




RAPIDQUBE

TRANSFORMING BUSINESS PARADIGMS



Trustworthy user authentication, authorization, data integrity AND consent management

IDENTITY AND ACCESS MANAGEMENT
SOLUTION

IDENTITY AND ACCESS MANAGEMENT (IAM)

Manage enterprise and customer data in a reliable manner

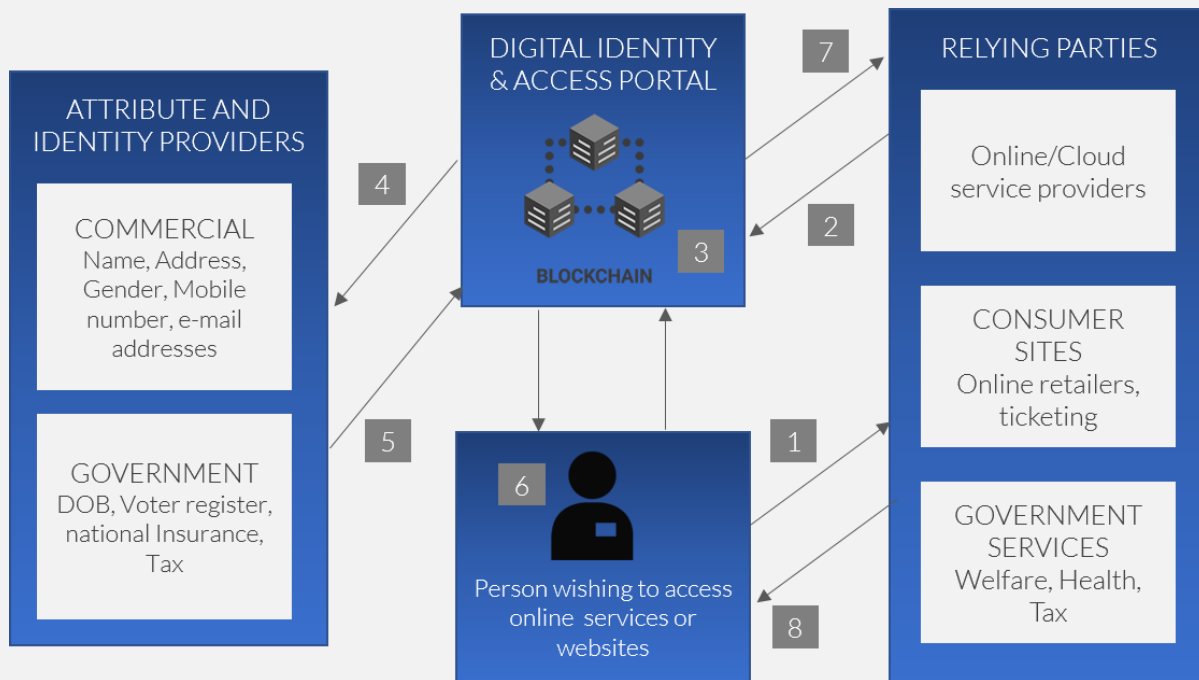
- The platform leverages decentralized ledger technology to enable users to control their own data without third-party involvement
- Provides immutability and trust, and increased privacy protection
- Provides full transparency to the individual data owner and complete encrypted security

DECENTRALIZED
IDENTITIES

ZERO
TRUST DATA STORES



SOLUTION ARCHITECTURE



Trustworthy user authentication, authorization, data integrity and consent management

CHALLENGES

Most recent conventional identity systems are costly and hinder the innovation and greater customer experience

The idea of digital identity has been evolving for a few decades now, from centralized identities to federated identities to user-centric identities to self-sovereign identities

SOLUTION

As a decentralized public ledger, blockchain enables users to control their own data without third-party involvement

Smart contracts to determine unauthorized access, disclosure and leak of information

RESULTS

Blockchain and digital identity introduce a new system for preserving people's credentials for their public services

