



Hyperledger

F O U N D A T I O N



Hyperledger
FOUNDATION

WHO WE ARE

Building better together

Hyperledger Foundation is the open source, global ecosystem for enterprise-grade blockchain technologies that are front and center in critical developments and implementations around the world.

hyperledger.org





Hyperledger
FOUNDATION



A part of the Linux Foundation

Through transparent open governance, Hyperledger Foundation enables developers, enterprises, and organizations to collaboratively build, share, and enhance blockchain frameworks and tools.

By embracing the open-source principles established by the Linux Foundation, Hyperledger Foundation promotes interoperability and standardization, paving the way for the widespread adoption of secure and scalable digital trust solutions across industries and sectors.





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WHY HYPERLEDGER FOUNDATION?

We believe that...

- + Open source
- + Open development
- + Open governance

IS THE FUTURE OF DECENTRALIZED TECHNOLOGIES



Hyperledger Momentum



8

YEARS SINCE
LAUNCH



8

GRADUATED
PROJECTS



5

INCUBATING
PROJECTS



50+

HYPERLEDGER
LABS



8

SPECIAL INTEREST
GROUPS



7

REGIONAL
CHAPTERS



145

MEMBERS:
ENTERPRISES,
STARTUPS, ACADEMICS
& NON-PROFITS



185

MEETUPS
WORLDWIDE
84 COUNTRIES



100K

MEETUP
PARTICIPANTS



460K

NEWSLETTER
SUBSCRIBERS



Hyperledger
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PREMIER MEMBERS

>
accenture

DTCC

IBM

HITACHI
Inspire the Next

Our Premier members have deep involvement and influence within the leading consortium for enterprise blockchain technologies, enabling enhanced networking, research, and strategic positioning in the blockchain ecosystem.

Premier members serve on the Governing Board

[SEE ALL MEMBERS](#)



Hyperledger FOUNDATION

General Membership provides valuable access to a global community of blockchain and distributed ledger technology experts, fostering collaboration and innovation in the rapidly evolving blockchain space.

Two general member representatives serve on the Governing Board

[SEE ALL MEMBERS](#)

GENERAL MEMBERS





Valuable access to resources and networking opportunities within the blockchain community, supporting engagement and knowledge-sharing in the ever-evolving landscape of distributed ledger technologies.

For pre-approved

- Non-Profits
- Open Source Projects
- Government Entities



ASSOCIATE MEMBERS



[SEE ALL MEMBERS](#)

Why Membership?

Hyperledger Foundation is building a worldwide community around thriving software.

The organizations involved want to ensure the success of Hyperledger business blockchain technologies, **because they are building products, services and solutions on top of our code bases that are critical to their lines of business.**



- ✓ Network with other members
- ✓ Support the community by helping fund services that Hyperledger-hosted projects rely on
- ✓ Demonstrate thought leadership in the enterprise space
- ✓ Raise awareness of Hyperledger projects so they can quickly reach critical mass
- ✓ Be part of defining and maintaining the technologies that are at the forefront of the industry

