

# Sagittarius Ecological White Paper

Financial Flow Integration Solution Based on Block  
Chain



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## Summary

Since mainstream economies have actively promoted official digital money, more and more financial institutions have begun to pay attention to the innovative technology behind digital money "block chain (blockchain)". However, most bank executives and practitioners still have questions about what a "block chain" is and what impact it will have on the banking industry.

Block chain technology is the core technology that has the most potential to trigger the fifth wave of subversive revolution after steam engine, electricity, information and Internet technology. The application of the technology in the financial field will completely change the transaction process and record keeping, thus greatly reducing transaction costs and significantly improving efficiency. In the past few years, blockchain technology has become the most concerned topic in the field of global innovation, which has been enthusiastically sought after by venture capital funds. Leading international financial institutions have also moved to form a blockchain technology application alliance such as R3CEV and Hyperledger. A wave of competition and subversive innovation in technical standards is quietly coming.

The character of the blockchain will change the core norms between financial systems; because of its security, transparency and non-usurpability

The trust model between the financial system is no longer dependent on intermediaries, and many banking businesses will be "decentralized" to achieve real-time digital transactions. The

application of block chain in five financial scenarios, such as virtual currency, cross-border payment and settlement, bill and supply chain finance, securities issuance and trading, and customer credit and anti-fraud, will produce the most direct and effective applications. For cross-border payment settlement, block chains will abandon the role of transit banks and achieve point-to-point fast and low-cost cross-border payments; according to McKinsey, globally, The application of block chain technology in B2B cross-border payment and settlement will reduce the cost of each transaction by about 40.

In the face of the opportunities and challenges of block chain technology, the world's leading banks have begun to actively layout to seize the first advantage. The current strategies adopted by the major banks are diverse and can be broadly divided into three categories:

- 1) Establish block chain alliance and set industry standards; for example,

R3CEV build up more than 40 international leading banks to establish industry supervision and corresponding technical standards.

- 2) Work with financial technology companies to develop core business block chain applications, such as Capital One and Visa through strategic investment in financial technology companies,

Grasp the breakthrough of block chain technology.

- 3) Banks promote local applications and quickly pilot them; for example UBS 、 Citi, Germany and Barclays have set up block chain laboratories to develop their own projects or test different application scenarios through cooperation with financial technology companies.

Based on the analysis of Sagittarius blockchain technology to create a basic public chain applicable to the banking system, and to form a systematic ecology, this white paper can serve as an opportunity for third-party institutions to make great progress in the fields of digital money reform, cross-border payment and settlement, supply chain finance, and securities issuance and trading.

At the same time, the Sagittarius believes that there are three proposals for action on how financial institutions should seize opportunities and seize strategic opportunities:

- 1) Domestic banks should make clear the strategy of participating in the application of blockchain technology as soon as possible;
- 2) Rapidly advancing the pilot implementation of business application scenarios;
- 3) Active investment layout, small investment, wide net, reasonable layout.

The application of blockchain technology will open up many exciting possibilities, subvert the rules of the banking industry and potentially reshape the entire industry. We will see who will be the ultimate winner of this subversive technological revolution. Block chain, which is the core technology that has the most potential to trigger the fifth wave of subversive revolution after steam engine, electricity, information and Internet technology. Just as steam engines unleash people's productivity, electricity solves people's most basic needs, information technology and the Internet revolutionize traditional industries such as music and production

Like the business model, block chain technology will have the possibility of decentralized digital asset security transfer.

The blockchain sounds futuristic and technical, but it is essentially a decentralized distributed ledger. Decentralization, that is, all transactions occur point- to-point, without any credit intermediary or centralized clearing agency; distributed books, meaning that when transactions occur, All participants in the chain receive information about transactions on their own books, which are fully public and encrypted and not tampered with. It is based on the characteristics of block chain technology that when applied to different scenarios, it will bring the following four main meanings to the transaction participants:

① eliminate the need for intermediary transactions, thereby reducing transaction costs: because point-to-point delivery is achieved

Easy, the central processing or clearing organization becomes redundant; because the authenticity of the transaction is verified and maintained by all participants in the block chain, the credit intermediary as a third party also loses its value.

② transaction settlement is almost real-time, thus improving transaction efficiency and greatly improving asset utilization.

