VØID

ENTER THE VOID

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Executive Summary

What is The Void?
The Void is an infrastructure solution for the future of advanced NFT-based applications. We enable any dynamic data and programmatic NFT use-case using our feeless, scalable, and developer-friendly protocol.

Non-Fungible Gadget Protocol
Developed by Enter The Void, Non-Fungible Gadget Protocol (NFGP) is the first agnostic logic-scaling solution for advanced app enablement, allowing developers to build custom NFT applications across all ecosystems. Our ability to quickly process and validate complex logic and off-chain data sources without any fees opens the door for new enterprise NFT use cases that can seamlessly integrate with any existing business workflow.

As a stack/language/chain agnostic solution, we create a new entry point for the global developer community inside of Web3 that can bring value to all NFT collections in all ecosystems using their existing skill set and software stack by adding new utility to existing NFTs. Developers who create new data-types can earn royalty payments every time their code is used, creating the conditions for reusability and composability of committed code while reducing development time and costs.

All of our infrastructure's characteristics and benefits can be applied to any NFT from any ecosystem using a unique and novel proxy architecture designed by Enter The Void. This approach allows us to provide layers of utility to any NFT while maintaining its original ownership and authenticity without compromising security. The Void is the great elevator and unifying force for NFTs in Web3.

I. Challenges

Low TPS prevents enterprises level use cases

Real Web2 data integration is extremely rare. This integration refers to external dynamic data fed into and used directly by smart contract logic. Enterprise applications that require near-instant confirmation times and data validation cannot rely on slow networks to effectively conduct business operations.

Network fees discourage on-chain logic execution

Any interaction with a smart contract incurs a fee, this makes the majority of NFT use-cases impractical as an adoptable solution for enterprise-grade applications.

Most Web3 applications don't place logic on-chain for fear of accruing high and unpredictable costs. This discourages enterprises from extending their Web2 systems into Web3. Moreover, requiring businesses or customers to buy and hold a token in order to access a service creates friction for all participants.

Siloed NFT ecosystems

❖ **Developer communities:** Network siloes are one of the greatest challenges in Distributed Ledger Technology and as a result, many new protocols are being built to achieve cross-chain interoperability. Another silo less commonly referred to is those originating from network programming languages. Each network has its designated programming language (Solidity/ETH, Rust/SOL, Cadence/FLOW) that allows developers to build applications and create NFTs. This is a self-imposing strain on the network which creates limitations in available developer resources.

❖ **NFT communities:** Most NFT communities exist in siloed Discord servers that were not built to accommodate Web3 communities/DAOs. Additionally, the value that an NFT offers can only exist within its own ecosystem. It is impossible for NFTs from Ethereum to communicate and interact with those from Solana and vice versa.

Security risks and development costs associated with smart contracts

Signing a smart contract is the Web3 equivalent of accepting "terms and conditions". When a user accepts a smart-contract interaction, they rarely check the actual contract in which they are agreeing to engage with. This scenario has a very high margin of error

which has led to even the most seasoned Web3 participants losing their valuable NFTs when directly interacting with a smart contract.

Lack of utility

As an emerging technology, NFTs have shown great promise in their ability to generate value and bring power back to creators. However, due to the existing challenges surrounding the current NFT infrastructure stated above, the market has largely gravitated towards an arena for highly speculative investment opportunities as opposed to a market for consumption. This led to a new culture of "flipping" that led to many exit scams or "rug pulls". While this is certainly not the case for all NFT collections, the negative PR associated with influencer or celebrity NFT drops has left a poor impression on retail investors who were sold a dream and left with an unfinished project roadmap.

The vast majority of NFTs are simply media files that serve little or no purpose outside of being an investment vehicle generated by hype and community engagement. This is not to say that these NFTs have no value, but that the underlying technology of what an NFT is capable of is being underutilized and overshadowed by a culture of speculative traders.

Existing NFT standards and network limitations create these conditions that ultimately lead to a limited number of plausible use cases and a lack of utility across all ecosystems. Exciting NFT use cases are not feasible solutions at scale because of variable fees, slow execution speed, and integration limitations.

