



Madini Africa Madini TraceChain EA BlockChain Supply Chain Traceability

Bluegate Business Solutions LTD (Kenya) 2001 – www.bluegatebs.com
www.madinitracechain.com

One-stop app that connects producers with consumers and captures all value chain data from end to end. Empowering producers and building D2C models with blockchain.
Connect producers with consumers and capture all value chain data E2E
Enable African Enterprises to introduce and complete *Proof of Concepts* on Blockchain Efficiently.

Madini TraceChain is a platform that engages producers with consumers and enables them to gather and share data with the public via a QR code. All the information is encrypted and secured on VeChain blockchain, and is unforgeable and available worldwide.

VeChain powered

At Madini, we believe **VeChain Thor Blockchain** has the potential to powerfully disrupt many aspects of how businesses and economies work, even how societies are organised. Blockchain goes to the core of the role of trust in **African Products** – an area that is central to Madini purpose. This shapes the way we think through the challenges Africa faces – bringing together business acumen, user experience design, and existing and emerging technology.

We deliver blockchain solutions that reflect African specific business needs, and provide trust, transparency, and security. Together, we can differentiate your business and help you set the stage for future growth.

Fast and safe trade

As a pioneer in transparent trade value chains, Madini TraceChain aims to empower African producers by establishing a direct market linkage facilitation to incentivize regeneration, from soil to economy to society at large with a powerful transparency application.

Powered by Bluegate, the TraceChain application collects and uploads authentic product information onto the VeChainThor Blockchain, This enables a traceable, visible, and transparent digital marketplace for the African market, which allows for producers, processors, packers, distributors, brands and other added-value stakeholders to publicly list Organization and Product profiles to access global markets.

A force for the good

Many projects leverage blockchain to increase supply chain transparency and detect operational inefficiencies as well as new business opportunities. However, few of them are as impact driven as TraceChain. In addition to private corporations, Bluegate works with governmental organisations and NGOs to have a positive social impact and empower underserved producers.

At Bluegate, we believe VeChain has the potential to powerfully disrupt many aspects of how African Markets work, and provide trust, transparency, and security to the supply chain. This includes artisans and small-scale farmers being part of our inclusive value chain that underpin human health, well being, livelihoods, jobs and sustainable growth.

Madini TraceChain system is about sustainability, quality, authenticity, fairness, ecological footprint, origin and provenance, safety and traceability. Then the company must gather evidence from their supply chain of the performance for the characteristics chosen, proof of actions by people and machines, documents such as certificates, licenses or chemical analysis and collecting or importing data from production systems (ERPs).

Madini TraceChain, a blockchain-enabled trade solution can help African companies exploit value via data generated by their own business. The immutable data on the blockchain enables companies to increase the efficiency of compliance review, government supervision, logistics and supplier evaluation and more. Companies will also gain access to world leading third-party services through Bluegate partner network, greatly reducing the cost of certification, audit, insurance or supply chain logistic services.

Bluegate now has specialization in products traceability based on accumulated know-how and refined technology. Joining hands with other strategic partners on this platform, Madini TraceChain aims to expand the business globally to address business needs of more enterprises in the African industry.

Bluegate Blockchain

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Madini and VeChain

VeChain Thor BlockChain (the BlockChain used in **Madini Ecosystem**) is a hybrid digital protocol designed to be flexible, adaptable, accessible and lightweight, with a focus on solving real world economic problems. Madini Africa, a startup focusing on supply chain management, has been deploying blockchain technology to record the detailed history of products in order to provide a quick and easy way for consumers and relevant parties to verify their authenticity. Meta-transaction features native to Madini blockchain's core protocol, such as multi-party payment, multi-task transaction, controllable transaction lifecycle, transaction dependency, make the development more user-friendly for enterprise adoption.

Enhance Sustainability, Traceability, Trust, Brand Image And Consumer Confidence On African Products.

