

# ChainCerts

## Certificates Issuing Platform

Swift | Convenient | Affordable

*We allow your organization to create their own digital certificates on blockchain*

- ✓ *Authenticity Certificates*
- ✓ *Digital Credentials*
- ✓ *Training Certificates*
- ✓ *Financial Lending Certificates*

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# Executive Summary

ChainCerts is the first and only pure blockchain-secured digital records management tool that provides record verification to end users, decreases issuer maintenance costs, and lowers costs and time for verifiers.

ChainCerts makes issuing blockchain-secured records very convenient. These records are co-owned by the recipient of the certificate and they have the authority to share the certificate. The verifier can independently verify the validity of certificate received from the recipient without any hassle.



Our product is revolutionizing the way businesses in various sectors are issuing and verifying digital records. We have also helped individuals to understand and use their digital identities.



# 100% Blockchain

First and only digital record management tool  
which is 100% powered by blockchain technology.  
This makes Chaincerts secure, reliable and  
transparent.



# Why Blockchain?

As the Internet enabled the age of information, Blockchain enables the age of digital ownership. Blockchain makes it possible to own digital goods, assets, and data that is far more durable, secure and convenient than relying upon a single authority.

## Increased Efficiency

Blockchain powered records don't require a middlemen to

## You are the Owner

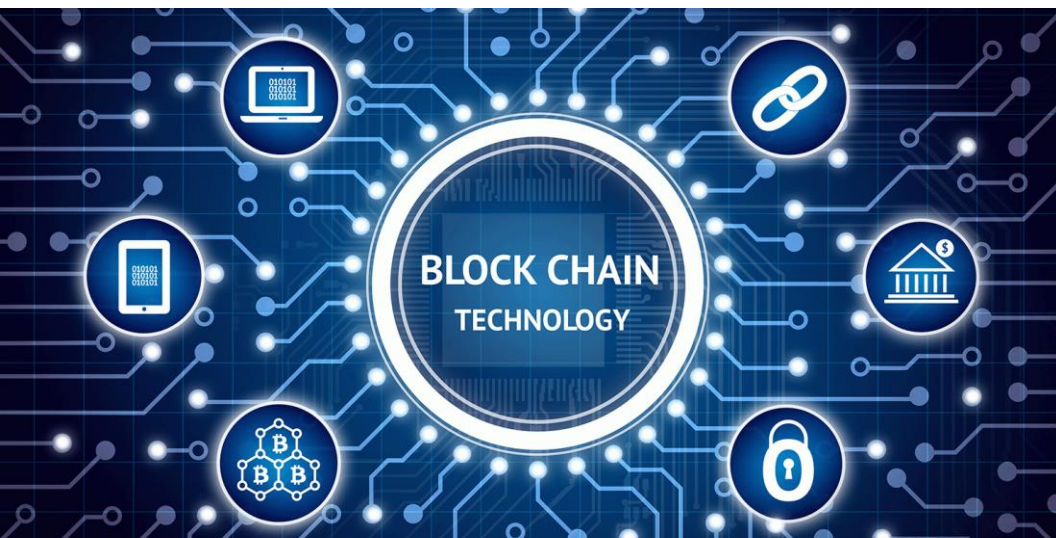
Recipients of the records have the right to verify them anywhere

## Fraud Proof

Records have cryptographic signatures which are hard to impersonate

## Deeper Insights

The recipient, issuer and verifier will have transparent system to manage the records.



# ChainCerts Technology

FORBES : Hyperledger is  
the “Gold Standard” for  
Enterprise Blockchain

Hyperledger is an open  
source collaborative  
effort created to advance  
cross-industry blockchain  
technologies. It is a global  
collaboration hosted by  
the Linux foundation.



Create Enterprise grade,  
Open Source, distributed  
ledger framework and  
code bases.

