Whitepaper - WCS - published by: wcs:root : Sat Jan 18 18:21:33 CET 2020 # World Compensation System (WCS) **Keywords**: #2020, #Blockchain, #InternetOfValue, #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, @realNealWealsh](http://ISBN))

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

Use-cases

- Typical Use-cases and User-workflow

Community

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

License

Contributing

Please read our Contribution Guide and [Code of Conduct]

Donations

BTC-Address: | 0x123..0000 |

Whitepaper

Table-of-contents

Operating (Eco-)System Concept

1. wcsO(E)S - WCS Operating Eco-System
    1. Platform
    2. Use-cases
        1. Notation
        2. Welcome home
        3. Help
            1. View description manual
        4. User management
        5. File-System (Minimum commands)
            1. Present working directory (pwd)
            2. Listing files (ls)
        6. Applications, Services, Commands and Tools
            1. Running local tool system-service

        2. Running local command system-service
        3. Running local user-application
        4. Running remote user-application
        5. Commands
        6. Tools
      7. Local Services
        1. Financial
        2. Asset Management
      8. Value Operations
        1. Transactions
      9. Distributed Services
      10. Group citizenship
      11. Work – Get Idle Task (according to current citizenship)
      12. Donate
      13. Contribute to Nation's taxes
      14. Value Creation (out-of-thin-air)
      15. Credits
      16. Value Transfer - Request for service
      17. Value Transfer - Investment
        1. Communities
      18. Running DApplication in debug-mode
      19. User-management
    3. User-Application development
      1. DApplication development help
    4. Returning home
    5. Lend User-service
    6. Claim lend User-service
    7. Borrow service ## (Eco-)System Application notes

```
homeland$
homeland$help
homeland$man ver
homeland$ver
homeland$home
homeland$user create user1
homeland$pwd
homeland$ls
homeland$stat
homeland$cmd1 --verbose
homeland$app1 --verbose
homeland$dapp1 --verbose
homeland$commands
homeland$tools
homeland$apps
homeland$wallet
homeland$credits
homeland$debts
```

```
homeland$assets
homeland$send 2 user1
homeland$credit tetris
homeland$neighborhood
homeland$discover
homeland$connect
homeland$ls
homeland$ls 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$assets --all
homeland$ls communities
homeland$greetings community1 me --verbose
homeland$offers
homeland$accept 1
homeland$credits
homeland$value dapp1
homeland$dapp1 --verbose --debug
homeland$login
homeland$
homeland$ls
homeland$rate dapp1 ***
homeland$SMS user1
homeland$share dapp1 user1 2
homeland$lend dapp1
homeland$claim dapp1
```

apps ### Applications

```
/app/App1 -- Local App1 executable
/app/<Domain>/App1/spec -- (external) interface specification
/app/<Domain>/App1/src -- source code
/app/<Domain>/App1/test -- test
```

List of WCS Application(s) (status:*in-work*) /apps/: * wcsUTelnet - Telnet wcsPFtp - wcs:Protocol interpreter : File-Transfer wcsPHtpp - HTML

eXchanger

Dependencies /lang - implementation language specific files #### Digital signatures

```
c2bf4fc7bf438106c12f307afd337811  ./apps/README.md
```

Document	MD5-Checksum
README.md	c2bf4fc7bf438106c12f307afd337811 apps/README.md

dapps ### Distributed Apps (status:*in-work*)

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

List of WCS DFApp(s) (status:*in-work*) /dapps:/ * wcsDFAppDeductor {src, dst} - Deduces 10% from src *monthly* into dst

- wcsDFAppTemplate - WCS network DFApp Template #### Digital signatures

```
2dfccc42d70768a23f6464cb7940915a  ./dapps/README.md
```

Document	MD5-Checksum
README.md	2dfccc42d70768a23f6464cb7940915a dapps/README.md

commands ## Commands (status:*in-work*)

```
/commands/Cmd1 -- Command1 executable
/commands/Cmd1/spec
/commands/Cmd1/src
```

List of WCS Commands(s) (status:*in-work*)

/commands/: * wcsUStatus - Echo

Application Notes

Digital signatures

```
19378124b967a8ee694fbb7303c7897b  ./commands/README.md
```

Document	MD5-Checksum
README.md	19378124b967a8ee694fbb7303c7897b commands/README.md

operations ## Operations #### Digital signatures

`88c2dd22668d96cb2232b8c136cbd982  ./operations/README.md`

Document	MD5-Checksum
README.md	88c2dd22668d96cb2232b8c136cbd982 operations/README.md

tools ## Tools

List of off-the-shelf Admin Tool(s) (status:*in-work*)

