



EOS Network
Foundation

Program and Operations Health Report

19 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 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 larger and more prominent than others. The overall aesthetic is clean, modern, and technical.

New Initiatives

March/April 2023 Release

Report: 12 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-rc2 coming up	Complete	✓	✓	✓	✓	✓
DUNE								
DUNE multi-versioning support	DUNE capable of upgrading itself and managing multiple versions of itself. Support for multiple versions of internal tooling.	DUNE v1.2.0-rc1 coming up	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	✓	✓	✓	✓	✓

Good

At Risk

Blocked

Aug/Sept 2023 Release

Report: 12 MAY 2023

Projects +	Summary Details	Updates	Status	Coding	Peer Review	Code Freeze	Integration Testing	Release Candidate
Leap								
CDT								
DUNE								
Additional Components								

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 for Allow setting tps floor in perf_test			>>	>>	>>							
Regression Test Harness	PR up for Nodeos Process Controls milestone	>>	>>	>>	>>	>>	>>						
OCI Staff Augmentation	5.0 Integration for GELF logging	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>
Hypha - DAO	MSIG for treasury redemption completed	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>
EOS EVM		>>	>>	>>	>>	>>	>>						
Leap Parallelize Speculative	COMPLETE - Antelope Leap v4.0.0 released	>>	>>	>>	>>	>>							
Hubspot	COMPLETE - HubSpot set up complete		>>	>>	>>	>>	>>						
P2P Peer Discovery			>>	>>	>>	>>	>>	>>	>>	>>			
ENF Website Rebuild	Ext. vendor releases revised schedule			>>	>>	>>	>>	>>	>>	>>			
Antelope Projects (Coalition)													
Scalability+ IBC	Community support via TG channel	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>
Scalability+ Instant Finality	ENF engineers unavailable, blocking project	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>
Wallet+ SDKs	EOSIO core lib. updates, new API endpoints	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>
Antler/CDT	CDT v4.0.0-rc1 released, DUNE ready for rc	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>
Coalition Ledger App	Chains dev. marketing plans for submission		>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>

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*

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

April 2023

- 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
- Dates for key milestone #1-3 updated to reflect scheduled work required
- Initial reporting updates for API Node and HTTP Transaction Generator
- HTTP Transaction Generator push transaction
- Wire support for API Node and HTTP Transaction Generator into Perf. Harness

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	19 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

Upcoming Activities / In Progress

- Expand Performance Test reporting to indicate success/failure metrics
- HTTP Transaction Generator – Read-only transaction support.
- In Peer Review:
 - Allow setting tps floor in performance_test
 - Performance Test Basic report needs filed indication success/failure

Issues / Risks / Escalations

- Update Key Milestones based on Phase 3 story development - *accepted*
- Pert. Test Harness resources to be shared with EOS EVM work - *escalated*

Complete 
 In Progress 
 Backlog 

>  ENFS-793 Perf Harness - Phase 3

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

Status Scorecard

Schedule			
Scope			
Resources			

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
- Complete work on failing test validate-dirty-db
- Put PR# [1182](#) to review all items in progress for Nodeos Process Controls

Key Milestones

Description	Planned	Act/*Est
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

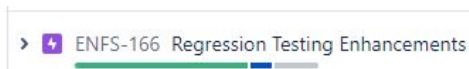
In Peer Review:

- 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

- Engineers troubleshooting the test failure from code merge - **resolved**
- Est. dates of stories added to milestones extended beyond Aug/Sept - **accepted**
- Competing priorities for undetermined amount of time - **escalated**
- Resources for Reg. Test Harness to be shared with P2P Rewrite Work - **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

May 2023

- Prometheus 5.0: Prometheus plugin enhancement
- Bus Fixes (backport):
 - Nodeos shuts down unexpectedly "exception in http thread pool"
 - Getting unlinkable_block_exception when generating a snapshot not a block
 - Replay of blocks log fails when it has been sliced using the log splitting feature
 - SHip Log split default value set for max stride slice retention, default to be unltd
- 5.0: Proposal: Boost JSON into fc.
- 5.0: Update handling of the http-max-response-time-ms & abi-serializer=max
- 5.0: app_base plugin initialize behavior is inconsistent
- 5.0: Implementation for Nodeos Endpoint IP and Port Configuration
- 5.0: Integration for GELF logging

