



HYPERLEDGER
Financial Markets
SPECIAL INTEREST GROUP

Introducing the DeFi Subgroup

& Update on Blockchain in the Mortgage Industry



Mike McCoy

Senior Product Manager DeFi
Blockdaemon



Moderated by:
Marvin Bantugan
Blockchain Services
Zventus



James Hendrick
Blockchain Services
Zventus

Join us **Thursday, July 14th | 9:00 AM PST**

Antitrust Policy Notice

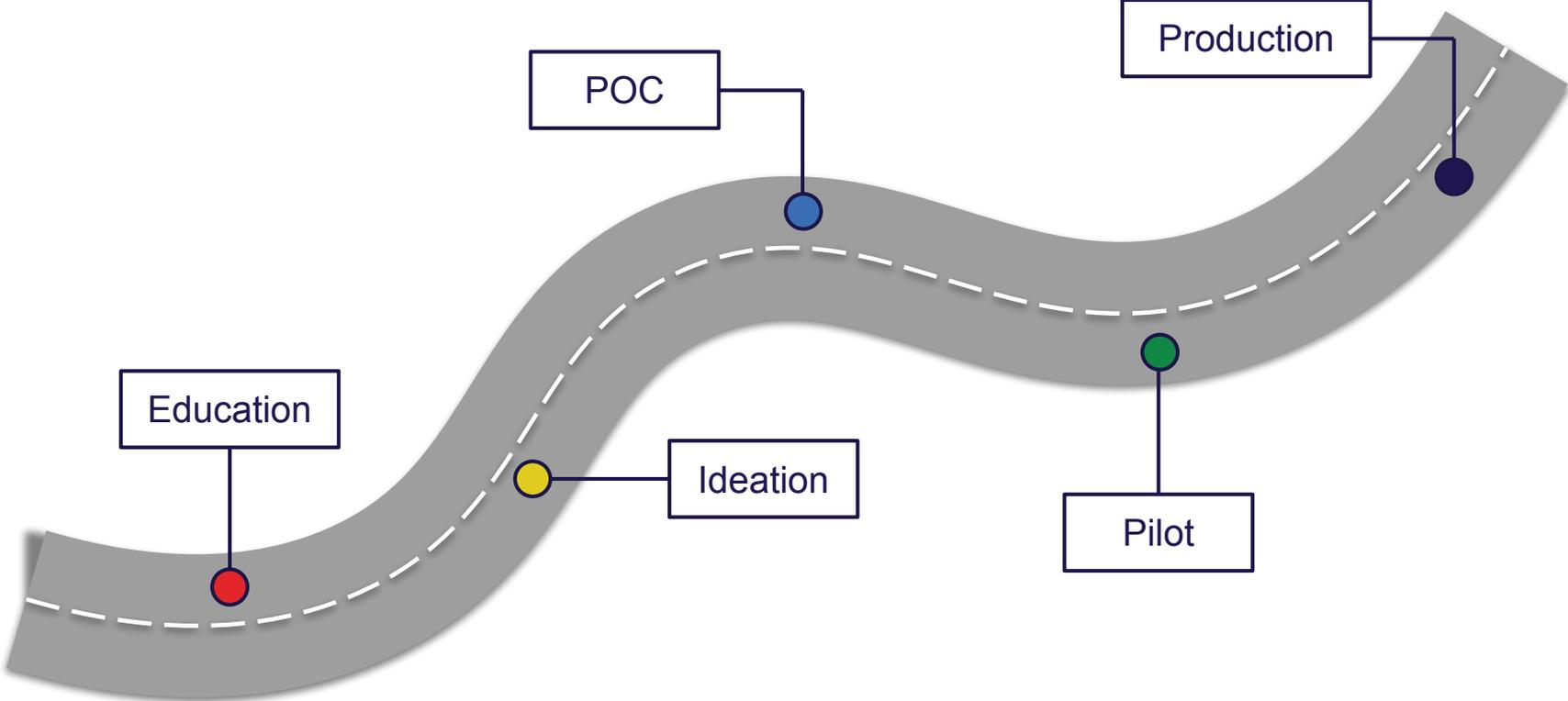
Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at <http://www.linuxfoundation.org/antitrust-policy>. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrave of the firm of Gesmer Updegrave LLP, which provides legal counsel to the Linux Foundation.

