

Meta

- This is the agenda/notes doc that accompanies meetings for the [Filecoin Implementers Working Group](#).
- If hosts are having trouble opening the meeting room, they should follow directions [here](#).

Meeting Notes

YYYY-MM-DD Template

How to use this template

- ☐ Copy/paste the whole template
- ☐ Adjust the “YYYY-MM-DD Template” to be the actual date.
- ☐ Adjust the text color to black
- ☐ @mention each “Section Owner” with a comment on their row so they get the ping to update the table before the meeting.
- ☐ Delete this “How to use this template” section

Async Updates

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
Upcoming FIPs	lucky@fil.org			
FilOz	Orjan Roren			
Curio	andy@curiostor...			
Elliptic Research	nemo@ellipticre...			
Venus	steven004@gm...			
Forest	david.himmelstr... josh.dougall@ch... hailongmu@cha...			
FF Security	parth@fil.org			

Sync Agenda and Notes

2025-01-14

Async Updates

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
Upcoming FIPs	lucky@fil.org		Follow up with gas FIPs and understand Last Call readiness	Currently blocked on nv25 timeline and scope
FilOz	Orjan Roren	- FIP Draft: Remove Batch Fee for PreCommit and Lower BatchBalancer Removal of gas-limited constraints to gas-savings proposal	- Continued focus on moving GasFee related FIPs forward for nv25 - F3 items in Milestone 2 to be ready for nv25 upgrade timelines. - F3 update blog post FIP-0097 testing with Mikers in Butterfly network. 2025 Roadmap blogpost	
Curio	andy@curiostor...	Markets (Boost replacement) is in Beta.		
Elliptic Research	nemo@ellipticre...	Preparing a new feature release	- Cut a release when ready/tested - Look into shipping SuperSnaps	Most notable breaking change PR: https://github.com/filecoin-project/rust-fil-proofs/pull/1771
Venus	steven004@gm...			
Forest	Hubert Bugaj josh.dougall@ch...	Serverless faucet reaching first release. RPC regression testing feature.	Pushing forward the common node API FIP. More RPC work - benchmarking, proxy, fixes.	
FF Security	parth@fil.org			
Spark	Miroslav Bajtoš	We are working on a short-term solution adding DDO compatibility to Spark, leveraging		Can FIP editors please review our FRC proposal? IMO, the pull request is good enough to be

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
		IPNI Graphsync retrieval metadata to map payload blocks to deal PieceCID. https://github.com/space-meridian/roadmap/issues/218		merged with the FRC staying in the "draft" state. https://github.com/filecoin-project/FIPs/pull/1089 Have the Curio team made any progress on the new mechanism for linking miners to IPNI providers? https://github.com/ipni/specs/issues/33 What's the ETA for Boost using the new IPNI ContextID format described in our FRC?

Sync Agenda and Notes

- Spark callouts
 - FRC proposal -> What is needed to move it forward
 - Lucky to check in on the FRC:
 - Bring it forward to FIP editors
 - Editors will assign number
 - It will remain as Draft
 - <https://github.com/ipni/specs/issues/33>
 - Smart Contract
 - Spark<>Venus<>Curo to have a call tomorrow if timing works for Jimmy.
 - Miro sent an invite to Jimmy. If timing does not work, set up a separate call between Spark<>Venus.
 - ETA for Boost using the new IPNI ContextID format described in the Spark FRC
 - Considerable change on the Boost side. A few weeks to a month's work.
 - Other option: Migration from Boost → Curio easier/incentive.
- (Tippy) Moving notes to Notion
 - Moving notes over to Notion from Google Docs.
 - Reminder/Calendar
- (Orjan) NV25:
 - FIP-0097 accepted: Cutting actors-bundle dev-release, land migration work and test in Butterfly-network this week.
 - Forest will join (potentially) testing in the Butterfly network.
 - Danny<>Orjan<>Lucky → Timeline for nv25.
- (Nemo) Optional release
 - API breaking. Some of the calls are getting removed.
 - Updated dependencies
 - PR link:
- (Hubert)

- Common node API FIP - nothing needed to get unblocked just yet
- (Steve)
 - F3 update: Passive testing to find the correct parameters.
 - Would like to get the params set without going through the whole network upgrade process.
 - Will ping once the design document is ready.
 - PR link: <https://github.com/filecoin-project/go-f3/issues/800> e

2024-12-17

Async Updates

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
Upcoming FIPs	lucky@fil.org	- Merged FIP0097 and FIP0098 as active FIP drafts	• Governance processes for FIPs proposed for inclusion in nv25	- Clarity in who is leading which streams of work or improvements - Not a blocker, but it appears FilOz would coordinate upgrades and timelines end to end. Clarity on how governance can support this preferred process.
FilOz	Orjan Roren	- nv25 Calibration upgrade cancelled / F3 Optimizations - New and improved PDP contracts published on C alibration - Gas Analysis / FIP discussion posted: https://github.com/filecoin-project/FIPs/discussions/1092	• F3 optimizations in prep for nv25 timeline • PDP on mainnet • Short term gas optimizations • Winter break	
Curio	andy@curiostor...			
Elliptic Research	nemo@ellipticre...	- Continued testing on update deps work - Testing and reviewing current status of SuperSnaps code	If testing succeeds, looking forward to cutting a feature release	
Venus	steven004@gm...			
Forest	david.himmelstr... josh.dougall@ch...	Nv25 on hold	No plans. Just winter break.	

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
	hailongmu@cha...			
FF Security	parth@fil.org	- Continuing efforts to fuzz bad messages with the help from Steb. - Logged data races in lotus mpool in private fork.		

Sync Agenda and Notes

- 10 minutes - (Jennifer) DDO + Spark support
<https://github.com/filecoin-project/FIPs/pull/1089> (needs @jimmy, @mayank, @patrick/miro)
 - How to get it across to all the implementations, direction correct?
 - PieceCID only information that you have on-chain - need to get from there to the CAR-file.
 - Libp2p peerID is a major challenge
- 10 minutes - (AX/Irene) GasFee
 - Quick on gas analysis
 - [GasFee Analysis Dec 2024](#)
 - TL:DB
 - Next steps
- 10 minutes - (Orjan?/Danny) Revisiting nv25 scope timeline.
 - Scope:
 - (Orjan) F3 activation params - delegated authority to set these to reduce network cost of an additional upgrade?
 - <https://github.com/filecoin-project/go-f3/issues/800>
 - (Orjan) Timeline outlines

AI:

- GasFee:
 - Confirm the cross-over for the batching is only set in client, not in builtin actors (It is implicit in the actor code) ([Code](#))
 - For implementers: Updating the cross-over for batching would be a small builtin-actors code change / test change.
- DDO pipeline for reducing gas:
 - Curio relatively straight forward
 - FWIW, there is a devgrant to fund the implementation in Curio: <https://github.com/filecoin-project/devgrants/issues/1781>
 - Work need on the Boost side

- Unsure how backwards compatibility would be impacted
- A few days if there are not any compatibility issues.
- Mayank to put together an issue on how much work/compatibility impact that
- Send context to Jimmy to see how implementable it is on the Droplet side.
 - Separate conversations between Mayank/Jimmy/Miro (Jennifer to DM handles)
- Revisiting nv25:
 - AI: do <https://github.com/filecoin-project/go-f3/issues/800> to present to this audience in January
 - AI: Ask mikers about FIP-0096

2024-12-03

! This call is happening in <https://protocol.zoom.us/j/7855516001> (new zoom room)