③ the non-tampering and decentralized data storage of information on block chain, it becomes the best carrier of data and information record

④ the programmable block chain, the transaction process is fully automated: by embedding the preset transaction rules in the block chain, the predetermined conditions are automatically completed. The subversion of block chain technology, which can enhance the automation of transactions, is mainly reflected in the following two aspects:

Subvert to the bottom technologies

If we break down bank business models, different new technologies have been driving progress at all levels (see above). Taking the information age as an example, the Internet has driven countless innovative applications at the application level — P2P lending, online finance, crowdfunding; cloud platform has changed the mode of business processing and infrastructure deployment, greatly reducing the operating costs and IT investment of banks; big data analysis technology has brought risk control from empirical judgment to the era of machine learning and data as the basis for decision-making, making automatic fast credit model possible. Despite the upsurge of financial application and business process innovation, the basic requirements of credit intermediary make banks not revolutionary in the underlying logic and related technologies of business model, such as information interaction between systems and the infrastructure of transaction liquidation. The emergence of block chain technology is precisely to subvert the underlying technical basis of bank business model. First, the concept of "liquidation" will no longer exist in the block chain network, all transactions are "happen or liquidate ", and all account information is updated synchronously at the moment the transaction is completed. Second, information interaction between systems no longer leads to high deployment costs and connectivity difficulties because of compatibility and mutual exclusion, because all systems use the same technical protocol.

### Promoters of business system innovation

The emergence of blockchain technology is a major challenge to the institutional basis of existing business models and the relationship between participants. The existing financial system is based on three basic institutional frameworks: commercial trust exists on the basis of legal provisions; asset transfer transactions are guaranteed by independent third parties as credit intermediaries; Transaction settlement and liquidation are handled centrally by centralized clearing agencies, but the institutional basis and business processes are likely to be subverted with the wide application of block chain technology. How to adjust the role of financial intermediaries under the existing institutional framework will determine their future destiny.

From the bank's point of view, whether to become a beneficiary of technology or to be subverted in this new wave of technological innovation depends entirely on how banks judge the situation and actively adjust their role in the future business pattern and logic. No longer only as a credit intermediary, passive dependence on monopoly position to collect interest margins and transaction costs, and

We should actively be pioneers in technology application, constantly improve the ability and content of high value financial services, and lead and participate in the formation of new business patterns.

Its "systematicness" is mainly embodied in three aspects:

® block chain technology can be applied to different banking areas, from payment and settlement, to bill flow and supply chain finance, to more complex securities issuance and trading, etc. Financial institutions and technology companies are actively exploring and trying.

® benefits from blockchain technology will benefit all transaction participants, including banks, bank customers, bank partners (such as platform enterprises).

® the current pain points such as efficiency bottlenecks, transaction delays, fraud and operational risks in various process links of financial services, most of them are expected to be solved after the application of blockchain technology (as shown below). For example, a large number of manual operations, manual verification and approval work in the existing process will be automated, paper contracts will be replaced by intelligent contracts, and losses will no longer occur due to system errors in the transaction processing link. For example, the application of block chain technology can help cross-border payment and settlement business transaction participants save about 40% of the transaction costs.

Sagittarius CLUB (Sagittarius Ecology) is an internationally renowned blockchain technology service provider with rich experience in global blockchain development, asset management, strategic planning and ecological application integration. Sagittarius CLUB represents not only a technological innovation, but also a technological driving force for top business models to work together to achieve their own and industry transformation. Sagittarius CLUB based on the advantages from the Sagittarius public chain,

have launched hundreds of projects and dozens of active networks in global finance that create value in the banking and financial systems all the time.

Professional team with years of industry experience, ABC TEAM started blockchain business development in 2016, ICO and block chain consulting began in 2017, And became ABC co-chair in 2018, Giving full play to professional experience and knowledge, Provide high quality service to the world. ABC TEAM have been invited to participate in international trade competitions sponsored by BCEX exchanges and Trichanin Capital.

The future, Sagittarius CLUB will take the Sagittarius public chain as the core, provides the high quality service to the global financial institution, unceasingly drives the industry to the more perfect value Internet transformation.

Sagittarius aiming at the pain point in the financial ecology, including the bank, creating the basic public chain with the block chain technology as the application mode, it will provide the innovative solution and provide the professional platform service for the management of all the financial commodity accounts. Sagittarius make use of the safe and decentralized block chain technology to create digital money for the ecosystem SGR, promote the use frequency of the users of the own ecology and the third party banking institutions, and realize the virtuous circle of the value under the whole ecology on the basis of the circulation value. At the same time, build DAPP application process

Order, for global users to provide a fast, safe, trusted financial infrastructure.