Summary of Member Benefits



**White glove guide
to our in-house
experts, vast
community & tools**

**Introductions to
our global network**

**Member-only
Events**

**Member-only
Marketing and
Promotion**

**Share your Story
Events, Case
Studies, & more**

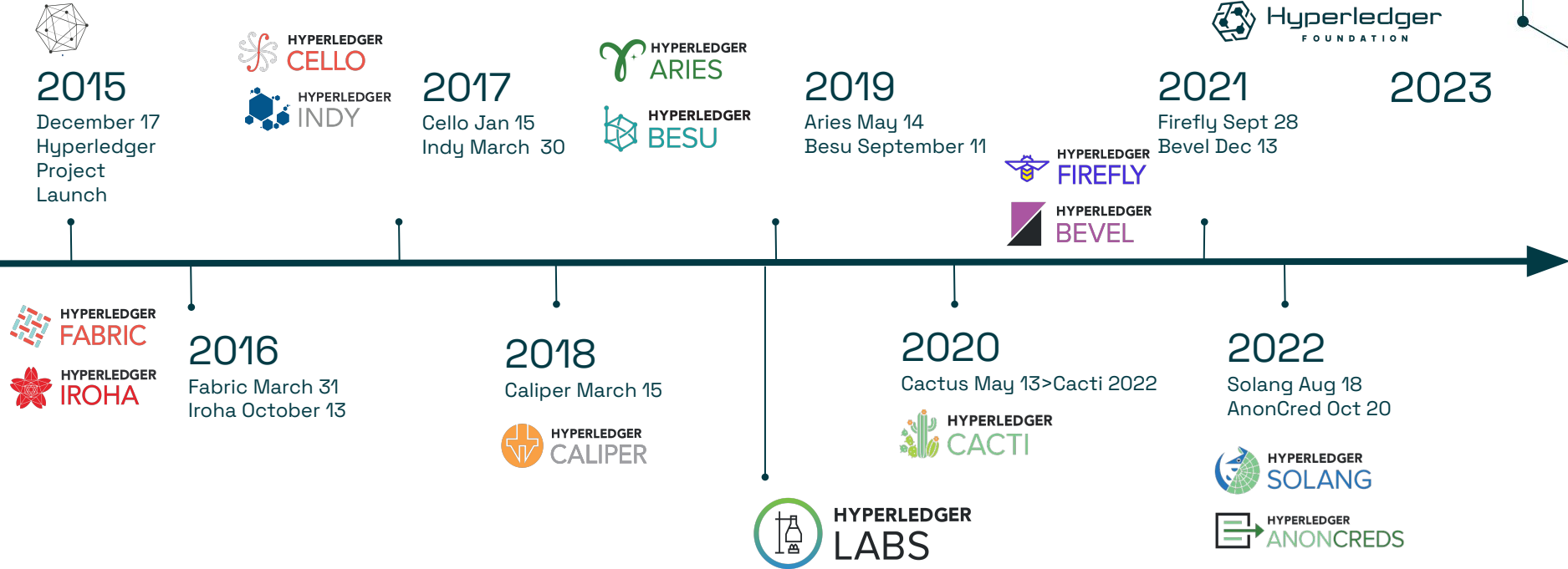
**New business
opportunities
through Vendor
Directory &
Certifications**