Agenda

1. Welcome & Meeting Housekeeping
2. Hyperledger Community Information
3. State of Blockchain in the Global Mortgage Industry
4. Introduction of the I AM Project
5. Introduction of the DeFi Subgroup
6. Future Agenda Topics
7. Q & A

The Blockchain Journey





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Community Information

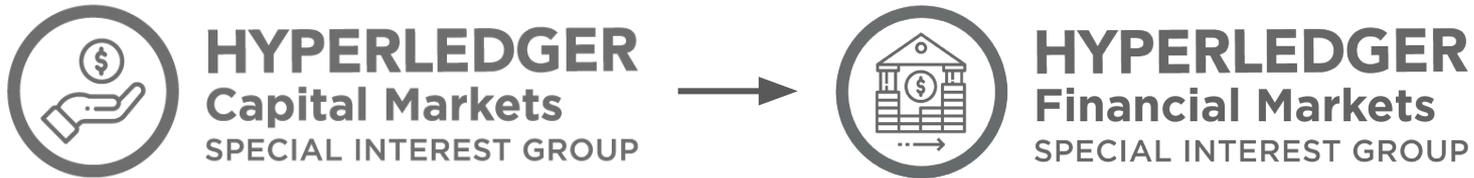
Name Change

The Capital Markets SIG is changing its name to the Financial Markets SIG

- The wiki has been updated
- The Capital Markets mailing list will be migrated to the Financial Markets mailing list

 <https://discord.gg/hyperledger> #cmsig-mortgage-subgroup

 <https://www.linkedin.com/showcase/hyperledger-capital-markets-sig>



Sitemap

Focus	Link
 <p>Helping open technology projects build world class open source software, communities and companies.</p>	https://www.linuxfoundation.org
 <p>Building enterprise blockchain ecosystems through global, open source collaboration</p>	https://www.hyperledger.org
 <p>Central knowledge base for Hyperledger's projects, labs, Working Groups, Special Interest Groups and other community activities</p>	https://wiki.hyperledger.org/
 <p>Central knowledge base the Capital Markets Special Interest Group (CMSIG).</p>	https://wiki.hyperledger.org/display/CMSIG/
 <p>Central knowledge base the Mortgage Industry Subgroup.</p>	https://wiki.hyperledger.org/display/CMSIG/FMSIG+Mortgage+Industry+Subgroup
 <p>Hyperledger's GitHub is for software version control and collaboration.</p>	https://github.com/hyperledger

How to create an LFID

Why do I need an LFID?

This allows you to:

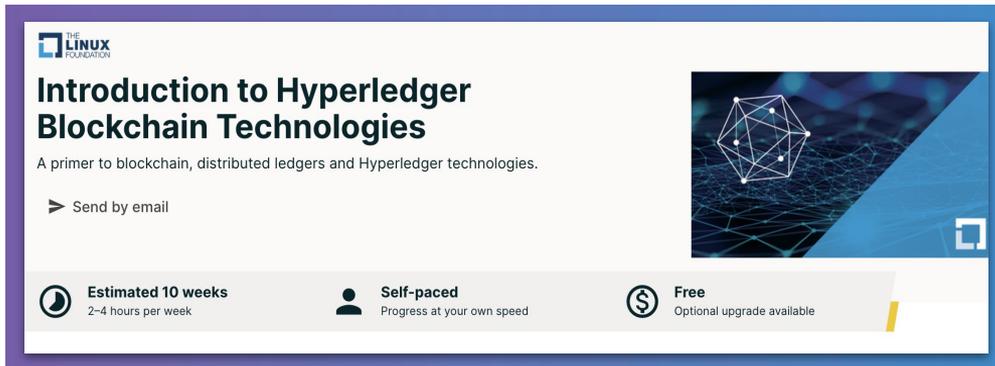
- Browse through the mailing list history on groups.io: <https://lists.hyperledger.org/groups>
- View, edit and add content to the Hyperledger Wiki
- Save them for both sites and you'll only login once!
- Use chat.hyperledger.org

Step-by-step guide

1. Visit <https://identity.linuxfoundation.org/>
2. Select "I need to create a Linux Foundation ID"
3. Choose a username, add an email and password.
Do not use any of the social login links.
4. Input your first and last name
5. Click "create new account"
6. Check your email and validate the account
7. Save your username and password so you don't have to login again! Your username = your LFID.
Remember that your email address is not the same as your username.