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





Upcoming Activities / In Progress





- 5.0: IPv6 Support
- 5.0: P2P Improve sync behavior







Issues / Risks / Escalations

- Staff Aug. resources to be shared with new EOS EVM work - **escalated**

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	■	■	■ <input checked="" type="checkbox"/>
Scope	■ <input checked="" type="checkbox"/>	■	■
Resources	■ <input checked="" type="checkbox"/>	■	■

Highlights & Accomplishments

April 2023

- 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
- Treasury redemption process completed, semi-automated for end-users
- Strategic roadmap for post-beta launch, addn't features to enhance DAO features
- Content created for Political Movement Template, in conjunction with INC
- B. Lovejoy and Hypha team hosted a Twitter spaces event 16 MAY
- Config settings template contents, types, and descriptions
- QA, unit tests to prepare for security audit
- Content for templates (role, badge, document, circle) defined, written
- API integration, MSIG for treasury redemption completed
- Redemption, templates and treasury back-end work completed, in testing

Key Milestones

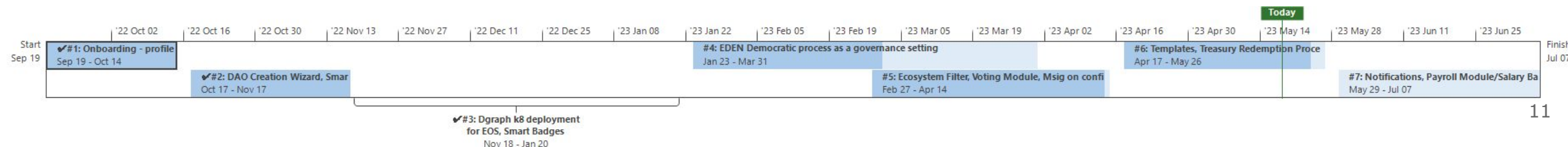
Description	Planned	Act/*Est
#1: Onboarding - profile service deploy for EOS, Mobile Version, Pricing Model +Freemium, staking and burning	14 OCT 2022	13 OCT 2022
#2: DAO Creation Wizard, Smart Contracts deploy on EOS	25 NOV 2022	17 NOV 2022
#3: Dgraph k8 deployment for EOS, Smart Badges	20 JAN 2023	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 in dev, 95% complete
- Beta launch MVP, select security audit company, bug fixes targeting end of June
- Config template for Eden Election in the voting method section
- Convert templates details into JSON file
- Early shaping for milestone #7 Notifications, Payroll Modules/Salary Bands

Issues / Risks / Escalations

- Hypha to outline scope for Milestone #4, integrate into schedule - **escalate**
- Schedule for security audit to be confirmed - **resolved**
- ENF to provide support with translations - **escalate**



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

Status Scorecard

Schedule	✓	✓	✓
Scope	✓	✓	✓
Resources	✓	✓	✓

Highlights & Accomplishments

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
- Mainnet upgrade with v0.4-official
- Explorer update to 5.1.2
- Old Testnet (w/o Token economy) deprecation
- Deployment of 0.4.2 release

Key Milestones

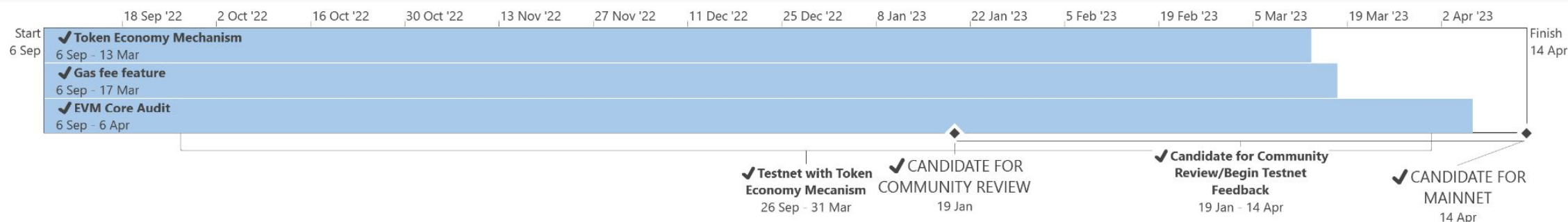
Description	Planned	Act/*Est
API Compatibility	22 NOV 2022	15 NOV 2022
+Milestones - Complete...		
Variable Simulation Model	08 NOV 2022	06 JAN 2023
Testnet Deployment Preparation	02 DEC 2022	16 DEC 2022
Silkworm Testnet without Token Economy	27 DEC 2022	19 JAN 2023
Bridging / Send EVM Action	24 JAN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

