Blockchain Council™

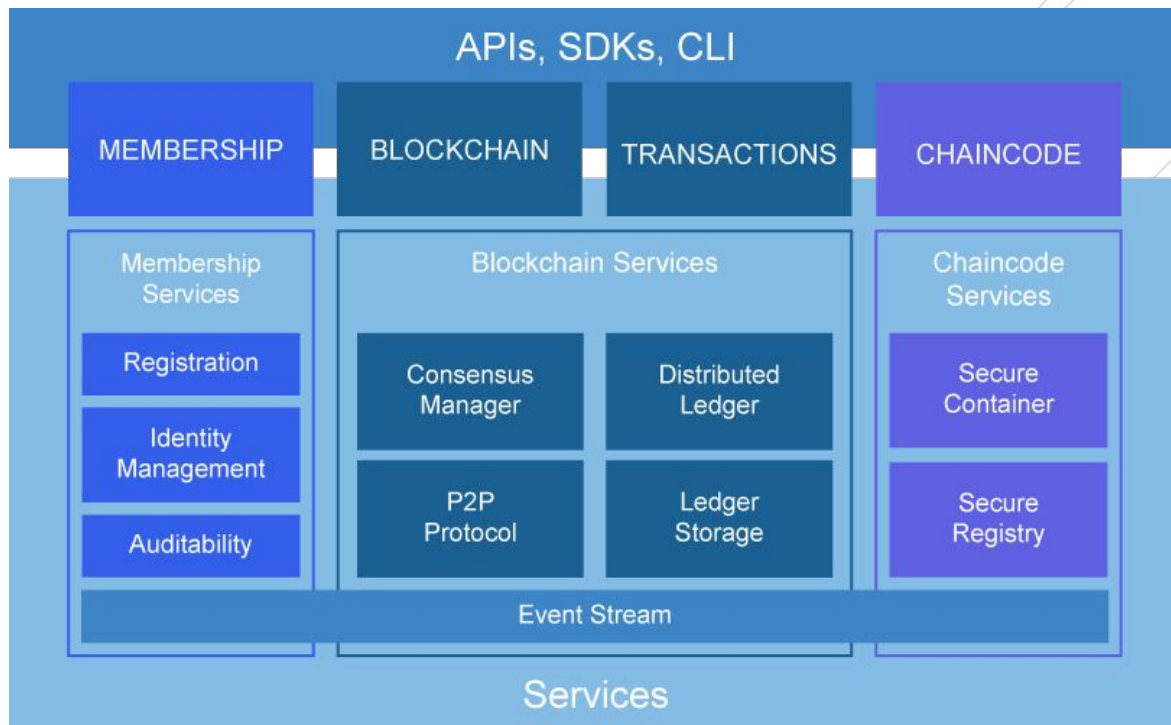# Certified Hyperledger Expert

What is Hyperledger?

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Hyperledger is an open source collaborative effort for cross-border blockchain technologies.

Key Points about Hyperledger:

- Hyperledger is not a cryptocurrency.
- Hyperledger is built by Linux Foundations where developer and companies meet and collaborate to create a blockchain framework.
- The Linux Foundation founded the Platform in 2015.
- Currently, Hyperledger is supported by more than 100 members including IBM, Intel, Samsung, JP Morgan etc.

Hyperledger Architecture

Hyperledger Umbrella Projects

Blockchain Council™

Infrastructure
Technical, Legal, Marketing, Organizational

Ecosystem that accelerate open development and commercial adoption

Cloud Foundry	Node.js	Hyperledger	Open Container Initiative

Frameworks
Meaningfully differentiated approaches to business blockchain frameworks development by a growing community of communities

Hyperledger **Indy**	Hyperledger **Fabric**	Hyperledger **Iroha**	Hyperledger **Sawtooth**	Hyperledger **Burrow**

Tools
Typically built for one framework, and through common licence and community of communities approach, ported to other frameworks

Hyperledger **Composer**	Hyperledger **Explorer**	Hyperledger **Cello**

Hyperledger Umbrella Projects

- **Hyperledger Fabric**: This project is lead by IBM. Hyperledger Fabric is a plug and play implementation of blockchain technology with a flexible degree of permissions.
- **Hyperledger Sawtooth**: This project is developed by Intel, using a new consensus algorithm called Proof of Elapsed Time (PoeT).
- **Hyperledger Iroha**: This project is developed by Soramitsu, Hitachi, NTT Data and Colu, with emphasis on mobile application development and a new, chain-based Byzantine Fault Tolerant consensus algorithm, called Sumeragi
- **Hyperledger Burrow**: Hyperledger Burrow was originally contributed by Monax and co-sponsored by Intel. This project provides a permissible smart contract machine along the specification of Ethereum Virtual Machine.
- **Hyperledger Indy**: The Indy code base, originally developed by Evernym, was donated to the Sovrin Foundation to establish a strong open source foundation for the Sovrin Network. Hyperledger Indy is a distributed ledger, purpose-built for decentralized identity.

Hyperledger Umbrella Projects

- **Hyperledger Composer**: Hyperledger Composer is a set of collaboration tools for building blockchain business networks by creating smart contracts and blockchain applications.
- **Hyperledger Explorer**: Originally contributed by IBM, Intel and DTCC. It creates a user-friendly Web application, where you can view, invoke, deploy or query blocks, as well as any other relevant data stored on the ledger.
- **Hyperledger Cello**: Initially contributed by IBM, Soramitsu, Huawei and Intel. This project aims to bring the on-demand deployment model to the blockchain ecosystem to reduce the effort required for creating, managing and terminating blockchains.
- **Hyperledger Caliper**: This is the performance benchmark tool for the Hyperledger Projects, contributed by Huawei, Hyperchain, Oracle, Bitwise, Soramitsu, IBM and the Budapest University of Technology and Economics
- **Hyperledger Quilt**: NTT Data and Ripple contributed to this project, to create interoperability between ledger systems by implementing the Interledger protocol.

THANK YOU!

Any questions?
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