Watch quick 1.5 min video (click [here](#))

Blockchain Training FREE



THE LINUX FOUNDATION

Introduction to Hyperledger Blockchain Technologies

A primer to blockchain, distributed ledgers and Hyperledger technologies.

► Send by email

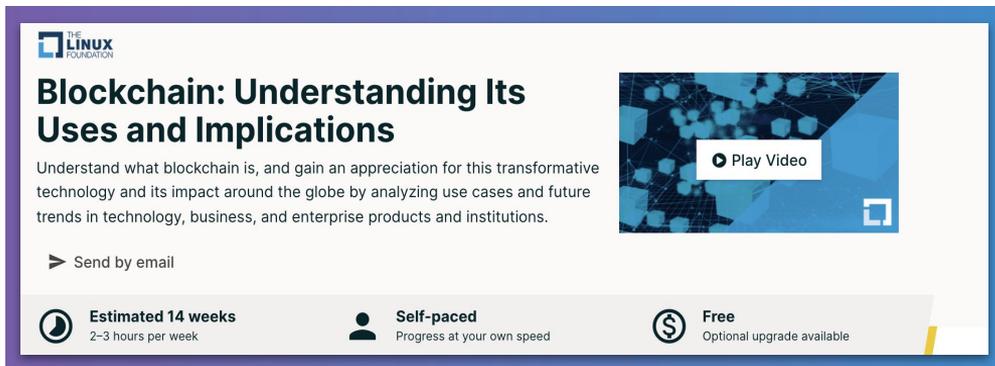
Estimated 10 weeks
2-4 hours per week

Self-paced
Progress at your own speed

Free
Optional upgrade available

Blockchain for Business – An Introduction to Hyperledger Technologies – **Enroll for Free**

A primer to blockchain and distributed ledger technologies. Learn how to start building blockchain applications with Hyperledger frameworks.



THE LINUX FOUNDATION

Blockchain: Understanding Its Uses and Implications

Understand what blockchain is, and gain an appreciation for this transformative technology and its impact around the globe by analyzing use cases and future trends in technology, business, and enterprise products and institutions.

► Send by email

Estimated 14 weeks
2-3 hours per week

Self-paced
Progress at your own speed

Free
Optional upgrade available

Blockchain: Understanding Its Uses and Implications – **Enroll for Free**

Understand exactly what a blockchain is, its impact and potential for change around the world, and analyze use cases in technology, business, and enterprise products and institutions

INTERNET

Your Internet ID: monopoly@host.yab.com

Getting Files

- [A] Find Files on the Net (Archie)
- [F] Get Files from the Net (FTP)
- [Y] File Transfers for Net Account

- [M] MUDs (Games)
- [I] Internet Teleconference (IRC)
- [T] Timin Interface for MUDs

- [B] UNIX Shell Access (BASH)
- [T] Connect to Other Sites (Telnet)

- [S] SLIP - Graphical Interface
- [P] PPP - Point-to-Point Protocol

Finding Information

- [G] Search for Information (Gopher)
- [W] Hypertext Search (WWW)
- [O] Query About Someone (Finger)

- [U] Internet Message Areas (Usenet)

- [H] Help Using Internet Functions
- [K] If You're Stuck at "Password"

- [C] How To Configure SLIP Access

The State of Blockchain in the Global Mortgage Industry

July 2022

Your choice (A,B,C,D,E,F,G,H,I,J,K,M,P,Q,S,T,U,W,Y or X)? :

(N)onstop, (Q)uit, (C)ontinue?

