Plutum Quick Glance
As prepared by Cameron Fink
Accurate as of 13 May 2021

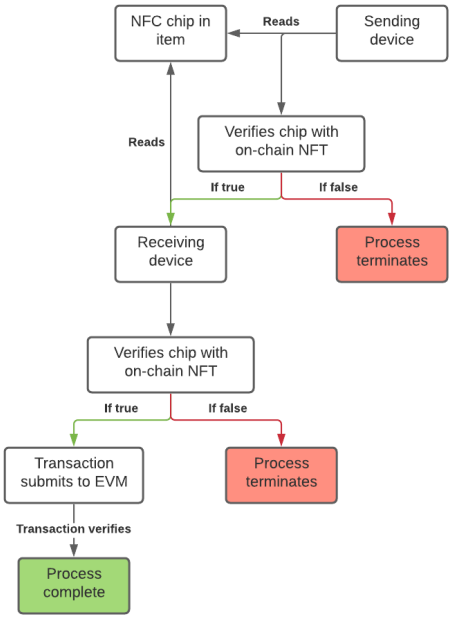
Note Information here is subject to change and may be altered at any time.

What is Plutum?

At the simplest level, Plutum is a protocol that uses NFC chips storing unique, encrypted identifiers in conjunction with Bluetooth information sharing between devices to enable blockchain interaction within the tangible world.

How does Plutum work?

See the diagram below for more information regarding how Plutum works:



Please note the diagram only goes up to the chain, after which standard smart contract interactions would take place. In addition, this diagram is only applicable for the Ethereum blockchain.

What is PLTM, and how is it different from Plutum?

PLTM is an ERC-20 governance token that uses liquid democracy to allow token holders to vote on decisions that will determine the future of Plutum. Plutum itself is a protocol, whereas PLTM is the governance token that governs Plutum Protocol.

Who can use Plutum?

Anyone will be able to use Plutum with our open-source wallet. We will offer two wallets we will develop, each with different use cases - Plutum Aurum and Plutum Osiris. In addition, we will provide developers who wish to develop on Plutum with the tools necessary to develop a wallet

independently, allowing anyone to develop their own wallet without having to pay for licensing/other fees.

What are some use cases for Plutum?
Plutum has a use case in every transaction that occurs with a value greater than the NFC chip itself. See some examples:

Sneakers	**Groceries**	**Contracts**
Sneakers can be uniquely identified to trace buyers and sellers in the past, and tagged by authenticators, enabling the buyer to guarantee authenticity.	Farms and producers can tag groceries so that consumers can independently verify where their groceries came from, making smarter, more informed purchases.	Plutum enables a single copy of a contract to be stored on blockchain, verifying that copy and preventing theft and forgery of signatures so that all parties are guaranteed honesty.

Where is Plutum going?
In the future, we have some key goals we wish to achieve, and a timeline that can be viewed on our GitHub and our website. To summarise, some of the most important goals are listed below:

- PLTM token launch with full liquid democracy functionality
- Mainnet launch of Plutum services
- Launch of Plutum Osiris and Plutum Aurum
- Development of a native Plutum chain or L2 solution for another blockchain (likely Ethereum), in addition to a multi-chain bridge allowing for PNFTs to be transacted between various chains

The next updates in the Plutum timeline goes as follows:

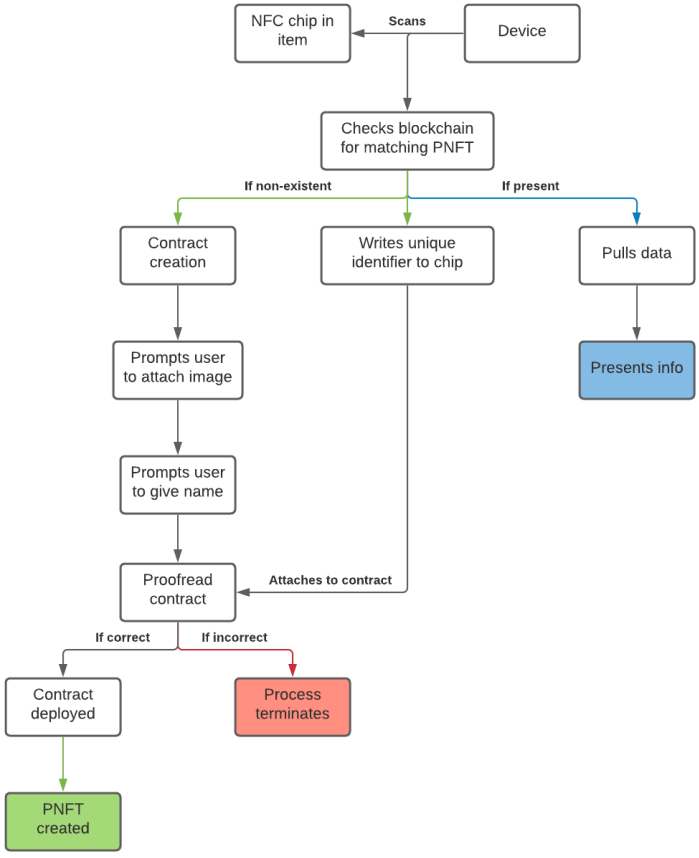
1. *Nairobi Upgrades (Currently underway, with Part 1 shipped as of 28 April)*
    a. *Launch of the website*
    b. *Updated decimalisation*
2. Istanbul Upgrades (Currently scheduled for May 15, as late as May 25)
    a. Testnet launch
3. Sydney Upgrades (Currently scheduled for May 2021)
    a. PLTM governance token
    b. Aurum wallet

For more information, refer to the Plutum-Developments Github.

What are the Plutum applications?
Plutum will develop four core applications that are at the heart of the system, with more to come over time. All four are listed below, with their purpose:

- Plutum Aurum will be a lightweight desktop wallet that offers full PLTM functionality and the transaction of PNFTs through use of an external device to modify NFC chips
    - Aurum will also offer an institutional option down the line for companies to take advantage of PNFT technology through distributed systems in which one central address holds PNFTs, with access distributed to others
    - Plutum Asterion will be a fork of Aurum optimised for businesses and institutions
- Plutum Osiris will be a full-fledged mobile wallet that offers full PLTM functionality and the transaction of PNFTs through native NFC solutions
    - Osiris will not be open to devices without native NFC readers
    - Osiris could have the option to be modified for a mobile port to a distributed system
- Plutum Orchid will be the name of the node hosting software available with a front-end consumer facing design to anyone
    - Orchid will offer both a mobile and desktop application

How will the NFTs be made and attached to the chip?
See the diagram below that walks through the PNFT creation process:



What are the benefits of blockchain?
Blockchain has many benefits, each of which Plutum helps bring to physical transactions. The list below includes some, not all of the benefits:

- Security
- Transparency
- Immutability
- Permanence
- Decentralisation
- Verifiability

Each of these can help improve the way we transact everyday, from helping develop more secure transactions, to ensuring transactions without having to use a mutually trusted third party.