

An Agent-Based Authentication And Key Agreement Method For Devices Without SIM Card

Abstract

A method for devices without SIM card (SD) to communicate directly with a core network. The method may be performed in the following matter. The SD registers with the core network through a cellular device (MD) in order to obtain a credential for the SD. The credential comprises Access ID, key, and control parameters. The SD then performs a mutual authentication directly with the core network using the credential. If the SD authenticates successfully with the core network, the SD is granted access to the servers via the core network.

FIGURE 1 to accompany the abstract