



**EOS Network
Foundation**

Program and Operations Health Report

07 APR 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 features a complex network of thin, light blue lines connecting various points, creating a web-like structure. Overlaid on this are several semi-transparent, light blue geometric shapes, primarily triangles and polygons, some of which are more prominent than others. The overall aesthetic is clean, modern, and tech-oriented.

New Initiatives

March/April 2023 Release

Report: 07 APR 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	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
3.2 Backport work	Remaining backport work completed in 3.2.	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
Lighter Validation for Relays	Optimization of block propagation from relay nodes that match certain configured criteria	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
Auto-peer with next/previous BP	Optimization of BP peering to ensure most proximal production peers are connected	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
Programmable Future Snapshots	Ability to schedule and unschedule future snapshots	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
Multithread SHiP	Moving State History Plugin off the main thread for improved performance	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
SHiP Log Splitting, Block Log Splitting	State History Plugin logs and Block logs reformatted for improved storage and retrieval.	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
Leap 4.0 (new feature work, bugs)		Code has been merged	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	Code has been merged	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.	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
Performance Test Harness Stage 2	Transaction generator improvements including configuring transaction type	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
Regression Test Harness	A regression harness replacing eosio-launcher and improving overall flexibility.	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
BN256 library	C++ port of the bilinear group BN256 Go library to support EOS EVM performance requirements.	Code has been merged	Complete	✓	✓	✓	✓	✓	✓
Prometheus Exporter Plugin	New plugin to instrument nodeos for scraping data with Prometheus.	Code has been merged	Complete	✓	✓	✓	✓	✓	✓

Project Health Scorecard

Project	Headline	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ENF Projects													
GoLang Security Port	CODE IN RELEASE	>											
Performance Test Harness	Final tasks complete, ready for RC	>											
Performance Test Harness Stage 3	Shared at Antelope Node operator roundtable												
Regression Test Harness	Create setup tools + installers	>											
OCI Staff Augmentation	Final preparation for 4.0, planning for 5.0	>											
Hypha - DAO	Proposals, ecosystem queries near complete	>											
EOS EVM		>											
Leap Parallelize Speculative	CODE IN RELEASE	>											
Hubspot	Project paused for new vendor onboarding												
P2P Peer Discovery													
ENF Website Rebuild	FUNDAY exploration session to define scope												
Antelope Projects (Coalition)													
Scalability+ IBC	Milestone #5 and #8 reviews complete	>											
Scalability+ Instant Finality	Resources unavailable, project blocked	>											
Wallet+ SDKs	TransactPlugin monitors transaction finality	>											
Antler/CDT	CODE IN RELEASE	>											
Coalition Ledger App	Resources unavailable, dev work blocked												

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*								

Future

At Risk

Issues

Complete

*Not complete yet

Antelope Upgrade

GoLang Security Port

OCI

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

Report Date: 07 APR 2023			
Status Scorecard			
Schedule	✓		
Scope	✓		
Resources	✓		

Highlights & Accomplishments

- December 2022**
- L. Huang completed review, HM. Huang successfully integrated feedback
 - 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

Upcoming Activities / In Progress

- CODE IN RELEASE

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	*30 APR 2023

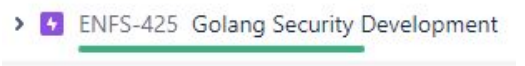
Issues / Risks / Escalations

- None

Complete

In Progress

Backlog












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

Upcoming Activities / In Progress

- Merge into main for next 4.0-rc3

>  ENFS-587 Perf Harness - Phase 2

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	*30 APR 2023

Issues / Risks / Escalations




- None

Complete

In Progress

Backlog



- >  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

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

Status Scorecard

Schedule	✓		
Scope	✓		
Resources	✓		

Highlights & Accomplishments

February 2023

- ENF and OCI team started Phase 3 Planning
- Phase 3 architecture ENF review occurred 08 FEB 2023

March 2023

- OCI outlined the first round of technical stories for development
- Break down Phase 3 Proposal into stories

April 2023

- Perf. Test Harness proposal merged, updated terminology from 'Stage' to 'Phase'
- Perf. Test Harness presented at Antelope Node Operator Round Table

Key Milestones

Description	Planned	Act/*Est
Baseline: EOS Mechanics CPU & RAM transactions	TBC	*TBC
+Milestones to follow...	TBC	*TBC

