

ABSTRACT**CAPACITY INCREASING DEVICES AND METHODS FOR WIRELESS
COMMUNICATION**

The present patent application improves DARP by allowing multiple users on one time slot (MUROS). It comprises means and instructions for sharing signals on a single channel, comprising setting up a new connection, allocating a new time slot if there is an unused time slot on a channel frequency, selecting an used time slot for the new connection to share with an existing connection if there is not an unused time slot on the channel frequency, and selecting a different training sequence code for the new connection if the used time slot on the channel frequency has been selected for the new connection to share with an existing connection.

Figure 8A