## Trade Facilitation using Blockchain Technology – Building Trust and Transparency





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# Agenda

→ IBM Engagement with ADB on Trade Facilitation for Govt. of Maldives

- ---> Fundamentals of Blockchain Technology
- ---> High Level Blockchain Use Cases on Trade Facilitation
- ---> Key Recommendations to Blockchain Adoption in
  - **Customs Administration**
- ---> Blockchain Pilot Implementation on Trade Facilitation

for Govt. of Maldives



## IBM Engagement with ADB on Trade Facilitation for Govt. of Maldives



## IBM-ADB Engagement on Govt. of Maldives on NSW Initiative

## IBM conducted Blockchain feasibility assessment on Maldives Trade Processes in March, April 2019:

- Blockchain use cases with suitable value drivers were proposed basis understanding of the pain areas in international trade processes in Maldives
- The envisioned Blockchain solution was proposed to facilitate seamless exchange of information among various participants, government and private entities alike, including cross border exchange of data between government agencies.
- A high-level roadmap for implementation of the Blockchain technology as NSW backbone was chalked out.

#### IBM built the Blockchain pilot platform for Maldives Sea Import Trade Process in 2020-21 & 2022-23:

- Under ADB's NSW initiative in mid 2019 IBM proposed to build a pilot Blockchain platform for Maldives import trade process to address their then current problems in domestic and cross border trade
- Between Sept 2020 and June 2023, in 2 phases, IBM developed the Blockchain pilot platform under this NSW initiative for Maldives import trade processes.

## Feasibility study findings led to proposal of a Single Integrated Blockchain Trade Platform

#	Pain Points	Importer	Exporter	Customs	Customs Broker	Ports	Airports	Shipping Agent	Freight Forwarders	Banks	Insurance	Regulators/ CBRA's
1	Risk of trade document fraud	*		*								*
2	Multiple accounts lock-in	*	*		*			*				
3	Process Duplication	*	*	*	*	*	*	*	*			*
4	Compliance Enforcement			*								*
5	Cross Border Collaboration			*		*	*			*	*	
6	Trust & Reliability	*	*	*	*	*	*	*	*	*	*	*
7	Standardization	*	*	*	*	*	*	*	*	*	*	*
8	Security & Privacy			*		*				*	*	*
9	Process Transparency	*	*	*	*	*	*	*	*	*	*	*
10	Manual Payments	*	*		*	*	*	*		*		*

Primary Design Considerations for the Blockchain Platform were:

- Process and data standardization to eliminate redundancies and reduce opacity of the process
- Single source of truth at any point of time
- Process and system ownership with government agencies to ensure credibility of the system and reinforce trust amongst stakeholders
- Single window system for all interaction between all stakeholders – state agencies, private organizations, brokers and individuals
- Customer centric design
- **Digital payments and smart digital contracts** as key catalysts for domestic and regional trade facilitation.



## **Fundamentals of Blockchain Technology**

### **Fundamentals of Blockchain Technology**

#### A shared, replicated, permissioned ledger ...

**Agent/Freight Forwarders** Port **Services Blockchain** Customs **Customs** Importers **Brokers Services** 

**Private Players - Shipping Agent/Line** 

**Financial** Institutions /Banks

**Blockchain** follows the concept of distributed database deployed across **a network** 

... with consensus, provenance, immutability and finality



### **Requirements of Blockchain for Business**





## The business network decides what to share on the ledger...

- **Assets** anything of value
- **Transactions** that change state of an asset and are recorded on the blockchain
- Transactions underpinned by **smart contracts**

**Identity** - knowing who you're dealing with, Identity allows transactions to be signed and encrypted

**Transaction Endorsement -** Provable endorsement by relevant participants

**Privacy and Confidentiality-** mechanism to make the blockchain private and confidential

are generally permissioned, private and prioritized with smaller no. of participants

### **Key Value Drivers of the Blockchain Network**



- □ Eliminates silos, **creates single source of truth**
- Supports data encryption and permission settings for network members, hence tamper proof system
- Provides trust in source and provenance of who did what when
- □ Enforces consistent process reducing risk and ensuring compliance
- Network partners collaborate with increased trust through shared process and record keeping
- □ No single point of failure, higher levels of availability, highly scalable, Easy to integrate
- With off chain DB facility capability for Cognitive Analytics



## High Level Blockchain Use Cases

on

### **Trade Facilitation**

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### **High Level Blockchain Use Cases of Trade Facilitation**