Async Updates

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
Upcoming FIPs	lucky@fil.org	- FIP0096: Convert fundraising remainder address(es) to keyless account actor(s) - FIP0097: Add Support for EIP-1153 (Transient Storage) in the FEVM.	- Soft launch for the FIPs Tracking Tool - Further iterations on GovDocs - Ecosystem comms on F3 and nv25	- Internal team transitions might cause a slight delay in governance response. - Continue to contact Lucky on governance issues - Upcoming holidays and PTO. FF will be closed from the 23 of December to early Jan. - We need a code name for nv25
FilOz	Orjan Roren	- F3 passive testing on Mainnet - Scaled up from 10% to 100% - Posted daily recaps here. - Shipped new ChainIndexer subsystem in v1.31.0. - Created network skeleton for nv25.	- Continue passive testing on Mainnet and finalize params. - Get the F3 activation on the Mainnet train going.	
Curio	andy@curiostor...			
Elliptic Research	nemo@ellipticre...	- Currently evaluating/testing additional updated dependencies and rust toolkit version	- New (optional) release likely this week or next (or as needed)	

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
Venus	steven004@gm...	- Participating in F3 mainnet test	- Support more Venus nodes to participate in F3 test	
Forest	david.himmelstr... josh.dougall@ch... hailongmu@cha...	- Ported Lotus F3 CLI commands - Updated FVM and Cid deps - GC fixes	- Support more Eth RPC methods - Forest Faucet (mainnet release + improvements)	- Forest team is off between Dec 21st and Jan 5th (limited availability)
FF Security	parth@fil.org Ken Toler	- IR on-call schedules/rotations are active. We are working on additional improvements for categorized alerts (F3, FVM, Sync, etc.) - Continued work with different ecosystems (EF, libp2p, drand) to support the libp2p bug bounty program. - Continuous testing with multiple miners (for forks/F3 testing) and eth rpc correctness to follow.	- Integrating curio in next quarter. - Incident response detection improvements working with Zondax, Key nodes, Elliptic, and coinfirm - Incident response notification improvements through scheduling and team division - Addition of workloads to continuous testing (solidity, forks, version deviation) - Review of stablecoin audit support	

Sync Agenda and Notes

- **! This call is happening in <https://protocol.zoom.us/j/7855516001> (new zoom room)**
- (Orjan/Masih 5min) - Update on F3 passive testing on Mainnet.
 - Scaled up from 10% to 100% last week
 - The 100% test was run with equal power across all participants.
 - Bootstrap phase took around 75 minutes
 - Bandwidth usage peaked at around 17 MiB/s during bootstrap, and average across the bootstrap phase was 7.2 MiB/s upload and 5.6 MiB/s download.
 - Bandwidth post-bootstrap (steady state) is 2MiB/s upload and download for Lotus for F3.
 - Dashboard: <https://grafana.f3.eng.filoz.org/public/mainnet>
 - Reach out if there are any interesting logs.
 - James posted in the SPWG - wherever they have any limitations.
 - 1Gbps
 - Getting insights from Exchanges on bandwidth, mostly using AWS/etc.
 - Get some metrics on Bootstrap nodes with F3 enabled.

- Lotus and Forest bootstrap runnings on both Calibnet and Mainnet.
 - F3 probably is not enabled on those nodes just yet.
 - AI: Setup a passive testing round testing measuring Bootstrap performance during Bootstrap phase, and baseline bandwidth usage.
- Jimmy and Venus are working on getting Venus SPs to join passive testing efforts, so that we can run the same 100% test without any equalization in power to get a final true estimate, and let the 100% unrestricted passive testing run for 2-3 days before a full greenlight for mainnet activation.
- Forest participation?
 - [\(slack thread\)](#)
- (Orjan 5min) - F3 mainnet activation proposal / nv25:
 - Gained enough confidence that we can start the F3 / nv25 activation train.
 - Proposed dates for F3 activation/timeline:
 - December 4th: Actor/FVM Code Freeze
 - December 4th: Release candidates with Calibration upgrade epoch set
 - Orjan to calculate epoch for calibration
 - Orjan to kick off the Butterfly network tomorrow.
 - Orjan/Steve to create nv25 tracking document:
 - December 16th: Calibration Network Upgrade
 - December 18th: Final releases with mainnet upgrade set
 - January 14th: Mainnet Network 25 upgrade / F3 activation.
 - Why this timeline:
 - Christmas Holidays
 - Chinese New Years
 - Timelines are reasonable for Lotus, Venus and Forest.
- Ken - Alerts
 - Questions around alerts, can set in the app/settings
 - <https://filecoinfoundation.app.opsgenie.com/settings/user/notification>
(quick link for notification settings)
 - Rotation on teams. Currently just rotation based on time zones.
- Jennifer to kick
- Followup actions after meeting
 - Steve Loeppky : Book this meeting with a zoom account that won't have conflicts

2024-11-19

Async Updates

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
Upcoming FIPs	lucky@fil.org	N/A	- Follow up with F3 team for nv25 planning - Comms around nv24 Tuk Tuk upgrade - Community Governance Call - Core Dev structuring	F3 timeline blocking planning for nv25
FilOz	Orjan Roren	- FDS / Devcon 24 / Colo - Unblocked F3 on Calibration network	- Passive testing of F3 on Mainnet - Ensure transition to the new ChainIndexer for RPC providers goes smoothly. - Propose new timelines for F3 activation	
Curio	andy@curiostor...			
Elliptic Research	nemo@ellipticre...	Improved regression testing Upgraded hwloc dependency	Continued improvements on regression testing Considering novel ways to use new proofs in Filecoin (research limited)	
Venus	steven004@gm...			
Forest	david.himmelstr... josh.dougall@ch... hailongmu@cha...			
FF Security	parth@fil.org	- Continuous Testing Initiative in Antithesis successfully identified and resolved a F3 bug. Issue. - Testing and asserting more F3 related properties. - Incident Response telemetry, and alerts based on various sources.	- More tests covering F3, eth rpc's in Lotus, Forest and more implementations to follow. - IR alerts and telemetry aggregation.	Unable to bootstrap F3 before 900 epochs in devnet. Which takes ~4 hours in our simulation for F3 to start finalizing.

Sync Agenda and Notes

- 🚩 AI: hwloc dependency needs to be bubbled up to Filecoin-FFI (in a feature release)
- (Orjan) nv24 mainnet upgrade - 2024-11-20
 - Is ChainSafe Infra (snapshot/bootstrap node) upgraded?
 - Most likely kick off passive testing of F3 on Monday (2024-11-25)
- F3 on-call rotation
 - How are alerts being hooked up?
 - 🚩 AI: Test run for OpsGenie before christmas - Ken to post dates/time in the Implementers channel when it gets finalized.
- nv25
 - How many hours/days estimate for just creating a skeleton on the Forest side?
 - Unsure. Maximum a couple of days (2 days for the skeleton)
 - Hubert is back on December 2nd
 - F3-team will propose new timelines this week
- (Parth?) Want to bootstrap F3 before 900 epochs for F3 testing in a devnet. Any ideas?