BlockChain Decentralization is a key to the technology and facilitates peer-to-peer exchange of information. This ensures high security, speed, reliability and transparency in all the transactions,

and full supply chain traceability and regulation using **Bluegate** hybrid technology Madini TraceChain will deliver blockchain solutions that reflect **African specific business needs, and provide trust, transparency, and security, to expand our mineral's trade overseas.** Together, we can differentiate your business and help you set the stage for future growth.

3 Ways traceability can fulfill the sustainability promise

Stakeholders are demanding sustainability throughout the supply chain. Businesses must invest in digital traceability tools to create circular supply chains. Cross-sector collaboration is key to making the 'digital thread' of traceability standard practice.

Customer satisfaction has always depended on supply chains. Yet now they must do more than simply deliver the product that customers want, when they want it. Today's supply chains must also deliver on a brand promise: sustainability.

Across business-to-business and business-to-consumer industries, customers, investors, employees and regulators are demanding more sustainable products and production.

Bluegate TraceChain system is about sustainability, quality, authenticity, fairness, ecological footprint, origin and provenance, safety and traceability. Then the company must gather evidence from their supply chain of the performance for the characteristics chosen, such as proof of actions by people and machines, documents such as certificates, licenses or chemical analysis and collecting or importing data from production systems (ERPs).

TRUST

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PROOF OF CONCEPT

Enable African Enterprises to Introduce and Complete Blockchain Proof-of-concepts Efficiently.

SUPPLY CHAIN

Facilitate Large-scale Blockchainization of Supply Chain in Africa In a Fast And Cost-effective Way.

VECHAIN

Unleash New Business Value By Data On Blockchain Platform

How it works

With Madini TraceChain you can easily upload your product descriptions, attributes, photos, certificates, documents and videos to the VeChainThor blockchain.

When the upload is completed, the system will generate an unique QR code assigned to your product. You will also be able to see the transaction (TX) ids that your business has generated, giving you a full overview of the number of TXs that your products have produced across the product's journey.

OPEN

There's no need of a special APP or device to read your QR codes and verify your products. Any QR reader installed on your phone will detect and show the traceability information

PROFITABLE

Traceability has become an essential task for producers and exporters, Supplying adequate quality and safety assurance open new markets and adds value to your products.

AVAILABLE

the entire story of your product including proof of authenticity and origin, all in a consumer friendly interface worldwide

STABLE AFFORDABLE

VeChainThor provides security, scalability and, more importantly, affordability. Madini dApps running on VeChainThor are guaranteed stable and predictable fees.

Sustainability is profitability

The operational implication is that companies must be able to see everything in their supply chains, trace where it came from, and trace where it went: from the smallest raw material inputs to finished products. Increasingly across industries, true sustainability also means companies must know what happens to their products beyond the point of sale. That redefines—or at least stretches—the current mission for many leaders overseeing supply chain design and management. It also demonstrates why viewing products through the customer's eyes can be an important guide to determining how supply chains must evolve.

Upstream visibility for sustainable inputs

Digital tracing technologies allow manufacturers and brands to shine a light on previously opaque supply networks. Their upstream suppliers play a critical role here, since they know the provenance of inputs and materials.

Downstream visibility to enable reverse logistics

Digitally tracing products after the point of sale—often referred to as a ‘digital thread’ that follows a product throughout its lifecycle—opens up opportunities for new service business models and allows manufacturers to proactively manage a product's end of life through remanufacturing or recycling.

Product authentication to promote reuse

Digital verification technologies increase consumer trust and extend the life of products, but can also align the interests of brands and secondary marketplaces that have historically had limited reasons to collaborate and share data.

Technical Requirements To Run Madini TraceChain:

- Python 3.8 (Flask)
- VPS / Server.
- Sqlite Database.
- VET Wallet address with VTHO.

- VIP 190

More Information

- <https://www.madinitracechain.com/>

- <https://www.madiniafricainvest.com/>

How Madini TraceChain Works.