Sagittarius the operation of the public chain in the banking system will bring the following changes to the industry:

**Form a new mixed digital monetary system.** Sagittarius public chain verifies the feasibility of cross-border application of digital currency on the basis of facts, and also proves that block chain technology can realize information sharing and transparency. Issued by influential banks, regardless of the size of their issuance and exchange rate are controlled by the state, thus forming a diversified monetary



system based on French currency and supplemented by digital currency. The process of trading rules of virtual finance has been spawned, which plays a great role in promoting the prosperity of the real economy. Creditworthy banks, of course, launch digital currencies based on Sagittarius public chains and create virtual trading scenarios that allow consumers to experience better innovative services.

**Form a new credit formation mechanism**. Credit system has always been the core of bank development. Under the traditional mode, the bank maintains the credit and manages the credit control through the related management organization, the credit rating technology carries on the classification according to the user different nature, such as the small credit loan credit technology and so on. When the customer applies for a loan, the bank needs to inquire about all kinds of credit information related to the customer. In the verification link, the information collection chain link is more, the scope involved is relatively wide, but still exists the information incomplete, the data is not prepared and so on defect, also causes the cost to be too high, the decision procedure is lengthy and so on, this has the great influence to the bank to complete the business operation efficiently.

In the era of big data, enterprises often take a multi-dimensional perspective to mine and analyze customer behavior characteristics, and analyze customer credit rating. Although big data can make batch credit for consumption, small loans and so on, it can improve the working efficiency to a certain extent, and make the data information have certain reliability and high timeliness, but it only realizes the electronization of traditional finance. There is no fundamental change in the way credit is created.

Based on the characteristics of block chain and unique innovation of ecology, Sagittarius public chain will realize five scenarios in financial systems such as banks and drive the transformation and development of traditional financial institutions. Sagittarius the essence of "decentralization" of the public chain can make some key problems faced by financial exchanges subversive, and the best scenario for its application will be payment and trading banks, capital markets and investment banking.

Sagittarius public chain will improve the convenience of currency issuance and use!

The rise of Bitcoin subverts the concept of money. The emergence and expansion of Bitcoin and its digital currency are changing the way humans use money. From the past human use of physical transactions to the development of physical money and later credit money, with the continuous evolution of human business behavior and social development. With the rise of e-finance and e-commerce, the uniqueness of digital money security, convenience and low transaction cost is more suitable for network-based business behavior, which may replace the circulation of physical money in the future.

Digital currency, represented by bitcoin, has been accepted to a considerable extent in Europe and the United States. It can not only pay goods with bitcoin in merchants, but also derive bitcoin debit cards and ATM machines and other applications. Exchange platforms between digital and legal currencies have also emerged, such as the largest Bitcoin trading platform in the United States Coinbase which currently supports the exchange of dollars, euros, pounds and Canadian and Bitcoin; the huge volume and liquidity between Bitcoin and legal tender is enough to be regarded as an international currency. It is the rise of bitcoin network that makes all walks of life pay attention to the distributed account block chain technology behind it, and gradually obtain the development and application in many scenarios

outside the digital currency.

The state will issue digital money as a trend. Ecuador pioneered the national version of the digital currency in 2015,

