World Compensation System (WCS)

Keywords: #2020, #Blockchain, #InternetOfValue, #Unbanked **Platform**: #RSK, #DeFi, #DeFiApp, #DFApp, #wcsDFApp

Classification: DeFi : EcoSystem : @rif_os : Version: 0.0.1 (2020-01-15)

Status: in work

Purpose

Simple. Eliminate money invisibility.

User-story

I dare you to throw out all your money, all your papers and coins and individual national currencies, and start over.

Develop an international monetary system that is wide open, totally visible, immediately traceable, completely accountable. Establish a Worldwide Compensation System by which people would be given Credits for services rendered and products produced, and Debits for services used and products consumed.

Under the new Worldwide Compensation System, WCS, the transfer of Debits and Credits would be immediate and totally visible. That is, anybody and everybody could inspect the account of any other person or organization at any time. Nothing would be kept secret, nothing would be 'private'

Everything would be on the system of Credits and Debits. Returns on investments, inheritances, winnings of wagers, salaries and wages, tips and gratuities, everything. The WCS would deduct 10 percent of all earnings each year from the income of those voluntarily requesting such a deduction. Everyone in the society would be able to observe who was choosing to offer the 10 percent for the general good of all, and who was not. And everyone's records would be open to everyone else. And nothing could be purchased without Credits. There would be no other negotiable currency. ([source:#CWG, @realNDWalsch](http://nealedonaldwalsch.com))

Short-name: WCS, DeFiApp, wcsDFApp

Disclaimer: All quoted phrases are verbatim copies found at Conversations with God. Book Two (see Bibliography)

Bibliography: - Conversations with God (c) 1997 Neale Donald Walsch. ISBN 978 0 340 76544 9

World Compensation Operating (Eco-)System

Use-cases

- Value creation (energy-flow)
- Development of services
- Production or products
- Labour/Work

Extended Use-cases

• Energy eXchange

Decentralised Finances (DeFi)

- Taxation
- Borrows/Loans

Community

• [@WorldCompensationSystem (Twitter)](https://twitter.com/WorldCompensationSystem)

License

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Contributing

Please read our Project Contribution Guide and [Code of Conduct]

Donations

BTC-Address: \mid X1v34..7xKt \mid ETH-Address: \mid 0x123..0000 \mid

Whitepaper

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(Eco-)System Application notes

Examples

homeland\$

homeland\$help

homeland\$man ver

homeland\$ver

homeland\$home

homeland\$user create user1

homeland\$pwd

homeland\$1s

homeland\$stat

homeland\$cmd1 --verbose

homeland\$app1 --verbose

homeland\$dapp1 --verbose

homeland\$commands

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homeland\$wallet

homeland\$credits

homeland\$debts

homeland\$assets

homeland\$send 2 user1

homeland\$credit tetris

homeland\$neighborhood

homeland\$discover

homeland\$connect

homeland\$1s

homeland\$1s nations

homeland\$citizen

homeland\$citizen federation1

homeland\$idle federation1

homeland\$donate -idle neighborhood

```
homeland$tax 8
homeland$offer -idle federation1
homeland$offer 8
homeland$offer 6
homeland$credits
homeland$tetris
homeland$credits
homeland$invest kernel.org 2
homeland$assets --all
homeland$1s communities
homeland$greetings community1 me --verbose
homeland$offers
homeland$accept 1
homeland$credits
homeland$value dapp1
homeland$stat dapp1
homeland$dapp1 --verbose --debug
homeland$login
homeland$
homeland$1s
homeland$rate dapp1 ***
homeland$SMS user1
homeland$share dapp1 user1 2
homeland$lend dapp1
homeland$claim dapp1
homeland$read ebook1 1
homeland$read ebook1 1
homeland$man wallet
homeland$wallet create
homeland$man snap
homeland$ls -al /dapps
homeland$lend 3 user1 2020-06-31 0.001
homeland$gift 3 user3 /user3/birthday
Applications
/apps:
/apps/App1 -- Local App1 executable
/apps/<Domain>/App1/spec -- (external) interface specification
/apps/<Domain>/App1/src -- source code
/apps/<Domain>/App1/test -- test
```

- \bullet wcsUTelnet Telnet (status: planned)
- \bullet wcsPFtp wcs:Protocol interpreter : File-Transfer (status: planned)
- wcsPHtpp HTML eXchanger (status:planned)

Dependencies /lang - implementation language specific files

Application Notes

Digital signatures

49bf9fabbb31ca80119c72109b914708 ./apps/README.md

Document	MD5-Checksum
README.md	$49 bf 9f abbb 31 ca 80119 c7 2109 b9 14708\ apps/README.md$

