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A METHOD AND SYSTEM FOR CERTIFICATE REVOCATION LIST CONSOLIDATION AND ACCESS

ABSTRACT

A system and method for certificate revocation list (CRL) consolidation and access are disclosed. The system consists of a plurality of certificates authorities (CAs); a plurality of CRL retrieval agents associated with CRL distribution mechanisms of CAs, for consolidating the CRLs from multiple CAs; CRL databases, for storing the consolidated CRLs from multiple CRL retrieval agents and the replication of CRLs; and CRL access API. Therefore, an application can access the nearest CRL database to determine whether a digital certificate has been revoked via a set of unified APIs without bothering with the details of CRL distribution mechanisms. In addition, the system of the invention is also adapted for consolidating and accessing all kinds of black list.

FIG. 1