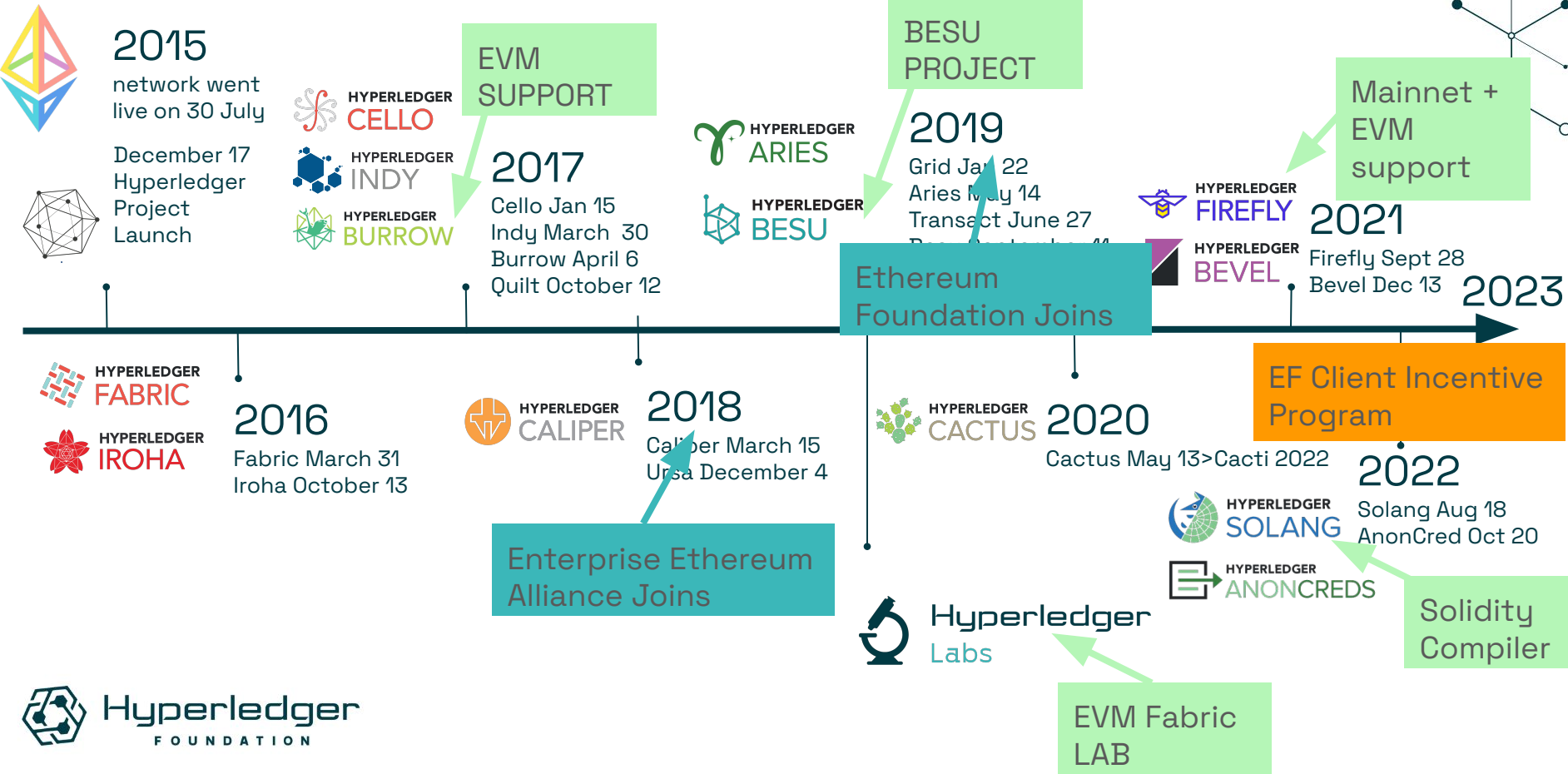
Since 2015 the Hyperledger community has been building and shaping the enterprise blockchain market, with frameworks, tools and libraries that support real world needs.

open.global.trusted

A project timeline to meet today's Enterprise needs



Hyperledger Foundation and Ethereum Ecosystem





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Graduated projects

Hyperledger projects are used by more of the top 100 public companies in the world than any other blockchain platform.



ENTERPRISE-GRADE
HIGHLY SECURE
MODULAR
INTEROPERABLE
CRYPTO-AGNOSTIC
COMPLETE WITH API'S



- Hyperledger Besu is an open source Ethereum execution client written in Java.
- Public and Private Options
- Besu implements the EEA specification.
- Besu can run all Ethereum smart contracts, and you can use all Ethereum ERC Standards on it, including:
 - ERC-20 - Fungible Tokens
 - ERC-721 - NFT Tokens
- Besu is being used by many in the financial industry as well as those that **wish to work in both the public and private blockchain space** or those that don't want to have to make a firm decision between working on public or private chains.



FORBES > FORBES DIGITAL ASSETS

Hyperledger Unanimously Approves First Ethereum Codebase For Enterprises

Michael del Castillo Forbes Staff

Senior editor covering bitcoin and other blockchain applications.

Follow

Aug 29, 2019, 10:59am EDT



Listen to article 7 minutes




> wiki.hyperledgerbesu



Hyperledger Cacti is a blockchain integration tool designed to allow users to securely integrate different blockchains.

Cacti is a pluggable, enterprise-grade framework that does not force users to introduce yet another competing blockchain. It aims to provide developers with an abstraction over protocol-specific implementations, enabling interoperability.

This enables solutions to more easily adapt to new protocols, and make transactions involving multiple public and/or permissioned ledgers.



Focused on cross-chain transaction and atomic swaps.

