ABSTRACT

Topic: **Universal Clipboard**

Research paper topic is based on " [Extracting-the-windows-clipboard-from-physical-memo_2011_Digital-Investigation](#) " and " [Data transfer: A longitudinal analysis of clipboard and drag-and-drop use in desktop applications](#) " to create a universal clipboard on an application called FIND. Implementation phase of universal clipboard will be on windows which works continuity to an iOS or android application over the local network.

When a user copied something this will be available all over his/her logging devices. let say a user uses a banking website and purchased something using credit card or using debit card, then there will be a one time password sent to a registered device. All android and iOS operating system have this feature to copy it to clipboard automatically. This leads to the possibility to move that to OTP to a universal clipboard that can be accessed from any devices (logged in on to Find). User can simply paste the text on there laptop. (ctrl + v on windows or cmd + V if an osX user) .

The way it works, first user have to copy a text, picture, music or anything appropriate (otp and other verification message will get copied automatically through system process). when a clipboard gets new value, function universal will get invoked. This function will broadcast copied value to all logged on devices via Bluetooth or wifi-direct. And also makes sure these devices got message correctly without any compromise on data integrity and confidentiality. This function first broadcast signal to all surrounding device and a three way handshake protocol is done only between logged in devices. After receiving the value, the destination will return a checksum to ensure receiver receives correct value. if not necessary steps are taken.

Main concern is about security. User can enable or disable universal clipboard and also know the list of devices that are logged in and uses this technology along with finding device…