ARK.IO

Point. Click. Blockchain

fx.thoorens@ark.io / fixcrypt

About ARK

> **Bring to the people and companies the most up-to-date production ready blockchain based technological stack focusing on simplicity, security and openness.**

Gouvernance

Matthew Cox
Président du conseil de surveillance

Lars Rensing
DAF

François-Xavier Thoorens
PDG

Kristjan Košič
Directeur Technique

Scott McPherson

Rok Černec
Vice-Président

Nos bureaux

<u>Siège France</u>

1394, rue du Village

Villeneuve-sous-Pymont

<u>Bureaux</u>

- **France, Paris** 17-21 rue Saint Fiacre

- **Hollande**, **Rhenen**

- **US, San Antonio**

- **<u>Localisation des équipes</u>**

Slovénie, Finlande, Brésil, Bulgarie, Ukraine,

Angleterre, Allemagne, Espagne

30 personnes, 27 actionnaires

ARK Technological Stack

Technology Focus

DPoS Consensus
51 delegates secure and validate the network

Decentralized
Forging delegates can be voted in/out at any time

Secure
Our wallets and products are highly secure

Fast
8 second block times ensures a blazing fast network

Simple
User-friendly wallets and easy-to-use products

Practical
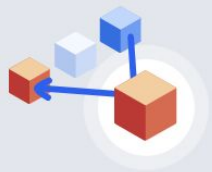Products, applications and tools for everyday use

Core Values

Open Source
Build your own blockchain on the ARK platform with no fees or limitations

12+ Languages
Work in a familiar way with support for 12+ programming languages

Interoperable
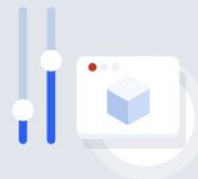Build a blockchain and cross-communicate with other networks & platforms

Modular
Minimize effort with our modular frameworks and plugins

Scalable
Blockchains are built outside the core network allowing infinite scaling

Unique
Customize transactions, plugins, frameworks and more to fit your specific requirements

Exchange listing

altilly	Atomars	Bilaxy	BINANCE
BITLADON	BITTREX	bitvavo	buyUcoin
BW	changelly	change NOW	coindirect.
COINMERCE	COINSBIT	CoinSpot	COINSWITCH
COSS.IO	CRYPTOFACIL	CRYPTOMATE	EXRATES
GODEX	Kaiserex	LIVECOIN	OKEX
P2Pb2b	SimpleSwap	UPbit	VCC

Stats

64 Repositories	**12886** Commits	**6231** Pull requests	**2890** Issues

Repositories

desktop-wallet
Multi Platform ARK Desktop Wall...

JS

1077	53	182	★ 271	190

explorer
A Blockchain Explorer for ARK us...

V

743	16	54	★ 75	124

core
The ARK Blockchain Framework. Ch...

TS

4967	5	56	★ 240	169

mobile-wallet
Multi Platform ARK Mobile Walle...

TS

946	35	65	★ 62	82

Contributors

Bounties, external contributors

Security Vulnerabilities, Features, Integrations

Stats Last month

ArkEcosystem / **desktop-wallet**

Unwatch ▼ | 55   ★ Star | 271   ⑂ Fork | 190

‹› Code   ⊘ Issues **38**   ⑂ Pull requests **15**   ▶ Actions   ⛉ Security   📊 Insights   ⚙ Settings

Pulse

Contributors

Community

Traffic

Commits

Code frequency

Dependency graph

Network

Forks

People

December 8, 2019 – January 8, 2020

Period: 1 month ▼

Overview

19 Active Pull Requests   **13** Active Issues

⑂ **13**	⑂ **6**	⊘ **11**	ⓘ **2**
Merged Pull Requests	Proposed Pull Requests	Closed Issues	New Issues

Excluding merges, **5 authors** have pushed **12 commits** to develop and **26 commits** to all branches. On develop, **171 files** have changed and there have been **8,632** additions and **2,419** deletions.

