



**EOS Network
Foundation**

Program and Operations Health Report

05 MAY 2023

Agenda

| Section | Description |
|---------|--|
| 1 | <u>New Initiatives</u> |
| 2 | <u>Operations Metrics</u> |
| 3 | <u>Contracts, RFPs, Grants Metrics</u> |
| 4 | <u>Completed Projects</u> |

The background of the slide is a complex, abstract geometric pattern. It consists of numerous thin, light blue lines that intersect to form a network of triangles and other polygons. Some of these shapes are filled with a semi-transparent blue color, creating a layered, three-dimensional effect. The overall composition is dynamic and modern, with a color palette dominated by various shades of blue on a white background.

New Initiatives

March/April 2023 Release

Report: 05 MAY 2023

| Projects + | | Summary Details | Updates | Status | Coding | Peer Review | Code Freeze | Integration Testing | Release Candidate |
|---|--|-------------------------------|----------|--------|--------|-------------|-------------|---------------------|-------------------|
| Leap | | | | | | | | | |
| Parallelize Speculative Read-Only Trx Exec. | Optimization of how read-only transactions are processed to improve node performance | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3.2 Backport work | Remaining backport work completed in 3.2. | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Lighter Validation for Relays | Optimization of block propagation from relay nodes that match certain configured criteria | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto-peer with next/previous BP | Optimization of BP peering to ensure most proximal production peers are connected | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Programmable Future Snapshots | Ability to schedule and unschedule future snapshots | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multithread SHiP | Moving State History Plugin off the main thread for improved performance | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SHiP Log Splitting, Block Log Splitting | State History Plugin logs and Block logs reformatted for improved storage and retrieval. | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Leap 4.0 (new feature work, bugs) | | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CDT | | | | | | | | | |
| ANTLER Project Manager | A set of standards and programs for smart contract developers to build and maintain smart contract projects. Some components will move into next release | CDT v4.0.0-rc1 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DUNE | | | | | | | | | |
| DUNE multi-versioning support | DUNE capable of upgrading itself and managing multiple versions of itself. Support for multiple versions of internal tooling. | Code has been merged | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Additional Components | | | | | | | | | |
| Performance Test Harness Stage 1 | Performance harness designed to locally evaluate single node instances of a network. | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Performance Test Harness Stage 2 | Transaction generator improvements including configuring transaction type | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Regression Test Harness | A regression harness replacing eosio-launcher and improving overall flexibility. | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BN256 library | C++ port of the bilinear group BN256 Go library to support EOS EVM performance requirements. | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Prometheus Exporter Plugin | New plugin to instrument nodeos for scraping data with Prometheus. | Antelope Leap v4.0.0 released | Complete | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Project Health Scorecard

| Project | Headline | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--------------------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ENF Projects | | | | | | | | | | | | | |
| GoLang Security Port | COMPLETE - Antelope Leap v4.0.0 released | > | > | > | > | | | | | | | | |
| Performance Test Harness | COMPLETE - Antelope Leap v4.0.0 released | > | > | > | > | | | | | | | | |
| Performance Test Harness Stage 3 | PR up to review HTTP Transaction Generator | | | > | > | > | | | | | | | |
| Regression Test Harness | Start testing for Nodeos Process Controls | > | > | > | > | > | | | | | | | |
| OCI Staff Augmentation | Replace #warning wasm_tests.cpp directive | > | > | > | > | > | | | | | | | |
| Hypha - DAO | Three Proposal templates selected | > | > | > | > | > | | | | | | | |
| EOS EVM | | > | > | > | > | > | | | | | | | |
| Leap Parallelize Speculative | COMPLETE - Antelope Leap v4.0.0 released | > | > | > | > | | | | | | | | |
| Hubspot | Project paused for new vendor onboarding | | > | > | | | | | | | | | |
| P2P Peer Discovery | | | > | > | > | > | | | | | | | |
| ENF Website Rebuild | FUNDAY brand exploratory session with ELT | | | > | > | > | | | | | | | |
| | | | | | | | | | | | | | |
| Antelope Projects (Coalition) | | | | | | | | | | | | | |
| Scalability+ IBC | Community support via TG channel | > | > | > | > | > | | | | | | | |
| Scalability+ Instant Finality | Add "get_finality_status" API to HTTP plugin | > | > | > | > | > | | | | | | | |
| Wallet+ SDKs | Milestone #4 prelim. review complete | > | > | > | > | > | | | | | | | |
| Antler/CDT | CODE MERGED, READY FOR RC | > | > | > | > | > | | | | | | | |
| Coalition Ledger App | Resources unblocked, coding work to resume | | > | > | > | > | | | | | | | |
| | | | | | | | | | | | | | |

Future

Good

At Risk

Issues

Past start date

Future End Date

Complete

RFP Status Report

| RFP# | Project Name | Notes | Status | Issued | Intent to Bid | Questions Due | Answers Due | Bids Due | Coalition/ Vendor Meeting* | Award |
|------|------------------------|---|----------|--------|---------------|---------------|-------------|----------|----------------------------|--------|
| 0011 | P2P Peer Discovery | Coalition to review bids and confirm if meeting is necessary. | Complete | 07 NOV | 14 NOV | 21 NOV | 28 NOV | 05 DEC | 17 JAN | 23 JAN |
| 0010 | Provable State Domains | Requirements for RFP in process* | | | | | | | | |
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Future

At Risk

Issues

Complete

*Not complete yet

Antelope Upgrade

Performance Test Harness, Phase 3

OCI

Project Start Date: 02 FEB 2023

Project Summary: Performance Harness Phase 3 will add more automation to build on previous Phases 1 & 2. Includes adding additional features and analysis capabilities, along with Cloud CI/CD

Note: Previous Phases 1 & 2 included with Mar/Apr 2023 Leap 4.0 Release

| | | | |
|--------------------------|------------------------|------------------------|------------------------|
| Report Date: 05 MAY 2023 | | | |
| Status Scorecard | | | |
| Schedule | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> |
| Scope | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> |
| Resources | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> |