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that your products have produced accross the product's journey.

The hash generated by the Vechain Thor blockchain is used as unique reference number for the product or mineral. This is a very imortant step as the consumer can always verify the authenticity of the product or mineral as the hash linked to it cannot be changed.

Screenshots showing how Madini TraceChain Works

1.Product Identification such as product name,description and other attributes.


The screenshot displays the 'Stage I of Product Identification' form. It features a grid of input fields for product details. On the left side, there are fields for 'SKU Code' (labeled with a red asterisk and 'SKU'), 'Write Description' (with a red asterisk and 'Write Description'), a 'Type' dropdown menu (labeled with a red asterisk and 'Type'), 'Shape' (labeled with a red asterisk and 'Shape'), 'Cut' (labeled with a red asterisk and 'Cut'), and 'Color' (labeled with a red asterisk and 'Color'). On the right side, there are fields for 'Product Name' (labeled with a red asterisk and 'Product Name'), 'Upload Image' (labeled with a red asterisk and 'Upload Image', including a 'Browse...' button and a '+ UPLOAD' button), 'Clarity' (labeled with a red asterisk and 'Clarity'), 'Category' (labeled with a red asterisk and 'Category'), and 'Carats' (labeled with a red asterisk and 'Carats'). A blue 'Create' button is located at the bottom left of the form.

2.Product Details submitted to the blockchain.

SKU	Project Name	Actions
0-57-carats-bvv-pear-shaped-loose-stone	0-57-carats-bvv-pear-shaped-loose-stone	Enter

[Back](#)

3. QR Code generated as a result of the data submitted to the blockchain.


[Scan the QR code](#)

SKU

0-57-carats-bvv-pear-shaped-loose-stone


Product Name


0-57-carats-bvv-pear-shaped-loose-stone

Write Description

Tanzanite is a trade name that was first used by Tiffany and Company for gem-quality specimens of a mineral named zoisite with a blue color. Tiffany could have sold the material under the mineralogical name of "blue zoisite," but they thought the name "tanzanite" would stimulate customer interest and be easier to market. The name "tanzanite" was given because the world's only known tanzanite deposit of commercial importance is in northern Tanzania. The name reflects the gem's limited geographic origin. The mines are all located in an area of about eight square miles in the Merelani Hills, near the base of Mount Kilimanjaro and the city of Arusha. Carat(ct) is the term used to measure the tanzanite's weight. One carat has 100 points and weighs

Main Image




Blockchain Transactions Powered by Vechain Thor 0x76ec3df4e420917d3957241cf5d4fd5801c3c61a4b4b1319f868e731d1020c8c

[Explore](#)

Powered by Vechain Thor

More Information that adds more traceability information to Tracechain that include PDF files such as certificates, images and Map.



Place of Origin: Mt Kilimanjaro and Meru, Tanzania



Map showing location and the place of origin of the product.

TXS generated by the Traceability Process showing the product is in the blockchain and is verified.

Validated data is added to the Tracechain and its hash is generated and uploaded to the VeChain Thor Blockchain. Qr code is

generated immediately the data hash is sent to the VeChain blockchain .

Steps to Upload and view traceability information.

- Fill in the required data fields in the form as shown in the screenshots.
- Press on the create button to upload and hash the data to the blockchain.
- Click on the enter action button to view the details of the whole process and to have a view of the QR code generated, for the QR there's no need of a special APP or device to read your QR codes and verify your products. Any QR reader installed on your phone will detect and show the traceability information



Tanzania Cumin



Description

Tanzania cumin (*Cuminum cyminum*) is a herb that prefers dry areas. With an origin in the East African subcontinent and the Middle-east, this plant has the highest iron levels at about three-and-a-half times the daily requirements. In appearance, the plant has a height of at least 0.3 meters. Its greyish stem has small flowers that are cream or pinkish-colored. The plant has small fruits or pods that are only five millimeters long. Each pod has a single seed inside. The extraction of the seed takes place through sun drying. After

More information



We provide high quality products to the local and export markets. We source raw fresh vegetables and spices from local farmers with sustainable farming.



