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Code

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Insights

Branch: master hello-doug / deprecated_apps / dual_integration /

Create new fileUpload filesFind fileHistory

compleatang even cleaner Latest commit d919219 on Apr 30		
..		
contracts	even cleaner	3 months ago
images	even cleaner	3 months ago
scripts	even cleaner	3 months ago
views	even cleaner	3 months ago
.dockerignore	even cleaner	3 months ago
Dockerfile	even cleaner	3 months ago
README.md	even cleaner	3 months ago
accounts.json	even cleaner	3 months ago
app.js	even cleaner	3 months ago
dualintegrator.toml	even cleaner	3 months ago
epm.yaml	even cleaner	3 months ago
jobs_output.json	even cleaner	3 months ago
package.json	even cleaner	3 months ago

README.md

Dual Integration Example Application

Status: beta (ready for external testing)

Introduction

This is an example application for [dual integration](#), a conceptual linkage between a contract that is written in prose (and therefore can be taken to court) along with a contract that is written in code and runs on a smart contract compatible blockchain (hereinafter "chain").

The dual integration example takes a set of parameters and uses those to deploy a code contract from what is called a `factory contract`. Factory contracts are contracts which create other contracts and are used within smart contract compatible chains in a similar manner to how object oriented programmers utilize class definitions.

After the code contract is created via the set of parameters which are passed to the `factory contract` then the application leverages the excellent [CommonForm](#) document assembly mechanisms to create a template of the prose contract using the exact same parameters which were passed to the code contract as well as the addresses on the chain of the various entities and contracts.

Next the application sends the assembled prose contract to [Docusign's API Sandbox](#) for signature (to use this feature you will need to register for a docusign API key, more on that below).

Next the assembled package of contracts is sent to the [IPFS](#) distributed file storage system for p2p distribution of the files. The final step is registration of the immutable hash which IPFS utilizes in its [content addressable storage](#) system into the proper parameters of the code contract.

Screenshots

Index Page

Hello! I'm the marmot that demonstrates dual integration

Defaults for this Application

Party A's Address [09FF26A8609A36BAD869BB440DF558362C81FB2](#)
Party B's Address [71A6BF0BC513EEBF5DE2BB871749BABB3D15BA05](#)
Factory's Address [01F366C4FF017A79950A59042F3472090871D9E0](#)

Party's Keys

Make a New Code|Prose Contract Set

Name of Party A
Party A Email
Name of Party B
Party B Email
Number of Months

Input Parameters

Code Contracts That Exist

- [8DF7BFE4B1D76E3BA0BB0C1B0C1DC25D77FE78DA](#)
- [C391A39EE05FA01BB4CCB6D3025782EF63AAA350](#)
- [844E25F96D3CFE0D413E238B8ED2F5D4416476D5](#)
- [438C2493B1A9C1145E0D825FAD21D9A4440CF53B](#)

Code Contracts

Contract Details (without Docusign)

Key	Value
Code Contract's Address	64F88437F3AAC64EAA8A009A143C44221159A07E
Contract's Factory Address	8A899183B646B9BE829060ABA9A68C75BF04C908
Party A's Address	1AB86FE7239D2867D46DA39EA6E2205A85AA516C
Party B's Address	022971C4FDEA8CC6699E69C727D269C6F0512E27
Contract's Length	5 months
Contract's IPFSHash (Local IPFS)	Qmdk9zTVR2cjU3UAut4J5EHZVpwGnCu3mpScMXjTFz3Gb
Contract's IPFSHash (IPFS Gateway)	Qmdk9zTVR2cjU3UAut4J5EHZVpwGnCu3mpScMXjTFz3Gb

Code contract bits & bobs

IPFS Storage of Prose Contract

Contract's Prose:

Sample Dual Integrated Contract

Prose contract bits & bobs

Preamble

Length

This instrument shall last for 5 months.

Parties

ABI, Inc. (the *Seller* who has an email address of [*]) and Marmatoshi Nakaburrow (the *Buyer* who has an email address of marmatoshi@example.com) shall, subject to Length, enter into this contract.

Schedule A

Contract Address

This contract is tracked using "Smart Contract" technology, at the contract which is addressed at [64F88437F3AAC64EAA8A009A143C44221159A07E](#) on a blockchain network with the ID of [1AB86FE7239D2867D46DA39EA6E2205A85AA516C](#).

The contract was instantiated from a "factory" contract located at address: [8A899183B646B9BE829060ABA9A68C75BF04C908](#) on the same blockchain network.

Seller has the cryptographic keypair which results in the address of [1AB86FE7239D2867D46DA39EA6E2205A85AA516C](#).

Buyer has the cryptographic keypair which results in the address of [022971C4FDEA8CC6699E69C727D269C6F0512E27](#).

