ITU FG DLT Meeting Memorandum of Information

Multiledgers

August 2019

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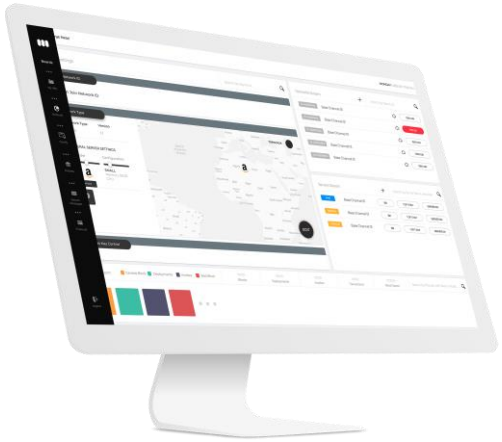
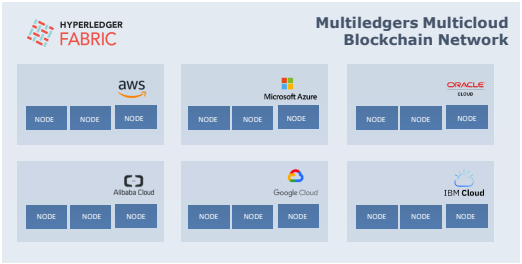
Section 1 Summary

Platform summary



Easy deploy and manage networks in multicloud environment

- **Infrastructure as a service (IaaS)** (Ali Cloud, AWS, Microsoft Azure, IBM Cloud, Google Cloud, Oracle Cloud, and more to come)
- **Blockchain as a Service (BaaS)** (Corda, Hyperledger, Quorum and more to come)
- **Platform as a Service (PaaS)** (Deploy and manager networks, audit smart contracts, deploy and manage smart contracts, join Network Process, and more to came)
- **Governance as a Service** (HSM, KYC, Users Private Networks, Networks Operated By Multiledgers and more to come)



corda
HYPERLEDGER
Quorum

CHAINSECURITY
interxion
bigdatacorp.

Microsoft Azure
ORACLE CLOUD
Alibaba Cloud
Google Cloud
IBM Cloud
aws

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Section 2 Governance

Platform governance

Multiledgers Network	Private blockchain network operated by Multiledgers with possible deploy of nodes by users
Networks created and operated by Multiledges	Models established according to the use of the network
Networks created and operated by users using the Multiledgers platform	Different types of integrated blockchain technology enabling many governance architectures

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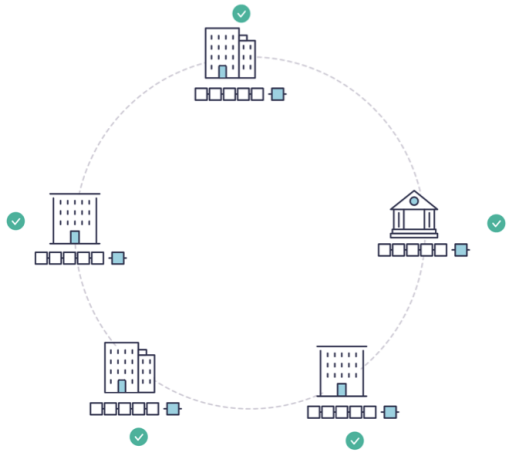
Section 3 Trust Endorsement Policy