Upcoming Activities / In Progress

- Create boost beast async http client
- Update Boost version in cmake files
- In Peer Review:
 - Block Producer Mode Documentationis_valid_account
 - Create an "Operational Mode" framework


Issues / Risks / Escalations

- Update Key Milestones based on Phase 3 story development - **accepted**
- Other 4.0 release tasks prioritized over Phase 3 peer review - **escalated**

Complete 

In Progress 

Backlog 

>  ENFS-793 Perf Harness - Phase 3

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

Report Date: 07 APR 2023			
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

- March 2023

 - Fix defaults updates to performance_tests committed in error
 - Migrate launcher: move nodeos process control fully into Node.py
 - Implement nodeos process control in launcher.py
 - Remove eosio-launcher and cluster bootstrap shell script template
 - Review Test Harness Release Candidate
 - Fix protocol feature activations in integration tests
 - Regression Test Harness Review (PR #192)
 - Release Fixes: Regression Test Harness
 - All v4.0 critical features have been merged into main for RC
 - Create setup tools and installer for test harness
- April 2023

 - Create setup tools and installer for test harness

Upcoming Activities / In Progress

- 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

Key Milestones		
Description	Planned	Act/*Est
Replace/migrate eosio-launcher	01 MAR 2023	17 MAR 2023
Improve Flexibility/Reliability	01 MAR 2023	17 MAR 2023
Code complete (release candidate), v4.0-rc	01 APR 2023	20 MAR 2023
Code in production	01 APR 2023	*30 APR 2023
+Milestones to follow...	TBC	*TBC

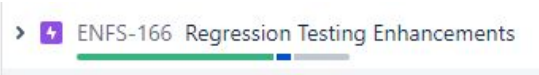
Issues / Risks / Escalations

- Additional milestone deliverables to be documented for reporting - *accepted*
- Other 4.0 release tasks prioritized over Regression Test peer reviews - *escalated*

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

March 2023

- 4.0: Performance Tests often fail to start
- Prometheus (Leap 5.0): SPIKE: Investigate if we should roll our own serialization
- 5.0: replace "boost.filesystem" with "std.filesystem"

April 2023

- 4.0: Enforce hard-coded limit on read threats
- 4.0: Investigate adding back in speculative mode
- 4.0: Test memory usage of may threads ro with no trxs
- 4.0: (non fatal) cpack error when creating leap-dev package on cmake <3.21
- 4.0: Test failure: resource_monitor_plugin_test
- 4.0: Fix Nodeointerus 2.0 Failure of Performance Test Basis on Main
- 4.0: Unable to block in TrustEVM
- EVM: Unable to link block in TrustEVM
- 5.0: Fix get_accountfail case. RPC endpoint for is_valid_account

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
+Milestones to follow...	TBC	*TBC

Upcoming Activities / In Progress

- Prometheus (Leap 5.0) Instrument Resource Monitor
- Prometheus (Leap 5.0) Eval Prometheus proposal and verify everything is done
- In Peer Review:
 - 5.0: Create new ship forking unittest
 - 5.0: Nodeos Endpoint IP and Port Configuration
 - 5.0: replace 'boost.filesystem' with 'std.filesystem'
 - 5.0: Optimize block start & release timing
 - 5.0: Optimize block start & release timing
 - 4.0: Restore deprecated read-mode=speculative



Issues / Risks / Escalations


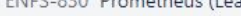
- Additional milestone deliverables to be documented for reporting - **accepted**
- Other 4.0 release tasks prioritized over 5.0 task in peer review - **escalated**



Complete 



In Progress 



Backlog 



>  ENFS-460 Leap 4.0 

>  ENFS-830 Prometheus (Leap 5.0) 

>  ENFS-493 EVM 

>  ENFS-829 Leap 5.0 

>  ENFS-641 SHiP & Block Log Splitting 

>  ENFS-642 Open SSL Dependency Removal 

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			
Scope			
Resources			

Highlights & Accomplishments

March 2023

- Code base setup to import EDEN election on EOS via EOS blockchain scan
- Completed graphql, ready for EOS migration technical deployment
- Hypha and ENF Marketing teams discussing upcoming technical deployment
- Completed importing EDEN election on EOS via EOS blockchain scan
- Video demonstration submitted to ENF to complete Milestone #4, under ENF review
- Defining recipes and designs completed for Milestone #5
- Milestone #5 UI/UX designs have been created
- Milestone #5 stories and specifications in progress based on recipes and designs
- Minor adj. to the Quest proposal to allow community poll proposal

