Using Ethereum Tokens (Sample ERC-721)

Security Token



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Welcome to Ethereum use, simple steps to interact with an ERC-721 token as Security Token

These pictures will show you how to Use Ethereum as a Blockchain Record for some simple data store. The data will be limited however using the Complete World Wide Web in conjunction with Ethereum blockchain can unlock a bigger Potential Use of Security Tokens on Ethereum!

Lets Get Started



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The First thing to get used to Using will be Etherscan.io <u>https://etherscan.io/</u>

Then you need MetaMask (this is an extension for your Web Browser) this extension will be the interaction between your Wallet and the Ethereum service that will post your Transactions on Ethereum BlockChain. <u>https://metamask.io/</u>

Go Now and Download this to your Browser, or you can alternatively Use MyEtherWallet <u>https://www.myetherwallet.com/</u> or any other Wallet interface. However for the purpose of this Instructional Book we will focus on MetaMask and less on MEW. Please Consider the Safety of your Private Keys (like the Keys to your Living Space).

Now some Questions, you may be having; What is Ethereum, why do I need MetaMask or a Wallet? What is a wallet and how is BlockChain securing my transactions or informations? To what end or purpose do we overall achieve by use of Ethereum or any other Smart Contract Blockchain platform?

With some Luck you have already an Idea or several ideas why and how to answer these questions. Follow along as I explain with Lots of Pictures the Step by Step in Use of a Security type Token based on ERC-721. The apparent use of Public Blockchains is increasing at an exponential rate through our Global Economy and Globally Connected World and Working Spaces.



Here is a Picture of an example wallet, you will have a Public Address that is viewable from Etherscan.io or any other type of Ethereum Block explorer. This address will contain all transactions related to it, incoming and outgoing transactions. The outgoing or signature type transactions will require the PRIVATE KEY and of course this one is not PRIVATE. The concept behind this private key is that it is complex enough that no possible hack of the randomness is relatively easy to accomplish. This however does not Mean that You as the holder of this key are not the only one who has access, / unless you are extremely careful during your KEY Generation. (always generate keys from off line devices) never allow keys to go online. Any time that a private key is entered into a space, it must be acknowledged that the space now has full access to your key. For example MetaMask extension on your Browser. In the coming examples we will see how to import a key! Never Share your Private Keys Unless Intended to.

Each wallet address will contain our Ethereum (which is used to pay for Gas) and our Tokens of various formats **ERC-20** (Fungibles) caveat /Kinda), **ERC-721** (NFT or Non Fungibles) like Serial Numbered items, as well other formats ERC 1400 "Security Token Format", and new **Smart Contract Standards** are developing almost daily. That is all the ERC is really a Smart Contract and a World Wide adopted format for its standard use and application on the Ethereum Virtual Machine with like Contracts. The Private key is needed to verify the correct owner is allowed to make any transactions with this Public address.

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Address 0x8240623905986A489c060FCd9b712E277920f4f4 0 #	Buy - Exch	ange 🗸 Earn Interest 🗸	Crypto Credit 🗸
Sponsored: 👷 Up to 40 ETH bonus. Fast payouts in BTC, ETH, and more. Play & win on F	airspin.		
Overview	More Info		• i
Balance: 0 Ether	⑦ My Name Tag: Not Available, lo	gin to update	
Ether Value: \$0.00			
Transactions Analytics Comments			
Txn Hash Block Age From T	To T Value	[Txn Fee]	
There are no matching entries			

As seen on Etherscan the Address PUBLIC can View. We can perhaps see some transactions as well.

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The first ERC-20 has been deposited into the address as you can see 1.307 HEX tokens are now available (owned) in this address.

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D Etherscan		etaMask while using EVM on Various options are availble.	All Filters V Search			Log out
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Once you have MetaMask, will look like such.