Distributed Apps

```
/dapps:
```

```
/dapps/DApp1 -- Distributed App1 executable
/dapps/<Domain>/DApp1/spec -- (external) interface specification
/dapps/<Domain>/DApp1/src -- source code
/dapps/<Domain>/DApp1/test -- test
```

List of native DFApp(s)

- wcsDFAppDeductor {src, dst} Deduces 10% from src monthly into dst (status:planned)
- wcsDFAppTemplate WCS network DFApp Template (status: planned)

List of registered third-party DFApp(s)

Application Notes

Digital signatures

8bac8aaca025fbaed5d9753a66a1b7cd ./dapps/README.md

Document	MD5-Checksum
README.md	$8 bac 8 aaca 0 25 fbaed 5 d9 75 3 a 66 a 1 b 7 cd\ dapps/README.md$

head: commands/README.md: No such file or directory

/commands: tail: commands/README.md: No such file or directory

Digital signatures

md5sum: stat './commands/*.md': No such file or directory

 $\begin{array}{ccc} \underline{\text{Document} & \text{MD5-Checksum}} \\ \end{array}$

md5sum: stat 'commands/*.md': No such file or directory | GLOSSARY.md README.md whitepaper.md | |

head: operations/README.md: No such file or directory

/operations: tail: operations/README.md: No such file or directory

Digital signatures

md5sum: stat './operations/*.md': No such file or directory

Document MD5-Checksum

md5sum: stat 'operations/*.md': No such file or directory | GLOSSARY.md README.md whitepaper.md | |

Tools

/tools:

List of native (off-the-shelf) Tool(s)

- wcsUPing wcs:Util : Ping (status:planned)
- wcsUEcho Echo (status:planned)

Application Notes

Digital signatures

d89cf07d2b13a22deec08c0c4ed9266e ./tools/README.md

Document	MD5-Checksum
README.md	${\rm d}89cf07d2b13a22deec08c0c4ed9266e~tools/README.md$

Services

/services:

List of supported System-Service(s)

• wcsServer - World Compensation System server (status: planned)

Digital signatures

086f662610232b3d3c823e5af2138bce ./services/README.md

Document	MD5-Checksum
README.md	$086 f 66 26 10 23 2 b 3 d 3 c 823 e 5 a f 2138 b ce \ services/README.md$

Architecture

/arch:

Concept

Create a World Compensation Ecosystem based on Decentralised Financial Applications.

Implementation:

• Operation System (including fs, dfs, time-shared applications)

wcsOS-linux based distribution

Layers:

- 1. Distributed peer-2-peer (P2P) Network (Blockchain based)
- 2. Distributed File system (dfsWcs)
- 3. Nodes are Servers
- 4. Servers
 - 1. run System- and Users-services
 - 2. route User- and System- interactions (transactions)
- 5. Users are Clients

- 6. Clients decide to participate or not (mounting/unmounting) as service suppliers in the network
- 7. Clients interact with other Clients
- 8. Clients request services from Servers (service suppliers)
 - 1. Via Remote Procedure Call (RPC) returning values in JSON format
- 9. Clients transfer value-assets to single or multiple-users or services
- 10. Light-Clients connect and use the network only for short-time (SMS, PPP)
- 11. Value-assets are represented via Addresses in the Distributed File system
- 12. Clients and Servers interact via read/write file operations with eachother
- 13. Servers providing User-services are debted certain agreed amount per-use
- 14. Servers providing System-services are debted an agreed amount per-use, daily, monthly or yearly on donation basis

Network

Topology: Flower or Tree-of-Life (sacred geometry star 1:N, N:=6) * https://en.wikipedia.org/wiki/Overlapping_circles_grid#Modern_usage

Nodes:

Full-nodes:

- store the complete history of command-blocks (analog to batch-files (a.k.a transactions))
 Light-nodes:
- store, validate and reconstruct environment from all nodes in local network (only) -- bis

```
(light-Node) User : reads, modifies and stores state in Blockchain
```

- In browser (js Linux machine)
- Web App
- Mobile App

full-Node (service provider server) : offers (shares) execution time

- USB live CD
- Floppy disk

Local File-system

Refer to /arch/fs

Remote (distributed) File-system

Refer to /arch/dfs

Realisation

TCP/IP Server :port UNIX's "Everything is a File" -> (name:Address) - Network (distributed) File-System

Support Tools

- neo4j Graph Database
- jslinux Web-Browwer Linux
- 128-bit OS 128-bit RISC OS
- quickjs Embeddable Javascript engine

Refer to support tools.