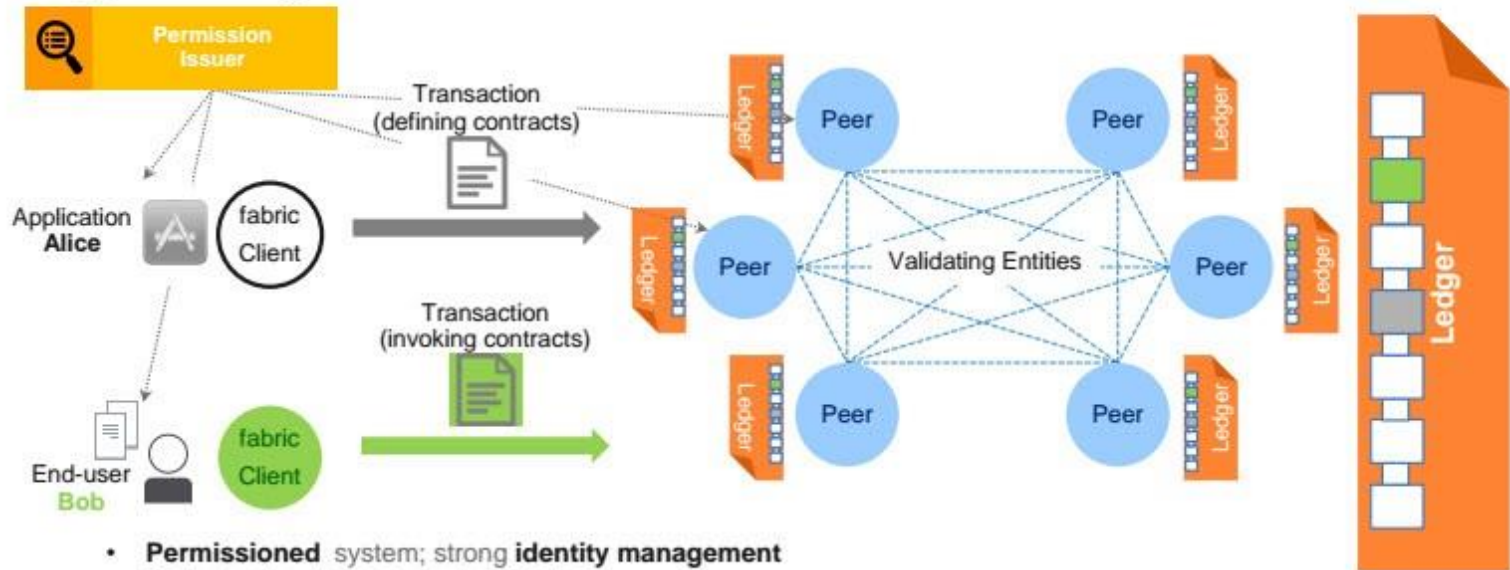


Neutral and Community  
driven infrastructure.



## HYPERLEDGER

# Hyperledger-fabric model



- **Permissioned** system; strong **identity management**
- Distinct roles of **users**, and **validators**
- Users **deploy** new pieces of code (chaincodes) and **invoke** them through **deploy & invoke** transactions
- Validators evaluate the effect of a transaction and reach consensus over the new version of the **ledger**
- **Ledger** = total order of transactions + hash (global state)
- **Pluggable consensus** protocol, currently PBFT & Sieve

# Use Cases

Every complex organization is unique, therefore ChainCerts is not a fit all solution. However, ChainCerts is dynamic and allows the organizations to define their own certificates and customize the data fields for a given certificate.

*This allows Chaincerts to cater a variety of industries.*



**Education**: Course completion certificate verification, enrollment verification, Transcripts, Diploma, Examination Results.



