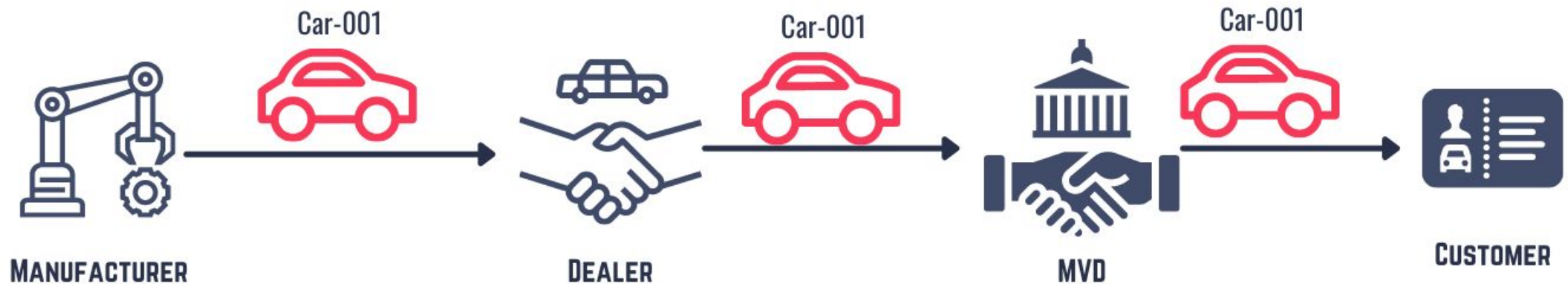
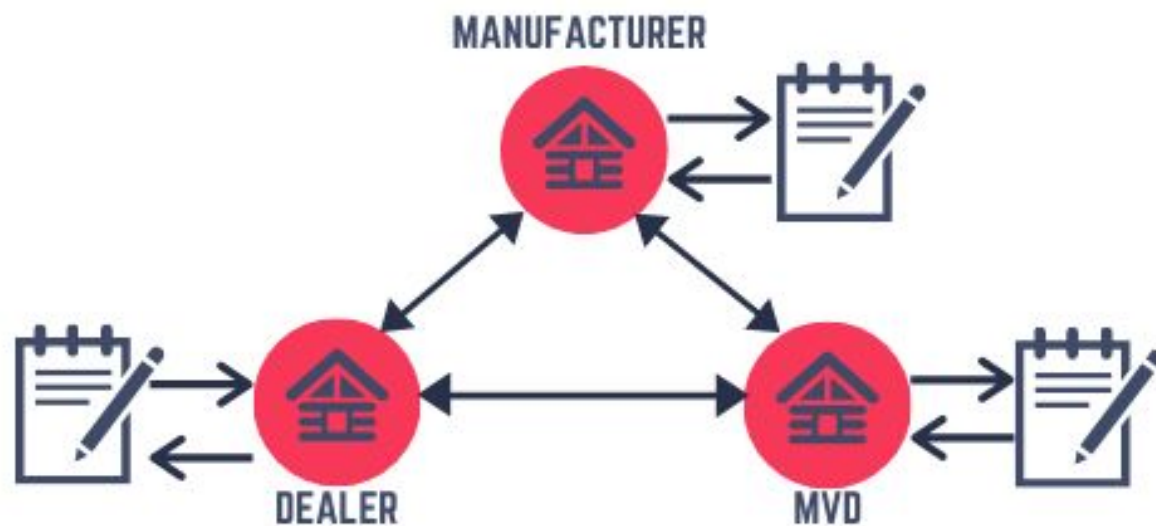


Automobile Use-case

Use Case - Automobile network



Implement DLT - Blockchain



Why Hyperledger Fabric?

- Hyperledger Fabric is a **Permissioned** distributed ledger technology.
- Every business have their own trade secrets and other confidential information. They might not want to disclose to the other businesses in the network.
- Hence, Hyperledger Fabric allows us to use the concept of **Channels** here.
- There is another powerful concept called **Private Data Collections(PDC)**.
- The shared ledger in Hyperledger Fabric offers two promising components:
 - **World State**
 - **Transaction Log**

Network participants



MANUFACTURER



DEALER



MVD

Minifabric

Introduction to Minifabric

- Minifabric is a tool developed by **Hyperledger Labs** in order to give Hyperledger Fabric **DEVELOPER** to experience the full capabilities of Hyperledger Fabric.
- A developer need not required **Admin** side of HLF to use Minifabric.
- It is completely **Developer Friendly tool** where they can leverage HLF features with simple commands and single file called as **spec.yaml**
- Github repo : <https://github.com/hyperledger-labs/minifabric>

spec.yaml

```
fabric:
  cas:
    - "ca1.org0.example.com"
    - "ca1.org1.example.com"
  peers:
    - "peer1.org0.example.com"
    - "peer2.org0.example.com"
    - "peer1.org1.example.com"
    - "peer2.org1.example.com"
  orderers:
    - "orderer1.example.com"
    - "orderer2.example.com"
    - "orderer3.example.com"
  settings:
    ca:
      FABRIC_LOGGING_SPEC: DEBUG
    peer:
      FABRIC_LOGGING_SPEC: DEBUG
    orderer:
      FABRIC_LOGGING_SPEC: DEBUG
```


Commands

- Start the network
minifab netup -s couchdb -e true -i 2.4.8 -o manufacturer.auto.com
- Create the channel
minifab create -c autochannel
- Join the peers to the channel
minifab join -c autochannel
- Update the Anchor peer for the organisations
minifab anchorupdate
- Generate profiles
minifab profilegen -c autochannel
- Tear down the network and cleanup everything
minifab cleanup
- Tear down the network and restart it
minifab down
minifab restart

THANK YOU