IDENTITY AND ACCESS MANAGEMENT

CONTEXT

STATE

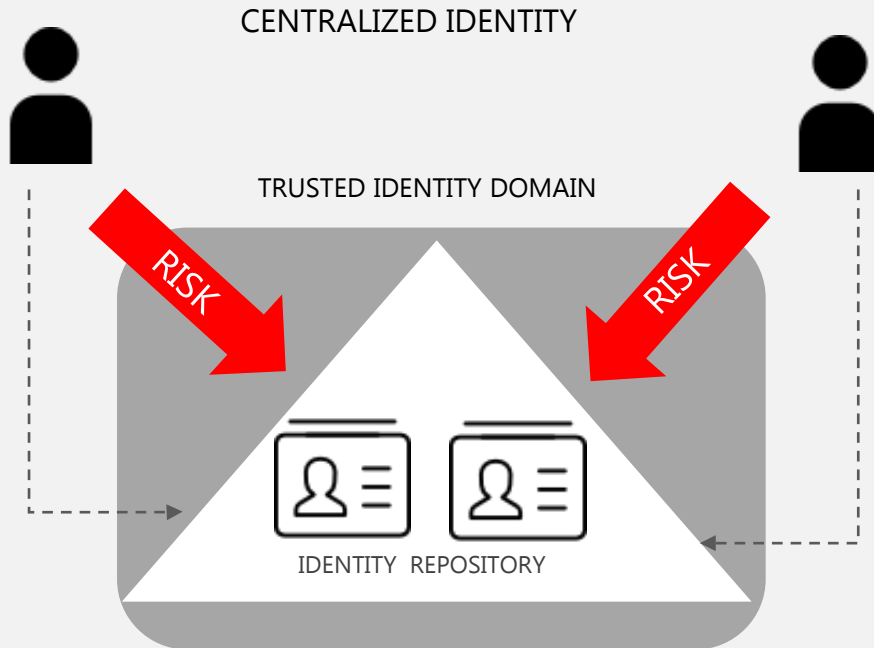
SOLUTION

FEATURES



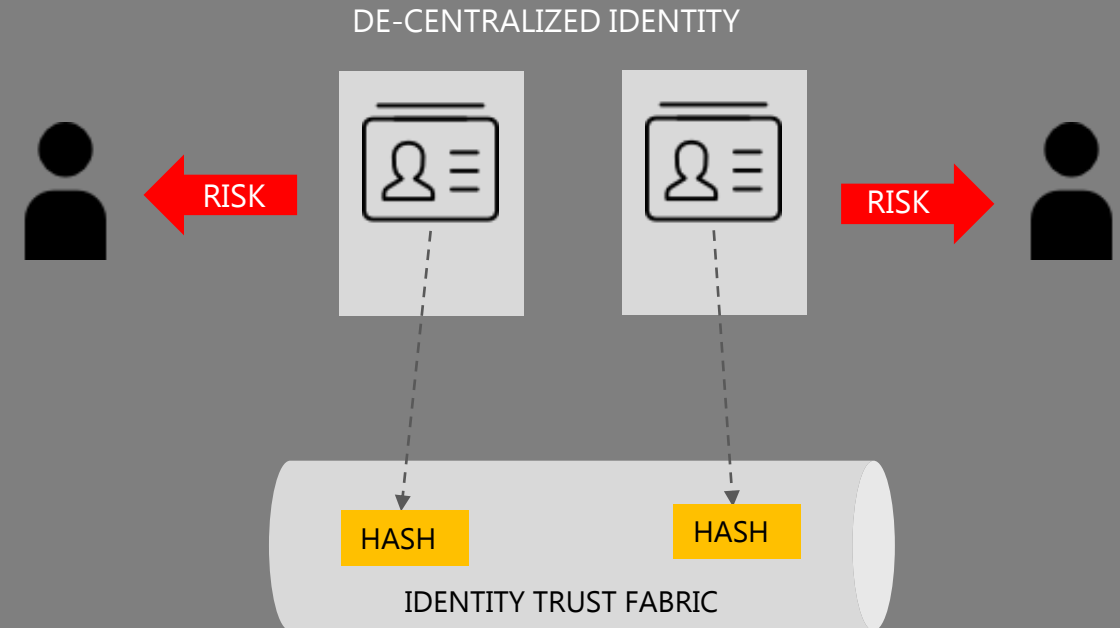
STATE – IDENTITY MANAGEMENT

CURRENT STATE



- The key drivers are to minimize the security and privacy risk of managing identity profiles centrally. From a business perspective,
- It is an opportunity to address the ongoing challenge to establish trust between multiple domains. This has been a major challenge for organizations implementing a federated identity model