10

5

0

Stats Last month

Pulse	**December 8, 2019 – January 8, 2020**
Contributors	
Community	
Traffic	
Commits	
Code frequency	
Dependency graph	
Network	
Forks	
People	

Period: 1 month ▾

Overview

28 Active Pull Requests

23 Active Issues

⑂ **27** Merged Pull Requests	⑂ **1** Proposed Pull Request	⏱ **20** Closed Issues	ⓘ **3** New Issues

Excluding merges, **9 authors** have pushed **6 commits** to master and **44 commits** to all branches. On master, **39 files** have changed and there have been **263** additions and **188** deletions.
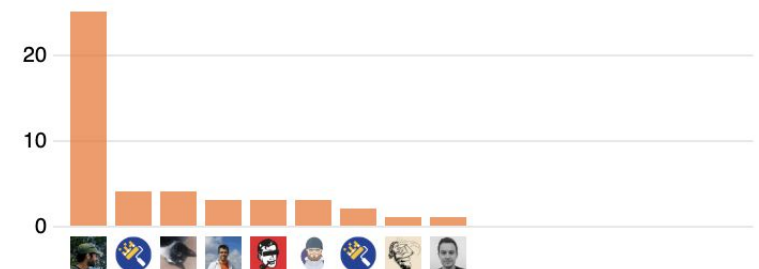
Dev Community Events

ARK Developer AMA: Core	Oct 17th 2019
ARK Developer Roundtable	Oct 24th 2019
ARK Developer AMA: Mobile Wallet	Nov 7th 2019
ARK Developer AMA: Desktop Wallet	Nov 14th 2019
ARK Developer AMA: Core	Nov 21st 2019
ARK Developer AMA: Explorer & Website	Dec 5th 2019
BCdiploma AMA	Dec 10th 2019

ARK Developer AMA: Deployer	Oct 17th 2019
ARK Developer AMA: Explorer & Website	Nov 7th 2019
ARK Developer AMA: IoT	Nov 14th 2019
ARK Developer AMA: Deployer	Nov 21st 2019
ARK Developer Roundtable with nOS	Nov 28th 2019
ARK Developer AMA: Mobile Wallet	Dec 5th 2019
ARK Developer AMA: IoT	Dec 12th 2019

Ark Improvement Proposals

8	An improvement of transaction protocol	Standard	Network	Implemented
10	Automatic Profit Sharing	Standard	Consensus (hard-fork)	Canceled
11	Upgrade of Transaction Protocol	Standard	Consensus (hard-fork)	Implemented
12	Smart Contract	Standard	Consensus (hard-fork)	Draft
13	URI Scheme	Standard	Applications	Draft
14	RESTful API	Standard	Applications	Implemented
15	Event based subscriptions (WebHooks)	Standard	Applications	Implemented
16	Dynamic fee calculations	Standard	Protocol	Implemented
17	Transaction pool wallet manager	Standard	Protocol	Implemented
18	Multisignature protocol	Standard	Protocol	In progress
19	Incremental snapshot system	Standard	Core	Implemented

Partnerships

Want to co-operate with us?

We are always looking for new partnerships, if you think we could be a good fit send us an email.

Get in touch

Major Past releases

Q3 2019
Expected completion

ARK Core v2.6 Development
Task 9 of 9 completed

Website v2
Task 3 of 3 completed

Q2 2019
Expected completion

Whitepaper v2
Task 3 of 3 completed

ARK Deployer GUI (Alpha)
Task 5 of 5 completed

Q4 2018
Expected completion

SDKs & Integrations
Task 18 of 18 completed

ARK CORE v2
Task 13 of 13 completed

Currently working

Q4 2019
Expected completion

71% **ARK Core v2.6 Testing & Deployment**
Task 3 of 5 completed

84% **Easy One-Click Deployment with ARK Deployer**
Task 3 of 7 completed

98% **ARK Desktop Wallet - Plugin Manager**
Task 3 of 4 completed

87% **ARK Core v2.6 Product Upgrades**
Task 7 of 10 completed

(near) Future releases

Q1 2020
Expected completion

26% ARK Core v3.0 Development
Task 0 of 13 completed

14% ARK Mobile Wallet v2.0
Task 0 of 5 completed

Q2 2020
Expected completion

0% Core Consensus Update - Design & Specifications
Task 0 of 1 completed

0% ARK Swap Market (DEX) - Design and Specifications
Task 0 of 2 completed

A few insights

- Write a plugin for custom behavior of your node (typically integration with your system)
  https://docs.ark.io/tutorials/core/plugins/how-to-write-a-core-plugin.html#
- Write your custom transaction (equivalent to smart contract in ark world)
  https://docs.ark.io/tutorials/core/how-to-write-custom-transactions.html
- Hard Fork management (simply upgrade your protocol):
  https://docs.ark.io/tutorials/core/how-to-use-milestones.html#how-do-i-modify-or-add-properties
- Arduino C++ SDK to interact with ark chain (react to blockchain event or create tx and send to blockchain)
  https://docs.ark.io/tutorials/iot/environment/arduino/