Highlights & Accomplishments

- April 2023**
 - Create an “operational Mode” framework
 - Complete Block Producer Mode Documentation
 - Create boost beast async http client/Update Boost version in cmake files
 - API Node Documentation
 - Create “Operational Mode” framework
 - Block Producer Mode Documentation
 - Create boost beast async http client
 - Initial API node (HTTP NODE) support - Topology definition/configuration
 - Split out control/config of producer, validation, api node in harness
- May 2023**
 - Put up PR to review HTTP Transaction Generator – push transaction

| Key Milestones | | |
|--|-------------|--------------|
| Description | Planned | Act/*Est |
| Baseline: EOS Mechanics CPU & RAM transactions | 07 APR 2023 | 07 APR 2023 |
| Block Producer Operational Mode | 15 MAY 2023 | *15 MAY 2023 |
| API Node (HTTP Node) Operatal Mode | 30 JUN 2023 | *30 JUN 2023 |
| Relay Node Operational Mode | 30 SEP 2023 | *30 SEP 2023 |
| Canary Node Operational Mode | 30 SEP 2023 | *30 SEP 2023 |
| SHiP Node Operational Mode | 30 SEP 2023 | *30 SEP 2023 |
| Trace API Node Operational Mode | 30 SEP 2023 | *30 SEP 2023 |
| | | |
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Upcoming Activities / In Progress

- Initial reporting updates for “API Node” and http transaction generator
- In Peer Review:
 - HTTP Transaction Generator – push transaction
 - Wire support for “API Node” and HTTP Transaction Generator into Perf. Harness

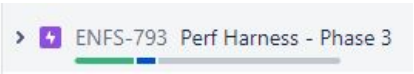
Issues / Risks / Escalations

- Update Key Milestones based on Phase 3 story development - *accepted*

Complete

In Progress

Backlog



Antelope Upgrade

Regression Test Harness

OCI

Project Start Date: 01 SEP 2022

Project Summary: Regression Harness to improve the maintainability, utility, and reliability of the test harness

Note: Key milestone dates adjusted to reflect Mar/Apr 2023 Release schedule. Architectural design outlines post-4.0 features

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|--------------------------|------------------------|------------------------|------------------------|
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| Status Scorecard | | | |
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| Scope | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> |
| Resources | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> |

Highlights & Accomplishments

- March 2023

 - All v4.0 critical features have been merged into main for RC
- April 2023

 - Proceeding with post-4.0 Regression Test Harness per architectural design
 - Create setup tools and installer for test harness
 - Code merged, tests completed have failed on active/in progress stories:
 - Issues affect 66 files changed, 1078 insertions(+), 1805 deletions(-)
 - WBS exercise performed for upcoming stories, estimated milestone dates
- May 2023

 - Start testing for Nodeos Process Controls milestone

| Key Milestones | | |
|--|-------------|--------------|
| Description | Planned | Act/*Est |
| +Milestones Complete.. | | |
| Code in production | 01 APR 2023 | 25 APR 2023 |
| Post-4.0 release Milestones | | |
| Nodeos Process Controls | 22 MAY 2023 | *22 MAY 2023 |
| Capture Nodeos logs into an archive | 01 JUN 2023 | *01 JUN 2023 |
| Migrate boilerplate into the test harness | 15 JUL 2023 | *15 JUL 2023 |
| Expose log truncation | 17 JUL 2023 | *17 JUL 2023 |
| Add Python logging library to regression harness | 22 AUG 2023 | *22 AUG 2023 |
| Improve debugging environment/artifact capture | 15 SEP 2023 | *15 SEP 2023 |
| Declarative configuration of cluster nodes | 01 OCT 2023 | *01 OCT 2023 |

Upcoming Activities / In Progress

- Update 'WalletMgr.py' logging directories
- Migrate launcher - move nodeos process control fully into Node.py
- Migrate configuration options out of the config file into command line
- Implement nodeos process control in launcher.py
- Enhance all regression Python tests to verify clean shutdown
- Detect abnormal nodeos termination
- Python log truncation

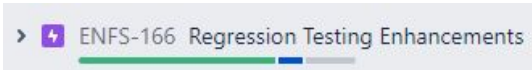
Issues / Risks / Escalations

- Additional milestone deliverables to be documented for reporting - *accepted*
- Engineers troubleshooting the test failure from code merge - *escalated*
- Est. dates of stories added to milestones extended beyond Aug/Sept - *accepted*

Complete

In Progress

Backlog



Project Start Date: 01 SEP 2022

Project Summary: OCI will hand bug fixes, upgrades and other assigned projects that fall under the Leap 3.1, 3.2, and 4.0 environments.

Note: Key milestone dates adjusted to reflect Mar/Apr 2023 Release schedule

Status Scorecard

| | | | |
|-----------|---|--|--|
| Schedule | ✓ | | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

April 2023

- Prometheus 5.0: Prometheus plugin enhancement
- 5.0: Proposal: Nodeos Endpoint IP and Port Configuration
- 5.0: clean function for escaping control characters in a string and truncating it
- 5.0: Address 'TestHarness' installation location
- 5.0: remove circular dependency between producer_plugin & chain_plugin
- Bug Fixes (backport): Starting v4.0.0-rc2 from snapshot crashes nodeos
- Bug Fixes (backport): fix not fail on signature checks for dry-run txns

May 2023

- 5.0: Use github issue instead of #warning directive in wasm_tests.cpp

Key Milestones

| Description | Planned | Act/*Est |
|--|-------------|--------------|
| +Milestones Complete.. | | |
| EVM | 15 JAN 2023 | 14 APR 2023 |
| 3.3: Block Log Splitting | 01 MAR 2023 | 03 MAR 2023 |
| Leap 4.0 (all new feature work and bugs) | 01 MAR 2023 | 17 MAR 2023 |
| Leap 5.0 (all new feature work and bugs) | 30 SEP 2023 | *30 SEP 2023 |
| Bug Fixes (backport) | TBC | TBC |
| | | |
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Upcoming Activities / In Progress

- 5.0: Update handling of the http-max-response-time-ms & abi-serializer=max
- 4.0 GA-SHIP log splitting max stride slice retention-expect value defaults to untd
- In Peer Review:
 - 5.0: Proposal: Boost JSON into fc.
 - 5.0: SPIKE: Decoupled instrumentation feasibility
 - Prometheus 5.0: Prometheus plugin enhancement
 - 5.0: Implementation for Nodeos Endpoint IP and Port Configuration

Issues / Risks / Escalations

- None


Complete 
In Progress 
Backlog 

>  ENFS-493 EVM


>  ENFS-510 Prometheus (Leap 4.0)

>  ENFS-641 SHIP & Block Log Splitting

>  ENFS-642 Open SSL Dependency Removal

>  ENFS-829 Leap 5.0

>  ENFS-830 Prometheus (Leap 5.0)

>  ENFS-912 Bug Fixes (backport)