[Go Home](#)

Contract Details (with Docusign)

Key	Value
Code Contract's Address	C391A39EE05FA01BB4CCB6D3025782EF63AAA350
Contract's Factory Address	01F366C4FF017A79950A59042F3472090871D9E0
Party A's Address	09FF26A8609A36BAD869BB440DFF558362C81FB2
Party B's Address	71A6BF0BC513EEBF5DE2BB871749BABB3D15BA05
Contract's Length	5 months
Contract's IPFSHash (Local IPFS)	Qmb5TQs9rmHVX8MF37mkYQgtWF22Sidj7BPFTgkbEZw66L
Contract's IPFSHash (IPFS Gateway)	Qmb5TQs9rmHVX8MF37mkYQgtWF22Sidj7BPFTgkbEZw66L

Contract's Prose:

Qmb5TQs9rmHVX8MF37mkYQgtWF22Sidj7BPFTgkbEZw66L 1 / 1

DocuSign Envelope ID: 85760122-102C-4E28-8C3F-A2716E79E5D3

Sample Dual Integrated Contract

DEMONSTRATION DOCUMENT ONLY
 PROVIDED BY Docusign, INC. FOR TESTING PURPOSES ONLY. NOT FOR SIGNING SERVICE.
 Copyright © 2017 Docusign, Inc. All rights reserved. Washington 98101 • (206) 219-0200
www.docusign.com

Preamble

Length

This instrument shall last for 5 months.

Parties

ABI, Inc. (the *Seller* who has an email address of casey@erisindustries.com) and Marmatoshi Nakaburrow (the *Buyer* who has an email address of marmatoshi@example.com) shall, subject to Length, enter into this contract.

Schedule A

Contract Address

This contract is tracked using "Smart Contract" technology, at the contract which is addressed at C391A39EE05FA01BB4CCB6D3025782EF63AAA350 on a blockchain network with the ID of 09FF26A8609A36BAD869BB440DFF558362C81FB2.

The contract was instantiated from a "factory" contract located at address: 01F366C4FF017A79950A59042F3472090871D9E0 on the same blockchain network.

Seller has the cryptographic keypair which results in the address of 09FF26A8609A36BAD869BB440DFF558362C81FB2.

Buyer has the cryptographic keypair which results in the address of 71A6BF0BC513EEBF5DE2BB871749BABB3D15BA05.

DocuSigned by:
Marmatoshi Nakaburrow
E340CA8F530477...

- Note, this view uses a super slick way of embedding pdf documents right from their hash! See `views/contract.pug`.

DocuSign-ing

START

DocuSign Envelope ID: 95760522-1D2C-4E28-9C3F-A2716675655D

DEMONSTRATION DOCUMENT ONLY
PROVIDED BY DOCUSIGN ONLINE SIGNING SERVICE
1511 2017-01-17 10:00:00 AM • Seattle • Washington 98101 • (206) 219-0200
www.docusign.com

Sample Dual Integrated Contract

Preamble

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Buyer has the cryptographic keypair which results in the address of 71A6BF0BC513EEBF5DE2BB871749BABB3D15BA05.

Sign
↓

C391A39EE05FA01BB4CCB6D3025782EF63AAA350.pdf1 of 1

FINISH

What does this demonstrate?

This application demonstrates the proper integration of a piece of code which tracks a given relationship into the legal contract that provides the overarching legal framework for that relationship. This integration, when done

according to the proper legalities in the relevant jurisdiction(s) ensures that there is a clear distinction as well as integration of both the code and the prose contracts into each other.

Installation

First, ensure that you have [eris installed](#).

Second get this directory either from IPFS or via cloning this repository.

To get this directory from IPFS:

```
eris services start ipfs
eris files get QmexoM66S7TdoQ3E2Vp767Hbdy7UBwVZphgHPKXuwNQF4L -o dual_integrator
cd dual_integrator
```

Operate

A script which provides all the necessary functionality has been included in the root directory of this folder. If you downloaded the directory from IPFS then you will need to perform the following:

```
chmod -R +x scripts
```

If you cloned the repository from git then you will not need to do so.

Now start the application with:

```
scripts/run
```

Linux

Once the application has booted then go to <http://localhost:3000/> in your browser.

OSX

Once the application has booted then go to <http://IP:3000/> in your browser, where IP is the docker-machine IP of your `eris` machine.

Utilizing Docusign

If you would like to see the docusign API leveraged then you will need to [register for a Docusign Developer Sandbox and API Key](#).

Once you have those then change the `dualintegrator.toml` file in the appropriate lines for your user, password, and API key.

Once you have filled in those fields, then re-run the `scripts/run` script and you'll be good to go!

License

MIT (see repository root).