October 22, 2024

🗎 Recording: (none planned)

Async Updates

Team/Area	Section Owner	🔄 Updates Since Last Meeting	➡ Upcoming Plans	! Callouts / Blockers
Upcoming FIPs	lucky@fil.org	- One new FIP PR- Simplify termination fee calculation to a fixed percentage of initial pledge	- Comms on Tuk Tuk Upgrade - Community Governance Call - Core Devs meeting - Nv25 priority tracking and circulating governance timelines for FIPs in scope for nv25	NA
FilOz	Orjan Roren	- Release candidate supporting nv24 is out. - A lot of F3 testing in the Butterfly-network. Big thanks to Forest for being very helpful during the testing phase. - Testing the revamped ChainIndex, and preparing to roll it out in the Lotus v1.31.0 release train.	- Creating Disaster Runbooks for F3. - Run through testing plans after the Calibration network upgrade epoch. - Prepare final release for Mainnet nv24. - Preparing for 🇳🇵	

Team/Area	Section Owner	← Updates Since Last Meeting	→ Upcoming Plans	! Callouts / Blockers
Curio	andy@curiostor...	Release 1.24.0 is out Oct-21	Testing: Markets, PDP, Forest, F3?	
Elliptic Research	nemo@ellipticre...			
Venus	steven004@gm...			
Forest	josh.dougall@ch... Hubert Bugaj	- Forest release supporting NV24 is out. - Keeping up with F3 updates - Curio running with Forest in CI - Confirm the workaround for F3 late participation issue - Lotus faucet datacap limit increased to 1GB	- Forest Faucet (serverless) - More ETH RPC methods - Preparing for 	
FF Security	parth@fil.org	- Successfully put the system under test in Antithesis environment. - Aggregating telemetry from various sources.	- Write and run assertions every night. Starting with eth_rpc, more to come. - Bug bounty program updates on impact items, F3 promotion and maybe platform change. - IR updates in terms of telemetry and alerting.	

Sync Agenda and Notes

- (Orjan) **Nv24:**
 - Upgrade time / epoch for Mainnet.
 - AI: Orjan to post proposal on thursday.
 - Set up F3-category in the incident response?
 - Use #fil-alerts-confidential.
- (Orjan) **Nv25:**
 - Logistics timeline
 - AI: Lucky to reach out the authors that currently has FIP PRs open
- (Steve) Newbie question (can skip): what are the differences between this meeting and core devs?
 - This can be done async.
 - I would like to document this in <https://www.notion.so/filecoinddev/Filecoin-Implementers-Working-Group-118dc41950c180d08a24f0869aae1c1c?pvs=4#81d2f9023795498f8680fe8e6c50bf3a>
 - Implementers sync
 - (Operational)

- Sync on priorities between implementer's teams
 - Hear about FIPs that are targeting certain timelines so implementation teams can see about aligning their work
 - Forum for implementation teams can say I want to work on X, can you please help with the actor portion while I do Y and Z?
- Core Devs
 - Protocol Development
- Go-f3:
 - Late participation. Hailong encountered an issue on Butterfly where joining late.

October 8, 2024

 Recording:

Async:

- FIPs upcoming priority:
 - Coordinating with FIP Editors, Implementing teams and Core Devs to prioritize FIPs in draft PR status ahead of upcoming upgrades.
- FilOz upcoming priority:
 - Nv24 rollout / testing: [nv24 upgrade tracking master doc](#)
 - Fast Finality
 - Proof of Data Possession
 - ETH RPC enhancements
- Curio upcoming priority:
 -
- Elliptic Research priority:
 - Improved proofs testing
 - Seal regression suite PR in review
- Venus priority:
 -
- Forest priority:
 - NV24 + testing - will join 🦋 likely tomorrow
 - Curio integration
 - Eth RPC
 - Rust F3.
- FF Security:
 - Continuous Testing SoW signed and working on deploying the network and documentation (Testing eth api, bls bug).
 - Fil-solidity threat model completed, output will feed the code audit, initial output discussion today
 - Bug Bounty Program improvements regarding policy and impact items

- Incident Response thresholds and alerting tools need input from the IR team, but we've begun to inventory alert metrics from implementers/contributors, please feel free to submit alerting/metrics/telemetry that would be helpful to the working group and we can ingest the data. JSON format should work if it's non-standard

Blockers?

-

Sync Agenda:

- **nv24:** <https://github.com/orgs/filecoin-project/projects/125/views/1>
 - Calibration network upgrade time/epoch: [Link to message](#). Proposal:
 - Calibnet NV24 network upgrade: 2024-10-23T13:30:00Z - Epoch 2078794
 - 21:00 in Beijing
 - 14:30 in London
 - 06:30 in Los Angeles
 - Calibnet F3 activation: 2024-10-24T13:30:00Z - Epoch —
 - 21:00 in Beijing
 - 14:30 in London
 - 06:30 in Los Angeles
 - 🎬 Orjan Roren to calculate new Calibnet F3 activation
 - Butterfly reset, assets will be uploaded [to this branch](#).
 - Venus to finalize release on October 12th
 - A reset to confirm we are able to migrate to nv24 and bootstrap, then Forest / Venus join
 - Another reset where all join on nv23 and migrate to nv24 + F3 activation together.
- **nv25:**
 - Post potential FIPs in consideration for the upgrade in this link: <https://github.com/filecoin-project/core-devs/discussions/183#discussioncomment-10880928>
 - SuperSnaps: Elliptic Research is looking for partners to work on builtin-actors / miner implementation - could potentially be a candidate for nv25.
- **Incident Response thresholds:**
 - Ping Ken Toler if you want access to the Incidents WG: <https://www.notion.so/filecoin/Filecoin-Crisis-Incident-Management-661a4ec8f5844da4bf2161816df96895?pvs=4>

September 24, 2024

📺 Recording:

Async:

- FIPs that moved to last call since the last implementer sync:
 - FIP0081: Introduce lower bound for sector initial pledge [ACCEPTED]
 - FIP0094: Add Support for EIP-5656 (MCOPY Opcode) in the FEVM [Last Call until 26 Sept 2024]
 - FIP0095: Add FEVM precompile to fetch beacon digest from chain history [Last Call until 28 Sept] The 2025 Upgrade Cycle can be found [here](#)
- FilOz upcoming priority:
 - Finish up F3 for nv24
 - Finalize go-f3, and cut a version.
 - Writing SP guide to F3.
 - Q&A session will be held this week: <https://app.sli.do/event/o6sXhJmazhhuZ2pCr9zqbf/live/questions>
 - General Network Version upgrade chores.
 - PDP
- Curio upcoming priority:
 - Requested features:
 - PDP
 - Bugfix: Cautious reindexing of shared paths
 - Object Storage (Minio) support
 - Boost replacement
- Elliptic Research priority:
 - Continued work on moving CI to Github Actions
 - Looking into NI-PoRep RAM usage/pattern
 - Improved [proofs testing still in progress](#)
 - Trying to finalize Seal proof regression suite
 - Looking into requirements for SealerID
- Venus priority:
 -
- Forest priority:
 - New Forest docs <https://docs.forest.chainsafe.io/>
 - F3 Sidecar integration into Forest
 - FIP-0081 finishing touches
 - Curio integration
- FF Security:
 - Incident Response Demo:
 - How to fire an incident notification
 - Locating incident documentation
 - Overview of incident response process
 - Got continuous testing harness working with drand + lotus+ curio + forest (in offline mode for the time being, but will integrate full node before starting the engagement).
 - Antithesis test cases [tracker](#) (WIP, will be adding more as we go forward). Feel free to enter any particular tests with more context on the board.

- Bug Bounty Optimization plan to increase researchers participation with more comms, improved/updated security policies, disclosures.

Blockers?