An “SDK of SDKs” not a “blockchain of blockchains”



Hyperledger
Labs

Yui (IBC)
Harmonia (R3 Corda)



Hyperledger FireFly is an open source “gateway to Web3”: a complete stack for enterprises to build and scale secure Web3 applications. It is designed to help you reach production faster and connect legacy systems to the wider world of Web3., including all the blockchain ecosystems that they participate in – different blockchains, token economies, business networks, etc.

It has a pluggable API Orchestration and Data layer, integrating into all of the different types of decentralized technologies that exist in Web3.



Hyperledger FireFly 1.1 released last year with 1.3 coming soon



[Blog on reaching Graduated Status](#)





HYPERLEDGER IN ACTION

Thought leadership

Over the last seven years Hyperledger Foundation has established itself as a leading thought leader in the realm of enterprise blockchain and DLT technologies, producing content to help educate the industry on its potential and drive enterprise adoption.

[VIEW RESEARCH](#)



Digital currencies

Allow peer-to-peer transactions and cross-border payments

Reduce transaction times and costs by eliminating intermediaries, allowing for faster and more efficient payments.

Make banking services more accessible to unbanked or underbanked populations, providing them with access to financial services and promoting financial inclusion.



Wholesale CBDC with Hyperledger Fabric and Cacti and Token SDK
[Recent Workshop](#)



Retail CBDC unique amongst central banks as being **the first to publish their CBDC code openly to GitHub** for anyone to leverage.
[Recent Webinar](#)



Swift CBDC sandbox. 18 central and commercial banks.
Hyperledger Firefly + Quorum and Corda