Platform trust Endorsement Policy



corda HYPERLEDGER Quorum

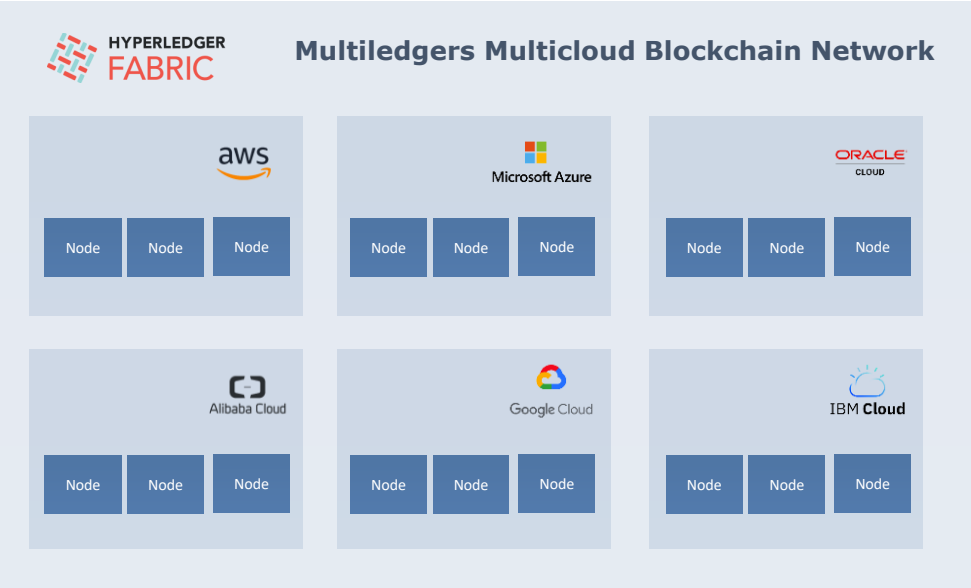
Different types of integrated blockchain technology enabling many types of endorsement policys

Agreement

Tokenomics

Section 4 Network Hypothesis

Platform Network Hypothesis



Nodes distributed in different public clouds using Byzantine fault tolerance

Distributed architecture with no point of failure

Each user has a separate Fabric architecture channel that enables scalability on demand

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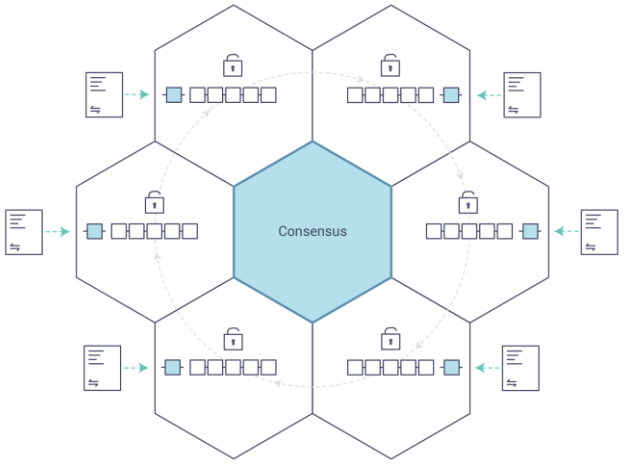
Section 5 Consensus Mechanism

Platform consensus mechanism



corda HYPERLEDGER Quorum

Different types of integrated blockchain technology enabling many types of consensus that in some cases can be plug and play

The networks created by Multiledgers generally do not use PoW but with the ability to connect to public blockchain networks the platform also uses this type of consensus

BFT Smart

PoET

Sumeragi

Kafka

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Section 6 Ledger

Platform Ledger

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Different types of integrated blockchain technology enabling many types ledger structures

Merkle-Patricia tree (MPT)

Unspent Transaction Output (UTXO)

Account / Balance

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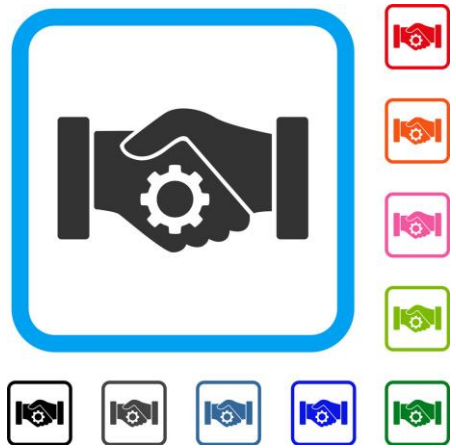
Section 7 Smart Contract Mechanism

Platform smart contract mechanism



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Different types of integrated blockchain technology enabling many types of smart contracts

Fabric Chaincode

Corda CorDapp

Ethereum Smart Contract

Section 8 Data Protection - Core

Platform data protection - core

All requests made by the platform are operated by smart contract and stored in the ledger

Complete knowledge of the activities of the platform on-chain

Segregated channel of information by user

Possibility of node deploy by the user to guarantee data quality

Zero proof knowledge data storage

Encrypted ledger content

Key information encrypted on smart contract

Section 9 Data Protection - Application Service

Platform data protection - application service

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Different types of integrated blockchain technology enabling the use of leading edge technologies for data privacy solutions