Sync Agenda:

- Overview of the new security incident documentation (Ken to present)
 - Priority Levels are a work in progress.
 - Real Meat is in the Incident Response Process.
 - Spam? Can potentially create a Slack group user group and restrict
- Suggested schedule/network version upgrade dates in 2025:
 - <https://github.com/filecoin-project/core-devs/discussions/177#discussioncomment-10672453>
- F3 update
- nv24: Built-in Actors / FVM Code Freeze coming up
 - FIP-0081 ready to merge? Ready by EOW

September 10, 2024

Async:

- FIPs that moved to last call since the last implementer sync
 - FIP0095 until 24 September.
- FilOz upcoming priority
 - F3 (Fast Finality)
 - PDP
- Curio upcoming priority
 - Unseal is arriving soon. Curio is a superset of lotus-miner.
 - In dev:
 - Curio Market (replacing Boost)
 - Premium
 - In design:
 - PDP, Market Protocol 2
- Elliptic Research priority
 - Data center hardware is all online
 - Still working on dev/testing configurations
 - Team access mostly granted across machines
 - Some work on [improving testing](#)
 - Working on [converting CI](#) to Github Actions
- Venus priority
 -
- Forest priority
 - Docs Revamp (sneak peek, ephemeral link <https://db5db64f.forest-docs-v2.pages.dev/>)

- F3 (sidecar integration + Rust implementation) Hailong Mu Roman Useinov
 - Curio workflow with Forest David Himmelstrup
 - Common Node API Guillaume Potier
- FF Security:
 - Continuous Testing.
 - Improving the Incident Response documentation and process.
 - Audit engagements.
 - Filecoin Security Explore Page: (<https://www.fil.org/security>)

Blockers?

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Sync Agenda:

- (Orjan) NV24
 - No feedback on revised timeline
<https://github.com/orgs/filecoin-project/projects/125> - means all is good 👍?
 ■ Reasoning for the revision posted in the core-devs [discussion forum here](#).
 - F3 activation is going to happen 2 weeks after the Mainnet network upgrade.
 - Network skeleton is in place (thanks krishang!!) - so people can start doing early testing of the builtin-actor changes in a local network.
 ■ Current test plans: [nv24 upgrade tracking master doc](#)
 - Burn down list: [nv24 upgrade tracking master doc](#)
- (Parth) Continuous Testing
 - Continuously test for every commit - reduce costs.
- (Orjan) Security Incident Tools on Slack
 - Next session, do a first pass of the new documentation/usage of the /report tool on Slack.
 - Do a session with each implementation
- (Jennifer) thailand events
 - Hacker house
 - FDS - Bangkok: <https://www.fildev.io/FDS-5>
 ■ (first draft of agenda)

 Actions:

- ☒ ~~Orjan to talk to Lucky on finalizing dates.~~
- ☐ Do a first pass of the new security incident documentation

August 27, 2024

Async:

- FIPs that moved to last call since the last implementer sync

- FIP0081: Introduce lower bound for sector initial pledge. Last Call until Sept 4
 - All FIPs in scope for nv24 should enter Last Call by **Aug 29, 2024** !
- FilOz upcoming priority
 - Fast Finality (F3) hardening and passive testing
 - Proof-of-Data-Possession
- Curio upcoming priority
 - Clean-up sealing flow edge cases (restarts)
 - Introducing membership for support with Batch Sealing & Consulting.
 - Sealing in CalibrationNet, NI-PoRep, Some UI improvements:

SpID	Sector	Expiry	Proving	Has Sealed	Has Unsealed	DealWeight	Deals	Fi+
1000	0	3675537	true	true	false	18KiB	Market: 0, DDO: 0	true
1000	1	3675537	true	true	false	18KiB	Market: 0, DDO: 0	true
1000	2	3675537	true	true	false	18KiB	Market: 0, DDO: 0	true
1000	3	3675537	true	true	false	18KiB	Market: 0, DDO: 0	true
1000	4	3675537	true	true	false	18KiB	Market: 0, DDO: 0	true
1000	5	3675537	true	true	false	18KiB	Market: 0, DDO: 0	true
1000	6	3675537	true	true	false	18KiB	Market: 0, DDO: 0	true

Showing 1 to 9 of 200 entries

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- Elliptic Research priority
 - Data center coming online (nearly complete!)
 - Converting CI away from CircleCI
- Venus priority
 -
- Forest priority
 - F3 sidecar integration
 - JSON-RPC Eth methods
 - Docs revamp
- FF Security:
 - Continuous testing.
 - Adding F3 to bug bounty promotion ~launch.

Blockers?

-

Sync Agenda:

- (Orjan) [NV24 Logistic Timeline](#)
 - MCOPIY taken up by the FIL-B team, and are pushing for nv24 inclusion:
 - Needed for FEVM to have compatibility with Solidity versions v0.8.25 and later.
 - FilOz plans to add a FIP for implementing support for EIP-2537, given that it is a prerequisite for Proof-of-Data-Possession, and are pushing for the nv24 timeline:
 - <https://github.com/filecoin-project/FIPs/pull/1048>

- F3 - Encountered an issue during the passive testing last week where the network never seems to reach a decision and we believe that this might be due to the lack of rebroadcast of quality messages.
 - This issue, needs an amendment on how this should be handled in the FIP, see thread here for more information:
<https://github.com/filecoin-project/FIPs/discussions/809#discussioncomment-10424988>
- (Orjan) Adjust timelines, to give more room for these to land?
- Constraints
 - DevCon finishes 15th
 - US Thanksgiving weekend is November 28 - December 1

October 2024							<	>	November 2024							<	>
S	M	T	W	T	F	S			S	M	T	W	T	F	S		
29	30	1	2	3	4	5			27	28	29	30	31	1	2		
6	7	8	9	10	11	12			3	4	5	6	7	8	9		
13	14	15	16	17	18	19			10	11	12	13	14	15	16		
20	21	22	23	24	25	26			17	18	19	20	21	22	23		
27	28	29	30	31	1	2			24	25	26	27	28	29	30		
3	4	5	6	7	8	9			1	2	3	4	5	6	7		

	Title	...	Needed by	...	New Proposal `Needed By Date`
1	🌀 FIPs need to enter Last Call		Aug 29, 2024		Sep 10, 2024
2	🌀 Actor/FVM Code Freeze		Sep 11, 2024		Sep 24, 2024
3	🌀 Lotus RC1 for Butterfly testing		Sep 11, 2024		Sep 24, 2024
4	🌀 Lotus <> Forest Interop testing		Sep 11, 2024		Sep 25, 2024
5	🌀 Lotus RC2 for Calibration network rollout		Sep 17, 2024		Oct 2, 2024
6	🌀 Calibration Network Upgrade		Sep 26, 2024		Oct 16, 2024
7	🌀 Lotus Final Release		Oct 16, 2024		Oct 30, 2024
8	🌀 Mainnet Network Upgrade		Oct 30, 2024		Nov 20, 2024

- AI: F3 timeline after going through the backlog.
- (Orjan) 📖 nv24 upgrade tracking master doc
 - Implementers that are targeting nv24 for their changes, should add a E2E testing plans in this section here:

- [FIP-0081: Introduce Lower Bound for Sector Initial Pledge](#)
 - [FIP-0094: Add support for EIP-5656 \(MCOPY\)](#)
 - [FIP-00XX: add EVM precompile to fetch beacon digest](#)
 - FIP-0086: F3 (Fast Finality)
- (Lucky?) 2025 network upgrade schedule (link: <https://github.com/filecoin-project/core-devs/discussions/177>)
 - Feedback
 - Align on this with the implementer/core-dev community first before bringing the whole community in it because if we make changes we have to explain it to everyone
 - Why not doing 3 upgrades (like we have done the last couple of years)
 - Maybe list out all the constraints we're watching out for (e.g., Chinese new year, other holidays)
 - Resistance to code freeze in January for nv25.
- (Parth) We need some recommendations w.r.t our current bug bounty impact items, leading to severity wars with researchers. Doc:
 - Filecoin's bug bounty program impact items refactor
 - ~~AI: Implementers to provide feedback in the document~~



Actions:

- ☒ ~~Make this document public (at least to read/comment) — Completed~~
- ☐ Make clearer the recording expectations of this meeting. (If we are recording, then that should be a step at the beginning of the meeting and posting the recording as a step at the end.)