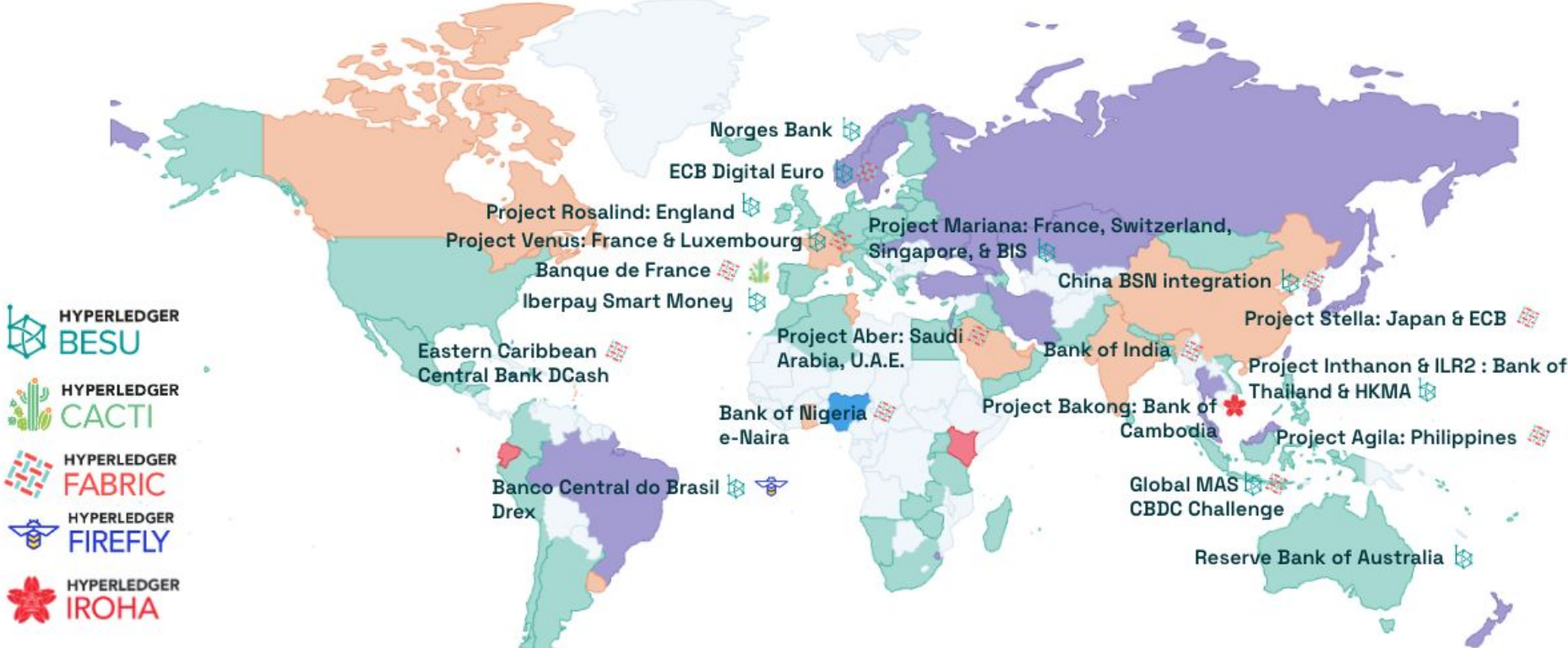


CBDC projects and experimentations with Hyperledger tech around the world*

Today's Central Bank Digital Currencies Status

Database update: August 2023 • News update: Aug, 16 23

Cancelled Research Proof of concept Pilot Launched



- HYPERLEDGER **BESU**
- HYPERLEDGER **CACTI**
- HYPERLEDGER **FABRIC**
- HYPERLEDGER **FIREFLY**
- HYPERLEDGER **IROHA**

*publicly announced - [CBDC Tracker](#); [bis.org](#)

Join a Hyperledger Regional Chapter

You can connect with the [Hyperledger Regional Chapters](#) all around the world to take part in other local community activities.



**Hyperledger Chapter
Brasil**



Upcoming Event - get all the latest info!

🚀 Join us as we commemorate the 8th Anniversary of the Hyperledger Foundation, a milestone that marks an era of significant advancement in enterprise-grade blockchain technologies. Leaders in our community will share about our journey and what's to come...

[Register here >](#)



Hyperledger
FOUNDATION

8

ANNIVERSARY

Feb 14
10M EST

LIVE
WEBINAR

Hyperledger Community Resources



Workshops

- **Upcoming: [Hyperledger Identity + Interoperability](#) on Thursday February 8th at 8am Pacific**
- **Upcoming: [Zero Knowledge Proofs and ZK Programming in Blockchain Application Development](#) on Weds April 24th at 8am Pacific**
- [How to Deploy Hyperledger Fabric on Kubernetes with Hyperledger Bevel](#)
- [Hyperledger AnonCreds: Using ZKP Verifiable Credentials Everywhere](#)
- [How Hyperledger Technologies Can Help Build Central Bank Digital Currencies](#)
- [Using Hyperledger FireFly to Launch an NFT Collection on Public Chains](#)
- [Hyperledger Financial Services Besu Workshop](#)
- [Blockchain Interoperability with Hyperledger Cacti](#)

Recent webinars

- [Hyperledger In-depth with Kaleido: Tokenize Assets at Institutional Scale with Kaleido & Hyperledger Technologies](#)
- [Hyperledger In-depth with Instnt: Enabling Portable KYC for Financial Institutions](#)
- [Hyperledger In-depth with Red Date Technology: Universal Digital Payments Network \(UDPN\)](#)



>>Find all workshops: <https://wiki.hyperledger.org/display/events/Workshops>



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CORE DEVELOPER COMMUNITY

Discord

The Hyperledger Foundation Discord channel provides an organized and user-friendly way for the community and any participant to ask for help with technical issues, share their insights, discuss trends, and contribute to Hyperledger's diverse ecosystem.

4,700 users

67 Core Project Maintainers

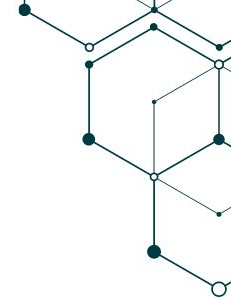
> join [Discord](#) and explore channels



SCAN ME



Why Get Involved?