Our farmers growing vegetables and spices.



Location and Map Information

Place of Origin: Mt Kilimanjaro and Meru



Blockchain Transactions



Blockchain Transactions For Images and

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PRODUCT HAS BEEN VERIFIED.

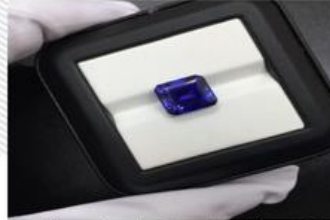
ails
2340de3bb2bbf2e3db4c92a2d42e9b8c7d6f1d2eaedb378c
450a7cfafa9

MORE INFORMATION

Powered by Vechain Thor



Emerald Cut Tanzanite Gemstone : 8.45 carats

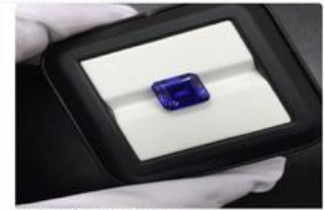


Beautiful square "emerald cut" tanzanite of 8.45 carats. The unique look of the emerald cut tanzanite is created by the step cuts of its pavilion and its large, open table. The shape was originally developed for the cutting of emeralds, thus the name. While less fiery than a more common round or oval brilliant cut, the long lines and dramatic flashes of light give the emerald cut an elegant appeal. Emerald cuts need to have flawless clarity and rich color – and this one has both. Rich blue with a violet aura – this is the color that sapphire wishes it could be. What a stunner! Stone Details: Weight: 8.45 Ct. Shape: Emerald cut. Treatment: None. Dimensions: 11.5 x 10.5 x 8.2 mm. Colour Intensity: Exceptional. Clarity: Eye Clean.

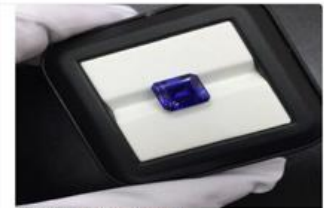
More information



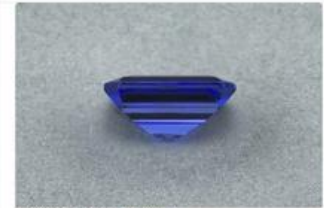
More information



Emerald_.jpeg Explore Blockchain



Emerald_.jpeg Explore Blockchain



Emerald.jpg Explore Blockchain



labresult_.pdf Explore Blockchain



Miner_Trading_License.pdf Explore Blockchain

Location and Map Information

Place of Origin: Tanzania



Blockchain Transactions



Blockchain Transactions



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Transparency across the entire process

The Secret of Success

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Madini MDN Token

MDN VIP180 is the *Madini utility token* in our ecosystem

Madini (MDN) is one of the first platforms built exclusively to cater to the needs of Africa enterprise-level clientele on BlockChain. We seek to improve supply chain in Africa and product lifecycle management through the use of distributed ledger technology (DLT). Importantly, the platform offers users a variety of new functionalities that make it ideal for businesses seeking to enhance supply chain protocols and business processes.

VeChain provides Madini Ecosystem the ability to track an enormous amount of data. These indicators can include items such as quality, authenticity, traceability, and transportation status. Madini, using VeChain, provides African Mineral enterprises all of these features via a trust-free and distributed business ecosystem. In this way, we reduce overhead and improves accountability.

MDN smart contract is build as VIP180 VeChain token. With full usability in Madini Ecosystem, anyone can earn, trade, transfer, pay, receive and invest in Madini MDN. MDN utility token main purpose is paying the services of traceability and is used for the purchases/selling of the minerals/metals. As every stakeholder of the marketplace will have a VeChain wallet, MDN will be used as Trading fee and also as payment option for the minerals. We have created a VeChain Thor – Madini Wallet (Android) to facilitate the Token management and allow the general public to invest, transfer and trade the MDN/VET/VTHO tokens.

