

ABSTRACT**Method for providing a wireless user station for access to a telecommunication network through a network wireless access point, associated network wireless access point and wireless user station**

Method for providing access to a telecommunication network (3) of a wireless user station (6) through a network wireless access point (2), including:

- deriving, by each of the wireless user station and the wireless network access point, a second key (OPSK) from at least a shared first key (PSK);
- performing an authenticating step between wireless user station and the network wireless access point as a function of the derived second keys (OPSK);
 - obtaining and wirelessly transmitting by the network access point an updated value of a parameter ;
 - wirelessly receiving by the wireless user station the transmitted updated value of the parameter;

the second key (OPSK) being derived by the wireless user station from the first shared key and further from the received updated value of the parameter, and the second key being derived by the network wireless access point from the first shared key and further from the transmitted updated value of the parameter.

Figure 1