

MobiTrade Protocol (A, B, device A meets device B):

1.Initialization: Obtain the list of channels from B.

2.Content Transfer: Schedule the contents that match the received channels and negotiate their forwarding to B.

3.Content Reception: Readjust the channles utilities according to the available exceeding free storage space if any. Then, for each content C the device A receives:

(a) If C is already in A store then ignore it.

(b) If A store is not full then add C.

(c) If A store is full then identify the channels that exceed the most their allowed share of the store (the share is proportional to the utility), and remove as mush as needed to afford C (drop the oldest content among the identified channel).

4.End Transfer: when out of radio range or all requested contents transferred.

5.Channel Management: Add the new received channels and update the utilities of both the received channels and the already stored ones based on the outcome of the session.