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0xfc7f2bbad05fc855	9501397 1	day 5 hrs ago	0xf6df75c855e9807		IN ☐ 0x73cc4	407fbae89d	6	0 Ether	0.00453355	18

This example is showing importing a private key into your MetaMask extension. Then that wallet is also now available to use with MetaMask. Next Pictures will be examples of various things within a Wallet or Contract Address as well. Due to the nature of Ethereum Virtual Machine each Smart Contract will also have a unique Address. The control function of the Address or Smart Contract is then pre-Programmed into the Contract "Code".

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This is the contract Address, it is Similar to our Public Address, however it does not have a Private Key that is used to make Transactions. The Smart Contract has all codes programmed into it for its entire Life on Ethereum.

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Contract Overview			More Info			*	• 1
Balance:	0 Ether		⑦ My Name Tag:	Not Available, login t	o update		
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Code Read Contrac	t Write Contract				
Read Contract morn	allon				[Reset]
1. supportsInterface					¥
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This is how to Interact with the READ function of This Contract.

14. symbol_	\mathbf{v}
AVVIS straing	
15. getTokenData	¥
tokenld (uint256) 8	
°	
Query	
Liscence string, URL string	
[getTokenData method Response]	
» Liscence string:	
» URL string:	
16. arrayOfTokensByAddress	¥
holder (address)	
_holder (address)	

This particular Token Contract has a getTokenData function. This function is specific to this Smart Contract.

4. symbol_	4
WNS string	
5. getTokenData	¥
tokenld (uint256)	
3	
Query	
Liscence string, URL string	
getTokenData method Response] » Liscence string: Transport Malta, Part 66 AML: # MT.66.0147, Holder. Isaac Hall, Initial Issue: 27 Apr 2012 (http://www.transport.gov.mt/aviation/civil-aviation-directorat » URL string: https://imgur.com/6EOCaVf, https://imgur.com/80eowzo	e)
6. arrayOfTokensByAddress	÷
holder (address)	
holder (address)	
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The Data that is Displayed for reference when executing the READ function of getTokenData. As this Smart Contract is able to perform. Not all Smart Contracts are written for the same purposes and will have specific functions within each.

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Contract Overview			More Info		× •
Balance:	0 Ether		⑦ My Name Tag:	Not Available, login to update	
Ether Value:	\$0.00		Contract Creator:	0x9de75e30a6bfb9f at txn 0xa5311ea04	041d0
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Write Contract C	Ionnect to Web3				[Reset]
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1. approve					

WRITE function. Again each contract on Ethereum are usually different from each other Specifically with the WRITE function and abilities.

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Code Read Cor	ntract Write Contrac	r I	2/	18/2020 at 09:37	
Write Contract					0.01307 ETH -\$3.71 USI
1. approve					

Write functions require GAS or Ethereum in small amounts to pay the miners to perform the Write Transactions. Each Transaction that is performed will be stored in Ethereum, either Failed or Success.

_to (addre	ss)	
_tokenId (uin	1256)	
_tokenid (uint256)	
Write	This is where we will add our information to display. We can modify these in the Main Contract to provide various Fields of imput.	
2. addTokenD	ata	Ŷ
_tokenId (uin	1256)	
8		
_liscence (str	ing)	
Enter what	ever Data we Want in here	
_URL (string)		
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Write		
3. transferFrom	n	¥
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5 283518	Here we see the Gas fee, and Total price to transact our information to the Blockchain.				
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This is when we confirm the Write Transaction from our Private Address to the specified Smart Contract.

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Completed Write functions will have tx data that is viewable at any time after Confirmation on a Block.