Project Start Date: 12 SEP 2022

Project Summary: Hypha to create a DAO management system for EOS

Final Project Milestone: Warranty Period (x6): 07 AUG 23 to 09 JAN 24

Status Scorecard

| | | | |
|------------------|--------------|-------------|--------------|
| Schedule | <div></div> | <div></div> | <div>✓</div> |
| Scope | <div>✓</div> | <div></div> | <div></div> |
| Resources | <div>✓</div> | <div></div> | <div></div> |

Highlights & Accomplishments

April 2023

- Three proposal type badges completed
- Voting configuration screen completed
- ENF feedback provided for milestone #4, discuss next steps
- Restructured development process to incl. feature branches dev methodology
- Hypha presented milestone #5 to ENF for review
- Hypha DAO added to www.eosnetwork.com/eos-ecosystem page
- ENF feedback provided for milestone #5, discuss next steps
- Milestone #6 stories and features are groomed, planning completed
- Milestone #5 extended video presentation submitted to ENF

May 2023

- Selected three Proposal templates, descriptions and contents for DAO
- Hypha prepared a draft blog article to highlight the DAO features

Key Milestones

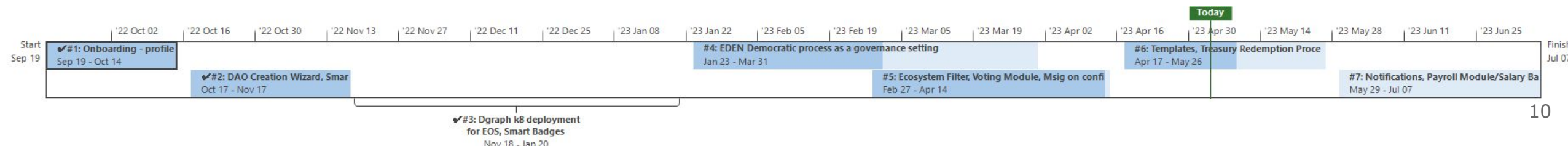
| Description | Planned | Act/*Est |
|--|-------------|--------------|
| #1: Onboarding - profile service deploy for EOS, Mobile Version, Pricing Model +Freemium, staking and burning | 14 OCT 2022 | 13 OCT 2022 |
| #2: DAO Creation Wizard, Smart Contracts deploy on EOS | 25 NOV 2022 | 17 NOV 2022 |
| #3: Dgraph k8 deployment for EOS, Smart Badges | 20 JAN 2023 | 03 FEB 2023 |
| #4: EDEN Democratic process as a governance setting | 24 FEB 2023 | *31 MAY 2023 |
| #5 Ecosystem Filter, Voting Module (Config Page), Msig on config settings, Policy Proposals, Quest Proposals, Circle Proposals | 14 APR 2023 | 03 MAY 2023 |
| #6 Templates Treasury, Redemption Processing | 26 MAY 2023 | *26 MAY 2023 |
| #7 Notifications, Payroll Modules/Salary Bands, Multi-lingual, First Signer Pays | 07 JUL 2023 | *07 JUL 2023 |

Upcoming Activities / In Progress

- Implementation of templates, front-end and back-end in dev, 60% complete
- Config settings template contents, types, and descriptions
- Treasury redemption process, semi-automated for end-users
- Add API integration, MSIG to redemption
- B. Lovejoy and Hypha team to set up a Twitter spaces event
- Beta launch MVP, security review, bug fixes
- Address Beta launch addn't features to enhance DAO features

Issues / Risks / Escalations

- Hypha to outline scope for Milestone #4, integrate into schedule - **escalate**



| EOS EVM | EOS EVM | ENF |
|--|---------|-----|
| Project Start Date: September 2022 (new baseline) / January 2023 (new MVP scope) Project Summary: Build an Ethereum Virtual Machine based on the EOS network, a turn-key solution for developers to operate their apps on a full #Ethereum-compatible chain and benefit the high throughput, scalability, security and reliability from the EOS infrastructure NOTE: Planned dates updated to reflect holiday and PTO schedules / MVP scope amended | | |

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|---------------------------------|---|--|--|
| Report Date: 05 MAY 2023 | | | |
| Status Scorecard | | | |
| Schedule | ✓ | | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

- March 2023**
 - Testnet v0.3 deployed and launched
- April 2023**
 - MSIG for mainnet approved by BPs and executed
 - Sentnl.io security audit report
 - Mainnet launch
 - Launch www.eosnetwork.com/eos-evm
 - Proj. submission intake form <https://eosnetwork.com/eos-evm/#ecosystem-intake>
 - Repo open sourcing
 - Backlog created and v0.5 content identified
- May 2023**
 - Testnet upgrade with v0.4-official
 - Draft product roadmap for future releases

| Key Milestones | | |
|---|-------------|-------------|
| Description | Planned | Act/*Est |
| API Compatibility | 22 NOV 2022 | 15 NOV 2022 |
| +Milestones - Complete... | | |
| Variable Simulation Model | 08 NOV 2022 | 06 JAN 2023 |
| Testnet Deployment Preparation | 02 DEC 2022 | 16 DEC 2022 |
| Silkworm Testnet without Token Economy | 27 DEC 2022 | 19 JAN 2023 |
| Bridging / Send EVM Action | 24 JAN 2023 | 20 MAR 2023 |
| Gas Fee Feature / Adjustable Base Gas Price | 11 NOV 2022 | 20 MAR 2023 |
| EVM Runtime Contracts Improvements | 03 FEB 2024 | 10 FEB 2023 |
| Additional Security Audit Review | 23 DEC 2022 | 05 APR 2023 |
| Candidate for Mainnet / Launch | 08 MAR 2023 | 14 APR 2023 |

Upcoming Activities / In Progress

- Mainnet upgrade with v0.4-official
- Additional security audit review

Issues / Risks / Escalations

- Post-launch program reconstruction is being defined. This will impact resources and project structure - **monitor**
- Team velocity is being measured on first and second sprints. This might affect timelines - **monitor**



| | HubSpot | ENF |
|---|---------|-----|
| Project Start Date: 15 FEB 2023 Project Summary: CRM platform to connect marketing and communications platforms together to focus on creating more awareness and fostering business development initiatives. | | |

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|---------------------------------|------------------------|------------------------|------------------------|
| Report Date: 05 MAY 2023 | | | |
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| Scope | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> |
| Resources | <div><div></div></div> | <div><div></div></div> | <div><div></div></div> |