Decrease time to market and **accelerate the work** of a project



Drive adoption of your product based on the open source codebase



You'll **gain experience that will look great** on a resume and your Github profile



Tap into a worldwide group of **people who are interested and want to help**



Make sure a project you rely on **stays active and doesn't stop**



You can **shape the direction** of a project to fit your needs and use cases

Open Discussion:

What are you working on with blockchain and/or Hyperledger?

What are your roadblocks to using our technologies or accessing our community?

How can we help?
What questions do you have?



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ALL ARE WELCOME

Get involved >



hyperledger.org/community



hyperledger.org/resources



hyperledger.org/training



lists.hyperledger.org



wiki.hyperledger.org



hyperledger.org/join



info@hyperledger.org



github.com/hyperledger



discord.gg/hyperledger





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Thank you

JOIN US

hyperledger.org
membership@hyperledger.org

Appendix

Hyperledger Member Benefits: Influence & Brand

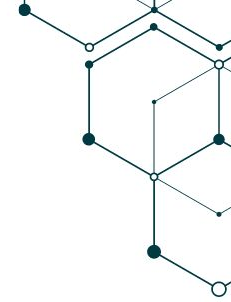
MEMBER BENEFITS*	PREMIER	GENERAL	ASSOCIATE	NON-MEMBER
<p>Hyperledger Governing Board & Technical Oversight Committee <i>Meet and learn from other members to drive the direction of the Hyperledger Foundation</i></p>	<ul style="list-style-type: none"> • Dedicated representative on the Governing Board, driving oversight on direction of Hyperledger Foundation • Appointed representative on Committees created • Voting Member of Marketing Committee • Governing Board annually will appoint five (5 of 11) voting members of the TOC from among the TOC Nominees. 	<ul style="list-style-type: none"> • Participate in elections for a General member board representative 	None	None
<p>Brand Positioning <i>Enjoy positioning in Hyperledger announcements, web properties and collateral</i></p>	<ul style="list-style-type: none"> • Central positioning on website and collateral • Dedicated Premier announcement press release, jointly produced with your PR/Communications team • Full PR and quote support of your own PR related to Hyperledger projects • Premier Member Logo to use 	<ul style="list-style-type: none"> • Logo on website and all collateral. • Bundled announcement with dedicated quote. • General Member Logo to us 	<ul style="list-style-type: none"> • Logo on website and all collateral • Bundled announcement with other new members. Quote by invitation. • Associate Member Logo to use 	Pending active contributions and releases.
<p>Press Releases, Case Studies, Newsletters, Blogs and More <i>We use a number of tools to highlight participation in our projects and community.</i></p>	<ul style="list-style-type: none"> • Propose topics and participate in press releases and case studies • Relevant achievements highlighted in newsletter • Blog posts welcome (subject to Hyperledger Foundation approval) 	<ul style="list-style-type: none"> • Participate in press releases and case studies by Hyperledger Foundation invitation • Relevant achievements highlighted in newsletter 	<ul style="list-style-type: none"> • Participate in press releases and case studies by Hyperledger Foundation invitation • Relevant achievements highlighted in newsletter. 	Pending active contributions and releases

Hyperledger Foundation Member Benefits: Events & Member Success

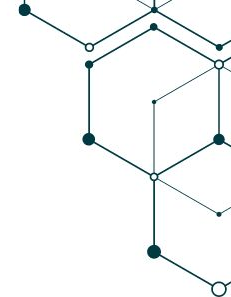
MEMBER BENEFITS*	PREMIER	GENERAL	ASSOCIATE	NON-MEMBER
Member Success Leverage our Ecosystem staff to identify opportunities and make the most of your membership	Member success meetings and quarterly engagement planning	Member success meetings and bi-annual engagement planning	None, only for specific opportunities for collaboration	None
Members-Only Meetings & Summits Bring members together to openly discuss existing projects and new opportunities under Chatham House Rules	<ul style="list-style-type: none"> Free attendance Preference given to speaking requests 	<ul style="list-style-type: none"> Free attendance Opportunities for speaking 	<ul style="list-style-type: none"> Free attendance Opportunities for speaking 	None
Hyperledger Foundation Branded in-Depth Webinars Anyone can attend but members can co-host and propose topics	<ul style="list-style-type: none"> Attend Co-host and present up to 2 a year Opt-in leads 	<ul style="list-style-type: none"> Attend Co-host and present- 1 per year Opt-in leads 	<ul style="list-style-type: none"> Attend Co-host and present- by invitation - up to 1 per year 	<ul style="list-style-type: none"> Attend Present by invitation in support of member
Industry Events Get invited to present with Hyperledger Foundation and Industry events	By Invitation. Up to 3 listed Speaker Bureau	By Invitation. Up to 2 listed Speaker Bureau	By Invitation	By exception
Access to Member Network Hyperledger Foundation provides access to other members and helps Members socializing collaboration ideas	Hyperledger Foundation leads socialization with Board and Members distribution lists, hosting a dedicated roundtables when applicable	Hyperledger Foundation leads socialization with Members-only distribution list and member portal	Member leads socialization with Member events and member portal	None

