

Software Test Plan

Version 1.0

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TauNet v1

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1.0 Unit Tests

1.1 TauNet.py

1.1.1 AddressBook()

Case	Address Book is null
Expected	prints statement "Address Book is Null"
Actual	

Case	User selects an option that is not in the address book range
Expected	Prints statement "That is not a valid selection"
Actual	Error is thrown and program breaks :-/

Case	Address Book is null
Expected	prints statement "Address Book is Null"
Actual	

1.1.2 AddressBookPopulate()

Case	addresses.txt exists but contains nothing
Expected	prints statement "Address Book is Null"
Actual	

Case	addresses.txt does not exist
Expected	prints statement "addresses.txt does not exist"
Actual	

1.1.3 mainScreen()

Case	User presses a number that is not on the menu
Expected	prints statement "Address Book is Null"
Actual	

1.1.4 Other

1.2 Server.py

1.2.1 server.run()

1.2.2 getMessage()

Case	Zero length message is received
Expected	discards message and does not print
Actual	discards message and does not print

1.3 Client.py

1.3.1 clientFunc()

Case	Client Cannot connect to tauNet node
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Expected	displays message that node is offline or unavailable. Saves message and target to a log
Actual	displays message that node is offline or unavailable. Saves message and target to a log for user to access later.

Case	Client connects to tauNet node
Expected	sends message and closes socket
Actual	sends message and closes socket

1.4 Protocol.py

1.4.1 swap()

1.4.2 rc4()

1.4.3 encrypt()

1.4.4 decrypt()