And more:
- Cryptographic bridge between eth and ark (simplified migration)
-

Examples

Unik Name

```sh
$ uns resolve --network devnet -f raw "@unik:individual:bob?address"

42 quai Malakoff, 44000 Nantes
```

BCDiploma
- Migration d'un smart contract ETH pour les diplomes
- Connection avec un smart contract ethereum certificateurs

https://certificate-demo.bcdiploma.com/check/25E1A2824E19CFFBFA22FB71F3B0887FABE60E2748D7B6EB17A8E48E78BB168CESHV%252BJAA%252FewDzkObuYS2cT0BiAz4JmfuVTbZR72htHxBzyZX

Examples

🏛 Issuer ☑

Name:	Leaston University
Legal references:	For testing purpose only 🔍
Declaration of intent:	Leaston University is a fictional company used by BCdiploma as an example university. 🔍
Blockchain Address:	0x72Cf647508Da9bF398C50F817E16Edd397AF3177 🔍

🔒 Issuer verified by ☑

Validator:	Blockchain Certified Data
Legal references:	Blockchain Certified Data SAS - 92500 Rueil-Malmaison FRANCE - contactus@bcdiploma.com - 833138951 RCS Nanterre 🔍
Website:	https://www.bcdiploma.com ↗
Blockchain Address:	0x7332ea1229c11c627c10eb24c1a6f77bced1d5c1

List of issuers ↗

🗄 Data ☑

Blockchain:	ARK ↗
Certified on:	2019-12-06T15:28:32.000Z
Certified data:	Executive MBA John Doe Date of birth: 1970-01-01 Place of birth: Paris has satisfactorily completed all degree requirements from 2015 to 2019. He has been awarded the following academic degree(s): Digital Marketing & Social Media by decision of the ... 🔍
Template:	Bachelor powered by ARK (2/0x03)

🧊 Blockchain ☑

Blockchain:	ETH-ropsten
Technical documentation:	Repository ↗ Gitlab ↗
Contract Address:	0x13c61ef65b6a60e8692fa3bf5ba4d521236a48ad

Produced by BCdiploma ©2020

Examples

Transaction ID

548b044da62e06f2b8c45db43e950f80128060455f4892baf9a2c7726bea7e5d 📋

Sender	AdUEjBCbD4wnSr3Pa53gwrat4QUPQ2K2v8
Recipient	
Confirmations	366,632
Amount	0 TA
Fee	0.01 TA

CertifiedData

;0x03;;UUSLCv2MC1bp/rl9TMeyTNUARY6DNPcF/2+Ak1YNjRKlRbZyKji5i0gWVQnt7oWqio0xtukCnavGt2k7XU/qyS5jS0/YzsDFZ7Y8QGSnI5l/oN28RToUYJJUcmC6hOLwrpfyuaAhTkAbltHUP4vc74RamjUGxkMPWxfqe1mjgv1hj8NJehrmB0uRYC5u8IKap6Y5MumLtC6zuvSOGBGs9LtZQOsTwJY5vrqe3fkVHNNoBuAobdlCWyRbAvkShKJD0937c24v8JdIqDuPzpy63Kj5IfyRK5MYp2FKLWORN9xv3ciVJjh8+CXfgssrLyq654u6IBFnLZGMAsDAytvvIA==;

Timestamp	12/06/2019 4:28:32 PM
Nonce	103
Block ID	118213963027474878

Future

- Reorganisation of SCIC ARK Ecosystem
  - Enterprise (custom setup for companies)
  - Hacking Team
  - SCIC (Whitepaper focus)

- H7
  - Open to anybody (place limited)
  - Funded by Ark (for office and management)
  - Based in Paris,
  - Be the best world H7 around blockchain technology
    - White hacking existing crypto (including ark)
    - Fast iterations for PoC (DiD,)

fx.thoorens@ark.io fixcrypt

Questions ?