Zero knowledge proof

Multi-party computing

Section 10 Account Management - Core

Platform account management - core

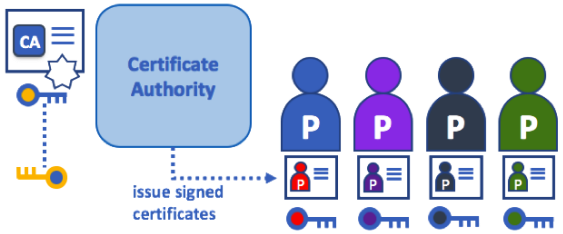
Information packages (name, address, identity) for different platform access levels

Know your customer and employees enriched by big data with proven query by ledger

Sharing of information in necessary processes authorized by the user

Section 11 Account Management - Application Servive

Platform account management - application servive



Individual digital certificates per user for a non-disputed environment

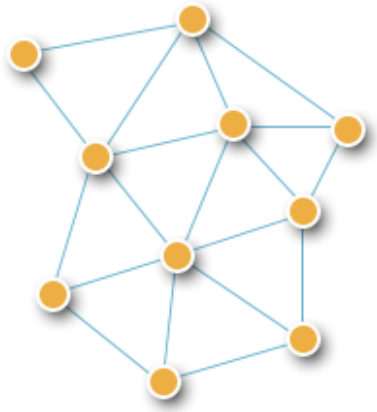
Access control for the platform

Access control for different platform levels

Accounting of all requests made on the platform in ledger

Section 12 System Management - Node

Platform system management - node



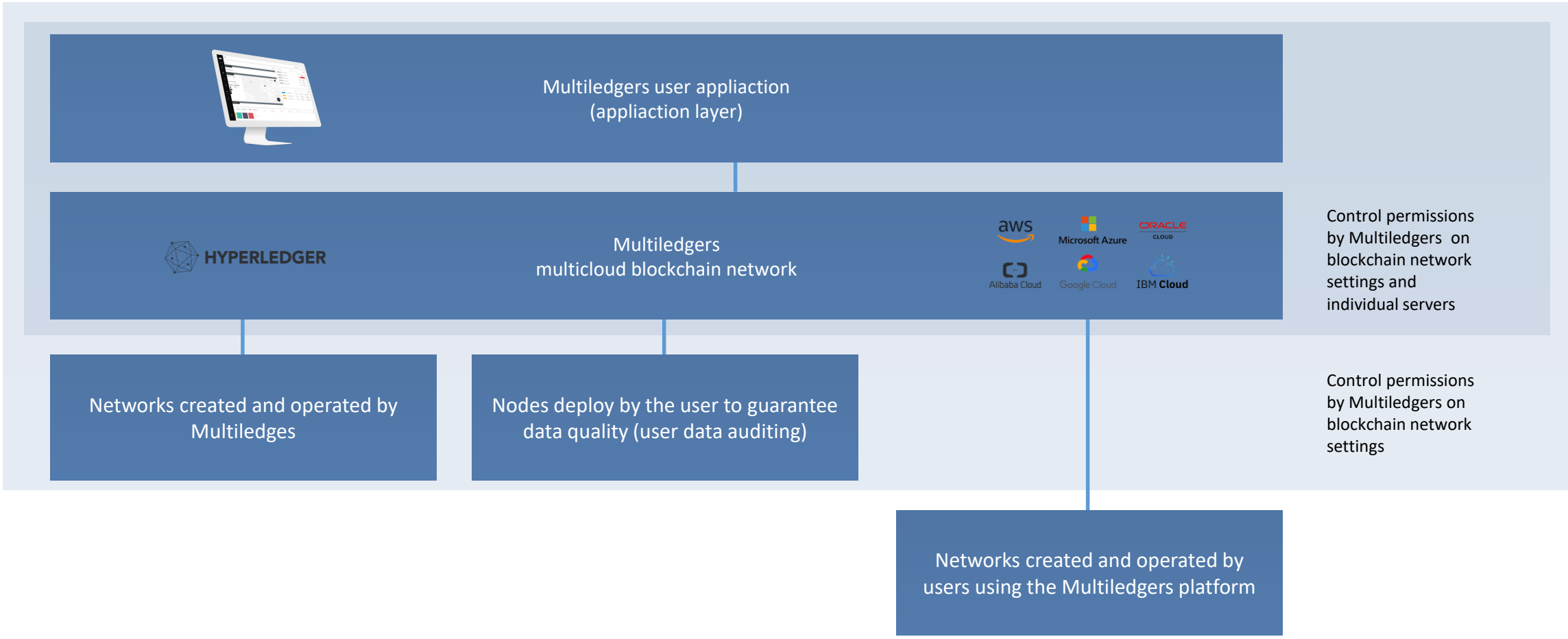
Any node can be used to manage the system