MDN – Main token MDN – Main value: adoption and utility (MDN is linked to all the Madini products, main CC for the Madini Wallet and the Madini Marketplace)

Initial Value 0,01 USD (Aprox 1 KSH)

Total supply: 100,000,000

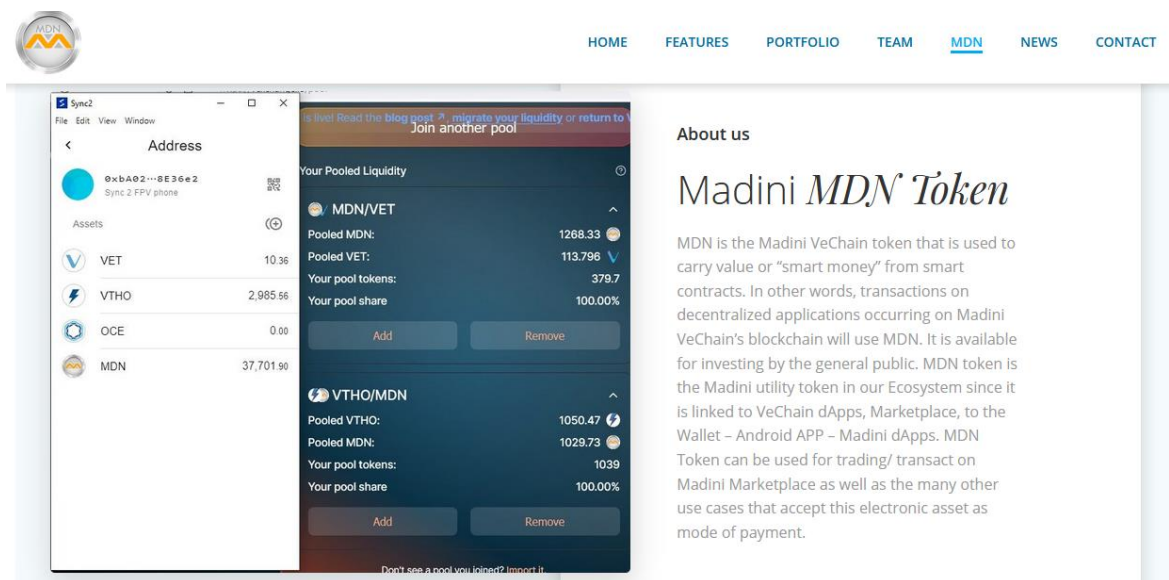
MDN Decimal positions: 18

Contract : <https://explore.vechain.org/accounts/0x1b44a9718e12031530604137f854160759677192>