- Upgrade mainnet Explorer to v5.1.2
- Preparation of product roadmap and next minor release
- 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**



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	■	■ <input checked="" type="checkbox"/>	■
Scope	■ <input checked="" type="checkbox"/>	■	■
Resources	■ <input checked="" type="checkbox"/>	■	■

Highlights & Accomplishments

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
- 17-May: Testing standards defined by Fudan team and submitted to milestone approver for review and approval
- 19-May: Testing standards to be discussed within Coalition channel

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	*7 JUN 2023
Custom Chain Id	10 MAR 2023	10 MAR 2023
Alias Configuration	17 MAR 2023	17 MAR 2023
Peer Refreshing	24 MAR 2023	*7 JUN 2023
Nodes Setting	29 MAR 2023	*7 JUN 2023
Automated Testing	12 APR 2023	*7 JUN 2023
Testing and delivery	22 MAY 2023	*20 JUL 2023
Maintenance and support	20 AUG 2023	*20 AUG 2023

Upcoming Activities / In Progress

- Testing standards to be approved by the coalition

Issues / Risks / Escalations

- Review and approval of deliverables are dependent on availability of milestone approvers - **monitor**
- Testing standards to be approved to confirm 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
- FUNDAY presents revised schedule based on adjusted scope

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	*01 AUG 2023
#4 UI Design, Design Systems (Graphic Mint)	23 JUN 2023	*TBC
#5 Web Content (ENF)	27 JUN 2023	*TBC
#6 Website Development (DUD)	22 AUG 2023	*TBC
#7 QA Review, testing (DUD)	30 AUG 2023	*TBC
#8 Website Launch (DUD)	31 AUG 2023	*TBC
#9 Post-Launch, Punch List (ENF, DUD)	16 SEP 2023	*TBC

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
- FUNDAY, Graphic Mint, Double Up Digital and ENF sync meeting in June

Issues / Risks / Escalations

- Aggressive tight timeline, critical path milestones - **escalated**
- FUNDAY revised schedule on critical path, impacting timelines - **escalated**
- Revised FUNDAY Scope of work under executive review - **escalated**



Scalability+

IBC (inter blockchain communication)

Origin

Report Date: 17 MAY 2023

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/>

Status Scorecard

Schedule	✓	✓	✓
Scope	✓	✓	✓
Resources	✓	✓	✓

Highlights & Accomplishments

March 2023

- 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
- Provide community support via Telegram channel for questions, issues

Key Milestones

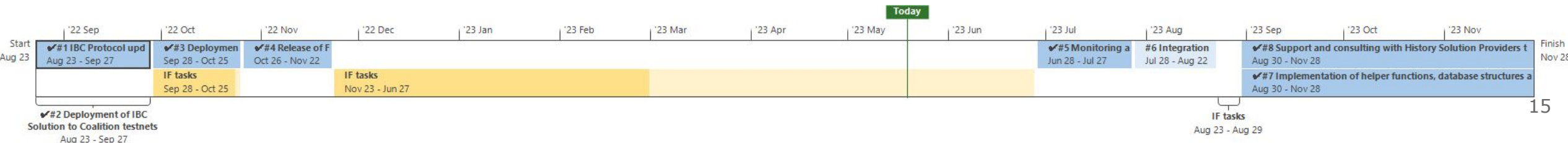
Description	Planned	Act/*Est
#1 IBC Protocol updates	27 SEP 2022	03 NOV 2022
+Milestones Complete..		
#4 Release of Firehose + proof API server bundle	22 NOV 2022	15 DEC 2022
#5 Monitoring and analysis tools: API to monitor contracts on+alert mechanism (Coalition approved change)	27 JUL 2023	07 APR 2023
#6 Integration of IBC and Instant Finality (+IF milestone #5: Successful private testnet deployment)	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
- IBC planning for integration with IF, launch on testnet

