

SECURE REMOTE OPERATION OF A WEAPON SYSTEM**ABSTRACT**

A system for securing bidirectional communications, using a radiofrequency
5 wireless network, between N weapons systems (1) able to be remotely operated,
 $N \geq 1$, characterized in that: - the system comprises an additional client (20)
equipped with a second transceiver system (12), able to be connected to each of
the N weapons systems (1), permanently or removably, for use in remote
operation mode; the first controller (9) with its first transceiver (11) then being
10 able to receive data from and/or to send commands to the client (7, 8) via the
radio network and the additional client (20) with its second transceiver (12) being
able to send data from and/or to receive commands destined for the client (7, 8)
via the radio network; - the first transceiver (11) and the second transceiver (12)
are software-implemented, defining a software-defined radio or SDR operating
15 mode, and are configured to exchange messages in such a way as to guarantee
the required quality of service and in particular a predetermined latency time; -
the system is configured, in the event of said predetermined latency time being
exceeded, to enter degraded SDR mode and allow the two field data buses (13,
14) and their respective clients to be able to be operated seamlessly despite the
20 interference on the radio link.

FIG. 3