Madini Wallet Link: <https://www.madiniafricainvest.com/apk/MadiniWallet.apk>

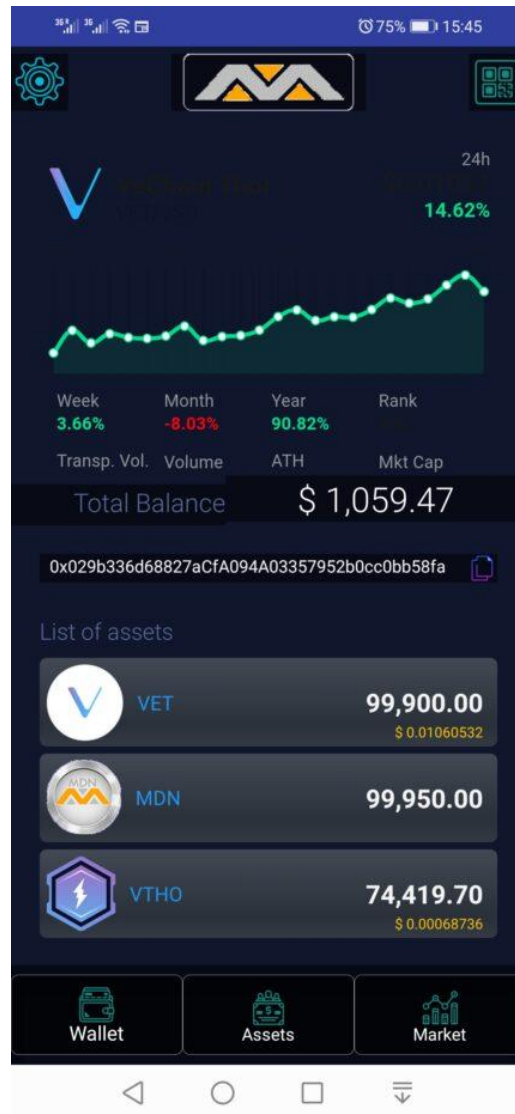
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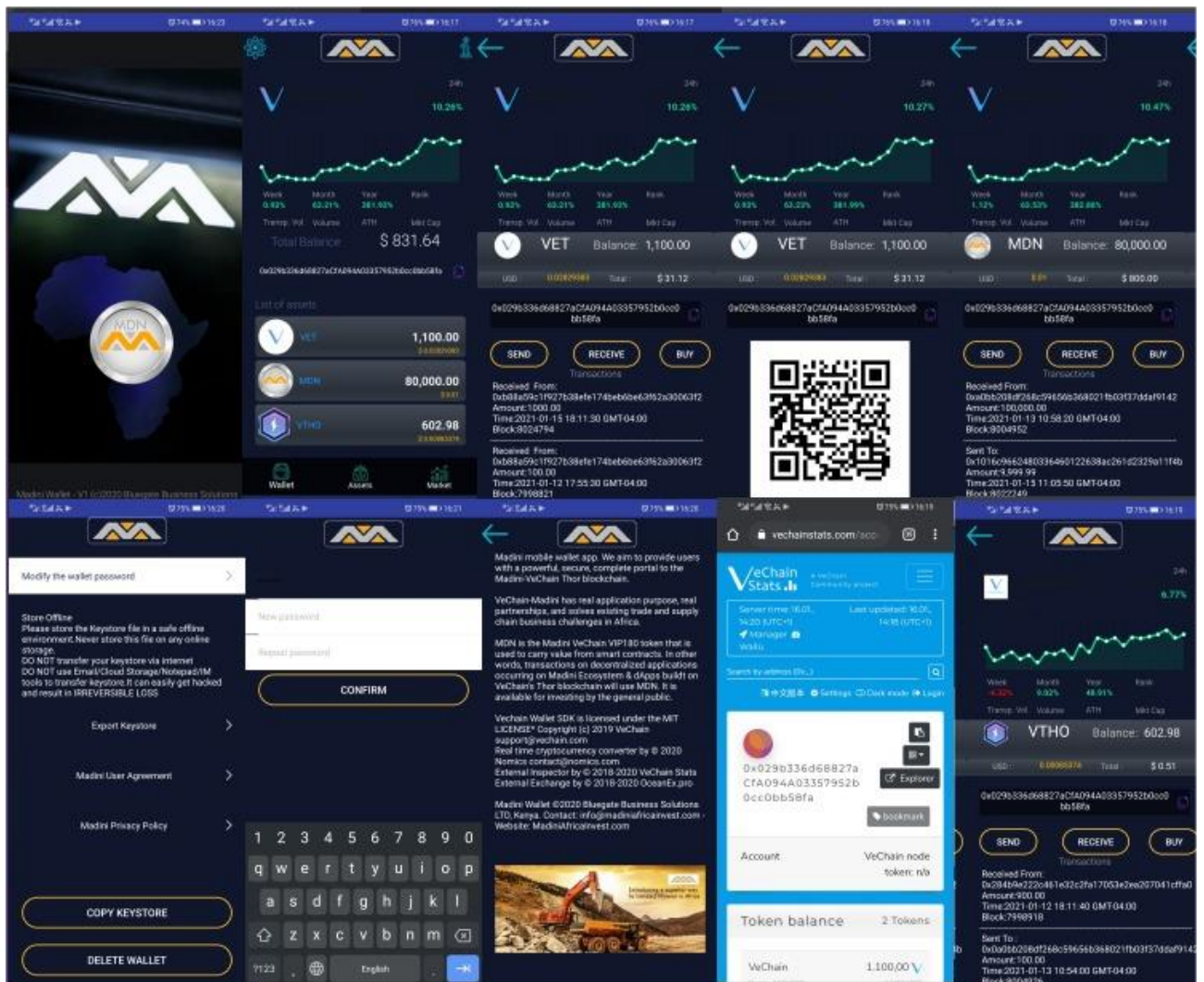
<https://github.com/Bluegate-BS/token-registry>