Highlights & Accomplishments

March 2023

- Meeting with outside Marketing automation vendors to discuss support options
- Marketing Automation vendor to discuss package options with ENF
- Meeting with HubSpot customer support team to discuss two instances
- Executive sponsors review, approved schedule and timeline proposal
- Contacts and businesses moved from original to new instance
- Adjust setting to allow contacts to be associated with company contact information
- Meeting with DUD vendor to discuss impact to ENF website
- DUD completed review of ENF website, repaired all broken feeds
- DUD provided a list of all fields that are not properly linked in HubSpot for review
- All users are added to new instance with current ENF emails
- Old instance has been deactivated, old data removed and no longer accessible

April 2023

- Review, import data provided by Zaisan
- Meeting with Marketing to discuss project blockers, next steps

Upcoming Activities / In Progress

- **PROJECT PAUSED**
- Review ENF user-level accesses, permissions
- Complete ABM configuration setup

| Key Milestones | | |
|---|-------------|-------------|
| Description | Planned | Act/*Est |
| #1 Scope, Milestones, Stakeholder List, Project Schedule | 17 FEB 2023 | 17 FEB 2023 |
| +Milestones Complete.. | | |
| #4 DUD vendor reviews website connections | 13 MAR 2023 | 13 MAR 2023 |
| #5 Review user-level access, permissions, user emails | 14 MAR 2023 | *TBD |
| #6 Unify instances, close old instance | 15 MAR 2023 | 15 MAR 2023 |
| #7 Instance coding and setup | 21 MAR 2023 | *TBD |
| #8 Dashboard review, configuration & Data review, dashboard testing | 22 MAR 2023 | *TBD |
| #9 HubSpot Reporting | 30 MAR 2023 | *TBD |
| #10 Document Processes, Process Metrics | 04 APR 2023 | *TBC |

Issues / Risks / Escalations

- Billing cycles for two instances to be reviewed - **resolved**
- Onboarding new vendor may impact milestone schedule - **blocked**
- Clarification around scope unclear, pending vendor onboarding - **escalated**

FD Blockchain Lab

P2P Peer Discovery

ENF

Project Start Date: 02 FEB 2023 (Contract execution)

Project Summary: The mandate of the project is to implement improvements to peer node discovery and synchronization processes within the peer-to-peer (P2P) protocol of the nodeos service

Report Date: 05 MAY 2023

| Status Scorecard | | | |
|------------------|---|---|--|
| Schedule | | ✓ | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

- March 2023**
 - 23-Mar: Initial review and comment from one approver on PR for TR02/03: Add configuration items chain-alias, chain-id, chain-alias-mapping
- April 2023**
 - 4-Apr: PR #846 (P2P improvement TR02/03) and PR #918 (Peer discovery) are being reviewed by delegates from coalition. Tech team is addressing the comments
 - 14-Apr: Call with milestone approvers and Tech team being schedule in order to address questions and comments
 - 17-Apr: Second milestone approved
 - 27-Apr: Milestones content and calendar reviewed and submitted to coalition members for approval
- May 2023**
 - 5-May: New milestones content and calendar approved by coalition

| Key Milestones | | |
|---|-------------|--------------|
| Description | Planned | Act/*Est |
| Contract Execution | 02 FEB 2023 | 02 FEB 2023 |
| Local GitLab and Local environment | 01 MAR 2023 | 01 MAR 2023 |
| Automated Peer Discovery and Management | 29 MAR 2023 | *24 MAY 2023 |
| Custom Chain Id | 10 MAR 2023 | 10 MAR 2023 |
| Alias Configuration | 17 MAR 2023 | 17 MAR 2023 |
| Peer Refreshing | 24 MAR 2023 | *24 MAY 2023 |
| Nodes Setting | 29 MAR 2023 | *24 MAY 2023 |
| Automated Testing | 12 APR 2023 | *24 MAY 2023 |
| Testing and delivery | 22 MAY 2023 | *20 JUL 2023 |
| Maintenance and support | 20 AUG 2023 | *20 AUG 2023 |

Upcoming Activities / In Progress

- Specifications to be completed with direction from Antelope core engineering team

Issues / Risks / Escalations

- Review and approval of deliverables are dependent on availability of milestone approvers - **monitor**
- Requirements might need clarifications to confirm the overall direction of the solution - **escalated**



Project Start Date: 07 FEB 2023

Project Summary: Rebuilding the EOS Network Foundation website www.eosnetwork.com

External Vendors: Graphic Mint, Double Up Digital, FUNDAY

Status Scorecard

| | | | |
|------------------|---|--|--|
| Schedule | ✓ | | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

March 2023

- Introduction call with FUNDAY, discuss tentative project timeline
- Members Page: Upvote Delegate result widget
- Kick-off with FUNDAY and Graphic mint to discuss key milestone dates

April 2023

- ENF Post-Game and Blockchain Events Information Gathering + Regroup
- Discussions around potential phased approach due to tight timelines
- FUNDAY expanding scope for complete brand architecture
- Vendors approve updated timelines to project schedule
- GameFi events and market research session complete

May 2023

- FUNDAY exploratory meeting with ELT team for brand, logo strategy

Key Milestones

| Description | Planned | Act/*Est |
|--|-------------|--------------|
| #1 UX Design (Graphic Mint) | 06 MAR 2023 | 06 MAR 2023 |
| #2 Content Strategy, Information Architecture (Graphic Mint) | 06 MAR 2023 | 06 MAR 2023 |
| #3 Branding Strategy, Brand Messaging (FUNDAY) | 07 JUN 2023 | *07 JUN 2023 |
| #4 UI Design, Design Systems (Graphic Mint) | 23 JUN 2023 | *23 JUN 2023 |
| #5 Web Content (ENF) | 27 JUN 2023 | *27 JUN 2023 |
| #6 Website Development (DUD) | 22 AUG 2023 | *22 AUG 2023 |
| #7 QA Review, testing (DUD) | 30 AUG 2023 | *30 AUG 2023 |
| #8 Website Launch (DUD) | 31 AUG 2023 | *31 AUG 2023 |
| #9 Post-Launch, Punch List (ENF, DUD) | 16 SEP 2023 | *16 SEP 2023 |

Upcoming Activities / In Progress

- Workshop to deliver findings to Graphic Mint and FUNDAY
- Graphic Mint and FUNDAY discovery sessions
- FUNDAY Branding Strategy, Brand Messaging presentation to ENF on 25 MAY
- Graphic Mint to start on UI Design, Design Systems milestone in June
- Double Up Digital to start working on site rebuild in June

