

CLAIMS

1.- Electronic equipment having increased performance, said electronic equipment being adapted for communications, identification, and navigation and usable in systems on board moving carriers, or for communicating with such carriers, said electronic equipment comprising at least one calculation processor (14) and at least one memory unit (16), characterized in that it stores in said at least one memory unit (16) a map (20, 80) of operating levels of said electronic equipment, the map being determined in function of at least one parameter representative of a condition for using said equipment, the map comprising areas representative of operating levels in a space of parameters representative of conditions of use of said electronic equipment, the operating levels comprising a nominal operating level and at least one degraded or improved operating level, and in that it is configured to:

- receive at least one parameter value representative of a condition for using said electronic equipment,
- determine, ~~from said stored map (20, 80),~~ an operating level associated with said parameter value, from said stored map (20, 80) and from the received at least one parameter value representative of a condition for using said electronic equipment,
- issue an alert if the determined operating level is a degraded operating level.

2.- Equipment according to claim 1, wherein said parameter is representative of geolocation information and/or time stamping information and/or of a temperature of use and/or of a meteorological condition in an environment of said equipment and/or an operating time of said equipment and/or a radio-electric environment.

3.- Equipment according to any one of claims 1 or 2, designed to send, if the determined operating level is an improved operating level, information indicating at least one adjustment parameter making it possible to operate said equipment at an operating level below said improved operating level.

4.- Equipment according to any one of claims 1 to 3, designed to obtain a set of adjustment parameters (22) of said equipment associated with the determined operating level, and to dynamically apply said set of adjustment parameters (22) to said equipment.

5.- Equipment according to any one of claims 1 to 4, wherein said stored map (20, 80) is obtained by processing data (21) obtained from a plurality of pieces of equipment of the same family of equipment.

5 6.- Equipment according to any one of claims 1 to 5, designed to securely transmit to a calculation system (4) an operating/malfunction log (21) comprising time-stamped operating data of said equipment, and collected data from sensors (12a-12e) associated with said equipment.

10 7.- Method for increasing the performance of electronic equipment said electronic equipment being adapted for communications, identification, and navigation and usable in systems on board moving carriers, or for communicating such carriers, said electronic equipment comprising at least one calculation processor and at least one electronic memory, suitable for being carried on a carrier, characterized in that it includes
15 a prior memorization step (90) of memorizing in said at least one memory unit a map (20, 80) of operating levels of said electronic equipment, the map being determined as a function of at least one parameter representative of a condition of use of said equipment, the map comprising areas representative of operating levels in a space of parameters representative of conditions of use of said electronic equipment, the operating levels
20 comprising a nominal operating level and at least one degraded or improved operating level, and steps, executed by a processor of said equipment to:

- receive (94) at least one parameter value representative of a condition of use of said electronic equipment,
- determine (96), ~~from said stored map (20, 80),~~ an operating level associated
25 with said parameter value, from said stored map (20, 80) and from the received at least one parameter value representative of a condition for using said electronic equipment,
- issue (100) an alert if the determined operating level is a degraded operating level.

30 8.- Method according to claim 7, comprising, if the determined operating level is an improved operating level, the transmission (100) of information indicating at least one adjustment parameter making it possible to operate said equipment at an operating level below said improved operating level.

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9.- Method according to one of claims 7 or 8, further comprising a step of obtaining and applying (102) a set of adjustment parameters (22) of said equipment associated with the determined operating level.

5 10.- Method according to one of claims 7 to 9 wherein several parameters representative of conditions of use define said map (20, 80), and wherein the receiving step comprises receiving predicted position information relative to a planned route and an estimated parameter value representative of a condition of use associated with said planned route for said equipment, and following the emission of an alert, a route
10 modification is carried out, so as to avoid a route crossing an area of said map corresponding to a degraded operating level.

 11.- Method according to one of claims 7 to 10, comprising a step of receiving
15 (90) a map of operating levels obtained by a calculation system designed to process big data.

 12.- Method according to one of claims 7 to 11, wherein said equipment belongs to a family of equipment, wherein said map (20, 80) is obtained (76) in a prior step, by analysis and processing (72, 74) of data comprising operation/malfunction data (21) and
20 data from sensors collected (50, 52) by at least one piece of equipment from said family of items of equipment.

 13.- Method according to claim 12, wherein the data used in the analysis and processing step further comprises additional environmental data comprising
25 meteorological data and/or geographic data and/or data of a radio environment.