

**ABSTRACT****PROXY MOBILE INTERNET PROTOCOL (PMIP)  
IN A MULTI-INTERFACE COMMUNICATION ENVIRONMENT**

A communication entity (such as a User Equipment (UE), an Access Gateway (AGW), a Packet Data Network Gateway (PGW), a Policy Charging Rule Function (PCRF), and so forth) notifies another communication entity that the UE intends to use a single Internet Protocol (IP) address for connections to multiple AGWs. The communication entity also sends information that is related to at least one of the UE's IP flows to another communication entity.

Figure 1