/tools/: * wcsUPing - wcs:Util : Ping * wcsUEcho - Echo #### Digital signatures

`ac9c232097bd812a82d4717c2298f6eb  ./tools/README.md`

Document	MD5-Checksum
README.md	ac9c232097bd812a82d4717c2298f6eb tools/README.md

services ### Services

List of wcsOS System-Service(s) (status:*in-work*) /services/: * wcsServer - World Compensation System server #### Digital signatures

`06ae6a9d35733170f372c50e1e6ed749  ./services/README.md`

Document	MD5-Checksum
README.md	06ae6a9d35733170f372c50e1e6ed749 services/README.md

arch ## Architecture

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) 1. Distributed File system (dfsWcs) 1. Nodes are Servers 1. Servers 1. run System- and Users-services 1. route User- and System- interactions (transactions) 1. Users are Clients 1. Clients decide to participate or not (mounting/unmounting) as service suppliers in the network 1. Clients interact with other Clients 1. Clients request services from Servers (service suppliers) 1. Via Remote Procedure Call (RPC) returning values in JSON format 1. Clients transfer value-assets to single or multiple-users or services 1. Light-Clients connect and use the network only for short-time (SMS, PPP) 1. Value-assets are represented via Addresses in the Distributed File system 1. Clients and Servers interact via read/write file operations with eachother 1. Servers providing User-services are debted certain agreed amount per-use 1. 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 trans
Light-nodes: store, validate and reconstruct environment from all nodes in local network (or
```

Local File-system

```
/ - WCS root Ecosystem
/commands
/dbin/ - Decentralised System services
/users/ - connected user addresses {publickey:addresshash:alias:inbox} (analog to /mnt)
/apps
/lang - implementation language specific files
/tools - Utility tools
/dapp/ - Decentralised User or Third-Party Applications (executable -- analog to /usr/bin)
```

Remote (distributed) File-system

/arch/dfs

```
/dapp/DeFi/ - Decentralised Financial Apps
```

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

- apps - Local commands, services and tools
- dapps - Distributed (Remote) User-services #### Digital signatures

```
61c2223045284a14e903089d266c04c6  ./arch/README.md
```

Document	MD5-Checksum
README.md	61c2223045284a14e903089d266c04c6 arch/README.md

2020 (CC) Creative Common License

c5c11bb0d053c683b9c801b36b85f6e7 ./whitepaper/wcsOES.md #### Digital signatures

```
ac9c232097bd812a82d4717c2298f6eb  ./tools/README.md
dc2c8698da44a75bdd5c19efd0860213  ./dbin/README.md
d47693b9acb4e93021125f2c7a3d36f2  ./bin/README.md
49a5c547537d2c6a77e17d08d62bd5e2  ./networking/README.md
3582056e21f163e556a92a29f26da4bc  ./GLOSSARY.md
2dfccc42d70768a23f6464cb7940915a  ./dapps/README.md
ca8f6611e7334b5878a412f6908fab36  ./whitepaper/platform.md
c5c11bb0d053c683b9c801b36b85f6e7  ./whitepaper/wcsOES.md
d3777eb628218cf79d50e576d5c95bbd  ./whitepaper/customer.md
5ef39c7dbe0e9a0a55bb396d9eacd2eb  ./whitepaper/README.md
88c2dd22668d96cb2232b8c136cbd982  ./operations/README.md
4e57eedfde6cb02c52aec8be79b015c9  ./README.md
94063115eb82858ccfd15ef5a3b21814  ./project/integration.md
68f05ceb68281268217108fb55876082  ./project/deployment.md
5cd4aa50a1a9f8d1b46b0b63c9d82e27  ./project/CONTRIBUTING.md
9c060f1741bc37163838ead55b73c8ab  ./project/workproducts.md
f16bab90fe5bf837c86b04e89f7dbb86  ./lang/README.md
2eaaf2bbe0e2dae25cbc17345d4ba75a  ./lang/c/README.md
5fe7603d97b3315406ce7c051f273a3e  ./arch/dfs/README.md
b6a84991d4f8957e69ccfd6d3e935e02  ./arch/dfs/dFSwcs/README.md
61c2223045284a14e903089d266c04c6  ./arch/README.md
c4feafee3b3e1969bc45b3fc9f2575ee  ./arch/fs/README.md
1c309bf14fbd49d5afcfac8da0635b5b  ./users/README.md
19378124b967a8ee694fbb7303c7897b  ./commands/README.md
c2bf4fc7bf438106c12f307afd337811  ./apps/README.md
a3c6c1e9fbc0dd9e6723f73f7402b08a  ./services/wcsServer/README.md
06ae6a9d35733170f372c50e1e6ed749  ./services/README.md
```