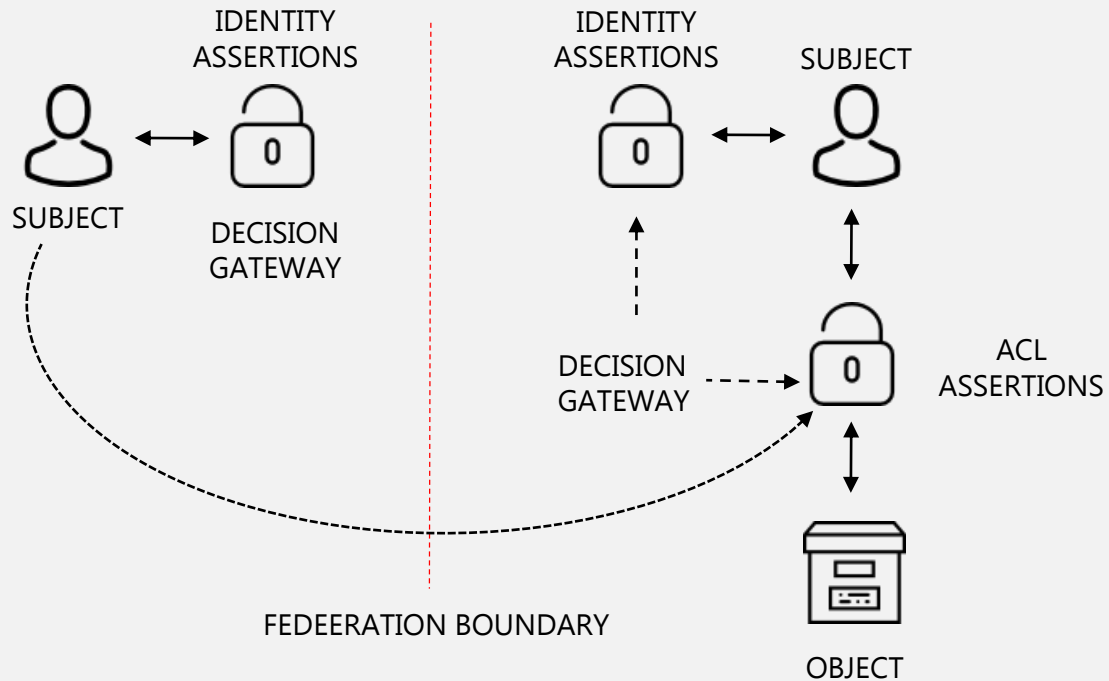
PROPOSED STATE



- The decentralized identity model is enabled by a more inclusive identity trust fabric that can streamline cross-domain business processes integration, regardless of where identities are originated.
- This property simplifies the flow of data and transactions to enhance business agility and customer experience. However, organizations are cautioned that decentralization is not all-or-nothing. Organizations should consider this phase of identity decentralization as a steppingstone

