

As the long discussion today we are proposing the following handover+file transfer flow of WebNFC:

Please note that all the new function names are undetermined.

[System App]

Listen to ndef-tech-discovered, trigger the onpeerfound event callback when the user taps the shrinking app.

[User App]

In onpeerfound callback, do call peer.sendFile(blob) (TBD)

[System App]

Do handover(TBD) to make sure the two devices are enabled. Currently we just transfer the file via BT.

Do pairing via a new BT API(TBD) with the address provided in the handover message.

Use IAC to send message to bluetooth app to let it know we want to send the file silently.

[Bluetooth App]

Would be launched at background by IAC system message and do the transfer work silently, without choosing the device to be sent to.

So the work undergoing would be:

1. BT in gecko needs a new pairing API which argument is the address(currently it's the device).
2. BT app in gaia needs some change to activity message handler to deal with background launched case.
3. ActivityWindowFactory/ActivityWindow needs to manipulate the new disposition and launches the activity in background.
4. WebNFC needs some new API: sendFile, handover?.
5. NFCManager in gaia::system needs some change.