August 13, 2024

Async:

- FIPs that moved to last call since the last implementer sync
 - NA
- FilOz upcoming priority
 - F3 Passive Testing on Mainnet: <https://github.com/filecoin-project/lotus/discussions/12287#discussioncomment-10265774>
 - Lotus Chain State Indexing fixes
 - CLI for internal consistency testing of mainnet endpoints
 - NV24 skeleton
- Curio upcoming priority
 - Helping curio-supraseal roll outs.
 - General Curio support
 - Boost-into-Curio effort:
 - This will make accepting deals as easy as a checkbox for those who have already `apt install curio`
 - I heard SealerID FIP may make it to “last call”.
- Elliptic Research upcoming priority

-
- Forest upcoming priority
 - F3
 - Working on an RPC cross-client test suite
 - Looking for beta users who are willing to test-drive it
- Venus upcoming priority
 -
- Starboard upcoming priority
 -
- Blockers:
 - [Fip0081 gradual activation by kkarrancsu · Pull Request #967 · filecoin-project/FIPs \(github.com\)](#) → what is the next step here?

Sync Agenda:

- NV24 Timeline: <https://github.com/orgs/filecoin-project/projects/125>
- Resource to work on adding MCOPY to evm?
 - Forest prefers not working on it as of now due to other constraints (f3)
- F3 update (Forest):
 - <https://github.com/ChainSafe/forest/issues/4552>
 - Go-lang implementation and rust implementation at the same time.
 - For the nv24 timeline going to use the go-f3 implementation.
- Forest Infrastructure (Archival node)
 - Has a Calibnet archival node already running.
 - Mainnet archival also runs. But has not been tested as a boot-node
- <https://forest-archive.chainsafe.dev/list/>
 - Missing May 30, 2024 to last 14 days.
 - Forest needs more user-input if this is needed.
 - SealStorage: need to go back in time to get certain sector data
 - Also doing indexing
- Calibration network status:
 - Curio moving machines - onboarding data to the calibration network.
 - Jimmy (Venus) - looking into the sector expiration for their calibration node.
 - Power distribution in case of a “disaster” (wrong implementation update) during a network upgrade.

July 30, 2024

Async:

- FIPs that moved to last call since the last implementer sync
 - FIP0086 F3 in Last Call until August 2.
- FilOz upcoming priority
 - Mainnet nv23 upgrade next week - August 6th, 2024.
 - Continued testing of F3

- Aiming for full deployment in nv24.
 - FEVM Tech Debt
 - NV24
- Curio upcoming priority
 - Supraseal, replacing Boost, markets, consulting, testing, calibration sealing.
 - Integrating NI. Hoping sealerID & deadline shifting will make it.
 - Far more tests.
- Elliptic Research upcoming priority
 - Can't attend today
 - Working on configuring machines at our data center
- Forest upcoming priority
 - F3
 - Automated mining testing with Curio
- Venus upcoming priority
 -
- Starboard upcoming priority
 -
- Blockers:
 -

Sync Agenda:

- (Orjan) NV23 check-in:
 - Stable releases out?
 - Venus: Stable release is out
 - Forest: Stable release
 - Boost: Compatible release out today.
 - Chainsafe infra has been upgraded to the latest releases.
 - Bootstrap problem between Lotus <> Forest been fixed.
- (Orjan) NV24:
 - Go through FIP Implementation tracker:
 - <https://github.com/orgs/filecoin-project/projects/113/views/7>
 - Timeline: <https://github.com/orgs/filecoin-project/projects/125/views/1>
 - Is it possible to have the F3 implementation in Rust completed by September on the Forest side?
 - AI: Get some ETA on complete implementation from the Forest team.
 - Milestone breakdown shared with F3-team.
 - Constraints for this upgrade are late this year/do not want to push into late into the year. See if everything can be done before the travel starts.
 - Potentially reduce scope for the NV24 upgrade, given tight timeline
 - Suggestions for name:
 - <https://github.com/filecoin-project/core-devs/discussions/150#discussioncomment-6889606>
 - SealerID

- FilOz can help move the design/FIP forward. Currently not in place to be put up as a DRAFT.
- <https://github.com/filecoin-project/FIPs/discussions/1034> - Jennifer needs to update the design (has a new design in mind). Not able to make it for nv24.
- SuperSnap:
 - AI: Reach out to Nemo and ask if they have availability to implement the Actor/FVM work.

July 16, 2024

Transcript: <https://app.fireflies.ai/view/Imp-Sync::XQUIL3qLCwmGmVRu>

Recording::

https://protocol.zoom.us/rec/share/p5Dcf-04FnT9pHTVpw7kkMQYUxIx1pBG5CszXfjAqRhtnukQyHI_o8Q4rUy5DXw.QayBScD-BmHbTrvk

Passcode:9d+g#Lk#

Async:

- FIPs that moved to last call since the last implementer sync
 -
- FilOz upcoming priority
 - Chipping away at the burndown list in [\(publicly viewable\) nv23 upgrade tracking master doc](#), in preparation for Mainnet nv23.
 - F3 edge case testing in Butterfly-network.
 - Writing up new FIP proposals:
 - <https://github.com/filecoin-project/FIPs/discussions/1034>
 - <https://github.com/filecoin-project/FIPs/discussions/1036>
- Curio upcoming priority
 -
- Elliptic Research upcoming priority
 -
- Forest upcoming priority
 - Continue work on RPC compatibility with Lotus (for Curio),
 - F3 implementation starting soon (interfacing with go-f3)
 - The Waffle logo is on main!
- Venus upcoming priority
 -
- Starboard upcoming priority
 -
- Blockers:
 -

Sync Agenda:

- (Orjan) NV23 timeline:

- Final builtin-actor bundle:
 - <https://github.com/filecoin-project/builtin-actors/issues/1569>
 - Monday next week seems fine.
 - Mainnet upgrade date/epoch
 - Everybody on track for Mainnet Upgrade 6th of August?
 - Everybody is on track.
 - Time of the day - was the Calibnet time okay?
 - 12:00 6th October UTC
 - Anyone we can ping with regards to ensure t04040 is upgraded and ready for calibration network upgrade next time?
 - For nv24: Venus will ensure that they upgrade daemocles two days ahead, so that we do not see large power fault/forking during network upgrade day on calibration.
 - (FIPs movie to last call)
 - No new FIPs have been moved to the last call since the last implementers sync.
 - New discussions potentially pushing for NV24 scope?
 - (Potentially in scope/pushing for nv24?)
 - <https://github.com/filecoin-project/FIPs/discussions/1034>
 - (Potentially in scope/pushing for nv24?)
 - <https://github.com/filecoin-project/FIPs/discussions/1036>
 - AI: Lucky will post callouts in different channels, to ensure that people start posting
- ☒ ~~Orjan to post upgrade epoch in #implementer channel. Everybody else double check upgrade epoch.~~
- ☒ ~~Lucky will post callouts in different channels, to ensure that people start posting what FIPs they are pushing for in nv24.~~

June 25, 2024

Attendees:

Async:

- FIPs that moved to last call since the last implementer sync
 -
- FilOz upcoming priority
 - First builtin-actors RC:
 - <https://github.com/filecoin-project/builtin-actors/releases/tag/v14.0.0-rc.1>
 - NV23-testing and rollout
 - 🚫 having some trouble with resetting butterfly cuz we seem to be losing access... debugging ongoing - aiming to have a butterfly by EOD tmr
 - <https://github.com/orgs/filecoin-project/projects/118/views/1> is up to date
 - Made a checklist here [nv23 upgrade checklist](#)

- F3 is in lotus <https://github.com/filecoin-project/lotus/pull/12119>
- Curio upcoming priority
 - Better testing
 - Better isolation from Lotus changes.
 - Snap basics
 - SupraSeal integration
- Elliptic Research upcoming priority
 - Final (hopefully) nv23 proofs/api/ffi release cut last week
- Forest upcoming priority
 - NV23
- Venus upcoming priority
 -
- Starboard upcoming priority
 -
- Blockers:
 - Forest needs Lotus with integrated actors v14.0.0-rc.1 for NV23 testing
 - Master && release/v1.28.0
 - Is FVM release for NV23 already out?

