

published by: user : Sat Jan 18 16:31:38 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)](https://twitter.com/WorldCompensationSystem)

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Contributing

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Donations

BTC-Address: | 0x123..0000 |

Whitepaper

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```

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```

Operating (Eco-)System Concept

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Platform

realisation platform - wcsOS Linux based. Minimal distribution

Transactions

```
homeland$send 2 user1
Sending 2 Credits to /users/user1
TX: Send pubkey
RX:
TX:
RX:
```

Use-cases

Keywords: Socratic thinking, design thinking, Agile methodologies, user stories

Notation

The following **code** sections provide the main use-case description. First step during implemenation consist of: 1. Copy Use-case description as /dst/test.expected 1. Replace old section and include new created file (/dst/test.expected) here instead 1. Implement required functionality 1. Implement test.sh 1. tool arg1

```
-arg-2 > test.result 1. diff test.result test.expected 1. Implement build.sh 1. build  
1. /test.sh
```

Welcome home

```
** Welcome @homeland  
homeland$
```

View use-case description manual `help`, `man` or check our documentation.

```
homeland$man  
home  
whoami  
pwd  
ls <folder>  
ver
```

```
homeland$ver  
wcsOS 0.0.1
```

User management

```
homeland$home  
  
homeland$user create user1  
New wallet created  
Address: user1:0xc50...0000
```

File-System (Minimum commands)

Present working directory (`pwd`)

```
homeland$pwd  
/node/homeland --> {nodeuuid}
```

Listing files (`ls`)

```
homeland$ls  
local services  
app1 -> /node/homeland/apps/app1  
cmd1 -> /node/homeland/commands/cmd1  
tool1 -> /node/homeland/tools/tool1
```

```
remote services  
dapp1 -> /node/lapland/dapps/dapp1
```

```
local-users  
me -> /users/me
```

```
remote-users
```

Applications, Services, Commands and Tools

Running local tool system-service

```
homeland$stat  
connection OK  
0 services running
```

Running local command system-service

```
homeland$cmd1 --verbose  
running cmd1
```

Running local user-application

```
homeland$app1 --verbose  
running app1@localhost (127.0.0.1)
```

Running remote user-application

```
homeland$dapp1 --verbose  
running dapp1@lapland  
address: 0xc5..000
```

```
no local credits (use command: credits)  
no local debts (use command: debts)
```

```
use '$commands' for a listing of available operation commands  
use '$apps' for a listing of currently available user-services
```

Commands

```
homeland$commands  
operations  
credits - credits are gained by certain proof-of-work  
debts - debts are credits debited to the users (to be payed later in time or as part of a loan)  
loans - list of available loans (request for asset-transfer (value transfer))  
offers - list of published offers (request for service)  
assets - show local assets (including applications, commands, services, tools and monetary value)
```

actions
debit -
loan -
value - set 'own' market-value (local cost of service-unit) -- analog to BTC-Network-Fee or
cost - update 'own' local (production) cost (fixed costs (including internet + electricity))
income - show current regular income
work - produce a work-product (costing local energy (computational power))

transactions
credit - credit user for consumed-service (online time + service computer power)
accept/service - accept offer
send - transfer asset to otheruser
reputation - get/set reputation-value (quadratic-voting) to given asset

Tools

homeland\$tools
2 tools

telnet - (0 credit:government:culture)
ping - (1 credit:foundation:ibm)
telnet - (1 credit:institute:fraunhofer)
hash - (1 credit:university:berlin)

homeland\$applications (\$ls /apps)
3 apps, 1 local

tetris - (16 times:company:gameco:*)
doomclone - (872355 times:user:girx34:*****)

xyz - (4 times:local)

Local Services

Financial

homeland\$wallet
Address: 0xc50..000
0 Credits
0 Debits

Value Operations

```
homeland$credits
0 credits

homeland$debts
0 debts

homeland$assets
2 assetts, 1 leasing, 1 licensed, 0 invested

leasing
tetris - (2 Leasing Credits left:16:company:gameco:*)

licensed
doomclone - (34 Credits licensed:872355:user:girx34:*****)

invested 0

homeland$credit tetris
no neighbors found
```