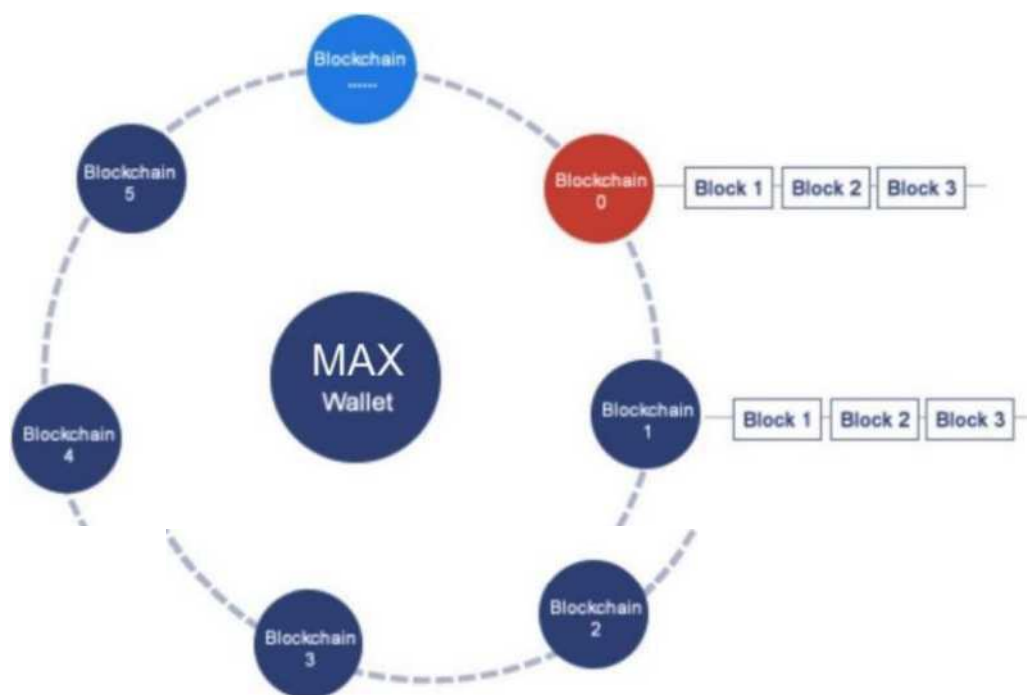
At the same time, many other countries are also exploring the feasibility of issuing digital currencies. Plans to develop digital currencies are under discussion, including Sweden, Australia and Russia. Bank of England is commissioning University College London to design a set of digital currency RSCoin to test, through the central bank issued digital currency to improve the overall financial system security and efficiency. Digital money built by Sagittarius public chain can replace real cash, reduce the cost of issuing and circulating traditional paper money, improve the convenience of payment and settlement, increase the transparency of economic transactions, reduce money laundering and tax evasion, and enhance the central bank's control over money supply and currency circulation.

The current cross-border payment and settlement time is long, the cost is high, and must pass through multiple intermediate links. Having a trusted intermediary role is very important in today's cross-border transactions. When the way of cross-border remittance and settlement is becoming more and more complex, the third-party intermediary role between payee is even more important. The intermediate link required for each remittance is not only time-consuming, but also requires a large fee, and its cost and efficiency become the bottleneck of cross-border remittances. Depending on the liquidation process in each country, it may take two to three days for a remittance to arrive, which is extremely inefficient and represents a significant amount of funds in transit.

Sagittarius public chain will be able to abandon the role of transit banks and achieve point-to-point fast and low-cost cross-border payments. Through the platform of block chain, it can not only bypass the transit bank and reduce the transfer cost, but also improve the security of cross-border remittance because of the characteristics of block chain security, transparency and low risk, and speed up the settlement and liquidation speed, and greatly improve the utilization rate of funds. In the future, banks and banks can no longer through third parties, but through block chain technology to create point-to-point payment. Without the intermediate link of the third party financial institution, it can not only pay all the time, arrive the account in real time, withdraw the cash easily and have no hidden cost, but also help to reduce the risk of cross-border e-commerce funds and meet the timeliness and convenience demand of cross-border e-commerce for payment and settlement service.

SHA (Secure Hash Algorithm) is a series of cryptographic hash functions designed by the National Security Agency (NSA) and released by the National Institute of Standards and Technology (NIST) of the United States. Through the customization of SHA512 encryption technology, the SHA512 encryption technology used by Sagittarius is developed to ensure the data security of Sagittarius public chain network.

Sagittarius Ring Topology Hub technology connects multiple chains to a Hub, allowing digital asset terminals to easily achieve one-click cross-chain and conversion. The advantage of the ring is that the topology consumes much less resources than the star and tree. The advantages of the ring network are obvious because of the few nodes and the near distance, but the distance and the many nodes. The general design structure is shown in the figure:



SGR is the only value circulation certificate of Sagittarius ecosystem. The circulation payment, handling fee and user incentive of all ecological scenarios have been SGR as intermediaries in the Sagittarius ecosystem.

