

Title (en)
METHOD FOR DUPLICATING A DATABASE IN A NETWORK OF MACHINES, AND SYSTEM OF MACHINES COMPRISING A DUPLICATED DATABASE

Title (de)
VERFAHREN ZUM DUPLIZIEREN EINER DATENBANK IN EINEM NETZWERK VON MASCHINEN UND SYSTEM VON MASCHINEN MIT EINER DUPLIZIERTEN DATENBANK

Title (fr)
PROCEDE DE DUPLICATION D'UNE BASE DE DONNEES DANS UN RESEAU DE MACHINES ET SYSTEME DE MACHINES A BASE DE DONNEES DUPLIQUEE

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Abstract (en)
[origin: CA2591909A1] The invention relates to a method for duplicating a database in a network of machine, and to a system of machines comprising a duplicated database. Said machines (1, 2, 3) share the same database (10) which is duplicated in the machines. A first machine (1) transmits data (A) updated in the database thereof to the other machines (2, 3). A master machine (31) converges the databases (10) between the machines. To this end, the machine (1) transmitti ng the data (A) emits, in the same message as the data (A), the version number thereof and the address of the machine; the machine (1) also emits the messa ge to a master machine (31); a machine (31, 2, 3) publishes the data (A) in the database (10) thereof, following a version number test; and the master machi ne (31) emits a central announcement message (32, MAC) to the machines (1, 2, 3), said central announcement message comprising the version number thereof for all of the data in the database (10), and the address of the machine (1) at the origin of the updating thereof. The invention especially applies to the duplication of databases in a large number of machines connected in a networ k, for example in air traffic management systems.

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