April 2023

- INC convention in April to showcase DAO features
- Hypha transition to new PM software Linear for project visibility completed
- Hypha submitted an amendment to ENF for MS#4 (Eden Election) for review

Key Milestones

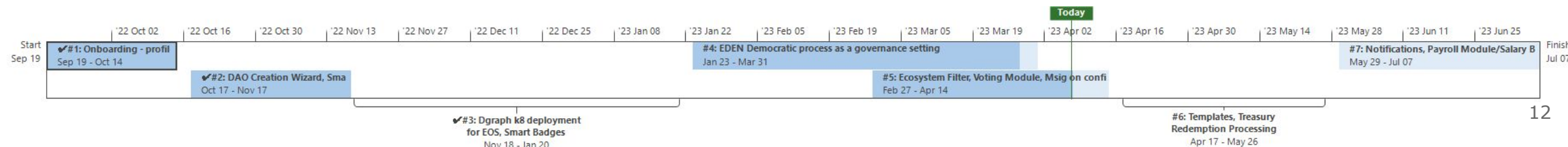
Description	Planned	Act/*Est
#1: Onboarding - profile service deploy for EOS, Mobile Version, Pricing Model +Freemium, staking and burning	14 OCT 2022	13 OCT 2022
#2: DAO Creation Wizard, Smart Contracts deploy on EOS	25 NOV 2022	17 NOV 2022
#3: Dgraph k8 deployment for EOS, Smart Badges	20 JAN 2023	03 FEB 2023
#4: EDEN Democratic process as a governance setting	24 FEB 2023	*21 APR 2023
#5 Ecosystem Filter, Voting Module (Config Page), Msig on config settings, Policy Proposals, Quest Proposals, Circle Proposals	14 APR 2023	*14 APR 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

- EOS deployment soft launch, commercial launch marketing communications
- Frontend development for configuration screen and proposals, 85% complete
- Backend development for proposal properties, ecosystem queries, 85% complete
- Multisig added back to MS#5 to increase security and to complete the requirements
- Prelim. link to MS#5: <https://linear.app/hypha/project/enf-m5-e6eaa3d8fdef>
- We will restructure the development process and remove the develop and staging branches in favor of "feature branches", a new dev methodology and workflow.

Issues / Risks / Escalations

- Using free edition dFuse limits trx to 2 documents/sec - **resolved**
- Hypha waiting on ENF response to proposal to amend Milestone #5 - **resolved**
- ENF stakeholders to escalate Milestone #4 submission for approval - **blocked**





Status Scorecard

Schedule			✓
Scope			✓
Resources		✓	

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

Highlights & Accomplishments

March 2023

- MSIG account creation for ENF & EVM accounts
- Vendor engaged for Frontend bridge design and development
- Ethereum consensus test fixed
- Initial design and UI for frontend trustless bridge
- Ecosystem partners contacted
- Bridging (EOS to EVM basic and EVM to EOS basic)
- Gas fee feature - Adjustable base gas price
- Testnet v0.3 deployed and launched

April 2023

- MSIG for mainnet approved by BPs and executed
- Sentnl.io security audit report

Key Milestones

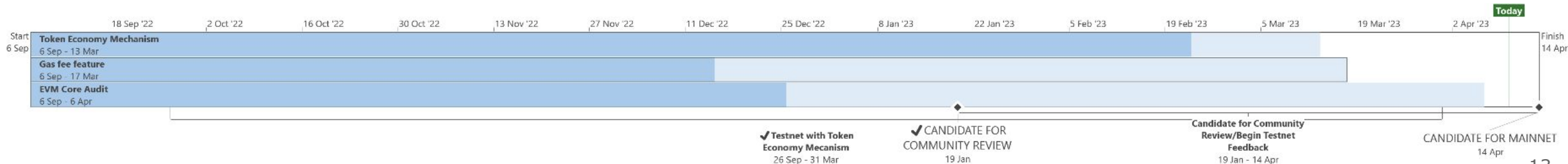
Description	Planned	Act/*Est
API Compatibility	22 NOV 2022	15 NOV 2022
+Milestones - Complete...		
Variable Simulation Model	08 NOV 2022	06 JAN 2023
Testnet Deployment Preparation	02 DEC 2022	16 DEC 2022
Silkworm Testnet without Token Economy	27 DEC 2022	19 JAN 2023
Bridging / Send EVM Action	24 JAN 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