Issues / Risks / Escalations

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





Scalability+

IF (Instant Finality)

Origin

Report Date: 17 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	■	■	■ <input checked="" type="checkbox"/>
Scope	■	■ <input checked="" type="checkbox"/>	■
Resources	■	■ <input checked="" type="checkbox"/>	■

Highlights & Accomplishments

March 2023

- 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
- A. Hayrapetian reviewing BLS, Linearly aggregable signatures PR
- Feedback provided to Origin on BLS, Linearly aggregable signatures PR
- F. Cecin minor refactoring to clean code base, improve efficiencies
- M. Schoenebeck repaired issues reported by ENF during initial reviews

Key Milestones

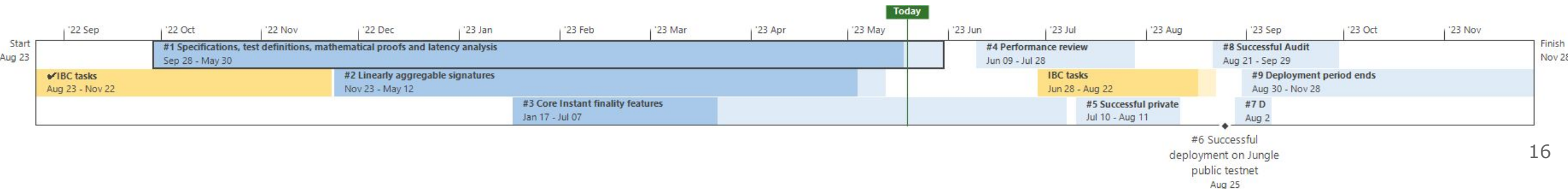
Description	Planned	Act/*Est
#1 Specifications, test definitions, mathematical proofs, latency analysis	25 OCT 2022	*30 JUN 2023
#2 Linearly aggregable signatures	15 JAN 2023	*12 MAY 2023
#3 Core Instant Finality features (Hotstuff)	28 FEB 2023	*07 JUL 2023
#4 Performance review	28 MAR 2023	*28 JUL 2023
#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 edge cases for Core IF features

Issues / Risks / Escalations

- 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**
- M. Witherspoon currently blocked with competing priorities - **escalated**





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)

Status Scorecard

Schedule	■	■ <input checked="" type="checkbox"/>	■
Scope	■ <input checked="" type="checkbox"/>	■	■
Resources	■ <input checked="" type="checkbox"/>	■	■

Highlights & Accomplishments

April 2023

- 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
- Development of a console-based UI renderer for development
- PR put up for Login plugin system
- Website entering development phase, content near completion
- Milestone #4 completed
- Primary UI for Web Renderer complete
- Web Renderer incl. QR expanding, animations, UI to manage Settings
- EOSIO core library updates for new API endpoints, backend improvements

Key Milestones

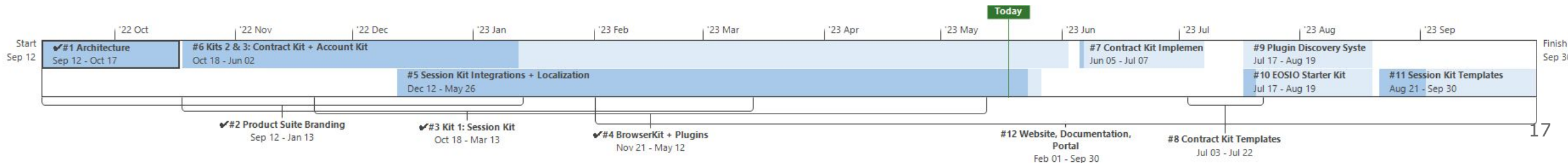
Description	Planned	Act/*Est
#1 Architecture	15 OCT 2022	17 OCT 2022
#2 Product Suite Branding	13 JAN 2023	11 JAN 2023
#3 Session Kit	23 JAN 2023	13 MAR 2023
#4 Browser Kit + Plugins	22 FEB 2023	12 MAY 2023
#5 Session Kit Integrations + Localization	08 APR 2023	*26 MAY 2023
#6 Contract Kit + Account 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