The name of the token issued by the Sagittarius is 1 billion pieces of SGR, issued, under the specific distribution scheme:

Distribution	Percentage share	Note
Airdrops	1%	Unscheduled airdrops according to project schedule
Liquid mining incentives	73%	85% Mining Award/15% Sharing Award
Liquidity	2%	All for initial liquidity addition
Founding Team	10%	After 6 months, linear release in 10 months
Foundation	9%	Market Value Management Team
Private equity	5%	Private placement in 5 phases

## SGR incentives:

- 1) Wallet holding SGR is regarded as a valid account to obtain a sharing link.
- 2) Each transaction is deducted by 11.
- 3) 7% Automatically adds liquidity.
- 4) Transfer and destroy 1%(50% of destruction is no longer destroyed).
- 5) Referrals are recommended, a generation of referrals can receive 2% trading awards, and a second generation of referrals receive 1% trading awards.
- 6) Recommended liquidity mining / pledge mining reward: first generation 10% second generation 5.
- 7) Transaction fees will be adjusted according to market conditions until the final line of mainstream exchanges.(Final contract closed automatically)

## SGRSwap Decentralized Swap Agreement

This project realizes a Layer-2AMM decentralization transaction protocol based on SGR-Rollup technology SGRSwap, realizes all the functions of the uniswap on the Layer-2, and realizes real-time transaction while ensuring the core value of the decentralized transaction. Increase the number of Uniswap transactions per second) by multiple orders of magnitude, while the transaction process consumes almost no Gas costs.

### SGRSwap System Framework

SGRSwap system consists of chain intelligent contract, chain SGRSwap Server, zero knowledge proof system and front-end user interface.

### Fig.1. System Architecture

SGRSwap intelligent contract SGRSwap will deploy a series of intelligent contracts on the Ethernet block chain to store the tokens stored by the user.

At the same time, it needs to record and verify the status updates and related certificates of the Layer-2, which is the key hub on and under the connection chain.

SGRSwap Layer-2 server SGRSwap server are modules that actually handle all transactions under the chain. SGRSwap server can interact with users through WebSocket interfaces and listen to transactions on the Ethernet block chain. All legitimate transaction requests will be placed in the SGRSwap memory pool,

Finally, the Swap Engine is responsible for handling. Transaction types in the memory pool are consistent with all operation types Uniswap the previous section. Block proposer Rollup, the transaction to generate new blocks and update the status of all tokens in the Layer-2 by the State Keeper. State Keeper will send the status

The Committer, is responsible for communicating with the Prove server, obtaining the proof of the corresponding transaction, and finally sending the state and the corresponding SNARK proof to the SGRSwap intelligent contract on the chain through the Ethererum sender.

Plonk zero-knowledge proof system SGRSwap a distributed architecture, And using the latest zero knowledge proof algorithm PLONK[6] generate proof. Prove server support multiple Prover. Multiple Prover active query Prove server, Generate Prove server, after proof PLONK global trust setup only needs to be generated once, The application of circuit scale in a certain range

Reusable greatly reduces the threshold of zero knowledge proof.

#### SGRSwap State Tree

SGRSwap state tree of the system records the balance status of all accounts in the current system.

SGRSwap state tree is a 34-height Merkel tree. A child node Root the root node is all account nodes in

the system (layer 24). Account nodes are divided into two types:

General account node, used to record the status of all Token in the account. Ordinary account nodes can have any number of leaf nodes (10 layers), each leaf node represents a type of Token and its number; the Token type under the same account is not repeatable;

Pair account node is used to record the status of a transaction in the SGRSwap to the fund pool. Pair account node contains only two leaf nodes, each representing a Token balance and type in the fund pool.

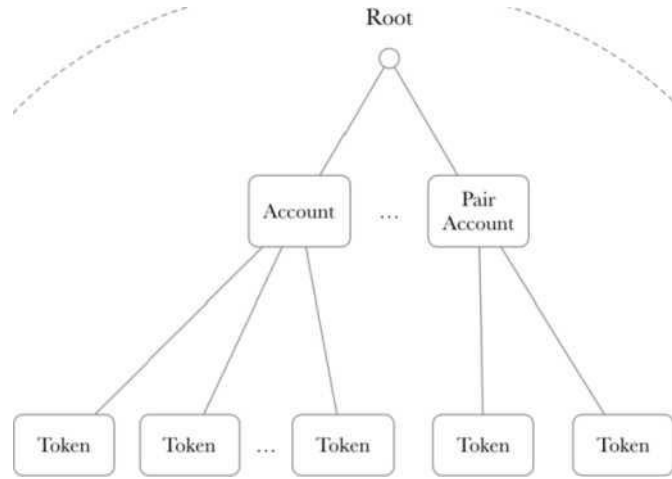
SGRSwap transaction process is actually the process of state tree update. All transaction types and corresponding state changes in the SGRSwap are described below.