Distributed architecture with no point of failure

Graphical tool for monitoring and logging stored on ledger

Section 13 System Management - Chain Network

Platform system management – chain network



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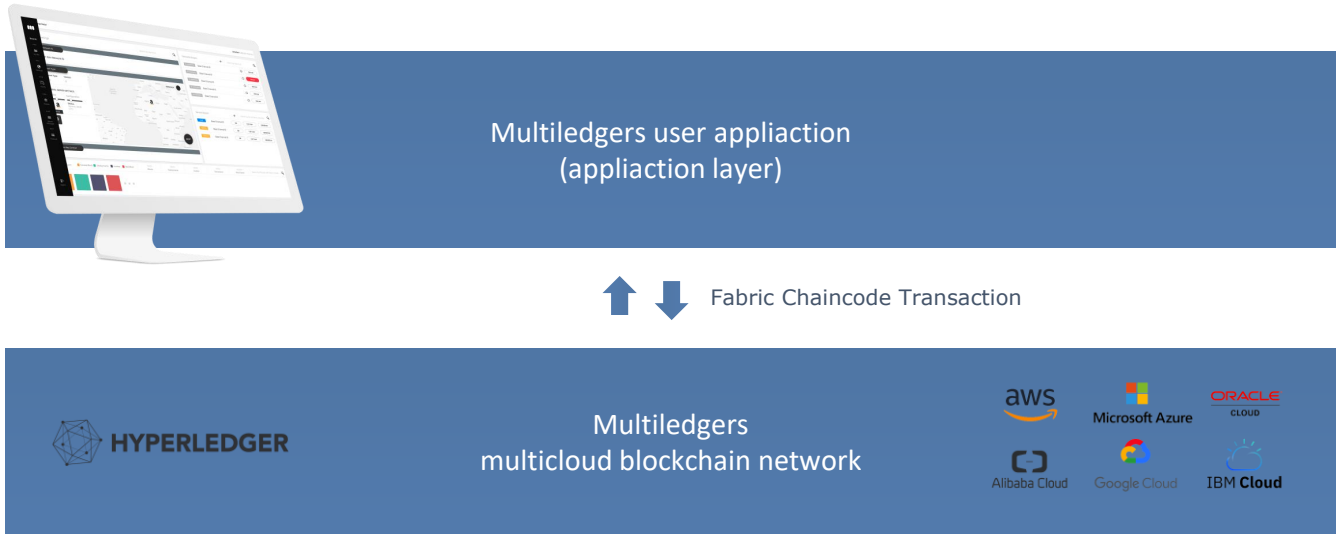
Section 14 External Data Exchange - Core

Platform external data exchange - Core



Highly secure and easy to use desktop and servers base application (C#)

First Multicloud Blockchain as a Service (BaaS) Platform managed by smart contract

