

## Ethereum Blockchain Layer

### Firmware Repository Smart Contract

- + Developed Firmware: Map from device to developer to firmware
- + Device Developers: Map from device to a list of developers
- + Web of Trust: Instance of Web of Trust

- + Endorse Trust (Address): Trust a developer
- + Get Specific Firmware():
- + Get Most Trusted Firmware()
- + Get List of Trusted Firmware Local()
- + Get List of Trusted Firmware BC()
- + Endorse Developer

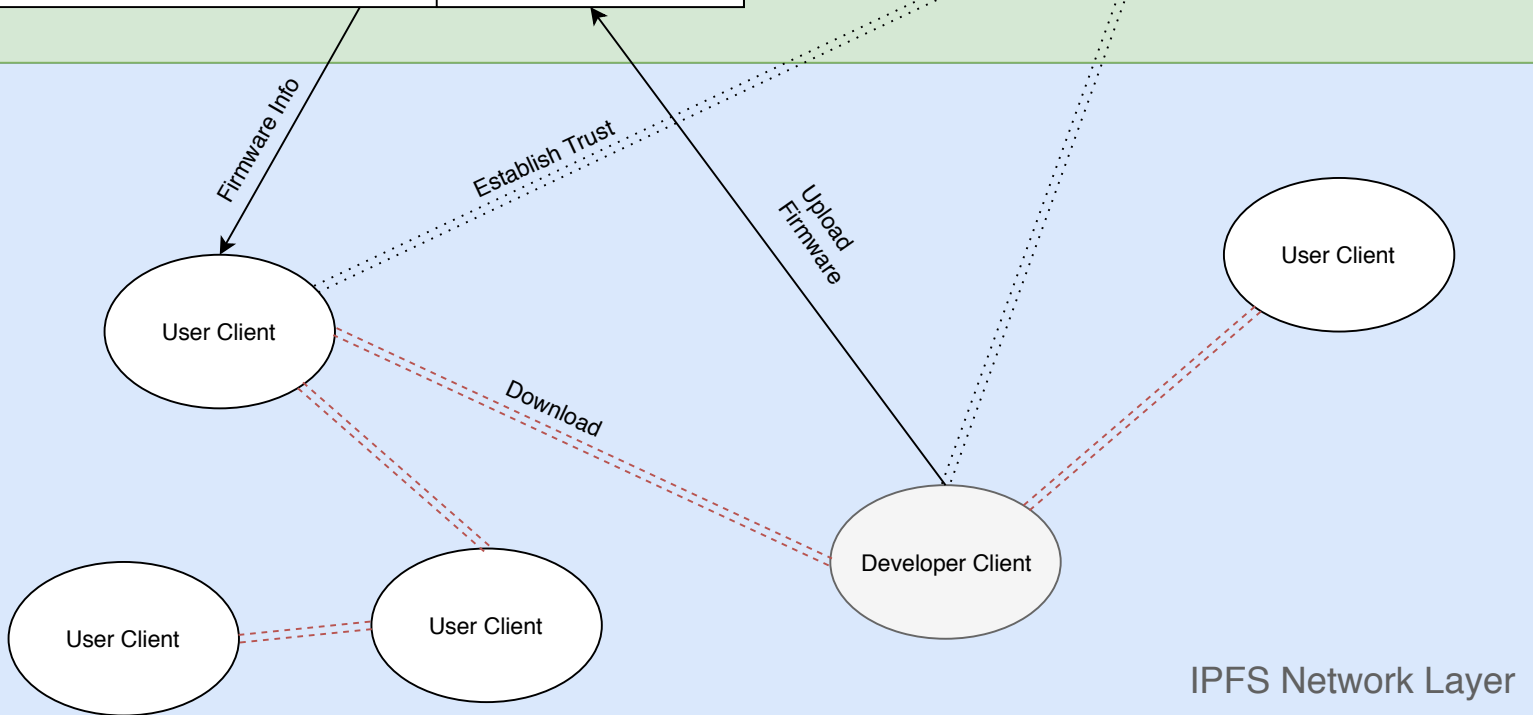
#### Struct Firmware Info

- + Hash: byte32
- + IPFS Link: String
- + Hash: byte32
- + Description: String
- + Block #: uint256
- + Developer: Address
- + Trust: int256

### Web of Trust Smart Contract

- + Trust Graph: Adjacency List
- + Trust Lookup: Hash Table (Avoid storing duplicates)

- + Endorse Trust (Address): Trust a developer
- + Hop to Target (Address): Calculate Trust
- + Revoke Trust(Address): Untrust a developer (To be developed)



IPFS Network Layer