**Art & Collectibles**: Art Authenticity Certificates, Appraisal Certificates



**Government**: Issuing and verifying National ID, Elderly benefits, Citizen benefits, Certificates, Passport.



**Insurance**: Managing and verifying claims.



**Workforce management**: Issuing and managing Training certificates, Payroll management.

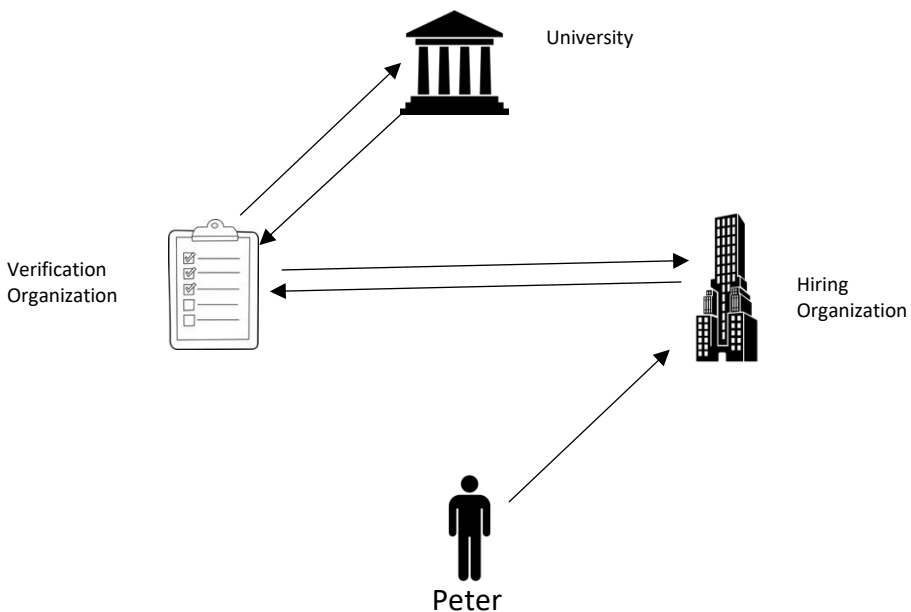
Chaincerts certificates  
are not static, rather  
they are live!



# Sample Scenario

## Before Chaincerts

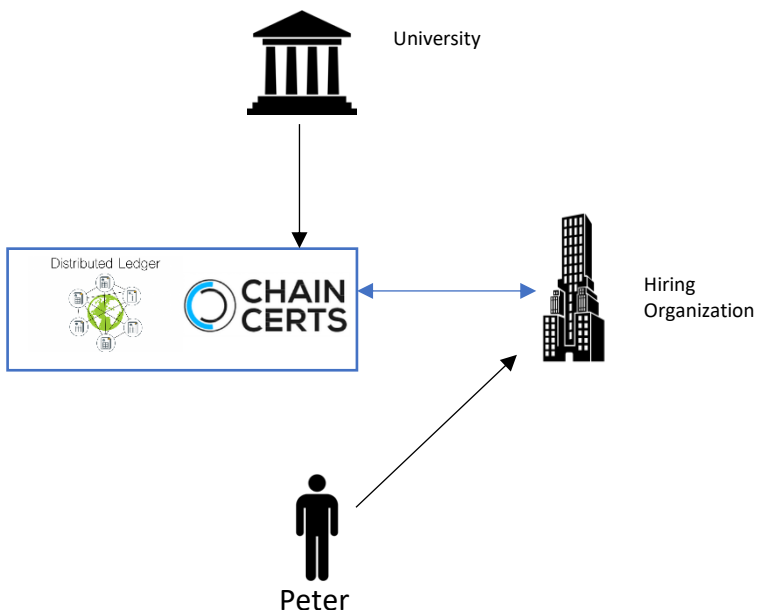
Peter is a college graduate and has landed a new job. His employer needs to verify his educational documents. His employer has outsourced the verification process to another third-party organization who specializes in document verification. Peter received a hard copy degree from his university which he has notified to the employer. Now, the verification organization will contact the university to get the credentials verified and will charge a hefty fee to the employer. Peter can't join work until his documents are verified.



# Sample Scenario

## After Chaincerts

Peter is a college graduate and has landed a new job. His university is enrolled on ChainCerts, so along with a hard copy of the degree, he now has a blockchain-secured certificate as well. Now, as his employer needs to verify his educational documents. Peter can simply share his digital certificate with the employer. The employer will not have to hire another organization to verify these documents. This saves effort and money for the organization. Peter can join the organization immediately with ease.



## Summary

- All data is stored using blockchain-secured asset management
- The recipient of the asset has control over the asset
- All the records are kept in the standard format
- Developed on an open-source platform, bringing transparency and security to the system
- Records can be shared easily on various platforms through the application.



## ChainCerts

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