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	This area gives us a Complete list of all 1 "Certificate" holders	oken		
Transfers Holders I entory Info Read Cont	act Write Contract Comments			٩
C Token Holdens Chart	well each token will need to be made ir "Certificate" when we addTokenData to			
A total of 8 token holders			First ¢ Page 1 of 1	> Last
Rank Address		Quantity	Percentage	
1 0x9de75e30a6bfb9f5fc8ef14d70e4c0d2bcf67f72		2	22.2222%	
2 0x1de023d0d9353d3f3d087936a7e9178a48eca531	Identity tokens can be	1	11.1111%	
3 🖹 Identity Hub Token	added to our Prototype the technical side is not ready	1	11.1111%	
4 0x2bb8dd0d9c678c9d6fa244c53eb87e42f75adf99	from a collaborated standing , (as I am aware)	1	11.1111%	
5 Binance 1	19.02.20	1	11.1111%	
6 0x8b4457b22ac5859ec407aec944a445475a3792e7		1	11.1111%	
7 Crypto Bonus Miles: CBM Token	riends over at	1	11.1111%	
8 Aeron Token Aero		1	11,1111%	

Some features of the Smart Contract.

eschlagene Sites 🛛 🕎 Jobs			Main Ethereum Network	🛛 📙 Other bo
_tokenia (umizoo)			→ Ox882584	
Write	an Attempt to addTokenData, we will see if this person is able to, All the permisions must be programmed into the	AVNS Mana (
	Smart contract code from the beginng before	♦0		
2. addTokenData	deployment of the code to the chain These	VV		4
_tokenId (uint256)	permissions can only change if you preprogram that as an option.	\$0.00		
9	all about SmartContract design Who can do	DETAILS DATA		
_liscence (string)	What Why When and How is pre-Determined!		EDIT	
0x29F20242051AccD	A50D52a7E272A5F23237e4696	GAS FEE	♦0.00193	gas limit variable
_URL (string)		Gas Price (GWEI)	\$0.54	depends on amount of Data to tx and speed of
https://etherscan.io/ad	ldress/0x29f20242051accda50d52a7e272a5f23237e4696	5	386091	tx,
Write			AMOUNT + GAS FEE	Even if tx fails, Gas Eth i spent to perform failing transactions
		TOTAL	♦ 0.00193	transactions
		TUTAL		
3. transferFrom		-	\$0.54	4
_from (address)				
_from (address)		Reject	Confirm	

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Various reasons for failed Transactions, GAS was to low, Smart Contract rejected,

chlagene Sites 🧧 Jobs	a mapsi//a	therscan.io/address/0x8	02302001024010	20012401443	.cz35488596849	6#WIIteContra	ict	VP 🖓		
_tokeniu (umt256)		here the tran	nsaction failed t	o Process, a	all the details a	re recorded				
white		This case is b	ecause AVNS to	oken holder	s are given the	permission	to add the Data			1
2. addTokenData			manager could act design consi		permission or b	e the only o	ne with permissic	on, this is a	ų	
tokenId (uint256)										
9										1
liscence (string)										1
0x29F20242051AccDA	.50D52a7E272	2A5F23237e4696								1
_URL (string)										1
	lress/0x29f202	242051accda50d52a7e27	2a5f23237e4696							1
00000000000000000000000000000000000000	00000000000000000000000000000000000000	sUsed": 4939240, "from": 000000000000000000000000000000000000	00000000000000000000000000000000000000	000000000000 00000000000 0000000000000	00000000000000000000000000000000000000	0000000000000 0000000000000 0000000000	00000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	
3. transferFrom									4	
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tass using the second sec		stherscan.io/address/0x8		.cc50f2a614a	1c2354aa59e84	96				0
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chlagene Sites 🗤 Jobs	https://e \$0.00	etherscan.io/address/0x8	3825026b162401 *	.cc50f2a614a	1c2354aa59e84 commer orean Token Tracker:	96	AviationSecurity Failed Transa the Certificat Token ID 9 be	/Token (AVNS)	ecorded ecorded to these requesting	ne
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The Smart Contract as well as your Wallet Addresses both record failed events.