Madini VeChain Thor Wallet



Madini Wallet is a light mobile wallet app based on VeChainThor. We have forked VeChain github original code to build Madini Wallet specific features and completely change the design and usability in Java. We aim to provide users with a powerful, secure, simple, fully functional portal of the Madini VeChainThor blockchain.

Main functions include: MDN, VET, VTHO and other Crypto assets management, Balance, Exchange using Nomics API, Graph, Blockchain Inspector to check your transactions status, wallet observation, reward claim, etc.



<https://github.com/Bluegate-BS/MadiniWallet>

MDN Mainnet Contract (.sol)

MDN Mainnet Contract (.sol)

```
pragma solidity ^0.4.24;
```

// -----

```
//Madini Mainnet Token
```

```
// Deployed to owner : 0xa0bb208df268c59656b368021fb03f37ddaf9142
```

```
// Symbol : MDN
```

```
// Name : Madini
```

```
// Total supply: 1000000000000000000000000000
```

```
// Decimals : 18
```

// _____

```
// Safe maths
```

// -----

```
contract SafeMath {
```

```
function safeAdd(uint a, uint b) public pure returns (uint c) {
```

```
c = a + b;
```

```
require(c >= a);
```

}

```
function safeSub(uint a, uint b) public pure returns (uint c) {
```

```
require(b <= a);
```

```
c = a - b;
```

$$\}$$

```
function safeMul(uint a, uint b) public pure returns (uint c) {
```

```
c = a * b;
```

```
require(a == 0 || c / a == b);
```

}

```
function safeDiv(uint a, uint b) public pure returns (uint c) {
```

```
require(b > 0);
```

```
c = a / b;
```

```

    }
}

// -----

// Token Standard Interface

// -----

contract TokenInterface {

    function totalSupply() public constant returns (uint);

    function balanceOf(address tokenOwner) public constant returns (uint balance);

    function allowance(address tokenOwner, address spender) public constant returns (uint remaining);

    function transfer(address to, uint tokens) public returns (bool success);

    function approve(address spender, uint tokens) public returns (bool success);

    function transferFrom(address from, address to, uint tokens) public returns (bool success);

    event Transfer(address indexed from, address indexed to, uint tokens);

    event Approval(address indexed tokenOwner, address indexed spender, uint tokens);

}

// -----

// Contract function to receive approval and execute function in one call

// -----

contract ApproveAndCallFallBack {

    function receiveApproval(address from, uint256 tokens, address token, bytes data) public;

}

// -----

// Owned contract

// -----

contract Owned {

    address public owner;

    address public newOwner;

    event OwnershipTransferred(address indexed _from, address indexed _to);

    constructor() public {

        owner = msg.sender;
    }
}

