



http://localhost



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## Ethereum

Account: 0x0F99914C1A31e15995B48498950A92814Fb6DED2

Your ETH Balance: 10 ETH

## Plasma Client

Account: 0xee6bd04c6164d7f0fa1cb03277c855639d99a7f6

Plasma Balance: 0.2 PETH [details](#)

History size: 40Kb

[Transactions history](#)[Exits history](#)

Available to withdraw: 1 ETH

## Plasma Service Details

✓ Smart Contract: 0xb70f898520cd51d2a258ff0af25578289140c2

✓ Operator host: localhost:3001

Block Number: 4

Full history size: 20 Mb

That is an optional thing, I think that could be usefull  
for demonstations and debugging.  
Set of cheat views and features is not designed yet



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Toastr Notifications

MAIN VIEW  
HERE



Link to transfers history

Got plasma transfer from  
[0x031441249441123422....](#)


Link to deposits history view

Got 0.5 ETH deposit from  
[0x031441249441123422....](#)


Link to exits hisoty view

Exit Successful  
[0x031441249441123422....](#)

Notifcation if request to the  
backend was filaed

 Connection error

Implement this in case we  
will show how cheating  
scenarios works

 Exit was challenged



# Deposit control

Disable button if input is invalid

Only numbers are allowed



#Area 1 is:

- Collapsed by default
- Holds only one item at any time.
- Should be collapsed when validation is passes and transaction processing completed
- "Processing ..." should have "runing" dots or other kind of progress animation

**NOTE:** Since we use Ganache with automing feature - we probably can skip "Processing..." state

<http://localhost/utxo/transfer>[BANKEK](#) [Github](#) [Ethresearch](#)

## Transfer [back to main view](#)

Your plasma balance: 10 PETH

Amount

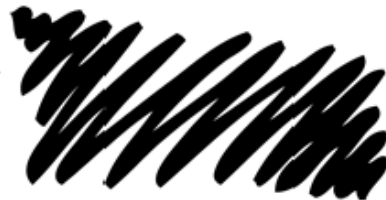
Transfer to

# Validation message area

That control should have similar validation checks and behavior as deposit with additional destination address check

[Show details](#)

Display UTXO editor component,  
change link title to 'Hide details'



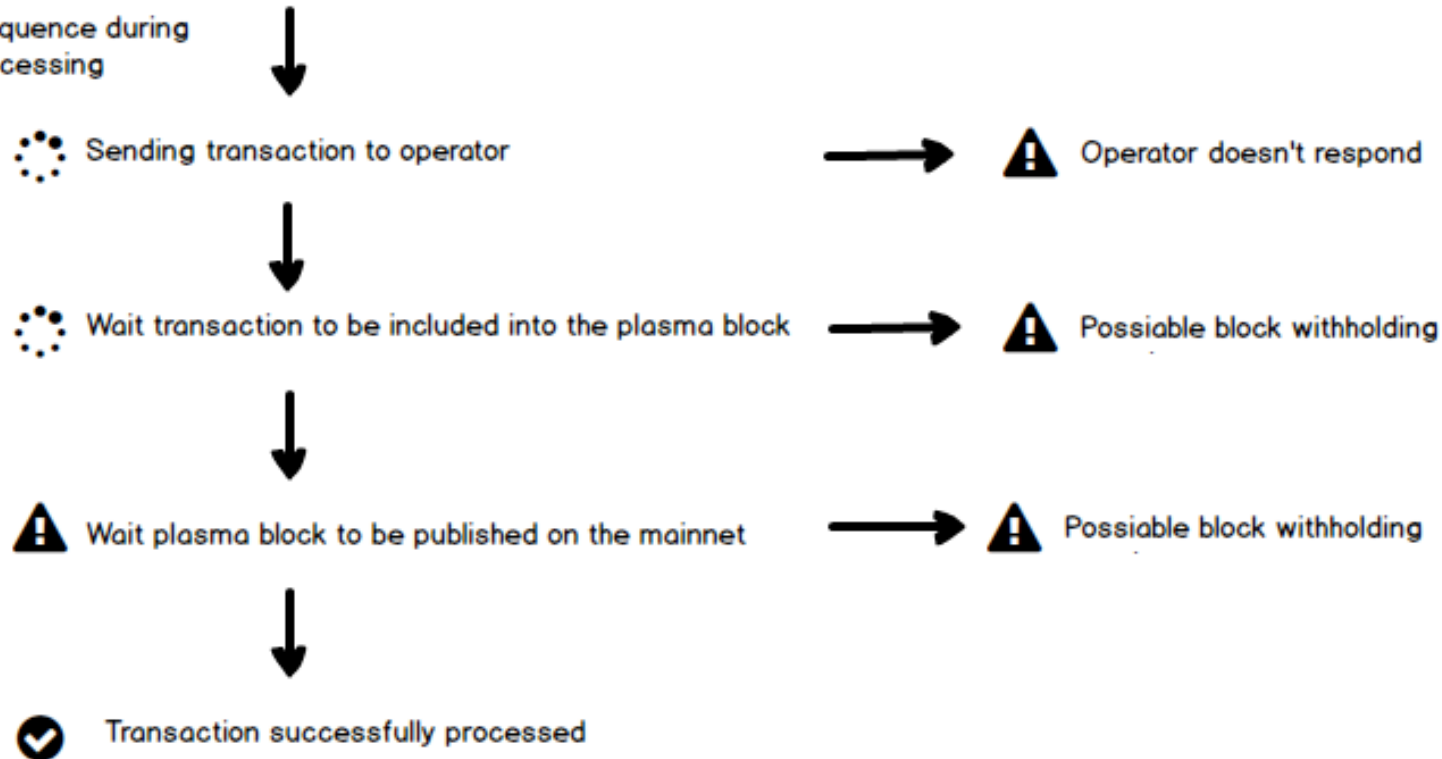
#UTXO details area

# Transfer Control & Transaction States

Amount	Transfer to	
<input type="text" value="0.05"/>	<input type="text" value="0xDCFe3Fa165d486CB7840532E97335757902Afc0e"/>	<input type="button" value="Transfer"/>
<div># Validation message area</div>		