Menu: <Ctrl R-Shift>

2400 8N1

VT100

Online



Global Mortgage Blockchain Activity

2014 - 2021

2018 China | Bank of Communications issues blockchain mortgage

2018 Hong Kong | Bank of China (Hong Kong) blockchain mortgage valuations

2020 Russia | A subsidiary of the Raiffeisen Bank Intl. announces blockchain mortgage project

2021 Spain | New bill to allow crypto for mortgage purchase and payments

2021 Canada | Ledn Announced Bitcoin-Backed Mortgage Product

2021 UK | Real estate blockchain platform Coadjute raises \$8 millions

2022

2022 Canada | NFTs meet real estate: TerraZero Technologies

2022 Global | State Of Blockchain 2021 Global data for private market blockchain companies

2022 Global | Infosys - Accelerating Digital Transformation in the Mortgage Industry

2022 Canada | JPMorgan Takes Giant Leap Into The Metaverse – The \$1 Trillion Yearly Revenue Is Hard To Resist

2022 LATAM | Latin American regional blockchain network LACNet officially launches

2022 LATAM | Chainlink set to power Latin American real estate platform

2022 Australia | Blockchain 'significant' disruptor of mortgages

2022 Australia | REIWA launches blockchain training for WA real estate professionals

2022 Global | Key Considerations When Joining a Blockchain Consortium

2022 Australia | Blockchain breakthrough: bank guarantees digitised

Global Mortgage Blockchain Activity

Key Considerations When Joining a Blockchain Consortium - Mayer Brown

Most blockchain technologies are developed by foundations or consortia, the members of which are often representatives of the industry hoping to create and successfully deploy the technology. The range of industries that have discovered the benefits of joining a blockchain consortium is diverse. Regardless of the industry a number of common, key challenges must be addressed when creating or when joining a blockchain consortium. These include the governance; ownership and licensing; and any associated antitrust claims . . .



Blockchain breakthrough: bank guarantees digitised - Westpac Wire

Life is set to become a little more efficient for the thousands of retailers around Australia who use bank guarantees, after a consortium of major banks, a leading shopping centre owner and tech giant IBM pressed go on the commercial launch of blockchain-based platform Lygon.



US Mortgage Blockchain Activity

2018 - 2021

2014 | FACTOM blockchain mortgage technology (released 2018)

2018 | Figure blockchain Home Equity loans

2018 | Fluidity (acquired by ConsenSys) blockchain mortgage technology

2018 | Ginnie Mae announces blockchain project, Fannie Mae accepts Crypto for down payments*

2020 | Redwood Trust Announces Market's First Non-Agency Residential Blockchain MBS

2021 | Riverside County, California blockchain records

2022

2022 | Introducing the USDF Consortium

2022 | First U.S. crypto mortgage is launched

2022 | This Company **Wants** To Turn Your Mortgage Into An NFT

2022 | A list of startups in Seattle building crypto, blockchain, and Web3 technologies

2022 | What is DART?

2022 | FinTech & Blockchain Podcasts

2022 | Reno among first U.S. cities to experiment with blockchain, launching pilot project

2022 | Mortgage leaders break down the benefits of blockchain

2022 | New bank consortium to explore economic benefits of blockchain, stablecoin

2022 | FirstBank Executive on Why Banks Are Launching a Consortium to Mint Stablecoin 'USDF'

US Mortgage Blockchain Activity



New bank consortium to explore economic benefits of blockchain, stablecoin - S&P Global Market Intelligence
Community banks that try to break through legacy technology infrastructures are betting on blockchain to improve operational efficiency and drive the growth of deposits, loans and payments.

FirstBank Executive on Why Banks Are Launching a Consortium to Mint Stablecoin 'USDF' - Yahoo! Finance

FirstBank has joined the USDF Consortium, an association of FDIC-insured financial institutions, to build a network of banks to further the adoption and interoperability of a bank-minted stablecoin "USDF." FirstBank Chief Administrative Officer Wade Peery shares insights into the Consortium and the state of stablecoins as part of a larger discussion on the crypto markets.



FMSIG Mortgage Industry Subgroup

Created by Karen Ottori, last modified by James Hendrick about 5 hours ago



Welcome to the Mortgage Industry Subgroup

Purpose

To foster sustainable, inclusive communities through efficient, fair, and quality mortgage lending around the globe.

Vision

To securely close home loans as efficiently as an auto loan while delivering a superior digital customer experience.

Mission

To educate mortgage lenders, vendor partners, investors, real estate records custodians, and government agencies around the globe of production-ready blockchain technologies that support the global housing mission of creating sustainable, inclusive communities through efficient, fair, and quality mortgage lending.