- Continued development of wallet/transact plugin(s) for Session Kit
- Finalizing UI specification into document format for publishing
- Address community feedback from login plugin system release
- Documentation for Session Kit, Core Libraries
- 0.5.0 release for Session Kit

Issues / Risks / Escalations

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





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>

Status Scorecard

Schedule	■	■	■ <input checked="" type="checkbox"/>
Scope	■ <input checked="" type="checkbox"/>	■	■
Resources	■ <input checked="" type="checkbox"/>	■	■

Highlights & Accomplishments

February 2023

- 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

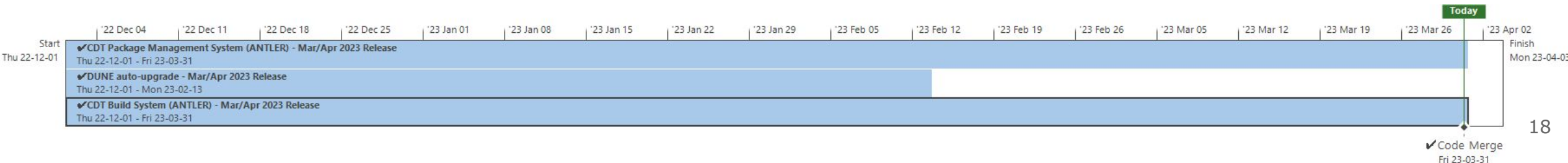
Description	Planned	Act/*Est
DUNE auto-upgrade	01 FEB 2023	26 JAN 2023
<i>CDT Debugging Framework (ANTLER)</i>	<i>TBD</i>	<i>*TBD</i>
CDT Package Management System (ANTLER)	20 FEB 2023	31 MAR 2023
CDT Build System (ANTLER)	23 FEB 2023	31 MAR 2023
CDT Code complete (release candidate)	01 APR 2023	05 MAY 2023
CDT Code in production	01 APR 2023	*22 MAY 2023
Dune Code complete (release candidate)	01 APR 2023	*15 MAY 2023
Dune Code in production	01 APR 2023	*31 MAY 2023

Upcoming Activities / In Progress

- Correct CDT errors encountered building EVM contract with 4.0
- CDT CODE COMPLETE**
- DUNE CODE MERGED, READY FOR v1.1.1-rc1**

Issues / Risks / Escalations

- None





Coalition Ledger App

Report Date: 19 MAY 2023

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

Status Scorecard

Schedule	■	<input checked="" type="checkbox"/>	■
Scope	■	<input checked="" type="checkbox"/>	■
Resources	■	■	<input checked="" type="checkbox"/>

Highlights & Accomplishments

March 2023

- 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
- Engineering unavailable, completing resources blocking work
- WAX provided marketing plan to include with submission

Key Milestones

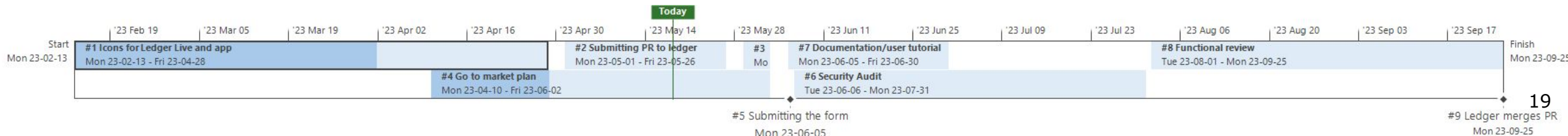
Description	Planned	Act/*Est
#1 Icons for Ledger Live and app	28 APR 2023	*12 MAY 2023
#2 Submitting PR to ledger	26 MAY 2023	*26 MAY 2023
#3 PR to ledger passes all automated tests	02 JUN 2023	*02 JUN 2023
#4 Go to market plan (social, AMA, blogs)	02 JUN 2023	*02 JUN 2023
#5 Submitting the form to Ledger	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
- 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 - **blocked**



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 larger and more prominent than others. The overall aesthetic is clean, modern, and technical.