- Review subdomains config dns details for mainnet
- Launch preparation and testing

Issues / Risks / Escalations

- Mainnet launch is dependent on findings from Sentnl.io security audit - **monitor**
- Limited time allocated for testing / resolution of issues - **monitor**
- Post-launch support requires dedicated resources - **monitor**



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>**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

Key Milestones

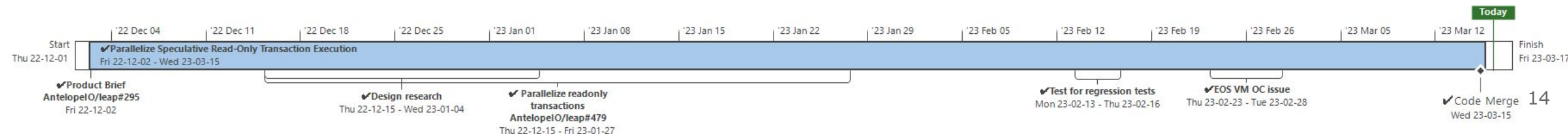
Description	Planned	Act/*Est
Parallelize Speculative Read-Only Transaction Execution	14 FEB 2023	15 MAR 2023
Code complete (release candidate)	01 APR 2023	15 MAR 2023
Code in production	01 APR 2023	*30 APR 2023

Upcoming Activities / In Progress

- **CODE IN RELEASE**

Issues / Risks / Escalations

- None



	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.		

Report Date: 23 MAR 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

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**

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

Status Scorecard

Schedule			
Scope			
Resources			

Highlights & Accomplishments

March 2023

- 6-Mar: Detailed schedule and work breakdown structure
- 9-Mar: Weekly project call scheduled
- 10-Mar: Custom Chain Id config with start using chain_ID and retrieve peer nodes from seed nodes
- 13-Mar: Initial draft of Technical Requirement Documentation
- 17-Mar: Project milestone approvers from coalition defined
- 17-Mar: Alias configuration implemented
- 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

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	*being reviewed
Custom Chain Id	10 MAR 2023	10 MAR 2023
Alias Configuration	17 MAR 2023	17 MAR 2023
Peer Refreshing	24 MAR 2023	*being reviewed
Nodes Setting	29 MAR 2023	*being reviewed
Automated Testing	12 APR 2023	*being reviewed
Testing and delivery	22 MAY 2023	*22 MAY 2023
Maintenance and support	20 AUG 2023	*20 AUG 2023

Upcoming Activities / In Progress

- Final review of PR for TR02/03 (adding configuration items chain-alias, chain-id, chain-alias-mapping)
- Automated Peer Discovery and Management finalization

Issues / Risks / Escalations

- Review and approval of deliverables are dependent on availability of milestone approvers - **monitor**





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

- Graphic Mint and DUD approve of key milestone dates
- Delivered final presentation to Executive Leadership ELT
- Phase 1 information architecture completed
- Phase 1 Low Fidelity wireframes
- Vendor FUNDAY onboarded to project
- 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

Key Milestones

Description	Planned	Act/*Est
#1 UX Design	06 MAR 2023	06 MAR 2023
#2 Branding Strategy, Brand Messaging	21 APR 2023	*21 APR 2023
#3 Content Strategy, Information Architecture	28 APR 2023	*28 APR 2023
#4 UI Design, Design Systems	22 MAY 2023	*22 MAY 2023
#5 ENF Content	31 MAY 2023	*31 MAY 2023
#6 Website Development	31 MAY 2023	*31 MAY 2023
#7 QA Review, testing	13 JUN 2023	*13 JUN 2023
#8 Website Launch	13 JUN 2023	*13 JUN 2023
#9 Post-Launch, Punch List	30 JUN 2023	*30 JUN 2023

Upcoming Activities / In Progress

- GameFi events and market research
- Workshop to deliver findings to Graphic Mint and FUNDAY
- Graphic Mint and FUNDAY discovery sessions