Sync Agenda:

- NV23 -
- Nv24
- <https://github.com/filecoin-project/core-devs/discussions/150#discussioncomment-9653703>
- Activation pledge bug - technically feasible for gradual activation, but needs more info on WHY designing the protocol that way
- <https://x.com/protocollabs/status/1748400623463039421>
- Ffi - major/minor or minor/patch to reflect upgrade releases for curio to follow

June 11, 2024

Attendees:

Async:

- FIPs that moved to last call since the last implementer sync
 -
- FilOz upcoming priority
 - F3
 - Kick off butterfly testing of NV23
 - Help getting FIP-0092 implemented and across the finish line for NV23.
- Curio upcoming priority

- GA rollout & related bug fixes
 - Snap deals
 - Round-up of existing bugs & feature requests
 - Working with DCent on their rollout
- Elliptic Research upcoming priority
 - FIP-92 updates ready in PR form in proofs
 - When release?
- Forest upcoming priority
 - NV23
 - Mining (Curio/Web3mine)
 - IPV6 bootstrap nodes
- Venus upcoming priority
- Starboard upcoming priority
- Blockers:
 -

Sync Agenda:

- (Orjan) Butterfly-testing for NV23
 - Forest think they are ready to start testing
 - Venus just started in their DC
 - Orjan to share branches/tags across repos in the implementer channel - with proposed upgrade for Butterfly network.
- Filecoin API standard
 - Still working on posting the FIP
 - High prio, not sure when it is
 - Defining the scope.
 - Send out a draft once its ready.
- IPv6 support on the Bootstrap nodes:
 - DNS / DNS6 -
 - Multiaddress pointing to IPv4 only currently
 - Add new entries to the Bootstrap-list for users that want to connect with IPv6.
- F3:
 - Protocol defined.
 - Working on getting the Lotus integration complete.
- NI-PoRep testing
 - Proofs testing in future FIPs:
 - The more testing the better.
 - Elliptic in the process of setting up testing servers in a datacenter - ETA: 1 Month before its ready.
 - Proofs release next week after Nemo is back from OOO.
- Sealed sectors - Calibration network
 - Not something they are actively supporting as of now. But they will look into help onboard

- James to reach out to SPs in the SPWG, ask if there is any that can help onboard Forest to the Calibration network.
- Performance boost on Bootstrap nodes after migration off Amazon.

May 28, 2024

Attendees:

Async:

- FIPs that moved to last call since the last implementer sync
- FilOz upcoming priority
 - F3 Implementation (FIP-0086)
 - Proof-of-Clear-Data FIP
 - Decouple Lotus / Lotus-Miner
 - Support Web3Mine with FIP-0090
- Curio upcoming priority
 - Split to 2 new repos: /curio and /apt
 - GA planned for early next week.
 - Forrest compatibility testing.
 - MinerX not working out: nobody is showing up.
- Elliptic Research upcoming priority
 - Cutting patch release of (proofs) API today
- Forest upcoming priority
 - RPC methods for Curio, implementation and testing
 - RPC methods for Boost, implementation
 - NV23 features implementation and testing
 - FIPs
 - Stateless node performance
- Venus upcoming priority
- Starboard upcoming priority
- Blockers:

Sync Agenda:

- (Jennifer) nv23 - go through scope and timeline
<https://github.com/orgs/filecoin-project/projects/118/views/1>
<https://github.com/orgs/filecoin-project/projects/113/views/8>
 We need a name for the upgrade
<https://github.com/filecoin-project/core-devs/discussions/149#discussioncomment-6889555>
- Filecoin API standard
<https://github.com/filecoin-project/lotus/issues/12011>
 Forest team is going through the apis & having openrpc spec docs created
 Targeting EOW
 Filecoin eth API diverges from eth api spec, double check

- (Orjan) Filecoin Developer Summit - Brussels:
 - Tracklead for: *The Future: Filecoin Protocol Evolution* track
 - Submit a panel/talk/discussion:

<https://airtable.com/applHziZwJRdE1BK2/shrPRcDUUXfGldYIn>
- (Orjan) NI-PoRep:
 - Simplify the FIP by removing the ability to submit batch proofs and always require aggregates:

<https://github.com/filecoin-project/FIPs/discussions/854#discussioncomment-9575123> ?

May 14, 2024

Attendees:

Async:

- Lotus upcoming priority
 - F3 Implementation (FIP-0086)
 - Implementing and test FIP-0084, FIP-0091, FIP-0065, FIP-0085
 - Support Web3Mine with FIP-0090
 - Proof-of-Clear-Data FIP
- Curio upcoming priority
 - Working toward a feature superset of lotus-miner for GA
 - Starting MinerX
 - Implementing Unseal, Snap in Curio
- Elliptic Research upcoming priority
 - Proofs release coming this week (NI-PoRep)
 - NI-PoRep audit is still ongoing, hoping any feedback can be in the release, but it may not happen (just meaning a new release will be required before mainnet)
 - FVM will need releases pointing to new proofs after our releases
- Forest upcoming priority
 - NV23
 - Testing with Curio
 - IPV6 Support being added to bootstrap nodes
- Venus upcoming priority
 -
- Starboard upcoming priority
 -
- Blockers:
 - Needs review on some eth api/tx stuff, anyone is familiar with that and can help taking a look?

Sync Agenda:

- NV23 scope and timeline
 - Discuss timeline and coordination with F3 team, come up with a suggested timeline for nv23:
<https://filecoinproject.slack.com/archives/C05P37R9KQD/p1715611189644279>
 - Status update on FIP-0081, and FIP-0084. Currently have these set as  wrt being on-track.
 - FIP-0081: Confused by the process. FIP has not been updated, changes sent in Google Doc. FIP authors do not know how to code, so they would need help to write the spec (gradual activation). Which version should the spec be written on.
 - Potentially export the google docs as markdown and add to the FIP.
 - FIP-0084: Too optimistic. Zen will pick it up in three days. Code currently in draft. A lot of tests need to be updated.
- Curio - Targeting implementing NI-PoRep in June.
- Most of the upgrade overhead comes from the skeleton, testing work, rollout. Coordination with community (starboard, exchanges, API-service providers, SPs)
- F3 - Working towards including f3 in passive mode for nv23.
 - Proposal for passive testing:
https://docs.google.com/document/d/14hMFN95_AsByBh7iMc4r_czUgg8tfjHQ1gTsmmHZ8jl/edit
 - Passive testing in nv23 and full rollout in nv24.
 - Don't need the FIP to be fully accepted for it to be "included" in nv23.
 - Believe it's ready to go through Last Call.
 - Forest and Venus can take the integration over time. Talk with FF to get Forest F3 audited as well.
 - F3 protocol itself is implemented.
 - Working on two other avenues: libp2p transport and Lotus integration. Review anything that is hard to change later.
- Calib pre-miner
 - Last time we talked about it was before nv22.
 - Waiting on pre-sealed sectors.