That control should have similar validation checks and behavior as deposit control with additional destination address check

Visual state sequence during transaction processing



<http://localhost/utxo/exit>[BANKEK](#) [Github](#) [Ethresearch](#)**Exit** [back to main view](#)

Your plasma balance: 10 PETH

Amount

Secure deposit

# Validation message area

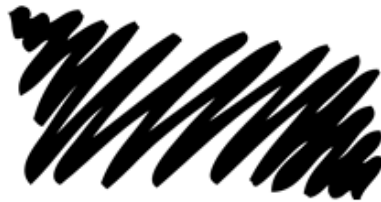
That control should have similar validation checks and behavior as depos

[Show details](#)Display UTXO editor component,  
change link title to 'Hide details'

#UTXO details area

When exit view  
become visible input  
should be fullfilled  
with maximum PETH  
amount that available  
for exit

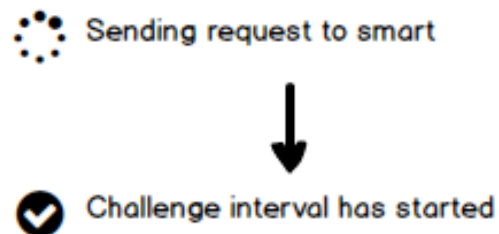
That amount doesn't  
include segments  
that already included  
in other exit  
procedure



# Exit Control & Transaction States



Visual state sequence during transaction processing



# UTXO Selection Control



Amount



- Amount of PEHT that user entered should be reflected by selection of rows in UTXO list, and vice versa.
- In case we need to split some interval to make a transfer or exit we should display that information in slice column
- Left border of the interval is not included, all the numbers are multiple of 0.0001

[Hide details](#)

	Slice	Lenght	Details
<input checked="" type="checkbox"/>	0 - 2	2	Deposited
<input checked="" type="checkbox"/>	2 - 4 [2 - 3.740]	2 (1.740)	Deposited
<input type="checkbox"/>	7 - 9	2	Deposited
<input type="checkbox"/>	20 - 30	10	Transfer from 0x025b1abefe7769ab5884bd560e5c86f850b5316709bdf6c70170321f57943ade, <span>Verified</span>
<input type="checkbox"/>	31 - 45	14	Transfer from 0x025b1abefe7769ab5884bd560e5c86f850b5316709bdf6c70170321f57943ade, <span>Verified</span>
	100 - 105	5	Exit in progress
	110 - 115	5	Ready for withdraw
	120 - 135	15	Withdrawn

Slices should be sorted by Slice Begin

Display slices that belongs to particular user

Merge button and details section are usefull for debugging

Default state of visibility flag:

- "Hide details" or
- "Show details"

Should be defined in local storage

Merge

After success transaction UTXO List should looks like that

	Slice	Lenght	Details
<input checked="" type="checkbox"/>	3.740 - 4	0.240	Deposited
<input type="checkbox"/>	7 - 9	2	Deposited
<input type="checkbox"/>	20 - 30	10	Transfer from 0x025b1abefe7769ab5884bd560e5c86f850b5316709bdf6c70170321f57943ade, <span>Verified</span>
<input type="checkbox"/>	31 - 45	14	Transfer from 0x025b1abefe7769ab5884bd560e5c86f850b5316709bdf6c70170321f57943ade, <span>Verified</span>
	100 - 105	5	Exit in progress
	110 - 115	5	Ready for withdraw
	120 - 135	15	Withdrawn

Merge



[BANKEK](#) [Github](#) [Ethresearch](#)

## Exits history [back to main view](#)

Account: 0xee6bd04c6164d7f0fa1cb03277c855639d99a7f6

Timestamp	Slices	Amount	Status
2019-01-19 12:34:31	[0-12), [20-24)	16	In Progress
2019-01-10 12:30:27	[100-200)	100	Completed
2019-01-10 10:12:40	[100-200)	100	Challenged





http://localhost/transfer-history



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Transfer History [back to main view](#)

Account: 0xee6bd04c6164d7f0fa1cb03277c855639d99a7f6

Timestamp	Type	TxHash	Address	Slices	Amount
2019-01-19 09:34:31	Incoming	0xD1Fe89Bf04609736B9c40f79A945b	0xa588397715c0f0960ceEDd46FbdEC	[0-12), [20-24)	16
2019-01-19 12:34:31	Outgoing	0xD1Fe89Bf04609736B9c40f79A945b	0xa588397715c0f0960ceEDd46FbdEC	[0-12), [20-24)	16
2019-01-19 12:34:31	Incoming	0xd7b3379b7856d2c2cff6a5a493dec5	0xa588397715c0f0960ceEDd46FbdEC	[0-12), [20-24)	16





http://localhost/transfer-history



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Transfer History [back to main view](#)

Account: 0xee6bd04c6164d7f0fa1cb03277c855639d99a7f6

Timestamp	From	Slices	Amount
2019-01-19 12:34:31	0x1f973B233f5Ebb1E5D7CFE51B9aE4A32415A3A08	[0-12), [20-24)	16
2019-01-10 12:30:27	0x1f973B233f5Ebb1E5D7CFE51B9aE4A32415A3A08	[100-200)	100
2019-01-10 10:12:40	0x1f973B233f5Ebb1E5D7CFE51B9aE4A32415A3A08	[100-200)	100

