BRC-20 WGPX

White Paper

REVOLUTIONIZING RACING GAMES:

Introducing

Web3 Grand Prix

[WGPX] on BRC-20

Abstract

Web3 GP is a ground breaking racing car competition that leverages the best open-source Sim Racing games merged with the world of blockchain and cryptocurrencies. This white paper introduces Web3 GP and its underlying token economy, discussing how players can be rewarded with tokens for their in-game achievements and contributions. The paper also explores the potential benefits of this innovative approach to gaming, including enhanced player and fan engagement, and new revenue streams for developers.

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01 Introduction

The gaming industry has witnessed continuous evolution over the years, with a growing demand for immersive gameplay and unique experiences to engage players. Racing games, in particular, have been a popular genre, offering players the thrill of speed and competition. In response to these evolving demands, Web3 GP emerges as a novel gaming experience that combines traditional racing games with blockchain technology and cryptocurrency rewards.

02 Sim Racing Market Analysis Highlights

The gaming industry has witnessed continuous evolution over the years, with a growing demand for immersive gameplay and unique experiences to engage players. Racing games, in particular, have been a popular genre, offering players the thrill of speed and competition. In response to these evolving demands, Web3 GP emerges as a novel gaming experience that combines traditional racing games with blockchain technology and cryptocurrency rewards.

03 3. Web3 GP: A New Era of Racing Games

3.1 Core Features

Web3 GP distinguishes itself from traditional racing games through the integration of blockchain technology and tokens. Here are some of the core features that set Web3 GP apart:

3.1.1 Blockchain-Powered Ownership

Web3 GP leverages blockchain technology to provide players with true ownership of in-game assets. Cars, skins, and accessories are represented as non-fungible tokens (NFTs) on the blockchain, ensuring transparency and authenticity.

3.1.2 Play-to-Earn:

Web3 GP rewards players with in-game tokens (WGPX) for their participation and achievements. This "race-to-earn" model allows players to earn real value while enjoying the game.

3.1.3 Racing Challenges:

The game offers a wide range of racing challenges, from solo races and time trials to multiplayer competitions. Completing challenges successfully results in WGPX rewards.

3.1.4 Marketplace:

A digital marketplace allows players to trade NFTs and other in-game assets, creating a player-driven economy within the Web3 GP ecosystem.

3.2 Web3 GP Token (WGPX)

The Web3 GP Token (WGPX) is an integral part of the game's ecosystem. WGPX is a BRC-20 compatible token built on Bitcoin. It serves as the in-game currency, enabling players to purchase NFTs, customize their cars, and participate in various activities. WGPX can also be exchanged for other cryptocurrencies on external exchanges.

04 Rewarding Players with WGPX

Web3 GP is designed to reward players in various ways:

4.1 Achievement-Based Rewards:

Players earn WGPX for completing in-game achievements, such as winning races, setting track records, or reaching specific milestones.

4.2 Staking and Competitions:

WGPX can be staked on in-game cars participating in competitions and races. Fans can earn alongside the winners while cheering them all the way. This adds an element of excitement and immersion for fans who choose to stake on their favoured car and driver.

4.3 User-Generated Content:

Web3 GP encourages players to create and share user-generated content, including custom car skins and tracks. Content creators receive a share of WGPX for each download or use of their creations.

4.4 Governance and Decision-Making:

WGPX holders have a say in the game's development and governance through decentralized decision-making mechanisms. This fosters a sense of community involvement and shared ownership.

05 Benefits of Web3 GP

5.1 Enhanced Player Engagement:

The play-to-earn model incentivizes players to immerse themselves in the game, striving for achievements and rewards.

5.2 True Ownership:

Players have full ownership of their in-game assets, and NFTs can be traded in the open marketplace, adding a layer of value and scarcity to virtual items.

5.3 Economic Opportunities:

Web3 GP introduces opportunities for players to earn income, whether through gameplay, content creation, or trading in the marketplace.

5.4 Decentralization:

The game's governance and token economy are decentralized, fostering a sense of community ownership and influence over its development.

06 WGPX token utilities:

The WGPX (Web3 Grand Prix Token) is the native cryptocurrency of the Web3 GP ecosystem. It plays a central role in the game's player-driven token economy, and it is used for various in-game purposes. Here's more information about WGPX tokens:

6.1 Utility within the Game:

In-Game Currency: WGPX serves as the primary in-game currency, allowing players to purchase items, upgrades, and customizations for their racing cars.

Participation Fees: Players can use WGPX to enter various in-game competitions, races, and challenges. These competitions often have entry fees, and prizes may be awarded in WGPX.

Staking and Earning: WGPX can be staked on in-game cars participating in competitions and races. Fans can earn alongside the winners while cheering them all the way. This adds an element of excitement and immersion for fans who choose to stake on their favoured car and driver.