Action items

- ☒ ~~Orjan/Josh - Setup meeting on pre-miners~~
- ☒ ~~Forest/Hubert to comment in the slack thread about nv23~~
- ☐ Jen/Masih to give f3 timeline update in
- ☒ ~~Orjan - Give NI-PoRep timeline update~~
- ☒ ~~Aayush to review PR about ETH API / tx stuff.~~

Notes:

-

Apr 30, 2024

Attendees:

Async:

- Lotus upcoming priority
 - F3
 - NV23 skeleton
 - FIP-0090: NI-PoRep (Code reviews, Audit)
 - FIP-0091: Add support for legacy Ethereum transactions
 - FIP-0065: Ignore built-in market locked balance in circulating supply calculation
 - FIP-0084: Remove Storage Miner Actor Method ProveCommitSectors
 - FIP-0085: Convert f090 Mining Reserve actor to a keyless account actor
- Curio upcoming priority
 -
- Elliptic Research upcoming priority
 - NI-PoRep APIs in testing
 - Target proofs code freeze date (to make May 23 date)?
- Forest upcoming priority
 - RPC methods for mining
 - F3
 - FIP-0079: syscall for aggregated BLS verification
 - Other missing v0/v1 RPC methods sorted by usage
- Venus upcoming priority
 -
- Starboard upcoming priority
 -
- Blockers:
 -

Sync Agenda:

- NV23 timeline: Code-freeze date May 23
 - Thread in `fil-fips` channel about nv23 waiting for F3? [Please weigh in here](#)
- Network upgrade times:
 - Jimmy Zhang suggested moving the upgrade window for future network upgrades from 14:00:00Z to 12:00:00Z.

- Creating a nv23 testing devnet: Any wants of tutorial + script of how to spin-up a devnet with custom actor bundle?
 - Goal: Increasing knowledge, and faster way for implementers to e2e test FIP code?
 - What is your current largest blocker/issue of testing FIPs e2e?

Action items

- ☐ SuperSnaps move to nv24 - Venus pair up with Elliptic Research for Actor code / Client integration
- ☐ F3 ships only as a testing version, without predetermined upgrade epoch.
- ☐ Create docs for testing ref-fvm changes in a local dev-net (Lotus).

Notes:

- F3 components can be re-used by both Venus and Lotus.
 - Would need more resources, if Venus has availability Lotus could need help.
 - Potentially shipping F3 as a testing version in nv23 - Still some design questions that are being determined.
 - (Jimmy) High priority for the network/ecosystem.
- FIP-0079 - Forest on track with work
- Fully dockerized environment for testing actors/ref-fvm code.
 - Docs to test ref-fvm in testnet locally would be super helpful (Shashank)

Apr 9, 2024

Attendees:

Async:

- Lotus upcoming priority
 - nv22
 - Prep nv23 skeleton
- Curio upcoming priority
 - Boost released: support
 - NV22 bugs
 - Working toward shipping Curio Beta
<https://github.com/filecoin-project/lotus/issues/11754>
 - jennifer@filoz.org question: go-fil-markets seems widely used as the Lotus market client, but unused in Boost. Is it obsolete?
- Proof upcoming priority
- Forest upcoming priority
 -
- Venus upcoming priority
 -
- Starboard upcoming priority
 -

- Blockers:

-

Sync Agenda:

- Network Version 22:
 - Revised upgrade timeline due
 - Epoch 3855360 - 2024-04-24 - 14:00:00Z

Action items



Notes:

-

Mar 12, 2024

Attendees: hubert@chainsafe.io josh.dougall@chainsafe.io Orjan Roren James Bluett
 Aayush Rajasekaran shashank@chainsafe.io Steven Allen Masih Derkani Kuba Sztandera
 Hamid, Samuel, Lauren Spiegel

Async:

- Lotus upcoming priority
 - Mainnet nv22
 - F3
- Forest upcoming priority
 - Mainnet nv22
 - F3
 - Complete (or at least MVP) JSON-RPC endpoints
- Venus upcoming priority
 - Mainnet nv22
 - F3
- Blockers:
 -

Sync Agenda:

- (Orjan) nv22
 - State validation check in snapshot production (Lotus <> Forest)
 - Protocol Office Hour - NV22 Implementers AMA - Next Tuesday .
- (Jennifer) nv23

○

Action items

- ☐ Orjan to obtain DDO readiness reports from ecosystem partners
- ☐ State validation check in snapshot production - ChainSafe - ETA 2 weeks
- ☐ Resolve faucet spam protection issues - ChainSafe
- ☐ Implementers to indicate availability for NV22 Q&A
- ☐ ChainSafe to implement new Calib miners following successful roll-out of NV22 on mainnet (April 2)
- ☐ Orjan to share GitHub “snapshot snake” link async.

Notes:

- Forest working on RPC-endpoints
 - Got a list of endpoints from Glif.
 - Missing 25/63 endpoints.
 - Formalize with the JSON-RPC schema / Potentially get a standardization
- Orjan is pleased that we didn't kill Calib!!
- Invariants following Calibration upgrade do not pose an issue.
- Snapshot comparison on Calibration working
 - Next step is getting it working on Mainnet in the next two weeks.
 - Logic working. Implementation details working.
 - Faucet working, seeing some “spam protection issues” from end users but will iron those out.
- Josh (ChainSafe) asked about priority of ChainSafe Calib miners
 - Orjan explained issues encountered during infra changeover where existing PL Calib miners lost power. New Calib miners should be a priority AFTER NV22 lands on mainnet.
- F3 - Steven, progress is ongoing.
- Orjan briefly explored NV23 timeline - [link](#)
- Josh & Hamid - ChainSafe - “Is there any way to speed up snapshot generation on Lotus, other than just throwing more power at it?”
 - Currently no. Lotus is slow.

Feb 13, 2024

Attendees: Orjan Roren admin@yablu.com Andrew Jackson
david.himmelstrup@chainsafe.io shashank@chainsafe.io josh.dougall@chainsafe.io
hubert@chainsafe.io Aayush Rajasekaran Steven Allen Kuba Sztandera

Async:

- Lotus upcoming priority
 - Land migration migration code - last piece missing for Lotus v1.26.0-rc1.
 - F3
 - NI-PoRep
- Forest upcoming priority
 -
- Venus upcoming priority
 -
- Blockers:
 - The migration has proven to be very complex, difficult to land and build confidence in. If we can't land the migration code by the EOD today, I (phi-rjan) suggest we need to propose another push of upgrade deadlines to allow for a 2 week window for the ecosystem to prepare for the calibration upgrade.
 - Forest needs a Lotus branch (not necessarily a release) with migrations to test its own state migrations.

Sync Agenda:

- (Orjan) Sync on the Migration blocker - Current nv22 timeline - potential extensions of upgrade timelines if we are not able to land the migration.
 - Both Orjan and Aayush have expressed a lack of confidence with the proposed migration as it currently stands.
 - Migration on the Calibration network will not have enough states to give us an understanding if it's correct or not.
 - Forest implemented the migration by looking at FIP+Go-State-Types PR
- Cross implementation Drand testing
 - Have the switch at +120 epochs away from the nv22 upgrade?
 - Aligned on it falling 120 epochs after nv22, so it's an hour later than the upgrade.
- Fast-Finality:
 - Currently in the process of writing up a document on how it can be implemented in Forest, but there currently is no issues based on how its written in go-f3.