#### Deposit (Deposit)

Deposit refers to the process in which users deposit tokens in the Ethernet chain into SGRSwap contracts so that they can be used in Layer-2. Deposit operation is initiated by the user from the chain. When SGRSwap Server monitor hears that the user transfers the Token to the SGRSwap smart contract on the chain, the status tree is updated according to the transaction details. First, find the corresponding Account, according to the account of the exchange and update Account status of the corresponding Token according to the amount of money. If there is no leaf node corresponding to the Token under the Account, it is necessary to create the corresponding leaf node of the Token and then update the status. When the status update of the leaf node is completed, the hash of the root node is updated.

The updated status tree root node hash is sent to the SGRSwap contract on the chain together with the SNARK proof of the Deposit transaction.





-State

### (Withdraw)

Withdraw refers to the process that the user puts forward the Token from the Layer-2 and unlocks it from the SGRSwap contract and sends it to the corresponding Layer-1 account. Withdraw operation is initiated by the user from the Layer-2, SGRSwap server after receiving the user's request for a Token, the status of the corresponding Token under the corresponding account is updated. The updated state tree root node hash and proof of Withdraw operation application are sent to the contract on the chain. After the contract verification is passed, the corresponding Token locked in the contract will be sent to the corresponding chain account.

### Transfers (Transfer)

Transfer refers to the process in which a user sends a Token to another user in SGRSwap Layer-2. Transfer initiated by the user in Layer-2. When the SGRSwap Server receives the Transfer request, it will find the corresponding receiving and sending account according to the details of the request, and update the status of the Token under the account of both parties according to the amount sent. The state tree root node hash is also updated and sent to the SGRSwap chain contract with the SNARK proof corresponding to the

Transfer operation. Transfer does not change the state of the corresponding Token on the chain, as the Token is still locked in the SGRSwap contract and no transfer occurs on the chain.

#### Enhanced liquidity (Create Liquidity)

Create liquidity means that the user creates or increases liquidity in Layer-2, Its definition and uniswap are consistent. Create liquidity initiated by the user in Layer-2, When SGRSwap server receive a request from the user to create a pair of Token liquidity, You first need to find the corresponding initiator Account and the Pair Account (if Pair Account does not exist) of the pair, (b) Need to create a pool of Pair funds first); Then the Account of the next two Token according to the AMM algorithm according to the proportion of requirements to the Pair Account; At the same time, the system calculates the amount of LP Token available to users, The corresponding LP Token status under the liquidity provider Account is updated. When all status updates are complete, The root node hash of the state tree will be sent to the SGRSwap contract on the chain together with the Create Liquidity corresponding proof. The first created LP token requires the SGRSwap contract to deploy the corresponding LP Token contract on the chain.

#### Decrease in liquidity (Remove Liquidity)

Remove Liquidity refers to the destruction of LP Token, by users from a Pair pool of funds The process of retrieving the corresponding proportion of two Token in the Layer-2. Remove Liquidity initiated by the user in Layer-2, When SGRSwap Server receive Remove Liquidity user request, First you find Account, match Liquidity Token; of corresponding quantities under destruction Account The two Token under the corresponding Pair Account of the Liquidity Token are then Transfer proportionally to the destruction The status tree is updated when the operation is complete, root node hash and corresponding Remove Liqu

#### Swap transactions

Swap refers to the process in which users complete transactions in Layer- 2 pools of funds. Suppose the user needs to conduct Swap transactions in a pool of funds containing TokenA -TokenB Pair Token. The user first sends the TokenA under his Account from the Layer-2 to the corresponding Pair Account, SGRSwap calculate the number of TokenB available to the user according to the AMM algorithm and send

it to the user. The status tree is updated, SGRSwap Server will send the updated state tree root node hash and the corresponding proof of Swap operation to the SGRSwap contract on the chain. Swap transactions don't change the status of Token on the chain, since the Token itself is still locked in the SGRSwap contract.

