

ABSTRACT**SYSTEMS AND METHODS FOR MULTIPLEXING MULTIPLE
CONNECTIONS IN MOBILE IP NETWORK**

Disclosed are systems, methods and computer program products for facilitating multiplexing of simultaneous multiple connections between a mobile device and its IP mobility anchors, such as mobile IP home agents or proxy mobile IP local mobility anchors. An example method comprises assigning a unique IP mobility anchor identifier to each IP mobility anchor associated with the mobile device. The method further comprises negotiating an IP flow reservation for each IP mobility anchor identifier and signaling a request to associate each negotiated IP flow with an IP tunnel to a particular IP mobility anchor. The method further comprises sending packets through each negotiated IP flow and associated IP tunnel to each IP mobility anchor.

Figure 1