Action items

- ☒ Urgent: ~~Gather implementer consensus on potential extension to current planned upgrade epochs and propose to core devs in the event agreement is reached.~~
- ☒ Urgent: NV22 Migration sign-off from Alex North and Steb
- ☒ Implementer alignment on NV22 migration testing strategy and results

- ☒ Agreement on 120 epochs prior to NV22 upgrade
- ☒ Orjan: Calibration network communication channels to respond to.
- ☒ Forest creating document for F3 in Forest
- ☒ Upcoming NV22 testing on Butterfly testnet — Implementers to request specific testing tasks as required.

Notes:

- Reduced attendance due to CN New Year

Jan 16, 2024

Attendees: Orjan Roren James Bluett david.himmelstrup@chainsafe.io
hubert@chainsafe.io lee@chainsafe.io nemo aatif@chainsafe.io Jennifer Wang , Josh,
Hailong, Guillaume, shashank@chainsafe.io Steven Allen Andrew Jackson
Aayush Rajasekaran Lauren Spiegel

Async:

- Lotus upcoming priority
 - DDO
 - nv22 - Butterfly network reset/testing
 - F3-finality
- Forest upcoming priority
 - Snapshots
 - Bootstrap nodes
 - RPC nodes

- Archival nodes
 - Mining (via `lotus-miner`)
- Venus upcoming priority
 - NV22 upgrade.
 - Splitstore test.
 - WindowPost robust optimization.
- Blockers:
 -

Sync Agenda:

- (Orjan) Nv22 - timelines:
 - Jan 30th - Actors/FVM code freeze.
 - Feb 20th - Calibration network upgrade.
 - March 18th - Mainnet upgrade.
- Nv22 State Migration:
 - Do a pass on the FIPs for nv22 - and do a second cross-check
- Drand implementation:
 - Wrong number on the Quicknet?
 - PR is ready for review - needs
 - Run tests on mainnet as well
 - Spin up 2k-network that switches to the new Drand-network.
 - Needs the branch that has the Drand implementation (lotus-miner).
- Direct Data Onboarding
 - Migration only needed on the Forest side.
 - Introduces 2-3 methods.
- Actor Events
 - Adding events to built-actors - gives visibility into DDO-flows.
 - Need new gas-numbers to move from draft to last-call.
 - Creating a API to expose those events
- Fast Finality
 - Steven (Venus) will be absent in today's meeting - His priority is F3 particularly for cross-chain interaction.
 - Not an issue to implement on the Forest side as of now.
 - Planned an extended period of testing for this FIP - cross implementation testing.
 - Forest is going for a completely separate rust implementation of F3
 - Roman (Forest) to join F3 sync.
 - Unclear of security audit for a Rust-implementation
 - Asking FF for a budget for security audit for this change. (Should be an audit for both the go and rust implementation)
- Lotus-Miner <> Forest node
 - "Still working on it. So far soo good on"
 - Rod (rvagg) is looking at decoupling Lotus and Lotus-Miner. Clean interface (RFC-standard).
- Bootstrap nodes

- Calibnet - and then transition to mainnet.
- Drand Outage testing
 - Core need: Infrastructure for doing the test.
 - Calibration uses Drand-mainnet - so testing can't be done on Calibration. Butterfly proposed.
 - Getting a bit stretched on resources.
 - After the February code freeze, commit to testing it?
- Cadence on the meeting:
 - Current cadence is fine
 - Format is fine - Using it as a way to align on the FIPs, and just make sure nothing out of the ordinary is

Action items

- ☐ Clarify migration necessary for NV22
 - ☐
- ☐ Perform a second cross-check for FIPs slated for NV22
- ☐ Provide feedback & review for Drand implementation PR - <https://github.com/ChainSafe/forest/pull/3873>
- ☐ Drand implementation - deploy 🐛 node to test Drand switch
- ☐ Drand implementation - 2K network testing - align on 2K upgrade epoch
- ☐ Drand implementation - Mainnet testing
- ☐ Drand implementation - Share new Drand implemented lotus-miner branch with Forest team
- ☐ DDO - Forest to clarify migration plan
- ☐ Actor Events - Finalize revised gas metrics
 - ☐ Actor Events - Move to last call
- ☐ Actor Events - Determine if FIP is feasible for NV22 following gas profiling
- ☐ Actor Events - Forrest to consider integrating new events
- ☐ F3 - Determine testing plan for all implementations
- ☒ ~~F3 - Jennifer Wang to ask Jorge Soares to invite Roman (Forest) to dev sync - roman@chainsafe.io~~
- ☒ ~~Roman invited to the Fast Finality Channel ([link](#))~~
- ☒ ~~F3 - Enquire with FF WRT potential FF funded security audit~~
 - ☒ ~~Ken Toler has reached out to David A [ChainSafe] ([link](#))~~
- ☐ Bootstrap nodes - Forest to provide deployment update following testing
- ☐ Sync in February WRT Drand outage testing
- ☒ ~~James Bluett to schedule next meeting~~
 - ☒ ~~Scheduled Feb 13th~~

Dec 15, 2023

Attendees: Nicklas Reiersen Jennifer Wang Aayush Rajasekaran Andrew Jackson
david.himmelstrup@chainsafe.io hubert@chainsafe.io nemo lee@chainsafe.io Jie Hou
James Bluett , Steven Li, Samuel, Shashank, Lauren Spiegel

Async:

- Lotus upcoming priority:
 - Direct Data Onboarding
 - Actor events API
 - F3-finality
 - Switch logic for new Drand network
 - Drand outage testing ([GH issue link](#))
- Forest upcoming priority:
 - Running nine bootstrap nodes for the Filecoin network across various regions
 - Filecoin RPC commands are in progress
 - More streamlined infrastructure for our latest and archival data hosting service
 - Forest team will be off in the last 2 weeks of Dec for ChainSafe holidays
- Venus upcoming priority:
 - damocles sealing/post pooling
 - robust WindowPoST
 - divide vanilla proof and snark proof of WindowPost
 - high available damocles manager
- Blockers:
 -

Sync Agenda:

- (Jennifer) nv22 priorities
 - Code freeze: 22 Jan 2024
 - Calib upgrade: 5 Feb
 - Mainnet upgrade: 5 March
- (Aayush / F3 people) F3 implementation details across impl teams
- (Lee) Node Operator [Survey](#) Request from Forest

Notes

- Calib upgrade proposed for February, Mainnet for March 2024.
- Fast Finality should not block the nv22 upgrade. Extensive testing is required on all platforms.

Action items

- ☒ Follow up with Lucky regarding FIP changes.
- ☐ Attendees to review FIP-0081 and potentially request additional community feedback.
- ☐ Teams to prepare implementation plan for Fast Finality
- ☐ Forrest to announce "drop-in" Lotus replacement and timeline

- ☐ FIP-0081 - David (Forrest) to create built-in actor PR
- ☐ Actor Events - Venus will implement support. Forrest to review FIP discussion and discuss internally.
- ☒ ~~Teams to comment on nv22 Upgrade Planning discussion with regards to network upgrades and potential conflicts with national holidays etc.~~
- ☒ ~~Aayush to give his cat more attention! 🐱~~
- ☐ Forrest to engage with #fil-fast-finality in Slack.
- ☐ Jen will ask Jorge to reach out to the Forest team regarding Fast Finality.
- ☒ ~~Attendees to complete node operator survey and potentially book call with Lee~~
- ☒ ~~James Bluett to promote [node operator survey](#) to the community.~~
- ☒ ~~James Bluett to schedule next meeting - Target 2 weeks before code freeze~~