

BUIP085: Double spend relaying  
Submitted on 4th February 2018 by torusJKL

### **Background**

A double spend can happen within the time from the initial broadcast until the transaction is included in a block.

Although this is on average within 10 minutes at the point of sale we need to know that a unconfirmed transaction is as safe as possible withing seconds.

Currently double spend transactions are not relayed thus a merchant might not know that there is a high chance of him not receiving his transaction.

In order to detect double spends those transactions need to be forwarded by the nodes.

### **Motivation**

By receiving and forwarding double spend transactions sellers learn about attempts to defraud them faster and can take appropriate steps.

This will make 0-conf transaction on Bitcoin Cash more safe and will give it broader acceptance.

### **Task**

1) Develop a double spend relaying that is compatible with BitcoinXT's implementation (the relaying as such and the rpc call).

2) Add a double spend visualization in the wallet GUI.

### **Timeline**

The double spend proof should be developed and to be implemented for BUCash with the aim of being ready for inclusion in the scheduled November 2018 protocol upgrade.

### **Caveats**

The lead developer will have discretion and flexibility to modify details specified in this BUIP, while keeping within the spirit of the BUIP with the goal of advancing 0-conf tx security on Bitcoin Cash while staying compatible with the implementation used by BitcoinXT.

### **References**

[Relay and alert user to double spends \(BitcoinXT merge\)](#)