Distributed Services

```
homeland$neighborhood
0 neighbors

homeland$discover
discovering users
34 neighbor users found
3 communities found

homeland$connect
connecting with local neighborhood
1. peer-to-peer connection established. Hello node34
2. peer-to-peer connection established. Hello
3. remote-connection established. Hello server78.google.com
OK service-connection established. Hello homequarters (@WCS00.org) time:34.251 ms

homeland$ls
local services
app1 -> /node/homeland/apps/app1
cmd1 -> /node/homeland/commands/cmd1
tool1 -> /node/homeland/tools/tool1

remote services
dapp1 -> /node/lapland/dapps/dapp1
```



```
local-users  
me -> /users/me
```

```
neighborhood  
user1 -> /neighborhood/nod35/user1
```

Group citizenship

```
homeland$ls nations  
local-nation  
nation1 -> /federation/ethereum/ethnation1  
bitcoin -> /bitcoin/BTC  
rsk -> /rif_os/rsk/Rootstock
```

```
homeland$citizen  
connecting with local nation  
1. remote-connection established. Hello finance.gov  
2. remote-connection established. Hello congress.EU  
OK service-connection established. Hello homequarters (@WCS00.org)
```

```
0 taxes  
2 messages  
1 requests  
10 offers
```

```
homeland$citizen federation1  
connecting with local federation1  
1. remote-connection established. Hello finance.gov  
OK service-connection established. Hello homequarters (@WCS00.org)
```

```
0 taxes  
2 messages  
1 requests
```

Work – Get Idle Task (according to current citizenship)

```
homeland$idle federation1  
scientific.phsychedelics (945 Users)
```

Donate

```
homeland$donate -idle neighborhood  
thank you
```

Contribute to Nation's taxes

```
homeland$tax 8
contribute to local nation 8hrs full-time
completed (8 Credits)
```

Value Creation (out-of-thin-air)

```
homeland$offer -idle federation1
offering local idle-time for federation1

homeland$offer 8
offering local-resources for 8hrs nation (default)
rejected (not enough resources)

homeland$offer 6
offering local-resources for 6hrs nation (default)
accepted
completed. thank you (6 Credits granted)
```

Credits

```
homeland$credits
6 Credits
```

Value Transfer - Request for service

```
homeland$tetris
running tetris..
..
exiting tetris

homeland$credits
4 Credits
```

Value Transfer - Investment

```
homeland$invest kernel.org 2
2 Credits left

homeland$assets --all
3 assets

borrowed/leasing
tetris - (0 Leasing Credits left:16:company:gameco:*)
```

```

licensed
doomclone - (34 Credits licensed:1564355:user:girx34:****)

invested
kernel - (2 Credits invested:0.0000 earned:6463872355:community:linux.org:*****)

membership

```

Communities

```

homeland$ls communities
communities
community1

homeland$greetings community1 me --verbose
$greetings community1 me{pubkey:address:nodeuuid:useralias:mail}
>>me:greetings community1
>>me:credentials me{pubkey:address:nodeuuid:useralias:mail}
>>community1:greetings me
>>community1:here our credentials
>>{
>> credentials: "community1{pubkey:address:nodeuuid:useralias:mail}"
>>}

homeland$offers
11 offers (1 miners)

homeland$accept 1
accepted top-priority offer (3 miners working in parallel)
completed (1 Credit granted)

homeland$credits
3 Credits

homeland$value dapp1
1 Credit

```

Running DApplication in debug-mode

```

homeland$dapp1 --verbose --debug
connection established (lapland @address: 0xc5..000:1234)

DEBUG: Exchange pubkey:me@homeland
DEBUG: 1 Debit Credit to me@homeland (-1 Debit Credit, 2 Remaining Credits in Total)
DEBUG: License key received (privatekey)
DEBUG: run dapp1@lapland using privatekey

```

```
running dapp1@lapland --key privatekey
...
exiting dapp1@lapland
DEBUG: 1 Credit granted to dapp1 (12463 in Total)
goodbye. connection closed (dapp1@lapland)
DEBUG: 2 Local Credits left (me@homeland)
```

User-management

```
homeland$login
homeland: me
Password: *** *

me@homeland$
```

User-Application development

DApplication development help

```
me@homeland$man app

json app(arg1, arg2){
  return json;
}

me@homeland$publish myapp1
{
  namespace : "me@homeland"
  name : "myapp1"
  return : "1"
}
```

