

Title (en)
EXACTLY ONCE CACHE FRAMEWORK

Title (de)
GENAU-EINMAL-CACHE-RAHMEN

Title (fr)
STRUCTURE D'ANTEMEMOIRE EXACTEMENT UNE FOIS EXACTLY ONCE CACHE FRAMEWORK

Publication
EP 1433073 A1 20040630 (EN)

Application
EP 02798120 A 20020905

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Abstract (en)
[origin: WO03023633A1] A system for managing objects in a clustered network includes a file system (212) containing at least one copy of a data object (208). The system can include several clustered servers in communication with the file system (212). A lead server is selected, which contains a distributed consensus algorithm for selecting a host server (206), and which utilizes multicasting while executing rounds of the algorithm. The selected host server (206) can contain a copy of the data object (208), such as in local cache, providing access to the local copy (208) to any other server in the cluster. Any change made to an item hosted by the host server (206) can also be updated in the file system (212). If the host server (206) becomes unable to host the object, a new host can be chosen using the distributed consensus a algorithm. The other servers (216, 218) are then notified of the new host by multicast messaging.

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IPC 8 full level
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