Hyperledger Foundation Member Benefits: Events & Member Success

MEMBER BENEFITS*	PREMIER	GENERAL	ASSOCIATE	NON-MEMBER
Meetups Frequent, interactive, community focused events on industry relevant topics	Free attendance Priority on Co-hosting & presenting opportunities Priority introductions to local meetup leaders	Free attendance Co-hosting & presenting opportunities	Free attendance Co-hosting & presenting opportunities	Free attendance Co-hosting & presenting opportunities
Project formation & support We help our Members successfully identify, nurture and contribute open source projects	Can propose new projects and socialize them in formation stage Project formation & open sourcing best practice support	Can propose new projects and socialize them in formation stage Project formation & open sourcing best practice support	Can propose new projects and socialize them in formation stage Project formation & open sourcing best practice support	Can propose new projects and socialize them in formation stage
Training Members enjoy premium access to LF Open Source Training and Certification	Volume discounts for LF training and certification based on LF tier. Free Vouchers based on LF Member level	Volume discounts for LF training and certification based on LF tier. Free Vouchers based on LF Member level	none	none



(a few) PROJECT UPDATES



Public

Multi-Chain Besu, Flexible Infrastructure

Related releases 23.10.x

- Modular consensus mechanisms via plug-ins*
- Fleet: new feature, trie-log shipping for Bonsai
- Light client infrastructure for near-head scale
- Sync: new formats for validators, snap server
- Bonsai-friendly Archive*

**May be delayed*

Modularization of Besu

The goal is to shorten release cycle of Besu, increased adoption of Besu leveraged by composability

- Besu modules for Rollups & L2s
- Modularize existing multi-use-case for better long term support of public and private networks
- (Later) Support for more chains and environments via Besu modules

Enterprise

Parity with public features

- QBFT/IBFT2 + Shanghai
- QBFT & Bonsai DB

Enterprise TX pool

- `--tx-pool=sequenced`

Version upgrade/downgrade protection

- Detect downgrade and prevent without an override





Public

User & Developer Experience

Related releases 24.1.x

- Codebase tailored for multi-use case support (Mainnet, private nets, L1/L2s)
- Packaged PoS images for Mainnet with neatly integrated CL client
- Revitalized plug-in strategy, technical documentation

Enterprise

Reduce unnecessary storage

- Empty-block period

Application limits

- Configurable max gas per transaction

TX pool control

- Periodic re-distribution of transactions over a certain age?
- Administrative actions on TX pool (remove TX)





HYPERLEDGER
BESU

Roadmap: Future

Public

Prague Fork, Client Evolution

Related releases 24.4.x

- Prague: EOF dev/test/ship
- Verkle Tries: prototype
- Bonsai adaptation for Verkle, full light client exploration
- Besu as a customizable L2/L3 sequencer

Ongoing Protocol Research

- Besu as an Ethereum reference client in Java
- Verkle Tries
- History / State Expiry research