Returning home

```
me@homeland$exit
homeland$
*** Welcome homeland

homeland$ls
local services
app1 -> /node/homeland/apps/app1
cmd1 -> /node/homeland/commands/cmd1
tool1 -> /node/homeland/tools/tool1
```

```

remote services
myapp1 -> /node/homeland/me:/myapp1
dapp1 -> /node/lapland/dapps/dapp1

local-users
me -> /users/me

neighborhood
user1 -> /neighborhood/nod35/user1 (light-consumer)
lapland -> /neighborhood/lapland/root (full-provider)

homeland$rate dapp1 ***
Awesome tool. Thank you!

homeland$SMS user1
Just tried '/homeland/dapp1' out. Is worth taking a look.

homeland$share dapp1 user1 2
Hey! Check '/homeland/dapp1' out. You are going to loooove it!
Timeout set to 2 hours

```

Lend User-service

```

homeland$lend dapp1
offering dapp1 -> /node/lapland/dapps/dapp1
waiting for acceptance
accepted (node75)

```

Claim lend User-service

```

homeland$claim dapp1
claiming dapp1 -> /node/node75/dapps/dapp1
waiting for timeout
restored (homeland)
dapp1 -> /node/lapland/dapps/dapp1

```

Borrow service

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

RK1.0

/ - WCS root Ecosystem

/commands

/dbin/ - Decentralised System services

/users/ - connected user addresses {publickey:addresshash:alias:inbox} (analog to /mnt)

RK1.1

/apps

/lang - implementation language specific files

/tools - Utility tools

RK1.2

/dapp/ - Decentralised User or Third-Party Applications (executable -- analog to /usr/bin)

Remote (distributed) File-system

/arch/dfs

RK2

/dapp/DeFi/ - Decentralised Financial Apps

Realisation

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

Support Tools

neo4.js - Graph Database

Common Use-cases

- transfer value-assets

Network Startup

\$wcsStart &

World Compensation System server (wcsc) running

Listening on port:280182

\$wcsStatus

Status: OK

Command, Services and Tools

mount - loads/unloads foreign WCS Networks

ls - show current Users in the Ecosystem

mv - allocate users in different sub-network

whoami -

ps - process

ping - ping

telnet - establish connection and echo server
mailto - use mail-alies to transfer transfer value-assets in the network

Application Notes

```
$whoami  
{0x123456:mstcroix:mstcroix@protonmail.com}
```

```
$pwd  
/
```

```
$ls  
/apps  
/commands  
/dapps  
/services  
/users
```

```
$ls /users  
/users/{0x123456:mstcroix:mstcroix@protonmail.com}  
/users/{0x423456:mstcroix:none}  
/users/{0x223456:anonymous:none}  
/users/{0x723456:mstcroix:mstcroix@protonmail.com}
```

```
$ps  
0 applications running
```

```
$/apps/App1 &  
$ps  
/apps/App1 running. 5 users connected
```

```
50fc328aad939c00fb848432a94943c9 ../arch/README.md 7f89788620a83eba0abeb61033a49fa7  
README.md d3777eb628218cf79d50e576d5c95bbd customer.md ca8f6611e7334b5878a412f6908fab36  
platform.md 481ff52c1fbf89a439c00b67399cc38e wcsOES.md 70a1947487f1741ee64cb109b8cddc82  
whitepaper.md ## 2020 (CC) Creative Common License 481ff52c1fbf89a439c00b67399cc38e  
wcsOES.md
```

```
bc9b4920af19ea249c5e51730a986a9a ../tools/README.md  
f92f6755c1f6c83858630cb4d4c419aa ../networking/README.md  
3582056e21f163e556a92a29f26da4bc ../GLOSSARY.md  
1d4ba0b4f97b65cb239ac157fa453df6 ../dapps/README.md  
ca8f6611e7334b5878a412f6908fab36 ../whitepaper/platform.md  
481ff52c1fbf89a439c00b67399cc38e ../whitepaper/wcsOES.md  
d3777eb628218cf79d50e576d5c95bbd ../whitepaper/customer.md  
aebdc95b6512adeec6a2ae8f6e2687e8 ../whitepaper/README.md  
70a1947487f1741ee64cb109b8cddc82 ../whitepaper/whitepaper.md
```


b85f6f905757b8a0d3f75430e13c47ad	../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
50fc328aad939c00fb848432a94943c9	../arch/README.md
4ae120d33503361b35768677302e8c75	../arch/fs/README.md
1c309bf14fbd49d5afcfac8da0635b5b	../users/README.md
41990a8f6b22e6e1b72009ca47b6ffc7	../commands/README.md
15fd8a06e94ecf5f079451536356171c	../apps/README.md
a3c6c1e9fbc0dd9e6723f73f7402b08a	../services/wcsServer/README.md
06ae6a9d35733170f372c50e1e6ed749	../services/README.md