Network Startup

\$wcsStart &

World Compensation System server (wcss) running Listening on port:280182

\$wcsStatus
Status: OK

Command, Services and Tools

- bin Local commands, services and tools
- dbin Distributed (Remote) user-commands and user-tools

Application Notes

- $\bullet\,$ apps Local commands, services and tools
- $\bullet\,$ dapps Distributed (Remote) User-services

Digital signatures

aa4209ef73003fc5ed561c333358fa92 ./arch/README.md

Document	MD5-Checksum
README.md	$aa4209ef73003fc5ed561c333358fa92\ arch/README.md$

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57f63e009b37380325975d0f9aec0e5f ./whitepaper/README.md

Digital signatures

d89cf07d2b13a22deec08c0c4ed9266e 2002ca1741c76f6377bbeeee61871f2c 6eec0042d8bf26b963570b205d79b536 94063115eb82858ccfd15ef5a3b21814 bd82171ac0321177e5e9fb73574018bb 68f05ceb68281268217108fb55876082 5cd4aa50a1a9f8d1b46b0b63c9d82e27 9c060f1741bc37163838ead55b73c8ab 3582056e21f163e556a92a29f26da4bc 8bac8aaca025fbaed5d9753a66a1b7cd ca8f6611e7334b5878a412f6908fab36 35610a8fc82e44c38b636eb7a8c4403f d3777eb628218cf79d50e576d5c95bbd f80bb3d6110f0bb9d5b829e1c45b0fd0 3433da0faf06086ef1fce211fe39ba7d 549a6e7200570625315f52f47b1b8ffc cabaa25d0481b17f4fe563869c86a467 bdb604d4b1a062ad395e255c5fe46ca6 b6a84991d4f8957e69ccfd6d3e935e02 7641cae0c8a83ae31000144d576289e2 93224d53add26ee895587864ebdf3c00 5f5763428b097bebeee966cb45a39be1 227488574263a442dfc666513ef23f0c aa4209ef73003fc5ed561c333358fa92 f16bab90fe5bf837c86b04e89f7dbb86 2eaaf2bbe0e2dae25cbc17345d4ba75a 626a048f9af6cb0a4326140a20f61c35 beb28c51736bf8eb435fbc02654657f6 e598ee8dfcac71c6efdc5a3c56954ac0 c15908d22552696e8d67679f60717794 49bf9fabbb31ca80119c72109b914708 a3c6c1e9fbc0dd9e6723f73f7402b08a 086f662610232b3d3c823e5af2138bce dc45d393ffbb66020d91ddf6f4fc2da5 ./tools/README.md ./dbin/README.md ./bin/README.md ./development/integration.md ./development/README.md ./development/deployment.md ./development/CONTRIBUTING.md ./development/workproducts.md ./GLOSSARY.md ./dapps/README.md ./whitepaper/platform.md ./whitepaper/wcsOES.md ./whitepaper/customer.md ./whitepaper/ecosystem.md ./whitepaper/README.md ./README.md ./arch/ledger/README.md ./arch/dfs/README.md ./arch/dfs/dFSwcs/README.md ./arch/networking/README.md ./arch/agreement/README.md ./arch/citizen/README.md ./arch/operations/README.md ./arch/README.md ./arch/lang/README.md ./arch/lang/c/README.md ./arch/commands/README.md ./arch/fs/README.md ./users/README.md ./users/user1/README.md ./apps/README.md ./services/wcsServer/README.md

real 0m0.001s user 0m0.000s sys 0m0.000s White paper. WCS - published by: wcs:root : Sun Jan 19 23:22:54 CET 2020

./services/README.md

./whitepaper.md

Glossary

• term - short explanation

Definitions

Assets:

Work-product (document, software application, drawing (diagram), picture) that was created and can be: - stored, - used (executed, applied to), or - exchanged (ownership transfer: lend/borrow, inheritance, etc.)

Value:

The intrinsic 'cost' of producing and using a given asset - universal unit of credit: cost (node operation cost) - present value: (development + production cost) - future value: (service cost) - reputation based

Transaction (Asset (Credits or Debts)-value Transfer): - Blockchain->Browser->Distributed File-System->Local File-System->Blockchain->Remote File-System

- 1. User->Client (Application)
- 2. Client->Browser
- 3. Browser (Peer)-to-(Peer)-Network (Blockchain)
- 4. ...

Credits:

credit - a given amount granted in exchange of local-resource-time (normally computing power or manual labour) consumption/usage - run a service in a remote:node

Debits:

debit - crediting unit referring the used time during required computation - debiting-time - time used during computation * fix cost (internet, electricity) - visibility (production cost, service price), e.g. (2,34)

Services:

service - an action executed virtually (software) or physically (hardware) - eg. (software:x386:server) hashvalueof bigfile.bin - (hardware:raspberrypi:io) getoutsidetemp