Enterprise

Enterprise oriented releases

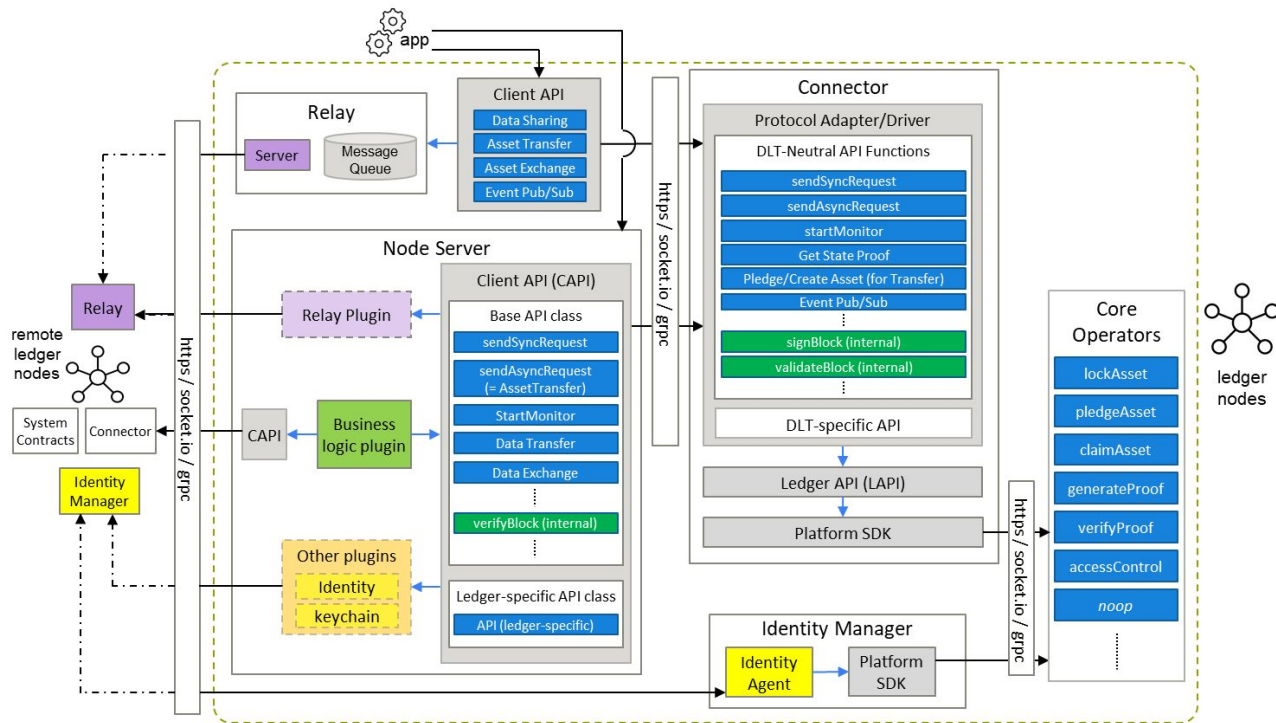
- Profiles for default values etc.

Best: Check the [Zenhub!](#)



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Roadmap: V2 Architecture





Roadmap: V2 Architecture



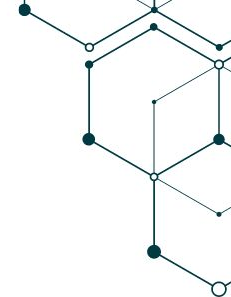
V2.0-beta

Goal:

- Large-scale refactoring of the code base to create a common pipeline for triggering and orchestration of cross-ledger transactions, with Cactus and Weaver features selectable but without changing Cactus or Weaver code internals. The Cacti architecture diagram representing this phases is illustrated below.
- Add a GUI transaction viewer tool for Hyperledger Cacti



Roadmap: V2 Architecture



V2.0

Goal:

- Enhance the code quality of V2.0-beta
- Integrate modules and libraries of Cactus and Weaver code bases performing similar functions to eliminate redundancy and offer a common Cacti SDK and API.
- Refactor the connectors and system contracts to implement an integrated ledger access mechanism while supporting all legacy Cactus and Weaver ledger operations for supported DLTs. The Cacti architecture diagram representing this phases is illustrated below.