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	12	5	7					
Direct Grants Processing Time (days)		229	184	168	87	132	96	65					
Developer Relations													
# of DevRel tickets closed	+	11	5	20	9	20	21	6					
# of guides completed (Cumulative)		0	0	0	3	4	6	9					
# of docs new users		0	0	0	10	330	2,200	662					
# of learn new users		0	0	114	206	199	343	152					
Regression Metrics - Antelope													
First Pass Yield (WF Runs)	+	96%	95%	78%	96%	96%	100%	98%					

Operations Scorecard

(Rolling 12 months)

Area / Metrics	Link	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
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						
Recover+													
Dollar amount coverage							\$47,625,135						
Total number of Applications registered	+						23						

Review of Contracts, RFP and Grants status for week of 19 May 2023

Status Scorecard

Schedule			
Scope			
Resources			

Highlights & Accomplishments

Contracts

- Blue Mail Media Fully Executed
- Ennea NDA fully executed

RFP

- None

Grants

- Batch 26 closed/emails sent
- Batch 27 in Committee Review
- Grant Request for EOS Cryptography Proposal 2 approved

Status Overview

Area	Document	Status	Notes
Contracts	Blue Mail Media	Done	
Contracts	Ennea NDA	Done	
Grants	Batch 27	Open	Committee still voting
Contracts	BlockSec	Open	Negotiating Terms

Upcoming Activities / In Progress

Contracts

- BlockSec Negotiating Terms

RFP

- None

Grants

- TrustEVM KYC
- Reviewing incoming Grants and sending for translation.
- Batch 27 in Committee Review.
- Batch 28 opened

Issues / Risks / Escalations

- None

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 larger and more prominent than others. The overall aesthetic is clean, modern, and technical.

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 UserTrxDatFile 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

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
- Antelope Leap v4.0.0 released

Key Milestones

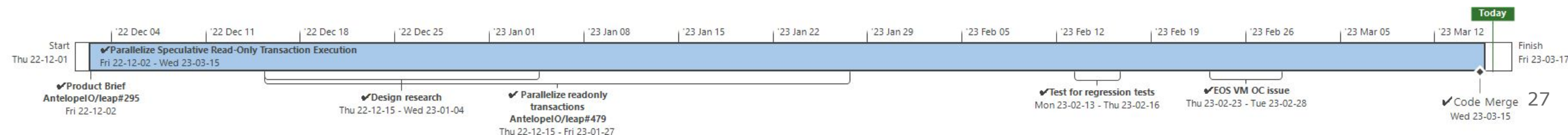
Description	Planned	Act/*Est
Parallelize Speculative Read-Only Transaction Execution	14 FEB 2023	15 MAR 2023
Code complete (release candidate)	01 APR 2023	15 MAR 2023
Code in production	01 APR 2023	25 APR 2023

Upcoming Activities / In Progress

- COMPLETE

Issues / Risks / Escalations

- None



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.

Status Scorecard

Schedule	✓		
Scope	✓		
Resources	✓		

Highlights & Accomplishments

March 2023

- 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

May 2023

- Completed ABM configuration setup
- Set up business development funnel with appropriate properties and views
- Completed review of ENF user-level accesses, permissions
- Documentation of processes started, team discussion around key metrics to track

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	12 MAY 2023
#6 Unify instances, close old instance	15 MAR 2023	15 MAR 2023
#7 Instance coding and setup	21 MAR 2023	12 MAY 2023
#8 Dashboard review, configuration & Data review, dashboard testing (to be addressed later)	22 MAR 2023	*TBC
#9 HubSpot Reporting (to be addressed later)	30 MAR 2023	*TBC
#10 Document Processes, Process Metrics	04 APR 2023	12 MAY 2023

Upcoming Activities / In Progress

- **PROJECT COMPLETE**

Issues / Risks / Escalations

- None