II.   Opportunity

NFT market size

The Global Non-fungible Token Market size is expected to reach $97.6 billion by 2028, rising at a market growth of 31.6% CAGR during the forecast.[1]

- ❖ **Scaling existing NFT projects to unlock purpose and utility for their holders.** To date, over 267,000 NFT collections have launched between the Ethereum and Solana blockchains.[2] Many of these NFT projects are looking for secure, scalable, and cost-effective ways for providing greater value to their communities through added utility. The Void provides this solution and enables

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[1]
https://www.globenewswire.com/news-release/2022/06/29/2470994/0/en/The-Global-Non-fungible-Token-Market-size-is-expected-to-reach-97-6-billion-by-2028-rising-at-a-market-growth-of-31-6-CAGR-during-the-forecast-period.html
[2] https://app.intotheblock.com/insights/nft + https://hyperspace.xyz/leaderboard

both collection creators and individual token holders to turn their NFT(s) into a living application.

❖ **Empowering the global developer community through agnostic solutions.** The 20th edition of the "State of the Developer Nation" report found that there were 26.8 million active software developers in the world by the end of 2021 with experts forecasting this number to reach 45 million by 2030.[3] This number heavily contrasts the total number of developers currently inside Web3 at 48,000 who are forced into using specific programming languages.[4] As stated by Electric Capital in their recent report, "The growth of developers in Web3 has been record-breaking, but still represents a small, and rapidly expanding, percent of software engineers globally."[5] Through our stack/language/chain agnostic solution, we can provide a new entry point into Web3 for developers interested in building custom NFT applications using whatever software stack and programming language they want in the ecosystem of their choice. NFGP also empowers developers to earn royalties on their open-source contributions. Forming a new gig economy for developers that incentivizes innovation of use cases and reusability of committed code.

❖ **Enabling Web2 businesses to easily extend into Web3.** In the past two years, we have seen a number of Web2 businesses finding ways to integrate Web3 solutions into their existing business strategy. However, because of the existing infrastructure limitations, Web3 for businesses became a new marketing arena to generate brand awareness through digital collectibles and art as opposed to a new market of integrative solutions. While some brands have had major success inside of Web3, we believe that greater success can be achieved through our new protocol that can lead to new product and service offerings as NFT-based applications. We're empowering the next wave of businesses entering Web3 who want to easily integrate NFTs into their existing business workflow as a SaaS solution.

❖ **Uniting NFT communities across ecosystems.** Tribalism is a prevalent side effect of the network siloes inside of Web3. Impassioned communities compete with each other for market share and network effects through various forms of guerilla marketing tactics. The Void acts as a market-neutral solution for all ecosystem participants to come together and build a future for NFTs as one united community. We provide the tools that DAOs and Web3 communities desire to enhance their community experience and remove the borders across ecosystems.

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[3] "Developer Demographics." Accessed September 13, 2022. https://www.developernation.net/developer-reports/de20.
[4] Stack. "Stack - Tracking Crypto Developer Activity." https://stack.money/.
[5] Shen, Maria. 2022. "Electric Capital Developer Report (2021)." Electric Capital. January 28, 2022. https://medium.com/el

III.   Our Vision

❖ **Elevating existing NFT communities across ecosystems:** Providing an agnostic solution to bring utility to all NFTs across all ecosystems.

❖ **Creating a new market for NFTs as SaaS applications:** Enabling new NFT use cases for consumer and enterprise-grade applications.

IV.   Solution

Non-Fungible Gadget Protocol

Non-Fungible Gadget Protocol or NFGP is the first **NFT Logic Scaling Solution for advanced app enablement**. As an agnostic solution, we enable users to add layers of complex logic and utility to NFTs in whatever programming language or ecosystem they desire. This includes any dynamic or programmable NFT application that requires fast and feeless transactions and data validation from untrusted external data sources or other blockchains.

The Void infrastructure can offer:

❖ **Zero network transaction fees:** The Void users will be able to create, trade, and interact with NFTs and NFT-based applications without the hassle of having to acquire tokens to pay for gas, just like they would in the familiar Web2 environment.

❖ **Faster transactions times:** Slow transactions are another drawback that negatively impacts NFT market analytics, security, use cases, and user experience. On Ethereum, transaction times can take anywhere between 2 and 30 minutes depending on how much one is willing to pay in network fees.[6] While this might not seem like much of a hindrance, it is a limitation that has many unforeseen consequences on user experience and innovation.