Issues / Risks / Escalations

- Aggressive tight timeline, critical path milestones - **escalated**





| Scalability+ | IBC (inter blockchain communication) | Origin |
|---|--------------------------------------|--------|
| Project Start Date: 23 AUG 2022 Project Summary: IBC (inter blockchain communication) protocol allows for any action taking place on an EOSIO blockchain (chain A) to be cryptographically provable to another EOSIO blockchain (chain B). SLA Period: 24 months (end 27 AUG 2024) https://github.com/cryptomechanics https://antelopeibc.io/ | | |

| Report Date: 03 MAY 2023 | | | |
|--------------------------|---|--|--|
| Status Scorecard | | | |
| Schedule | ✓ | | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

March 2023

- TraceAPI architecture presented to Greymass for review
- EOS USA review of State History Plugin complete, approved

April 2023

- Coalition added requirement to support Trace API to Milestone #8,
- N. James to review Milestone #5
- Milestones #5 and #8 are complete, approved by Coalition
- IBC project waiting for IF to complete final milestone #6
- WAX successfully completed 'to' and 'from' transactions
- IBC webpage launch <https://eosnetwork.com/ibc-using-eos/>
- Addressed error messages submitted in Antelope IBC Protocol Telegram channel

May 2023

- Team meeting to outline upcoming work, timelines and requirements

Upcoming Activities / In Progress

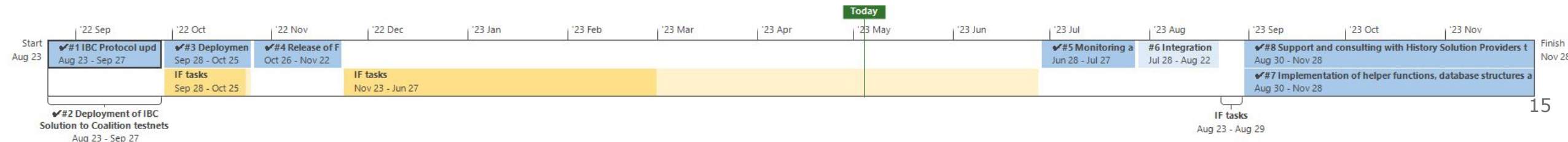
- ENF Marketing starting on podcast and blog posts for upcoming IBC announcements
- Z. Gall, N. James supporting Origin on Technical AMA call with interested developers
- IBC planning for integration with IF, launch on testnet

Key Milestones

| Description | Planned | Act/*Est |
|---|-------------|--------------|
| #1 IBC Protocol updates | 27 SEP 2022 | 03 NOV 2022 |
| +Milestones Complete.. | | |
| #4 Release of Firehose + proof API server bundle | 22 NOV 2022 | 15 DEC 2022 |
| #5 Monitoring and analysis tools: API to monitor contracts on+alert mechanism (<i>Coalition approved change</i>) | 27 JUL 2023 | 07 APR 2023 |
| #6 Integration of IBC and Instant Finality (<i>+IF milestone #5: Successful private testnet deployment</i>) | 22 AUG 2023 | *22 AUG 2023 |
| #7 Imp. of helper functions, database structures and API for proof generation in Nodeos (<i>Coalition approved change</i>) | 28 NOV 2023 | 13 MAR 2023 |
| #8 Support & consult w/ History Solution Providers to improve proof APIs: Firehose , State History Plugin , TraceAPI (<i>Coalition approved change</i>) | 28 NOV 2023 | 07 APR 2023 |

Issues / Risks / Escalations

- Order of operations plan for IBC and IF launch on testnet - **escalated**





Scalability+

IF (Instant Finality)

Origin

Report Date: 03 MAY 2023

Project Start Date: 23 AUG 2022

Project Summary: Instant Finality implements near-immediate byzantine fault-tolerant deterministic finality as part of the core EOSIO protocol in order to improve responsiveness of application

SLA Period: 24 months (end 27 AUG 2024)

Status Scorecard

| | | | |
|-----------|--|---|---|
| Schedule | | | ✓ |
| Scope | | ✓ | |
| Resources | | ✓ | |

Highlights & Accomplishments

March 2023

- Milestone #2 Linearly aggregable signatures ready for review, submitted to ENF
- Unit tests framework completed
- Refactored Hotstuff consensus code to exist as an independent library
- Refactored Hotstuff consensus code to separate qc_chain from pacemaker

April 2023

- IBC milestone #5 and #8 completed, waiting for IF to complete milestone #6
- Completed WASM implementation, verify action and 'from' message
- Native go/cpp and assembly implementation benchmarked, positive results
- Team discussions about upcoming availability to clear project blockers

May 2023

- Team meeting to outline upcoming work, timelines and requirements
- Implement "get_finality_status" API to the HTTP plugin, useable by light clients

Key Milestones

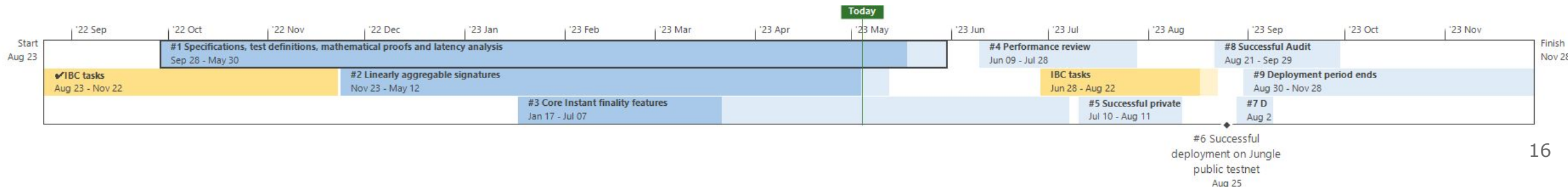
| Description | Planned | Act/*Est |
|---|-------------|--------------|
| #1 Specifications, test definitions, mathematical proofs, latency analysis | 25 OCT 2022 | *30 JUN 2023 |
| #2 Linearly aggregable signatures | 15 JAN 2023 | *12 MAY 2023 |
| #3 Core Instant Finality features | 28 FEB 2023 | *07 JUL 2023 |
| #4 Performance review | 28 MAR 2023 | *28 JUL 2023 |
| #5 Successful private testnet deployment (+IBC milestone #6 - integrate IBC with IF) | 28 MAR 2023 | *11 AUG 2023 |
| #6 Successful deployment on Jungle public testnet | 23 MAY 2023 | *25 AUG 2023 |
| #7 Documentation | 27 JUN 2023 | *08 SEP 2023 |
| #8 Successful Audit | 29 AUG 2023 | *29 SEP 2023 |
| #9 Deployment period ends (support with activation) | 28 NOV 2023 | *28 NOV 2023 |