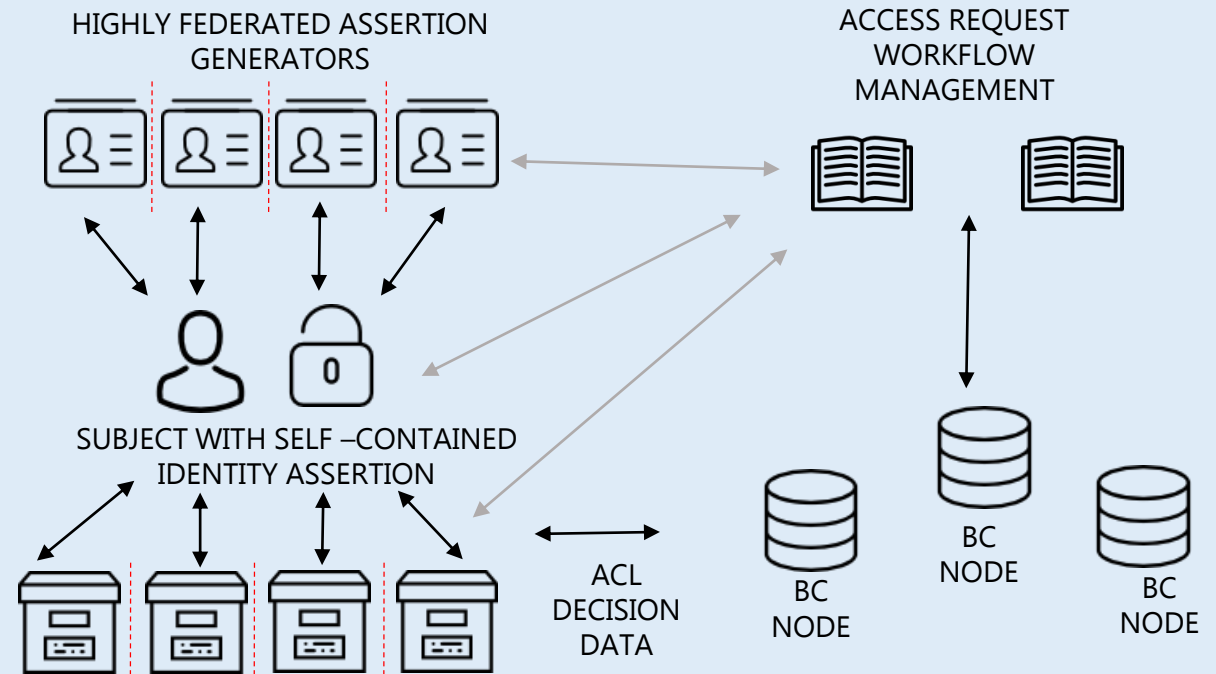
STATE – ACCESS MANAGEMENT

CURRENT STATE



- Separate processes for identity assertion management and access control list management.
- An identity provider generates a token or assertion, with a policy enforcement process acting as a gatekeeper down into the protected objects
- The main external interactions tend to be at the identity layer, with access control information still sitting within the object's domain