❖ **Flexible Composition:** The Void provides the flexibility for developers to define the custom complex data types that their use-cases require. This is made possible

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[6] ETH Gas Station." 2016. Ethgasstation.info. 2016. https://ethgasstation.info/.

because of The Void's statically typed functional programming approach which defines formally verifiable primitive data types so that more complex data types can be built. Developers can access a full list of safe and secure data-types from our open-source **Data-type Library** or build a custom data-type that fits their specific use-case implementation. Developers who create new data-types can earn royalty payments every time their code is used, creating the conditions for reusability and composability of committed code while reducing development time and costs.

❖ **Custom Consensus:** We are free to define custom consensus, validation, and tokenomics logic to be configured for asynchronous or linear execution. This is an evolution of smart contracts that enables fully customizable and scalable decentralized application logic to be executed on any data type. The Void is a state channel that inherits these qualities and passes them onto the businesses that operate over it, opening entirely novel combinations and permutations of logic configurations that govern their NFTs, enabling new business opportunities and efficiencies to be realized.

❖ **Security:** Using the Java Virtual Machine (JVM) enables the programming logic governing NFTs to leverage type checking. This ensures the code executes as intended at compile time, as opposed to run time, where bugs may only be discovered after the code is implemented, potentially creating an attack surface for hackers to exploit.

❖ **Validation of 3rd Party Sources:** The Void is able to validate data derived from "off-chain" systems and devices at the source, such as an individual IoT device, sensor, or even a complex system or network. To use the industry lexicon, this capability is an "Oracle". The advantage of this for The Void is that it allows for the reliable incorporation of validated data from other systems.

❖ **Chain agnostic:** All of NFGP characteristics and benefits can be applied to not only our own native NFT standard but also NFTs from any ecosystem using a very unique proxy architecture designed by Enter The Void. This approach allows us to provide utility while maintaining the original NFT's ownership and uniqueness. Any NFT project can seamlessly and securely tap into The Void network in a plug-and-play fashion and gain access to all of its applications as well as traditional Web2 products and services without compromising the security of the original NFT.

V. Supporting Products & Services

The Portal

NFT projects constantly need to find new ways to provide value for their holders. Community members are always looking for "more"... More updates, more games, more giveaways, more utility, etc... However, the burden of "more" in this decentralized community always falls on the shoulders of the project's creators to come up with new and innovative ways to grow the community and drive the project forward. We are proposing a new solution that gives power back to the community that benefits all participants inside "The Portal".

The Portal is an all-in-one DAO dashboard that allows users to discover and access different NFT applications across all ecosystems. Using The Portal, community members can build different applications using NFGP that are accessed inside their Portal dashboard by other members. This creates new micro-economies inside of NFT communities that provide added utility and benefit to all holders. This can include new community games, exclusive content subscriptions or membership services, giveaways, or even some form of physical utility such as community-created merchandise. All of these utilities can be built by community members for community members in order to elevate the project, forming a true micro-economy around utility-driven NFT applications using NFGP.

In the same way that Uber and Airbnb turned every dormant car or house into a money-generating business, NFGP + The Portal allows every community member to turn their basic NFTs into a money-generating business inside their own community that can be accessed across all ecosystems, bringing more value to the project.

VoidCraft: Open-source library frontend where users can explore, buy, and build custom data-types. This includes requesting and auditing new data-types and SDK documentation.

VoidLink: The Void provides an API-based infrastructure package that allows businesses and creators to integrate The Void NFT services directly into their local website or platform.

VoidMarket: NFT marketplace that allows users to trade The Void's native NFTs. The Void functions first as a primary marketplace that allows sellers to open a custom NFT storefront that will provide sellers with an end-to-end business toolkit.

Enter The Void

The Web3 space is growing exponentially, and Enter The Void Inc is dedicated to becoming an essential infrastructure for the next generation of businesses and creators looking to enter Web3. We maintain a focus on providing user-friendly and scalable solutions for our customers that can be mass adopted in order to bridge the gap between Web2 and Web3. By bringing utility and purpose to the forefront of the NFT space, we strive to deliver on the promise of a more rewarding, frictionless, and equitable future with distributed ledger technology.

We wholeheartedly believe that community, collaboration, and transparency are the cornerstones of what makes the development of Web3 exciting. Together, we can create this world.

We are excited to have you embark on this journey with us and we look forward to seeing you in The Void.