Advertising Benefits: When using WGPX to purchase in-game track banners, on-car logo displays and other advertisements, the advertiser will benefit from a discounted advertising rate and extra visibility.

6.2 NFTs and Ownership:

Ownership of NFTs: Some in-game assets, such as racing cars, skins, and accessories, are represented as non-fungible tokens (NFTs) on the blockchain. WGPX is used to purchase and trade these NFTs, giving players true ownership of virtual assets.

Trading and Marketplace: The marketplace within Web3 GP allows players to buy, sell, and trade NFTs and other in-game assets using WGPX. This marketplace is driven by player demand and supply, creating a player-driven economy.

6.3 Earnings and Rewards:

Achievement-Based Rewards: Players can earn WGPX as rewards for completing in-game achievements, such as winning races, setting records, or reaching specific milestones.

Content Creation: Players who create and share user-generated content, including custom car skins and tracks, can earn WGPX based on the usage and popularity of their creations.

6.4 Governance:

Decision-Making: WGPX holders may have a say in the game's development and governance through decentralized decision-making mechanisms. This could involve voting on proposals for game updates or changes, adding a layer of community involvement and influence over the game's direction.

6.5 Interoperability:

WGPX may be exchangeable for other cryptocurrencies, including major ones like Bitcoin, Ethereum, BNB, etc., on external cryptocurrency exchanges. This provides players with flexibility and options for converting their in-game earnings into other digital assets.

6.6 Security and Trust:

WGPX transactions and ownership are secured by the underlying blockchain technology, providing transparency, immutability, and trust in the ownership of in-game assets.

It's important to note that the value and utility of WGPX tokens may fluctuate based on supply and demand within the Web3 GP ecosystem. As with any cryptocurrency, the value of WGPX can be influenced by factors such as market sentiment, adoption, and external market conditions. Players are encouraged to research and understand the mechanics and value of WGPX within the game before engaging with it.

07 About BRC-20 standard:

The BRC-20 Standard is a novel token standard built on the Bitcoin network using Ordinal Protocols to inscribe individual satoshis with data. Imagine you have an awesome video (or say a virtual car skin) you want to share with the world. You can inscribe it onto the Bitcoin blockchain using ordinal inscriptions. **This creates a unique digital artifact, like an NFT, but it's entirely built on the Bitcoin network without needing a separate token or sidechain.**

Once your digital content is inscribed onto the blockchain, it becomes a permanent record that can't be changed or deleted. This means you can trust that your content is genuine and original, as can anyone who wants to buy or sell it.

Based on ordinal theory, each sat has a specific order and value. This makes sending and receiving inscribed sats possible, but it also means that **transactions must be carefully constructed to follow the rules of ordinal theory.**

The inscribed content is stored entirely on the blockchain using "taproot script-path spend scripts". It doesn't sound effortless, but it's a way of storing your digital content efficiently and economically. It also means your content can be returned from a web server, like regular web pages, and remixed with other inscriptions to create a new artifact.

You must undergo a two-phase commit/reveal procedure to make an inscription. This means you first create a taproot output that commits to a script containing your inscription content, then spend that output to reveal the content on the blockchain. Next, the content is serialized using "envelopes", which are a way of wrapping up the content and metadata so that other users can easily read it. We'll provide the steps in the next section, if you're a programmer, but don't worry if you're not; we've got a solution for you.

08 How to create an ordinal inscription?

Beginner: If you're a no code/low code type of person, a good starting point would be OrdinalBots. This platform does all the programming for you; all you have to bring to the table is your creativity and imagination.

Intermediate: If you're comfortable with coding, explore Ordinals API on GitHub. Hiro creates developer-friendly APIs for Bitcoin, and they have a great dev community.

Advanced: If coding is a second language to you, and if you understand the rules of the ordinal theory, follow the steps below to immortalize your masterpiece on the Bitcoin blockchain.

- Choose the content you want to inscribe, such as a video, artwork, or text document.
- Use an editor or coding tool to create an "envelope" for your content, which wraps up the content and metadata.
- Create a taproot output using a Bitcoin wallet or software that supports the ordinal protocol.

- This output commits to the script containing your inscription content. Remember to construct the transaction following the rules of ordinal theory carefully.
- Broadcast the taproot output to the Bitcoin network, making your inscription "live" on the blockchain.
- Spend the taproot output to reveal the inscription content on-chain, making it visible to everyone. Again, ensure the transaction follows the rules of ordinal theory.
- Your inscription is now stored permanently on the blockchain using taproot script-path spend scripts, meaning it can't be altered or deleted.

