Gimmer Token Sale Smart Contracts Specifications

Lucas Assis Ribeiro

December 7th, 2017

1 Gimmer Pre Sale

The Gimmer Pre Sale contract is basically a crowdsale and intransferable-token contract used as a proxy during the presale period before opening to the full public.
Its limited to selling **15%** of the tokens.

1.1 Parameters

Total Tokens for Sale: **15.000.000 GMR**
Band 1 Minimum/Minimum Transaction: **30 ETH**
Band 2 Minimum: **300 ETH**
Band 3 Minimum: **3000 ETH**
Base Conversion Rate: **1 ETH = 1000 GMR**
Band 1 Rate: **1 ETH = 1250 GMR**
Band 2 Rate: **1 ETH = 1300 GMR**
Band 3 Rate: **1 ETH = 1400 GMR**
Start Time: **Friday, November 24. 2017, 12:00:00 PM UTC**
End Time: **Tuesday, January 2. 2018, 12:00:00 PM UTC**

1.2 Constructor

1.2.1 Fund Wallet

The wallet that the contract will forward the received Wei to (see Constants - Fund Wallet).

1.2.2 KYC Manager Wallet

The wallet that will start as the KYC Manager wallet (see Variables - KYC Manager Wallet).

1.3 Variables

1.3.1 Tokens Sold

The total amount of tokens sold through the Pre Sale contract.

1.3.2 Wei Raised

The total amount of Wei that has passed through the Pre Sale contract.

1.3.3 KYC Manager Wallet

The wallet that is able to approve the KYC of supporters.
Can be changed by the owner of the contract by calling setKYCManager.
Start Value: **0xbb3628807c424b58b8db1ae5e304255b84581af1**

1.4 Constants

1.4.1 Fund Wallet

The wallet that the Wei funds will be forwarded to.
Value: **0x8c789463412b2697185e103ded5f75b9b3931a84**

1.4.2 One Million

Reference value to calculate the Pre Sale Token cap
Value: **1.000.000**

1.4.3 Pre Sale GMRP Token Cap

The total amount of tokens that can be sold in the PreSale contract.
Value: **15.000.000 tokens**

1.4.4 Pre Sale 30 ETH

The minimum amount of Wei needed to get 25% bonus tokens.
Value: **30 ETH**

1.4.5 Pre Sale 300 ETH

The minimum amount of Wei needed to get 30% bonus tokens.
Value: **300 ETH**

1.4.6 Pre Sale 3000 ETH

The minimum amount of Wei needed to get 40% bonus tokens.
Value: **3000 ETH**

1.4.7 Token Rate 25% Bonus

The rate to multiply the received Wei by when the amount is in the 25% bonus range.
Value: **1250**

1.4.8 Token Rate 30% Bonus

The rate to multiply the received Wei by when the amount is in the 30% bonus range.
Value: **1300**

1.4.9 Token Rate 40% Bonus

The rate to multiply the received Wei by when the amount is in the 40% bonus range.
Value: **1400**

1.4.10 Start Time

The start date of the contract in Unix time.
24th November 2017 12:00 UTC
Value: **Timestamp 1511524800**

1.4.11 End Time

The ending date for the contract in Unix time.
2nd January 2018 12:00 UTC
Value: **Timestamp 1514894400**

1.4.12 Name

The name of the token, for logging purposes.
Value: **GimmerPreSale Token**

1.4.13 Symbol

The symbol of the presale token.
Value: **GMRP**

1.4.14 Decimals

The total amount of decimals.
Value: **18**

1.5 Public State-Changing Functions

1.5.1 ()

Fallback function, calls buyTokens().

1.5.2 buyTokens()

Buys tokens based on the amount of Wei sent to the contract.
KYC approval is needed for the transaction to fullfill.

1.5.3 approveUserKYC(address user)

Approves the KYC for the specified wallet address.
Only the KYC Manager wallet can execute this.

1.5.4 disapproveUserKYC(address user)

Disapproves the KYC for the specified wallet address.
Only the KYC Manager wallet can execute this.