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Eth: \$279.60 (+5.58%)			Hom	e Blockchain -	Tokens 🖌	Resources - N	More - O Sig	in In
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Feature Tip: Track hist	orical data points of any address	with the analytics mod	ule !					
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⑦ Transaction Fee:	0.00012	7405 Ether (\$0.04)						
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Smart Contract Source Code

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Interaction with Smart Contract via MEW instead of EtherScan

MEW		Buy ETH	Info 🝷	Transaction History	Engli Engli	ish - 🗘 🥃
					Q Search	
Contract Interact with Contract	^	Read / Write Contract			KICK	888888
Deploy Contract		Contract Address: 0x73cC407fbAE89D69F20Cf15D51aA98171DC5703C	mint	~	ROCK2 cETH	307 11.09863271
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MyEtherWallet is just one more method of Using your Wallet

C 🛛	A https://etherscan.io	/address/0x4ddc2d193948926d0	2f9b1fe9e1c	laa0718270ed5#tokentxn	sErc721	○ [®] ∆ [®]	◎ ₩ ▲ □ Other bool
Contract 0x4Ddc		E9e1daa0718270ED5 @	80 88		В	ay 👻 Earn Interest	✓ Crypto Credit ✓
Sponsored: AMFEIX -	INVEST WITH AMFEIX (45%	6+ Estimated APR). Check it out o	n AMFEIX.co	m.			
Contract Overview		Compound Ether	8 Mo	ore Info			2 • I
Balance:	486,714.60550822483	32531415 Ether	0	My Name Tag:	Not Available, login t	o update	
Ether Value:	\$127,095,784.94 (@ \$	261.13/ETH)	Co	ntract Creator:	0xa7ff0d561cd15ed	at txn 0xe60e30c7	7131f043 the new 721 Token
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Ľ	sts of all Token Transactio	ns associated with this contract a	Idress				
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0xc96926e9bd9f207	20 mins ago	0×00000000000000000	IN	Compound Ether	48	O SecurityFund.	(SFT)

Back to the EtherScan we are viewing some Tokens in the Contract Address

lagene Sites 🔟 Jobs	MetaMask Notification
tokenId (uint256)	Main Ethereum Network
_tokenld (uint266)	- 🜙 shared with 🔶 🌖 0x882584
Write	CONTRACT INTERACTION
	♦ 0
2. addTokenData	\$0.00
_tokenId (uint256)	DETAILS DATA
8	EDIT
_liscence (string)	GAS FEE \$0.002573
REPUBLIC OF MALTA / A Member of the European Union MAINTENANCE TRAINING AND EXAMINATION ORGANISATION	
_URL (string)	Gas Price (GWEI) Gas Limit 5 0 0 514560 0
https://www.academy147.com/approvals	
Write	AMOUNT + GAS FEE
	TOTAL \$0.002573 \$0.67
3. transferFrom	
_from (address)	Reject Confirm
From (address)	

Eth: \$267.31 (+4.02%)			Hon	ne Blockchain -	Tokens 🗸	Resources 🐱	More 🗸 🧿 Sig	gn In
Contract 0x882502	6b162401cc50f2a614a	1c2354aa59e8496 @	0.9 8E			Buy ~	Eam Interest ~ C	Crypto Credit
ponsored: AMFEIX - IN	VEST WITH AMFEIX (45%*	Estimated APR). Check it c	out on AMFEIX.	com.			ther Tokens and ns. We just nee	
Contract Overview				More Info	ber this at des	ign stage of	f the Contract.	
				My Name Lag:	inetly these to the Designer	okens are "f	rozen" in this co tract did not hav	ontract ve such
Balance:	0 Ether		(3 My Name Tag: functio	Not Availa	ble, login to upd	ate	ie such
Ether Value:	\$0.00		(Contract Creator:	0x9de75e3	30a6bfb9f at t	xn 0xa5311ea04041d	0
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Transactions Erc20 T	oken Txns Erc721 Tol	ken Txns Contract [©]	Events	Loans 📼 Analy	tics Commen	its		
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Txn Hash	Age	For rough	VM it is equ Ily \$1.	i al to Overview	Asset	Acton	Amount	
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Total Supply:	9 AVNS 🕕			Contract:	0×8	8 Gas Price (GWEI)) Gas Limit	
Holders:	8 addresses			Social Profiles:	Not	2		2100	0
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Turbinesurgine@gmail.com

