Casper AIBC 2021 Workshop
Smart Contracts -> Smart Lawyers

Use Case
Document Notarisation

Use Case

Law Association

Law Firms

Lawyers

Legal Clerks

- **Notarisation of submissable evidence**

- **Multiple Signatures (clerk -> partner)**

- **Decentralised Document Archive**

- **Publish Checksums + Metadata**

Workflow

- Step 0: Start test network

- Step 1: Set document checksum / metadata

- Step 2: Initialise accounts, keys & thresholds

- Step 3: Install smart contract

- Step 4: Set multi-signature deploy

- Step 5: Publish deploy to ledger

- Step 6: Verify

Network Setup

- **Start local NCTL network**

- **5 nodes logically isolated**

- **Initialised with accounts**

- **Await block production**

Step 1 Document

- **Document -> submissable evidence**

- **Sourced by clerk**

- **Reviewed by lawyer**

- **Acknowledged by partner**

- **Checksum + Metadata**

Account Permissions

ASSOCIATED KEYS

Access Control

Weight By Public Key

ACTION THRESHOLDS

Dispatch Deploys

Manage Keys

Account Permissions

- Law Association -> contract operator

- Member(s) -> contract user(s)

- Association authorises Members

- Association assigns keys & thresholds

Smart Contract

Installation	Upgrade

Execution	Decomission

- **Law Association -> installs contract**

- **Await installation confirmation**

- **Cache contract identifier (hash)**

- **View on-chain account (A)**

Step 4

Header
(metadata)

Session
(execution)

Payment
(fees)

Approvals
(authorisation)

User-B

- creates
- approves
- emails -> user-C

User C

- approves
- emails -> user-D

User D

- approves
- sends -> blockchain

- **Recalculate checksum**

- **Query ledger**

- **View metadata**

- **Assert validity**

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