Issues / Risks / Escalations

- Graphic Mint to go dark 07 MAR to 14 APR - **accepted**
- FUNDAY unable to comply with proposed project schedule - **escalated**
- Unclear scope of work, discuss with external vendors - **blocked**
- Staff PTO may have impact to schedule, planning - **accepted**



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: 05 APR 2023			
Status Scorecard			
Schedule	✓		
Scope	✓		
Resources	✓		

Highlights & Accomplishments

March 2023

- Discussed with Coalition the last stage of Milestone #5, alert mechanism
- Additional definition added to Milestone #8 to specify APIs
- Additional definition added to Milestone #5 to specify monitor & analysis tools
- Coalition meeting 02 MAR 2023 approved proposed IBC milestone changes
- Milestone #8 Firehose and State History Plugin completed, in review by EOS USA
- Milestone #5 ready for review, submitted to ENF
- Milestone #7 review completed, approved
- 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

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 (Coalition approved change)	27 JUL 2023	07 APR 2023
#6 Integration of IBC and Instant Finality	22 AUG 2023	*22 AUG 2023
#7 Imp. of helper functions, database structures and API for proof generation in Nodes (Coalition approved change)	28 NOV 2023	13 MAR 2023
#8 Support & consult w/ History Solution Providers to improve proof APIs: Firehose , State History Plugin , TraceAPI (Coalition approved change)	28 NOV 2023	07 APR 2023

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

Issues / Risks / Escalations

- Milestone #5 does not require contacts to be preloaded - **accepted**





Scalability+

IF (Instant Finality)

Origin

Report Date: 05 APR 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

February 2023

- Milestone #2 PR put up, feedback to expand on scope by Coalition
- Proposal for milestone #2 redefine approved
- Coalition approved adjustments and dates to active milestones
- Milestone #1 completed, submitted to ENF for review

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 completed, waiting for IF for integration

Key Milestones

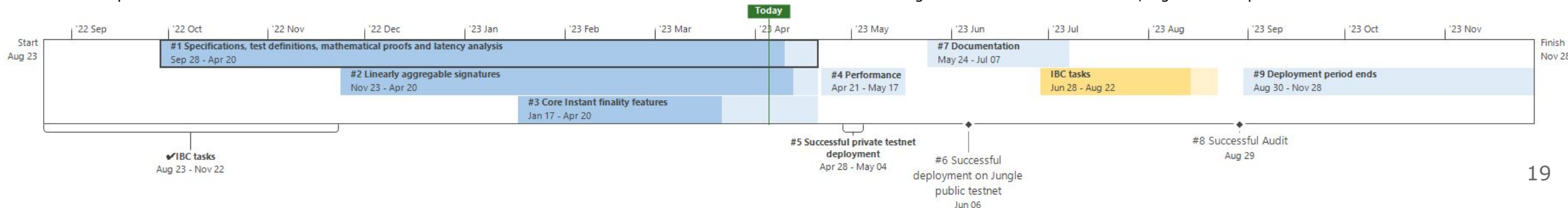
Description	Planned	Act/*Est
#1 Specifications, test definitions, mathematical proofs, latency analysis	25 OCT 2022	*20 APR 2023
#2 Linearly aggregable signatures	15 JAN 2023	*20 APR 2023
#3 Core Instant Finality features	28 FEB 2023	*20 APR 2023
#4 Performance review	28 MAR 2023	*04 MAY 2023
#5 Successful private testnet deployment	28 MAR 2023	*04 MAY 2023
#6 Successful deployment on Jungle public testnet	23 MAY 2023	*06 JUN 2023
#7 Documentation	27 JUN 2023	*07 JUL 2023
#8 Successful Audit	29 AUG 2023	*29 AUG 2023
#9 Deployment period ends	28 NOV 2023	*28 NOV 2023

Upcoming Activities / In Progress

- HotStuff core protocol consensus mech. as base consensus algorithm
- Core IF unit + integration tests
- Integration with Leap data structures
- IF protocol feature activation

Issues / Risks / Escalations

- Limited ENF availability impacting milestone #1 & #2 reviews - **escalated**
- Milestone #3 critical path, requires milestone #1 & #2 to complete - **accepted**
- A. Hayrapetian to provide input, feedback on milestone #3 features - **blocked**
- ENF engineers available after 14 APR, significant impact to schedule - **blocked**