1.5.5 setKYCManager(address newKYCManager)

Changes the KYC Manager wallet address to a new one.
Only the Owner of the contract can execute this.

1.5.6 transferOwnership(address newOwner)

Changes the owner of the contract to a new one.
Only the Owner of the contract can execute this.

1.6 Events

1.6.1 TokenPurchase

Occurs everytime a user sends Wei to the contract.
Sends the address of the person buying, the amount of Wei sent and the total amount of tokens bought.

1.6.2 Mint

Occurs everytime tokens are minted on the contract.
Sends the address of the person that's receiving the tokens and the total amount of tokens.

1.6.3 KYC

Occurs everytime the KYC Manager changes the KYC enabled state of an user.
Sends the address of the wallet that the manager changed and the state that it was changed to (approved/disapproved).

2 Gimmer Token

Gimmer Token is the contract for the GMR Tokens in the Gimmer ecosystem.
It's a Mintable Token, meaning the Crowdsale actually creates the tokens before each transaction.

2.1 Parameters

Maximum Token Cap: **110.000.000 GMR**
Name: **GimmerToken**
Decimals: **18**
Symbol: **GMR**

3 Gimmer Crowd Sale

Gimmer Crowd Sale is the main contract for the actual token sale.
KYC approval and balance will be initially imported from the PreSale contract, so all users that participated in the PreSale will already have their GMR balance/approval when the contract starts.
The total amount of tokens for sale is 100.000.000 GMR minus the total amount sold on the Pre Sale contract - which should amount to 85.000.000 if we sell everything on the Pre Sale stage.

3.1 Parameters

Total tokens for sale: **85.000.000 GMR**
Minimum transaction: **0.1 ETH**
Wei Limit Without KYC: **30 ETH**
Base conversion: **1 ETH = 1000 GMR**
Week 1 Rate: **1 ETH = 1200 GMR**
Week 2 Rate: **1 ETH = 1150 GMR**
Week 3 Rate: **1 ETH = 1100 GMR**
Week 4 Rate: **1 ETH = 1050 GMR**
Week 1 Date: **12:00 3rd January 2018 to 11:59 UTC on 10th January 2018**
Week 2 Date: **12:00 10th January 2018 to 11:59 UTC on 17th January 2018**
Week 3 Date: **12:00 17th January 2018 to 11:59 UTC on 24th January 2018**
Week 4 Date: **12:00 24th January 2018 to 11:59 UTC on 31st January 2018**

3.2 Specifications

3.2.1 KYC

Know-Your-Customer rules that users cannot spend more than a specified amount before needing to be approved by the KYC Manager wallet.
Only the owner of the contract can change the KYC Manager wallet.
All KYC information will be imported at the start of the crowdsale contract, so users that we're approved before will start approved here.

3.2.2 GMRP

Together with KYC, GMRP token balance will be prefilled into GMR to all users that participated in the presale.

3.2.3 Sale Wei Limit Without KYC

The limit of Wei an user can spend in this contract before being blocked and requiring KYC approval.
This can be updated by the owner of the contract by using updateSaleLimitWithoutKYC, see Functions
Value: **30 ETH**

3.2.4 Freeze Wallet

The wallet where the frozen funds will go incase we sell less than the lower bound limit.

3.3 Open Questions

3.3.1 How many ETH can one invest without KYC?

The owner should be able to change the KYC minimum amount.
Value: **up to 30 ETH**

3.3.2 All investors will have KYC or we would want to allow without KYC?

We'll accept all investors, but lock anyone that wants to buy more than a specified amount.

3.3.3 What is the logic of 10% extra token created?

Comission to the Gimmer Team over the total amount of tokens sold.

3.3.4 How should 50 million token be handled?/What is freeze wallet?

If we sell less tokens than the lower bound limit (50 million tokens) we mint the remaining unsold tokens (50 million - sold) and transfer them to a cold storage frozen wallet.

3.3.5 Tokens which are not sold during the Pre Sale, Do we want to sell those tokens during the Crowd Sale?

Yes, the maximum token sale cap is 100.000.000, so we remove the total amount sold in the presale (up to 15 mil) and sell the rest.