Upcoming Activities / In Progress

- HotStuff core protocol consensus mech. as base consensus algorithm
- Core IF unit + integration tests, IF protocol feature activation
- Integration with Leap data structures
- A. Hayrapetian to provide latency analysis feedback, edge cases for Core IF features
- Linearly aggregable signatures PR initial review

Issues / Risks / Escalations

- Limited ENF availability impacting milestone #1 & #2 reviews - **resolved**
- A. Hayrapetian to provide input, feedback on milestone #3 features - **resolved**
- Order of operations plan for IBC and IF launch on testnet - **escalated**
- IF timeline critical to include feature with Antelope Leap v5.0. release - **escalated**





Wallet+

SDK (Software Development Kit)

Greymass

Project Start Date: 12 SEP 2022

Project Summary: Establish a series of core Antelope client protocols and create a suite of open-source Antelope web client SDKs

Link: <https://github.com/wharfkit/> - key milestones updated 01 FEB 2023 to v4 (Coalition approved)

Report Date: 05 MAY 2023

Status Scorecard

| | | | |
|-----------|---|--|---|
| Schedule | | | ✓ |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

April 2023

- Minor releases published for multiple libraries to address bugs and upgrade deps
- Community feedback on graphic user interface bugs, repaired
- Updates to session storage, account storage methods
- Developed Wharf webpage for Session Kit, ready to launch
- Added Restore All method to Session Kit
- Released v0.4.0 for the Session Kit and Wallet Plugins
- The Web Renderer UI v0.4.0 also released with an overhauled user interface
- Added a new (2nd) TransactPlugin for transaction finality to facilitate callbacks
- Milestone #4 completed, submitted for review

May 2023

- Milestone #4 review complete, add'l questions to be submitted to Greymass
- Contract Kit code generator to automatically create code for devs
- Minor corrections and optimizations for Session Kit
- Improvements to Session Kit user interface to resolve design issues

Key Milestones

| Description | Planned | Act/*Est |
|--|-------------|--------------|
| #1 Architecture | 15 OCT 2022 | 17 OCT 2022 |
| #2 Product Suite Branding | 13 JAN 2023 | 11 JAN 2023 |
| #3 Session Kit | 23 JAN 2023 | 13 MAR 2023 |
| #4 Browser Kit + Plugins | 22 FEB 2023 | *12 MAY 2023 |
| #5 Session Kit Integrations + Localization | 08 APR 2023 | *19 MAY 2023 |
| #6 Contract Kit + Account Kit | 02 JUN 2023 | *02 JUN 2023 |
| #7 Contract Kit Implementations | 07 JUL 2023 | *07 JUL 2023 |
| #8 Contract Kit Templates | 22 JUL 2023 | *22 JUL 2023 |
| +Milestones to follow... | | |
| #12 Website, Documentation, Portal | 30 SEP 2023 | *30 SEP 2023 |

Upcoming Activities / In Progress

- Design of UI elements for @wharfkit/web-ui-renderer
- Continued development of wallet/transact plugin(s) for Session Kit
- Development of a console-based UI renderer for development
- Finalizing UI specification into document format for publishing
- Login plugin system, address community feedback
- Documentation for Session Kit, Core Libraries

Issues / Risks / Escalations

- Greymass staff PTO may have impact on project schedules - **accepted**
- Milestone #4 tasks completed sequentially impacting schedule - **accepted**
- No external wallets available with EOS using scatter, Milestone #9 - **blocked**





Antelope

Contract Development Toolkit (CDT)

ENF

Report Date: 04 MAY 2023

Status Scorecard

| | | | |
|-----------|---|--|---|
| Schedule | | | ✓ |
| Scope | ✓ | | |
| Resources | ✓ | | |

Project Start Date: 30 NOV 2022

Project Summary: Contract Development Toolkit (CDT) is a C/C++ toolchain targeting WebAssembly (WASM) and a set of tools to facilitate development of smart contracts written in C/C++ that are meant to be deployed to an Antelope blockchain

Link: <https://github.com/AntelopeIO/cdt>

Highlights & Accomplishments

February 2023

- Design review presentation of Antler-proj for ENF Directors, Management team
- Initial code review completed, PR merged
- Final PR put up for review
- Implement Cmake from project file completed

March 2023

- Final PR review completed, feedback received and additional bugs discovered
- Repair to code complete, bugs repaired
- Build System Documentation and Polish added to Build System scope
- Repair additional bugs discovered with latest PR review
- Final PR put up for review
- Final feedback addressed, code merged into main

May 2023

- CDT v4.0.0-rc1 released

Key Milestones

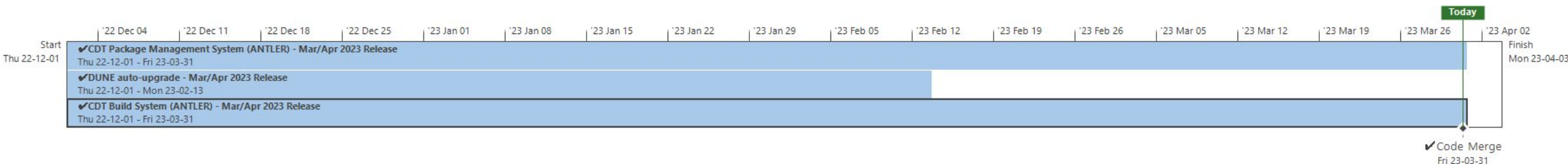
| Description | Planned | Act/*Est |
|---|----------------|-----------------|
| DUNE auto-upgrade | 01 FEB 2023 | 26 JAN 2023 |
| CDT Debugging Framework (ANTLER) | TBD | *TBD |
| CDT Package Management System (ANTLER) | 20 FEB 2023 | 31 MAR 2023 |
| CDT Build System (ANTLER) | 23 FEB 2023 | 31 MAR 2023 |
| CDT Code complete (release candidate) | 01 APR 2023 | 05 MAY 2023 |
| CDT Code in production | 01 APR 2023 | *22 MAY 2023 |
| Dune Code complete (release candidate) | 01 APR 2023 | *17 MAY 2023 |
| Dune Code in production | 01 APR 2023 | *31 MAY 2023 |
| | | |

Upcoming Activities / In Progress

- CDT COMPLETE
- DUNE CODE MERGED, READY FOR RC

Issues / Risks / Escalations

- None





Coalition Ledger App

Project Start Date: 13 FEB 2023

Project Summary: Update the Ledger App, setup four chains on Ledger using one binary, and complete the adaptations to the source code of the EOS app