```

```

    }

    modifier onlyOwner {
        require(msg.sender == owner);
        _;
    }

    function transferOwnership(address _newOwner) public onlyOwner {
        newOwner = _newOwner;
    }

    function acceptOwnership() public {
        require(msg.sender == newOwner);
        emit OwnershipTransferred(owner, newOwner);
        owner = newOwner;
        newOwner = address(0);
    }
}

// -----
// Token, with the addition of symbol, name and decimals and assisted
// token transfers
// -----

contract SimpleToken is TokenInterface, Owned, SafeMath {
    string public symbol;
    string public name;
    uint8 public decimals;
    uint public _totalSupply;
    mapping(address => uint) balances;
    mapping(address => mapping(address => uint)) allowed;

    // -----
    // Constructor
    // -----

    constructor() public {

```

```
symbol = "MDN";  
name = "Madini";  
decimals = 18;  
_totalSupply = 100000000000000000000000000000000;  
balances[0xa0Bb208DF268C59656B368021Fb03F37dDAf9142] = _totalSupply;  
emit Transfer(address(0), 0xa0Bb208DF268C59656B368021Fb03F37dDAf9142, _totalSupply);  
}  
  
// -----  
// Total supply  
// -----  
  
function totalSupply() public constant returns (uint) {  
    return _totalSupply - balances[address(0)];  
}  
  
// -----  
// Get the token balance for account tokenOwner  
// -----  
  
function balanceOf(address tokenOwner) public constant returns (uint balance) {  
    return balances[tokenOwner];  
}  
  
// -----  
// Transfer the balance from token owner's account to to account  
// - Owner's account must have sufficient balance to transfer  
// - 0 value transfers are allowed  
// -----  
  
function transfer(address to, uint tokens) public returns (bool success) {  
    balances[msg.sender] = safeSub(balances[msg.sender], tokens);  
    balances[to] = safeAdd(balances[to], tokens);  
    emit Transfer(msg.sender, to, tokens);  
    return true;  
}
```



```

// -----
// Token owner can approve for spender to transferFrom(...) tokens
// from the token owner's account
// -----
function approve(address spender, uint tokens) public returns (bool success) {
    allowed[msg.sender][spender] = tokens;
    emit Approval(msg.sender, spender, tokens);
    return true;
}
// -----
// Transfer tokens from the from account to the to account
//
// The calling account must already have sufficient tokens approve(...)-d
// for spending from the from account and
// - From account must have sufficient balance to transfer
// - Spender must have sufficient allowance to transfer
// - 0 value transfers are allowed
// -----
function transferFrom(address from, address to, uint tokens) public returns (bool success) {
    balances[from] = safeSub(balances[from], tokens);
    allowed[from][msg.sender] = safeSub(allowed[from][msg.sender], tokens);
    balances[to] = safeAdd(balances[to], tokens);
    emit Transfer(from, to, tokens);
    return true;
}
// -----
// Returns the amount of tokens approved by the owner that can be
// transferred to the spender's account
// -----

```

```

function allowance(address tokenOwner, address spender) public constant returns (uint remaining)
{
    return allowed[tokenOwner][spender];
}

// -----

// Token owner can approve for spender to transferFrom(...) tokens
// from the token owner's account. The spender contract function
// receiveApproval(...) is then executed
// -----

function approveAndCall(address spender, uint tokens, bytes data) public returns (bool success) {
    allowed[msg.sender][spender] = tokens;
    emit Approval(msg.sender, spender, tokens);
    ApproveAndCallFallBack(spender).receiveApproval(msg.sender, tokens, this, data);
    return true;
}

// -----

// Don't accept ETH
// -----

function () public payable {
    revert();
}

// -----

// Owner can transfer out any accidentally sent ERC20 tokens
// -----

function transferAnyERC20Token(address tokenAddress, uint tokens) public onlyOwner returns
(bool success) {
    return TokenInterface(tokenAddress).transfer(owner, tokens);
}
}

```