Introduction

The Mortgage Industry Subgroup (MIS) is a global community who will focus on technical and business-level challenges within the Mortgage Industry and on developing applicable use cases for blockchain technology. The Subgroup will bring together business, technical, academic, and industry-related expertise to work together on blockchain education, use case identification, POCs and production implementations.

At the heart of financial services is trust and, as an industry, we rely on our technology to record the truth of each transaction. The life cycle of a mortgage has a complex framework, involving many entities, for example originators, servicers, investors, regulators, and a vast ecosystem of vendors and service providers. This complexity creates trust issues and transparency challenges with no clear mechanism to track end-to-end activities of every entity. Each party must maintain their own independent database of customer information, loan transactions, and third party information. Data must be validated, re-validated and financial transactions need to be reconciled with third parties. Blockchain can address many issues in the lifecycle of a mortgage with its decentralized and distributed ledger technology, with trustless operability, that is immutable and auditable.

Objectives

- Promote blockchain education for the mortgage industry participants across business, technical to government agencies and vendor/service partners
- Identify specific opportunities where the application of blockchain technologies can meaningfully advance the state of the mortgage industry
- Provide a foundation for real-world use case identification, blockchain technology alignment, and operational validation of technology fit for purpose

PAGE TREE

- Anti-trust Policy Notice and Hyperledg
- Chat Channel Tips
- CM Launch Blog - Launched
- CM-Members
- CMSIG-Taxonomy-Firstlevel
- CMSIG-Taxonomy-published
- Financial Markets SIG Charter
- Financial Markets SIG- Name Change
- FMSIG Bi-Annual Reports
- FMSIG Insurance Markets Subgroup (V
- FMSIG Mortgage Industry Subgroup**
 - CMSIG Mortgage Industry Subgroup
 - Mortgage Subgroup Meeting Notes
 - 2021-08-11 Meeting Notes
 - 2021-11-18 Meeting notes
 - 2022-01-13 Meeting notes
 - 2022-02-10 Meeting notes
 - 2022-03-10 Meeting notes
 - 2022-04-14 Meeting notes
 - 2022-05-12 Meeting notes
 - 2022-06-09 Meeting notes
 - 2022-07-14 Meeting notes
 - 2022-08-11 Meeting notes
 - TEMPLATE Meeting notes
 - Previous Mortgage Blockchain Article
- FMSIG-Projects
- Meeting notes
- Trade Finance Securitization

Resources

New to Hyperledger? You'll need a Linux Foundation ID (LFID) to edit our wiki p and chat on Hyperledger channels. [Here's how to get your LFID](#)

Mortgage Industry Subgroup: [Join the mailing list.](#)

Global Mortgage Industry Research

Key Considerations When Joining a Blockchain Consortium
by Mayer Brown



Blockchain breakthrough: bank guarantees digitised
by Westpac Wire



New bank consortium to explore economic benefits of blockchain, stablecoin

by S&P Global Market Intelligence





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I AM Project

James Schoening / Casey Rock



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Blockdaemon

Future Agenda Topics

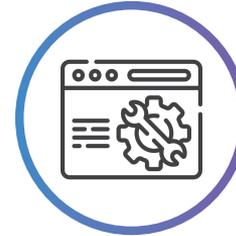
Business Case



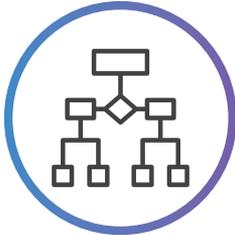
Demos



Technical



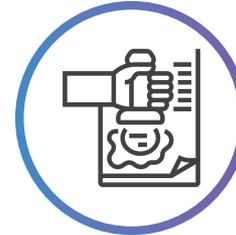
Use Case



Knowledge Share



Regulators



Future Agenda Topics

Date	Speaker	Topic
August 11, 2022	Karen Bellezza, Ranieri Solutions	Blockchain and mortgage servicing
TBD	I AM Project	Demonstration of Hyperledger wallet



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Mortgage Industry Subgroup

Q & A





HYPERLEDGER Financial Markets SPECIAL INTEREST GROUP

Thank You



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<https://wiki.hyperledger.org/display/CMSIG/FMSIG+Mortgage+Industry+Subgroup>

<https://www.linkedin.com/showcase/hyperledger-capital-markets-sig>