NOTE: Project baseline adjusted based on launch criteria provided by Ledger

Report Date: 05 MAY 2023

Status Scorecard

| | | | |
|-----------|--|---|---|
| Schedule | | ✓ | |
| Scope | | ✓ | |
| Resources | | | ✓ |

Highlights & Accomplishments

March 2023

- TLOS manager & dashboard icons complete
- Draft timeline & milestone schedules presented to Coalition during call 02 MAR
- Submit scope expansion to Ledger for feedback and approval:
 - Add 5th app to scope: EOS, TLOS, WAX, UX & Antelope
- ENF + Ledger meeting to discuss technical requirements, project definition
- Ledger provides clarification around launch criteria, deliverables

April 2023

- Milestone schedule revised based on Ledger feedback, ENF staff availability
- Request submitted to Ledger to clarify marketing content requirements, web pages

May 2023

- Engineering availability blocker clear, coding work to resume

Key Milestones

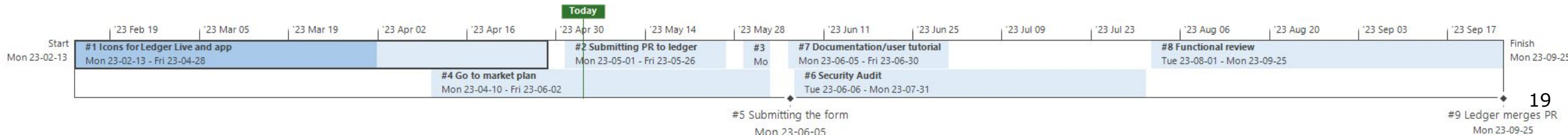
| Description | Planned | Act/*Est |
|---|-------------|--------------|
| #1 Icons for Ledger Live and app | 28 APR 2023 | *12 MAY 2023 |
| #2 Submitting PR to ledger | 26 MAY 2023 | *26 MAY 2023 |
| #3 PR to ledger passes all automated tests | 02 JUN 2023 | *02 JUN 2023 |
| #4 Go to market plan (social, AMA, blogs) | 02 JUN 2023 | *02 JUN 2023 |
| #5 Submitting the form to Ledger | 05 JUN 2023 | *05 JUN 2023 |
| #6 Security Audit | 31 JUL 2023 | *31 JUL 2023 |
| #7 Documentation/user tutorial, new web pages/content | 30 JUN 2023 | *30 JUN 2023 |
| #8 Functional review | 22 SEP 2023 | *22 SEP 2023 |
| #9 Ledger merges PR | 22 SEP 2023 | *22 SEP 2023 |

Upcoming Activities / In Progress

- Coalition to approve draft timeline and milestone schedules
- TLOS, EOS to complete manager & dashboard icons
- Create content for Ledger webpage and Ledge app information page

Issues / Risks / Escalations

- Waiting on feedback from Ledger pertaining to 5th app - **resolved**
- Clarification around marketing content to be defined from Ledger - **blocked**
- E. Passmore currently unavailable to support dev work until 01 MAY - **resolved**












The background of the slide is a complex, abstract geometric pattern. It consists of numerous thin, light blue lines that intersect to form a network of triangles and other polygons. Some of these shapes are filled with a slightly darker shade of blue, creating a layered, three-dimensional effect. The overall composition is dynamic and modern, typical of a corporate or technical presentation.

Operations Metrics

Operations Scorecard

(Rolling 12 months)

| Area / Metrics | Link | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct |
|---|------|----------|-------------|----------|-----------|-------------|-----------|-----|-----|-----|-----|-----|-----|
| Market Funding | | | | | | | | | | | | | |
| Direct Grants Fully Approved (#) | + | 0 | 1 | 0 | 2 | 0 | 3 | 0 | | | | | |
| Direct Grants Fully Approved (\$) | | \$0 | \$10,000 | \$0 | \$275,000 | \$0 | \$233,000 | \$0 | | | | | |
| Direct Grants Rejected (#) | | 1 | 7 | 2 | 0 | 11 | 2 | 0 | | | | | |
| Direct Grants Rejected (\$) | | \$50,000 | \$1,093,785 | \$50,000 | \$0 | \$1,158,630 | \$297,000 | \$0 | | | | | |
| Direct Grants Processing Time (days) | | 214 | 122 | 119 | 87 | 136 | 79 | 0 | | | | | |
| Developer Relations | | | | | | | | | | | | | |
| # of DevRel tickets closed | + | 11 | 5 | 20 | 9 | 20 | 21 | 0 | | | | | |
| # of guides completed (Cumulative) | | 0 | 0 | 0 | 3 | 4 | 6 | 0 | | | | | |
| Regression Metrics - Antelope | | | | | | | | | | | | | |
| First Pass Yield (WF Runs) | + | 96% | 95% | 78% | 96% | 96% | 100% | | | | | | |
| Community Engagement - EOS Support | | | | | | | | | | | | | |
| # of Articles / Stories published  | + | 228 | 167 | 168 | 98 | 120 | 89 | | | | | | |
| # of Surveys completed  | | 0 | 0 | 0 | 1 | 0 | 0 | | | | | | |
| # of Giveaway show participants  | | 90 | 69 | 119 | 188 | 177 | 99 | | | | | | |
| Business Development - Blockument | | | | | | | | | | | | | |
| Total Open Leads  | + | 181 | 209 | 278 | 326 | 368 | 440 | | | | | | |
| Projects in Commercials Discovery  | | 96 | 108 | 130 | 163 | 182 | 210 | | | | | | |
| MoU Signed  | | 4 | 4 | 5 | 6 | 7 | 8 | | | | | | |
| Demos / Prototypes in work  | | 0 | 1 | 2 | 3 | 4 | 5 | | | | | | |
| Project SoWs Signed  | | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| Projects deployed to Mainnet  | | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |

Review of Contracts, RFP and Grants status for week of 05 May 2023

Status Scorecard

| | | | |
|-----------|---|--|--|
| Schedule | ✓ | | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

Contracts

- Siegel Search ICA fully executed
- Volt NDA fully executed

RFP

- N/A

Grants

- Batch 25 closed and sent to Committee to vote.
- Batch 24 approvals assigned in GitHub

Status Overview

| Area | Document | Status | Notes |
|-----------|---------------|--------------------|-------|
| Contracts | Siegel Search | Done | |
| Contracts | Unity NDA | Writing Contract | |
| Contracts | Ennea NDA | Sent for Signature | |
| Contracts | Volt NDA | Done | |