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: 07 APR 2023

Status Scorecard

Schedule			✓
Scope	✓		
Resources	✓		

Highlights & Accomplishments

March 2023

- Major rewrite of the autocorrect plugin to improve error handling and prompting
- Released 0.3.0 of the wallet-plugin-anchor and wallet-plugin-cleos
- Integrated all Wharf github repositories into new translation pipeline
- First contribution to external open source projects (OBE) to integrate Wharf
- Milestone #3 review completed, approved
- 2nd technical preview published, start community engagement
- Console renderer prototype released on Github
- Engaged with community for feedback on many various web integrations
- Full pass on all repositories for localization standardization and pipeline integration
- Addressing bugs across reported by the community

April 2023

- Released new TransactPlugin to monitor for transaction finality
- Published 3 additional integration examples (Vue, React, SvelteKit)
- Minor releases published for multiple libraries to address bugs and upgrade deps

Key Milestones

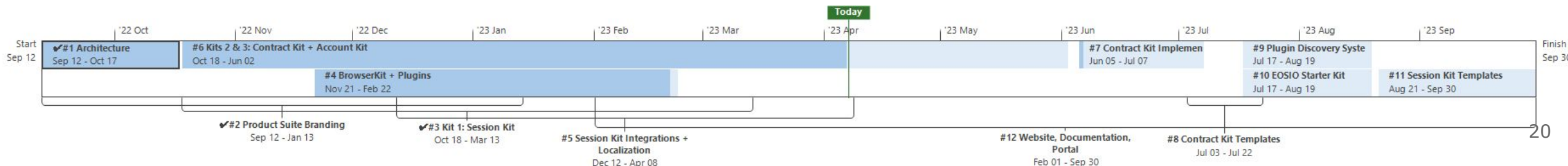
Description	Planned	Act/*Est
#1 Architecture	15 OCT 2022	17 OCT 2022
#2 Product Suite Branding	13 JAN 2023	11 JAN 2023
#3 Session Kit	23 JAN 2023	13 MAR 2023
#4 Browser Kit + Plugins	22 FEB 2023	*21 APR 2023
#5 Session Kit Integrations + Localization	08 APR 2023	*21 APR 2023
#6 Contract Kit + Account 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

- Milestone #4 initial graphical user interface
- 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

Issues / Risks / Escalations

- Greymass staff PTO may have impact on project schedules - **accepted**
- Milestone #4 tasks completed sequentially impacting schedule - **accepted**





Antelope

Contract Development Toolkit (CDT)

ENF

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>

Report Date: 06 APR 2023

Status Scorecard

Schedule			✓
Scope	✓		
Resources	✓		

Highlights & Accomplishments

- February 2023**
- ENF CDT build system and package system code review completed
 - Code review uncovered issues, PR put up
 - Project Management System (antler-pack) Validate Project complete
 - 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

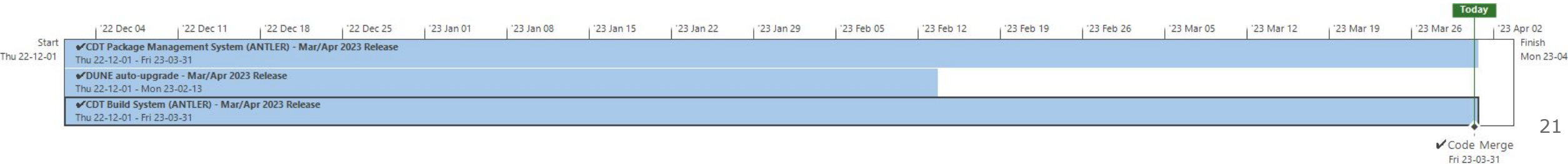
Key Milestones		
Description	Planned	Act/*Est
DUNE auto-upgrade	01 FEB 2023	26 JAN 2023
CDT Debugging Framework (ANTLER)	TBD	*TBD
CDT Package Management System (ANTLER)	20 FEB 2023	31 MAR 2023
CDT Build System (ANTLER)	23 FEB 2023	31 MAR 2023
Code complete (release candidate)	01 APR 2023	31 MAR 2023
Code in production	01 APR 2023	*30 APR 2023

