File Upload	{"fileName":"MAJELIS ULAMA L.	companya@unisot.id	Certificates
▶ 30.09.2024 20:08	Location	{"type":"GeoJSON","payload":{"t...	companya@unisot.id	Traceability
▶ 30.09.2024 20:07	Location	{"type":"GeoJSON","payload":{"t...	companya@unisot.id	Traceability

The digital product passport



1.4 The Unisot Product passport shows the product and the relevant data for better transparency

Digital Product Passport

Mina Halal Boneless Skinless Chicken Breast

Serve your family and friends delicious halal chicken with Mina® Halal Boneless Skinless Chicken Breasts. The halal chicken breasts come from chickens that are Zabeeha by hand to ensure humane treatment, vegetable grain-fed, and humanely raised on Canadian farms. The fresh, raw chicken breasts have been chilled with air, not water, to hold the chicken's natural flavour and keep it tender and juicy. These

Attributes

Temperature effective...
5.5 °C

Temperature in celsius

Time	Temperature (°C)
18:15:30	5.0
18:16:00	5.6
18:16:30	6.0
18:17:00	5.5

1.5 Track and Trace system allows the user to track the item geographically and the certificate section shows the the stored Halal certification

Track & Trace

Track & Trace Certificates

Certificates

MAJELIS ULAMA INDONESIA HALAL CERT...
1.1 MB



favourite dishes



- RAISED IN CANADA: Our halal chicken is humanely raised on Canadian farms and fed a wholesome diet of vegetable grain
- ZABEEHA BY HAND: Chicken is Zabeeha by hand to ensure humane treatment
- AIR-CHILLED CHICKEN BREASTS: Chilled with air to hold chicken's natural flavour and keep meat tender and juicy
- COOK WITH CONFIDENCE: Certified by the Halal Monitoring Authority, Mina® brand strictly adheres to the most stringent halal process so our customers can cook with confidence



Examples of Real Halal Certificates On Chain


- Here we see a number of real halal certificates on the chain.
- Every certificate has attributes attached to it.
- BPJPH would directly issue these on chain to act as the verified source of trust for the information.

BPJPH HALAL certificate ERC-721


BPJPH Certificates (BPJPHC)   bpjph.halal.go.id

Owner  0x284cc50eb6C93c55BA4963D0dC5097C54db71580 

Creator  0x284cc50eb6C93c55BA4963D0dC5097C54db71580 

Token ID 1 

Transfers 1





Name BPJPH HALAL certificate



Description Badan Penyelenggara Jaminan Produk Halal Certificate



Attributes


Certificate number	Issue Date	Country of origin	Country of destination	Transport
IDAABBB000012...	2024-05-01	Indonesia	Netherlands	Sea

BPJPH HALAL certificate ERC-721


BPJPH Certificates (BPJPHC)   bpjph.halal.go.id

Owner  0x284cc50eb6C93c55BA4963D0dC5097C54db71580 

Creator  0x284cc50eb6C93c55BA4963D0dC5097C54db71580 

Token ID 19 

Transfers 1



Join us in building the future of halal traceability

Our vision is to become the leading Web3 ecosystem for the global Muslim community over the next decade, onboarding 2 billion users.