Upcoming Activities / In Progress

Contracts

- Contract Request Form

RFP

- N/A

Grants

- TrustEVM KYC
- Reviewing incoming Grants and sending for translation.
- Batch 25 closed
- Batch 26 opened

Issues / Risks / Escalations

- N/A



Completed Projects

(for reference only)

Project Start Date: 01 SEP 2022

Project Summary: BN256 library port from GoLang. GoLang Security Port, Port Go library to C++ for bn crypto library

Status Scorecard

| | | | |
|------------------|---|--|--|
| Schedule | ✓ | | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

December 2022

- M. Witherspoon reviewed outstanding PR
- HM. Huang completed final additional testing requested by ENF
- Issues completed and code merged:
 - Replace the implementation of bn256 host functions to use the new bn256 library
 - Add crypto primitive tests for invalid input lengths

January 2023

- All blockers resolved, code implemented and tests completed

February 2023

- HM. Huang has reviewed and implemented feedback provided in issue #11
- OCI and ENF to schedule a meeting to facilitate finalize code hand-off
- L. Huang, M. Witherspoon finalize code hand-off with HM. Huang
- All features have been merged into main for RC
- Antelope Leap v4.0.0 released

Key Milestones


| Description | Planned | Act/*Est |
|--|-------------|-------------|
| Group & Implement GFP files (Port Golang to C++) | 08 SEP 2022 | 08 SEP 2022 |
| +Milestones Complete... | | |
| Update benchmarking of new code vs. Go Library | 15 OCT 2022 | 14 OCT 2022 |
| Increase BN256 Perf. Statistics, Pull out boost libs used by bn256, Troubleshoot BigInt/Testing Issues for GoLang to C++ Converter | 28 OCT 2022 | 27 OCT 2022 |
| Use OCI's hand-rolled BigInt instead of Boost, Refactoring Cmake for all platforms & compilers | 28 OCT 2022 | 09 NOV 2022 |
| Replace the implementation of bn256 host functions to use the new bn256 library, Code Handoff to ENF | 04 NOV 2022 | 21 FEB 2023 |
| Code complete (release candidate) | 01 APR 2023 | 20 MAR 2023 |
| Code in production | 01 APR 2023 | 25 APR 2023 |


Upcoming Activities / In Progress

- **COMPLETE**

Issues / Risks / Escalations

- None

Complete 
 In Progress 
 Backlog 

➤  ENFS-425 Golang Security Development

Project Start Date: 01 SEP 2022**Project Summary:** Performance Harness will create an MVP, with the goal to complete this work in early 2023. Later phases will add more automation. Additional features and analysis capabilities, along with Cloud CI/CD**Note:** Key milestone dates adjusted to Mar/Apr 2023 Release. Phase 1 & 2 included with Mar/Apr 2023 Release

Status Scorecard

| | | | |
|-----------|---|--|--|
| Schedule | ✓ | | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

March 2023

- Fix Usage of UserTrxDataFile with Performance Test
- Handle Exceptions occurring during runTest
- Create long-running test for performance_harness.py
- Performance Harness Code Review
- Coordinate TPS generation to direct traffic to specific node
- Merge Performance Harness Branch with Regression Testing Branch
- Release Fixes
- Fix bug- division by 0 and arg passing performance_test to performance_test_basic
- All v4.0 critical Phase 2 features are merged into main for RC
- Coordinate TPS generation to direct traffic to specific node

April 2023

- Re-examine use of logs for scraping data
- Final Phase 2 features complete, merged into main
- Antelope Leap v4.0.0 released

Key Milestones

| Description | Planned | Act/*Est |
|--|-------------|-------------|
| MVP: Output Evaluation | 30 APR 2023 | 26 OCT 2022 |
| +Milestones Complete.. | | |
| Expand Transaction generator | 01 MAR 2023 | 17 MAR 2023 |
| Expand Run Harness Config Options | 01 MAR 2023 | 17 MAR 2023 |
| Multi-producer & "relay" or "canary" node config support | 01 MAR 2023 | 17 MAR 2023 |
| Include configurable "relay" nodes | 01 MAR 2023 | 17 MAR 2023 |
| Expand reporting to include multiple nodes | 01 MAR 2023 | 17 MAR 2023 |
| Begin Design Planning for migration to auto deployment | 01 MAR 2023 | 17 MAR 2023 |
| Code complete (release candidate) | 01 APR 2023 | 06 APR 2023 |
| Code in production | 01 APR 2023 | 25 APR 2023 |

Upcoming Activities / In Progress

- COMPLETE

Complete


In Progress

Backlog

>  ENFS-587 Perf Harness - Phase 2

Issues / Risks / Escalations

- None

>  ENFS-319 Perf Harness MVP - Transaction Source>  ENFS-320 Perf Harness MVP - Run Harness>  ENFS-321 Perf Harness MVP - Output Evaluation>  ENFS-322 Perf Harness MVP - User Docs & Testing & Baseline Evaluation

Leap

Parallelize Speculative Read-Only Trx Exec.

ENF

Project Start Date: 30 NOV 2022

Project Summary: Leap is a C++ implementation of the Antelope protocol. It contains blockchain node software and supporting tools for developers and node operators. Parallelize Speculative Read-Only Transaction Execution

Link: <https://github.com/AntelopeIO/leap>

| | | | |
|--------------------------|---|--|--|
| Report Date: 28 APR 2023 | | | |
| Status Scorecard | | | |
| Schedule | ✓ | | |
| Scope | ✓ | | |
| Resources | ✓ | | |

Highlights & Accomplishments

- February 2023
- Organize operations into separate queues scheduled into two cycles completed
 - Use thread pool to parallelize completed
 - Develop parameterized timing model for cycles completed
 - Recommend default timing parameters completed
 - Initial PR put up for review for feedback
- March 2023
- Finalized solution for EOS VM OC issue
 - Received and implemented feedback from initial PR review
 - Put up final PR for review
 - Feedback received from last PR, comments addressed and integrated
 - PR put up for final review
 - Final feedback addressed, code merged into main for RC
 - Antelope Leap v4.0.0 released

| Key Milestones | | |
|---|-------------|-------------|
| Description | Planned | Act/*Est |
| Parallelize Speculative Read-Only Transaction Execution | 14 FEB 2023 | 15 MAR 2023 |
| Code complete (release candidate) | 01 APR 2023 | 15 MAR 2023 |
| Code in production | 01 APR 2023 | 25 APR 2023 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Upcoming Activities / In Progress

- COMPLETE

Issues / Risks / Escalations

- None