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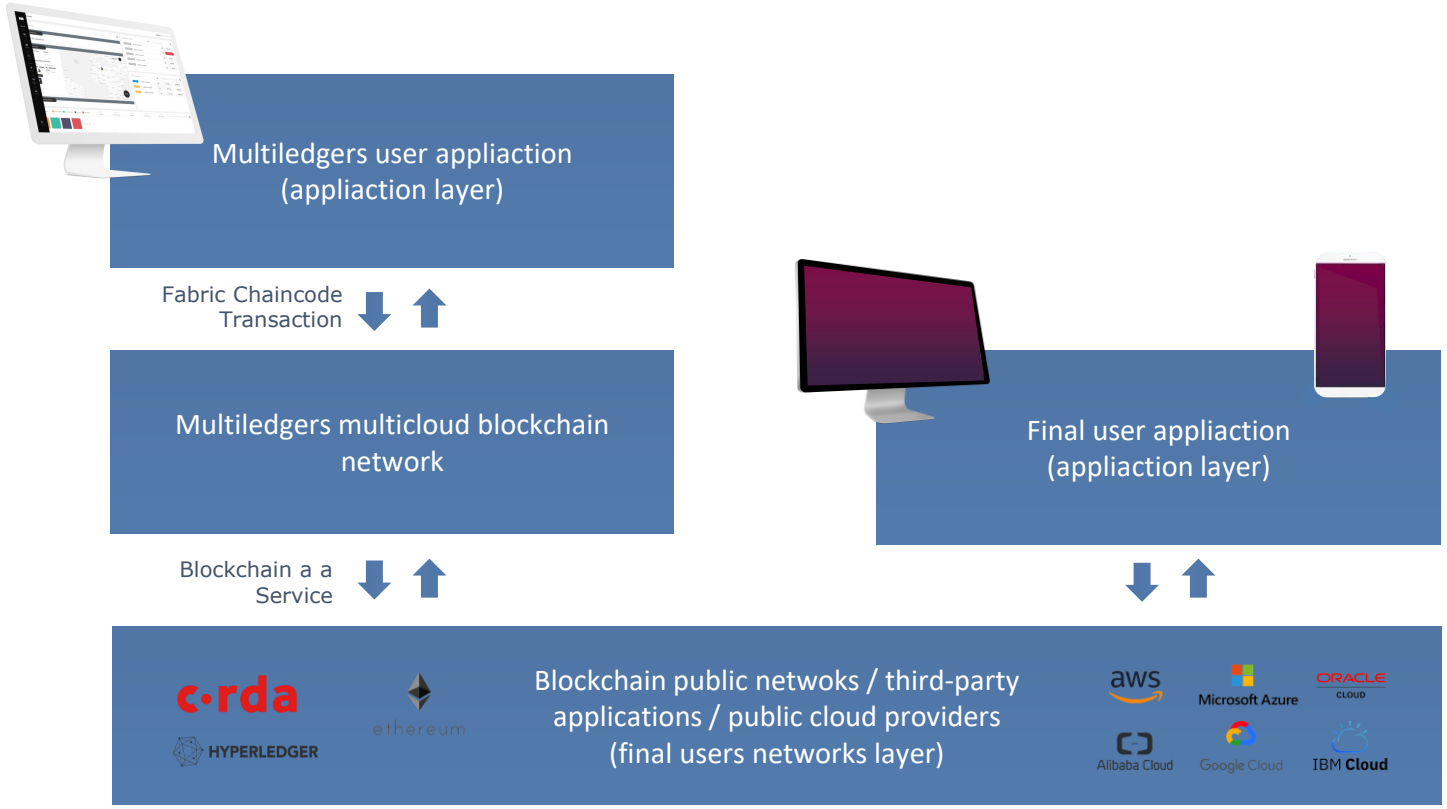
Section 15 External Data Exchange - Application Sevice

Platform external data exchange - application sevice



Highly secure and easy to use desktop and servers base application (C#)

First Multicloud Blockchain as a Service (BaaS) Platform managed by smart contract

The power of interoperability to build networks in a way never seen before

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Section 16 Extensions - Core

Platform extensions - core

Fabric Chaincode

Cross chain support among all types of blockchain operated by Multiledgers

Send commands between different networks to control your topology and your operational settings

Section 17 Extensions - Aplications Services

Platform extensions – aplication service

Smart Contract Dev Support

Smart contracts templates store

Smart contracts code editor

Smat contracts deploy utility

Smat contracts audit tool utility

Extra Tools

Block Explorer and Data Viewer

Governance for on boarding of new organizations in a network

Financial management of public clouds

Encrypted messages for communication between users

Autonomous configuration actions

Services available through the network distributed in different public clouds without a single point of failure

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Section 18 Interoperability

Platform extensions - core

"Ability of a system to work with or use the parts or equipment of another system"
Merriam Webster

Interoperability between cloud infrastructures

Integration with multiple cloud providers provides easier infrastructure portability by avoiding vendor lock-in and providing operational or financial optimizations

Interoperability of management between frameworks

Using the Hyperledger Fabric framework to control different frameworks provides a favorable governance environment and robustness across multiple infrastructures

Interoperability of assets between frameworks

Multiledger's utility token for contracting cloud services from multiple cloud providers can also be used as a form of payment for services within different networks managed by Multiledgers using different blockchain frameworks

Appendices

Important Informations

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Thank you!

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