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**Raiden Reaserch**

# 

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# Introduction

* Getting started with raiden extremely hard
* Syncing with ropsten test net faucet
* Always on pc really required. Can always copy chain data off of it.

# Goals

* See how to write ERC20 tokens and register them with raiden
* Write a small application using and transferring ERC20 tokens between two raiden machines
* Also check how to route payments through a third machine i.e. node discovery, routing etc functions need to be checked
* Write wrapper contract to treat ETH like an ERC20 token so it can be used in raiden
* Also provide prepackaged function calls for creating ERC20 tokens in ur IoT interface
* Search telehash and MQTT

# Things to do tomorrow

* Read the following
  + <https://www.youtube.com/watch?v=1wAbCnD-M_I>
  + <https://raiden.network/faq.html>
  + <https://raiden.network/101.html>
  + <https://github.com/raiden-network/raiden/wiki/Raiden-PoC%E2%80%900>

# Micro Raiden & Raidos

“**What is μRaiden?**

μRaiden (Micro Raiden) shares some properties with the Raiden Network. It can provide trustless, instant and free transfers between two parties. It is intended for many-to-one payment setups, like users interacting with a Dapp. However, it is not suitable for many-to-many payment setups as it requires users to lock up tokens upfront for every potential payee. This limitation comes with reduced technological complexity, allowing µRaiden to be used on the mainnet today.”

* Check out if microraiden can be used in our IoT interface or if we need normal raiden.

**What is Raidos?**

“Raidos (or Raiden 2.0, “dos” is spanish for "two") is a proposed sidechain technology to generalize state channels. While the Raiden Network is limited to ERC20 token transfers, Raidos aims to scale Ethereum’s generalized computation capabilities through a network of satellite chains, which can host any smart contract. This technology is similar and complementary to Ethereum's sharding”

# References

[1] <https://filament.com/assets/downloads/Filament%20Security.pdf>

[2] <https://filament.com/assets/downloads/Filament%20Foundations.pdf>

[3] <http://www.libelium.com/products/waspmote/overview/>

[4] <https://www.advanticsys.com/shop/mtmcm5000msp-p-14.html>

[5] <https://telosbsensors.wordpress.com/>

[6] <https://tutorials-raspberrypi.com/raspberry-pi-sensors-overview-50-important-components/#wireless>

[7] <https://www.linux.com/news/21-open-source-projects-IoT>