Upcoming Activities / In Progress

- Ready for next 4.0-rc3

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: 07 APR 2023

Status Scorecard

Schedule		✓	
Scope		✓	
Resources			✓

Highlights & Accomplishments

February 2023

- WAX manager & dashboard icons complete

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

Key Milestones

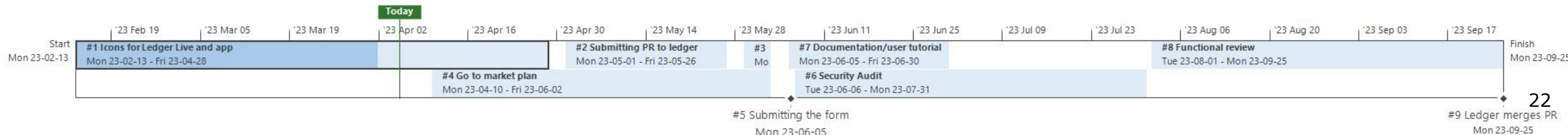
Description	Planned	Act/*Est
#1 Icons for Ledger Live and app	28 APR 2023	*28 APR 2023
#2 Submitting PR to ledger	26 MAY 2023	*26 MAY 2023
#3 PR to ledger passes all automated tests	02 JUN 2023	*02 JUN 2023
#4 Go to market plan (social, AMA, blogs)	02 JUN 2023	*02 JUN 2023
#5 Submitting the form to Ledger	05 JUN 2023	*05 JUN 2023
#6 Security Audit	31 JUL 2023	*31 JUL 2023
#7 Documentation/user tutorial	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 - **blocked**
- E. Passmore currently unavailable to support dev work - **blocked**



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, crystalline effect. The overall composition is dynamic and modern, with a color palette dominated by various shades of blue on a white background.

Operations Metrics

Operations Scorecard

(Rolling 12 months)

Area / Metrics	Link	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Market Funding													
Direct Grants Fully Approved (#)	+	0	0	1	0	2	0	0					
Direct Grants Fully Approved (\$)		\$0	\$0	\$10,000	\$0	\$275,000	\$0	\$0					
Direct Grants Rejected (#)		7	1	7	2	0	12	0					
Direct Grants Rejected (\$)		\$782,000	\$50,000	\$1,093,785	\$50,000	\$0	\$1,358,630	\$0					
Direct Grants Processing Time (days)		147	208	108	105	87	105	0					
Community Engagement													
# of Articles / Stories published	+	170	228	167	168	98	120						
# of Surveys completed		1	0	0	0	1	0						
# of Giveaway show participants		150	90	69	119	188	177						
Antelope Regression Metrics													
First Pass Yield (WF Runs)	+	82%	96%	95%	78%	96%	96%	100%					
Developer Relations													
# of DevRel tickets closed	+	6	11	5	20	9	12	4					
# of guides completed (Cumulative)		0	0	0	0	3	4	4					
Business Development													
Total Open Leads	+	141	181	209	278	326	368						
Projects in Commercials Discovery		69	96	108	130	163	182						
MoU Signed		1	4	4	5	6	7						
Demos / Prototypes in work		0	0	1	2	3	4						
Project SoWs Signed		0	0	0	0	0	0						
Projects deployed to Mainnet		0	0	0	0	0	0						

Contracts / RFP / Grants	
Review of Contracts, RFP and Grants status for week of 07 APR 2023	

Status Scorecard

Schedule	✓		
Scope	✓		
Resources	✓		

Highlights & Accomplishments

- Contracts**
 - Peckshield Inc. NDA fully executed
- RFP**
 - N/A
- Grants**
 - N/A

Status Overview			
Area	Document	Status	Notes
Contracts	Creative Circle Recruitment Agreement	In review	Vendor working with their legal team to use our agreement.
Contracts	Darren Caddle Recruitment MSA	In review	Reviewing vendor change request with Stacye.
Contracts	Shirley Vincent ICA	Out for Signatures	

Upcoming Activities / In Progress

- Contracts**
 - Creative Circle MSA
 - Contract Request Form
- RFP**
 - N/A
- Grants**
 - Closing Batch 24 Grant Applications
 - Creating Dora Hackathon invoices.
 - Zack Gall prepping KYC list for Trust EVM contestants.
 - Reviewing incoming Grants and sending for translation.

Issues / Risks / Escalations

- n/a