09 What is ordinal theory?

Ordinal theory is a way of numbering and tracking individual satoshis (the smallest unit of Bitcoin) using a numbering system called ordinal numbers. These numbers are assigned based on the order in which the satoshis are mined and transferred in transactions. Ordinal numbers, such as integer, decimal, degree, and percentile notations, can be represented differently.

One key aspect of ordinal theory is its potential for creating rarity levels for satoshis based on the timing of certain events in the Bitcoin network, such as block mining, difficulty adjustments, and halvings.

These rarity levels are defined as...

Common: This applies to any satoshi, not the first sat of its block. These are the most common sats in Bitcoin and can be found in almost every transaction.

Uncommon: The first satoshi of each block. These sats are relatively rare since only about 144 new blocks are added to the Bitcoin blockchain daily.

Rare: This is the first satoshi of Bitcoin's difficulty adjustment period. It occurs every 2016 blocks, or every two weeks.

Epic: The first satoshi of each halving epoch. A halving epoch occurs every 210,000 blocks, or approximately every four years.

Legendary: The first satoshi of each cycle. A cycle is a longer term Bitcoin market cycle that spans from one halving to the next.

Mythic: The first satoshi of the Genesis block. This is the first ever Bitcoin transaction, which was included in the very first block of the Bitcoin blockchain. Mythic sats are the rarest of all, occurring only once in the entire history of Bitcoin. On December 14th, 2022, artist and programmer Casey Rodarmor, who launched the Bitcoin ordinals protocol, inscribed pixel art of a skull as the genesis ordinal.

One phrase you may read a lot is 'degree notation'. This refers to a way of representing an ordinal number that makes it easy to see the rarity of a satoshi at a glance. The notation includes block height, difficulty adjustment period, halving epoch, and cycle information.

10 The launch of recursive inscriptions

June 2023 saw new ground-breaking advancements in the field of inscriptions that have generated a great deal of excitement. One particular innovation that captured widespread attention is the concept of recursive inscriptions. But what exactly are recursive inscriptions?

Recursive inscriptions were launched to address ongoing challenges related to transaction fees and block space limitations. These inscriptions empower on-chain software on the Bitcoin blockchain, enabling developers to create sophisticated applications that can operate entirely within the Bitcoin ecosystem. This is made possible through a technique known as daisy-chaining, where data is interconnected through a series of calls.

Before the introduction of recursive inscriptions, inscriptions in general, could store up to 4MB of data. However, recursive inscriptions go beyond this limitation by allowing developers to establish a network of interconnected data sources.

By extracting and integrating data from existing inscriptions into new ones, recursive inscriptions break free from the rigid 4MB constraint. This breakthrough empowers developers to execute software fully on-chain by linking data through a sequence of calls.

The advent of recursive inscriptions holds immense potential for enhancing interoperability within the Bitcoin network. As this technology is still relatively new, acquiring a comprehensive understanding of recursive inscriptions is crucial before engaging with them.

11 Popular online sim racing games:

The popularity of racing games can vary by platform, style, and player preferences. Here are some of the top racing games across various platforms:

Forza Horizon 4: Forza Horizon 4 is an open-world racing game known for its stunning graphics, vast car selection, and dynamic seasons that affect gameplay. It's part of the Forza series, which is highly regarded in the racing game community.

Assetto Corsa: Assetto Corsa is a popular racing simulator that's highly regarded for its realism, physics, and modding community.

Need for Speed: Heat: Need for Speed is a long-running series known for its street racing and police chases. Need for Speed: Heat offers an open-world experience with a day-night cycle.

Dirt Rally 2.0: For fans of rally racing, Dirt Rally 2.0 is a highly realistic and challenging game that offers a wide range of rally cars and tracks.

F1 2021: If you're a Formula 1 fan, the F1 game series, such as F1 2021, is a great choice. It provides an authentic F1 racing experience with real teams and drivers.

WRC 10: WRC 10 is the official game of the FIA World Rally Championship and offers an immersive rally experience with all the official teams, cars, and rallies.

Project CARS 3: Project CARS 3 focuses on accessibility and fun while still offering a high level of realism. It's known for its customizable career mode and diverse car selection.

iRacing: iRacing is a subscription-based online racing simulator that's popular among serious racing enthusiasts. It offers highly realistic physics, competitive multiplayer, and a variety of cars and tracks.

Web3 GP represents a paradigm shift in the world of racing games, offering players a unique and rewarding gaming experience through blockchain technology and cryptocurrency incentives. The play-to-earn model, true ownership of in-game assets, and decentralized governance contribute to an engaging and vibrant community-driven ecosystem.

Web3 GP aims to transform the gaming industry by unlocking new revenue streams, empowering players, and redefining the relationship between gamers and game developers.

As Web3 GP continues to develop and mature, it is poised to become a flagship example of how blockchain technology and cryptocurrencies can reshape the gaming landscape.

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