#	Use-case Title	Use-case Description
1	Single platform for digital trade document exchange with end-to-end visibility into trade process	<ul> <li>Single platform for trade registrations &amp; certifications, trade document exchange, common payments for trade, goods clearance and cross border trade collaboration.</li> <li>Common platform for all trade network participants - Customs, Port, Air Cargo, Consignee, Customs Broker, logistics players to interact with each other.</li> <li>Improved risk management. Invoices, PO and other price determination documents can be traced back to its source, reducing chances of document fraud improving confidence in the system.</li> <li>Single version of truth of all trade documents like MBL, HBL, Manifest, Packing List, etc. the moment it gets uploaded/generated onto the network and gets available to all different agencies.</li> <li>Cross border collaboration between government agencies and port/airport operators.</li> </ul>
2	Single platform for import permit processing and issue	<ul> <li>End-to-end transparent process for issuance of digital permits from multiple government agencies - MED, MCS, MFMRA, MFDA, MoD.</li> <li>Improved process level transparency, reduce cross collaboration with seamless workflow between multiple govt agencies along with automated payments mechanism.</li> </ul>
(1)	Single platform for CBRA's- clearance of goods	<ul> <li>Delivery Order issuance by CBRA at the point of physical inspection can be inputted directly to the distributed ledger which can be viewed by other CBRA's, MPL/MACL, eliminating physical stamping at gate pass process.</li> </ul>
4	Online payments, single payments account, improved working capital.	<ul> <li>Near real time/real time settlement of accounts between the participating bank, Customs/Port and the customer (trader, shipping agent, customs broker, etc.) using the Payment Gateway for online banking</li> <li>Ready availability of payment reconciliation reports at any point of time</li> </ul>
5	Single platform for export permits and certifications	<ul> <li>Issuance of export permits and certifications on one single platform where applicant can apply and pay the fee only one time.</li> <li>Certificates like catch certificate and health certificate issued by MFMRA &amp; MFDA can be processed with proper workflow automation for inter-organization or intra- organization collaboration on the platform eliminating multiple visits to the concerned offices.</li> </ul>

#### **Future State with Blockchain Technology for Trade Facilitation**





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## Key Recommendations to Blockchain Adoption in Customs Administration

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#### \* Making Blockchain as the National Single Window backbone for both domestic and cross-border trade:

Blockchain is a distributed network platform offering a single digital workflow across domestic organizations and network cross-border agencies. It can seamlessly integrate with existing NSW architectures across multiple countries providing a common platform to share data & documents and transact through its in-built ledger movements.

Key features of a Blockchain network to be the backbone for multiple NSW networks across different countries :-

- It does not disrupt the national single window architecture or any other domestic systems or processes that may be required to integrate with the backbone
- Supports API endpoints for easy integration, also supports file-based data transfers
- Offers superior performance and data security. Blockchain, with redundant node architecture, offers high fault tolerance with superior system durability and availability.
- It is future proof. Blockchain offers improved levels of network automation, immutability, and scalability features.
- It improves overall trust in the system. Blockchain as an NSW backbone improves overall trust and transparency in the international trade ecosystem.
- Seamless onboarding onto the network. Cross border participants from Southeast Asian countries can join the network seamlessly, without any friction arising from cross-border exchange of data.

### Key Recommendations to Blockchain Adoption in Customs Administration

- Scaling up the Blockchain network to integrate with additional touch points for mobile interfacing, insurance processing, cross border payments, contact center, helpdesk, value added analytical reporting, advance search capabilities, GenAI Chat BOT facility...etc
- Adding more network players onto the Blockchain network like CBRAs, MACL, Cross border customs, Global insurers



Integrations with legacy systems



## Blockchain Pilot Implementation on Trade Facilitation for Govt. of Maldives

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## Blockchain Pilot Trade Import Platform Implemented for Govt of Maldives



### **Key Functionalities - Blockchain Pilot Trade Import Platform**





- **Import Declaration**
- Importer and Customs Broker to create new, view and modify existing import declarations before assessment, make online import duty payments against a declaration.
- MCS to register, view, raise clarification, assess, post-entry modification (amendment after assessment)
- Receive online duty payments

#### Overall Architecture, Technical Components & Network Details of Blockchain Pilot Trade Import Platform

**Database server** 

**Smart Contract** 

**Identity Server** 

UI

API

postgres:12.4

Angular 10

Keycloak

**GOLANG 1.14.9** 

**GOLANG 1.14.9 with gin framework** 





#### 2 Channels:

- reference data assets
- trade data assets e.g., Arrival notice, manifest, DO, Gate-pass etc.

#### **2 Smart Contracts:**

- Reference data management
- Trade data management

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### **Key Pointers to Implementation Success of Blockchain Technology**



**Higher no. of use cases for domestic & cross border trade with many network participants -** to make the trade platform cost effective by on-boarding many participants onto the network, serving not only trade within its geographical boundaries but also onboarding other countries for cross border trade.

## Scaling up cloud infrastructure to maintain platform speed and performance for increased transactions on the network

**High implementation cost -** Blockchain is costlier compared to traditional database, even when Hyperledger is an open source, it requires enough investment to pursue a Blockchain initiative.