#### Extraction of liquidity (Withdraw Liquidity)

Withdraw Liquidity refers to the process by which the user extracts from the Liquidity Token in the Layer-2 account to the Layer-1. Withdraw Liquidity the initiation process and status update in the Layer-2 are fully consistent with the common Withdraw mentioned above, But the results in the Layer-1 are different. SGRSwap the contract receives Withdraw Liquidity request, Will automatically trigger Liquidity Token mint operations, To create extra Liquidity Token, in the Layer-1 And send it to the designated account. Summary and Outlook

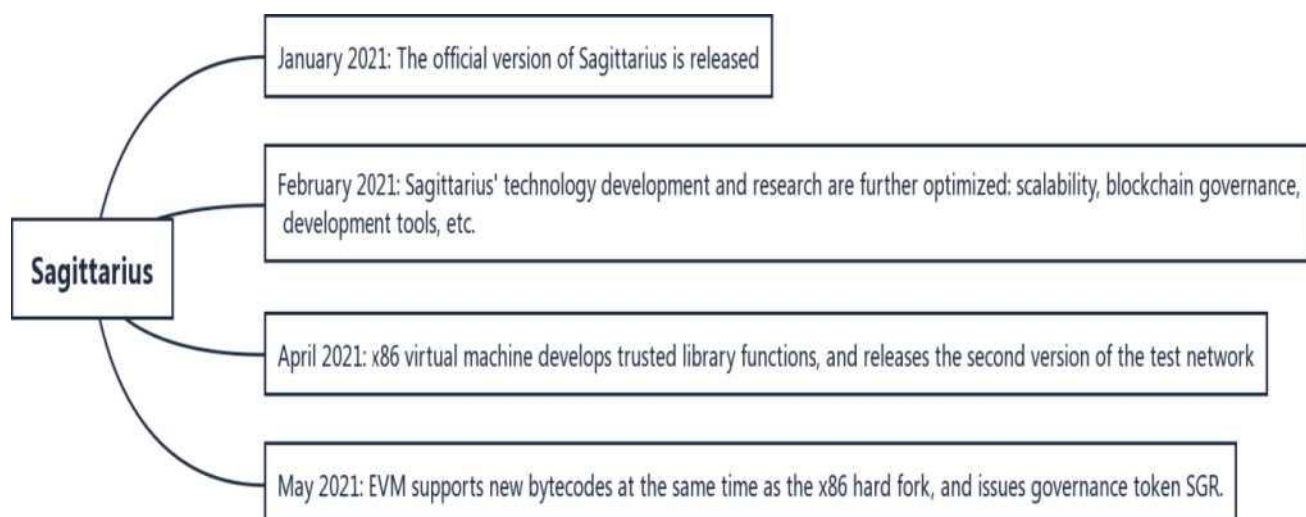
SGRSwap use SGR-Rollup technology, Uniswap complete functionality in Layer-2, Is a set of decentralized Layer-2 token AMM automatic market maker Swap agreement. SGRSwap protocol can be extended indefinitely, Support for ultra-high TPS, And liquidity providers and users do not have to pay high gas costs, And real-time trading, Users no longer need to wait for block confirmation, And you'll be able to complete the extreme trading on the Layer2, Greatly reduces the DEX use threshold, To all the DEX and CEX now have brought great changes.

SGRSwap is developed by L2Lab support. In the future, L2Lab will continue to promote the development of Layer-2 protocol layer, combined with a series of Layer-2 basic agreements such as SGRSwap、 Layer-2 privacy stability currency, to create a complete Layer-2DeFi ecology.

By creating a Layer-2 protocol standard with excellent user experience, L2Lab committed to promoting a paradigm shift in the blockchain industry, And let Layer-1 be the foundation of settlement, Layer-2 become a bridge and entrance connecting block chain applications and Layer-3. We will work to push all blockchain applications to run in a world without any restrictions on Layer-3. We are committed to making SGRSwap the best product in the DEX, When the time is right, And liquid mining and DAO, Contribute to the rise of distributed financial DeFi, Lead the paradigm change of block chain application together.

Relying on the SGR digital currency issued by the Sagittarius public chain, it is oriented to global users and will realize payment circulation in tourism, beauty, games, shopping and so on.

- 8) SGR the application of public chain ecology in tourism scene, we can realize the functions of ticket purchase, hotel reservation, cross-border tourism payment, and at the same time, we can also realize the investment of tourism home purchase and tourism health industry;
- 9) For example, in the beauty scene, taking Korea as an example, beauty institutions and plastic surgery hospitals have begun to accept digital currency payments. Users can use SGR to achieve beauty consumption, plastic surgery hospitals and institutions of medical and American expenses payment, to solve the advanced payment and traditional payment to account and exchange rate problems.



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