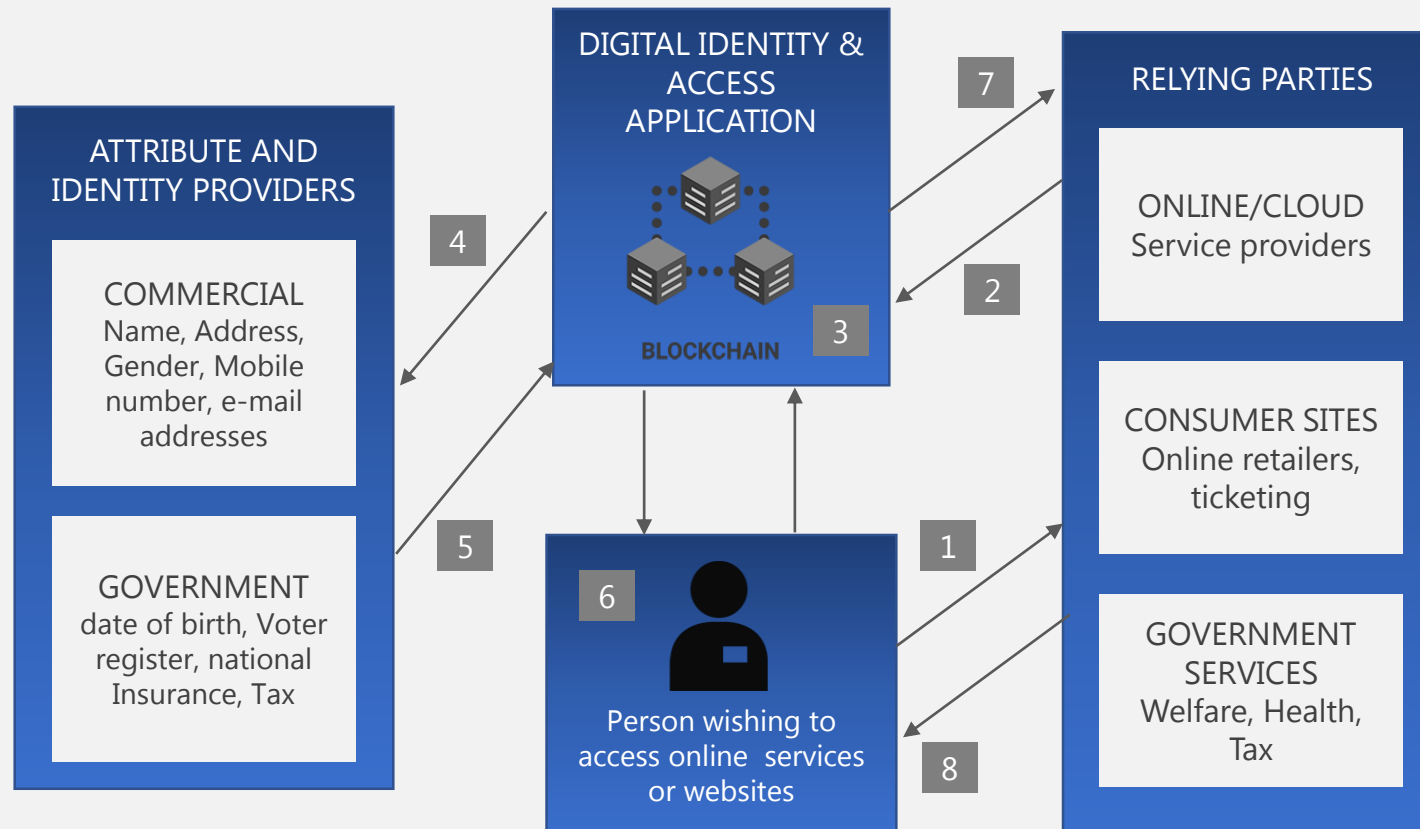
PROPOSED STATE



- The blockchain technology is used as an access request warehouse
- The warehouse will contain the output from the access request workflow process that would be hashed and cryptographically made secure from a trusted access request manager
- After each access request, an entry would be made to the chain. Each object would then be able to make a query against the chain, to identify all corresponding entries that map to their object set, unionise all entries and work out the necessary access control result

SOLUTION

Secure enterprise identity authentication and access built using the blockchain



1. User requests access to a website
2. Website sends its access policy to the application
3. Application evaluates the website access policy using the smart contract and gets the information from the identity providers
4. Application requests the required identity attributes
5. The required information is returned to the application
6. User provides consent
7. Application returns information to the website
8. Access to the website is granted

FEATURES

SELF SOVEREIGN IDENTITY PRINCIPLES



These principles attempt to ensure the user control that's at the heart of self-sovereign identity

For digital identity, blockchain supports the implementation of SSI and incorporates ten principles which strengthen its application

Blockchain has the potential to be adopted as a digital identity system. Instead of storing all data and transactions in a secure and open way, creating an identity on the blockchain makes it easier for people to manage their identities and to grant control over who has their personal information and how they access it

BLOCKCHAIN FEATURES



ENCRYPTED



DIGITAL KEY



ANONIMITY



DISTRIBUTED
LEDGER



DECENTRALIZED

CONTACT

TEAM



OFFICE LOCATIONS



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THANKYOU