GENERIC FILE FORMAT FOR MULTIPLE SECURITY REQUIREMENTS

ABSTRACT

A generic secure file format to solve problems associated with secure storage and interchange. The file format allows multiple files to be wrapped into a single entity for storage or transmission interchange. Each file can have different security requirements from that of other files. Different file types can be interchanged under a single wrapper in this secure file format. The secure file format also allows one file to be divided into multiple sections and wraps them into a single file. Each section of the file has its own security protection. This enables only sensitive information to be protected, and leaves other sections with less or no security protection. This results in higher performance since security related operations are only required for a small portion of the file.

Fig. 2.