**High storage cost -** Blockchain databases are stored permanently on all network nodes. As the volume of transactions increase, so does the size of its state databases and Blockchain ledgers become extremely bulky over time. Hence voluminous storage is required amounting to higher storage cost.

**Capacity building to manage Blockchain technology -** requires specific skills to build and maintain the network and to run it for ongoing use and on-boarding more participants. Hence skilled resources with technical expertise and business understanding are required for integrating Blockchain into processes.



#### **Pilot Home Page**



#### **User Login Page**



#### **User On-boarding & Registration Page**

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#### **Create Arrival Notice screen**

chain Trade Platform			Hello Bloodstone SA Admin 🧔 😂
Agent Details			
Agent Name*	Agent Registration No*	Email Address*	Agent Fax Number
Bloodstone SA Admin	C04212022	bloodstonesaadmin@gmail.co	
Agent Contact No. Telephone	Agent Contact No. Mobile* 4567898754		
Vessel Details			
Name of the Vessel	Vessel Type	Voyage Number	Registration Number
SALSA	Cargo	VY100601	3034
Gross Tonnage	Air Draft	Call Sign	Net Tonnage
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	Armenia	87	65

#### Multiple MBL Upload using Excel facility

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	SALSA	VY25052302	Austria	IDSUB	MVMLE	27-05-2023, 11:00	27-05-2023 01:00	27-05-2023 06:00	8	8	20	Pending F
AN627484					MVMLE	26-05-2023, 19:49	26-05-2023 09:49	26-05-2023 14:49	8	8	11.5	Completed Hi
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## Create Master Delivery Order by Shipping Agent/Line Agent

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		Payor No.	ffadmin3				issuing Delivery Order, under regulatory jurisdiction of country of Maldives. I also	
		Payor Email	majumder.sus	mita⊜gmaiLcom			have uploaded pdf version of mandatory documents as Delivery Order and Invoice.	
		Total inc. Tax (MVR)	8737				Cancel Submit	

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	Create House	Delivery Order					×	
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VY100601	FF Admin2	FP GROUP	PRIVATE LIMITED	ASIA FOR	WARDING (THAILAND)	LTD.		
House Bill of Lading No.	HBL No:	H10060201	Origin / port of loading:	MVMLE	Arrival date:	10-06-2023	Upload Additional Documents	Action
H10060201	Vessel Name:	SALSA	Voyage Number:	VY100601	Container Number:	C10060201		Create House Delivery Order
H10060202	CBM:	10	Gross Weight:	10	Number of	10		Create House Delivery Order
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00 No.	MBOL No.	MDO Expiry	Vessel Name	Voyage No.	Arrival Date/Time	Origin / Port of Loading	Freight Forwarder Name	No. Of Packages	MDO Amount (MVR)	Payment Status	Mode of Payment	MBL Status	MDO Status	Action	F	MD Ext Sta
Q: 3579834735	M125	06-06-2025	SALSA	vy29052501	30-05-2023,	MVMLE	FF Admin2	10	1254	Done	Credit	Original Bi	Pending Payment Approval	Approve Peyment		
Q), 2348883123	M100602	30-06-2023	SALSA	VY100601	10-06-2025	MVMLE	FF Adming	20	8737	Done	Cash	Surrender *	MDO Released	Download M	00	
D-	M100601	16-06-2023	BALBA	VV100601	10-06-2023,	MVMLE	FF Admin2	10	1234	Done	Cash	Surrender	MDC Released	Download M	29 A	.pr
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## List House Delivery Orders released to Consignee

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Blockchain T	rade Pla	tform									H	lello FF Admin2	
						Search By	Select Tab	•					
Arrival Notice	•	Payments	Master Delivery 0	rd <del>er</del> House I	Delivery Order	User Onboardi	ng						
IDO No.	Name	Voyage No.	Arrival Date/Time	Origin / Port of Loading	Consignee Name	No. Of Packages	HDO Amount (MVR)	Consignee Payment Status	Payment Mode	HBL Status	HDO Status	Action	HDO Expiry Extension Status
1 <u>0-</u> 80682684745		VY100601	10-06-2023, 21:29	MVMLE	FP GROUP PRIVATE LIMITED	10	8765	Done	Cash	Update Surrender •	HDO Released	Download HDO	
<u>0-</u> 78620664202		VY100601	10-06-2023, 21:29	MVMLE	FP GROUP PRIVATE LIMITED	10	1250	Pending		Update Original Bi	DO Expired		Extension Requested
		vy29082301	30-05-2023, 00:22	MVMLE	FP GROUP PRIVATE LIMITED	20	0	Pending		Update Original Bi •	DO Expired		
<u>0-</u> 65005946226		V0Y14032302	14-03-2023, 18:30	MVMLE	MALDIVEST PRIVATE LIMITED	999	110	Pending		Update Original Bi •	Pending Payment with Consignee		
								1-4 of 4	< >				
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# THANK YOU