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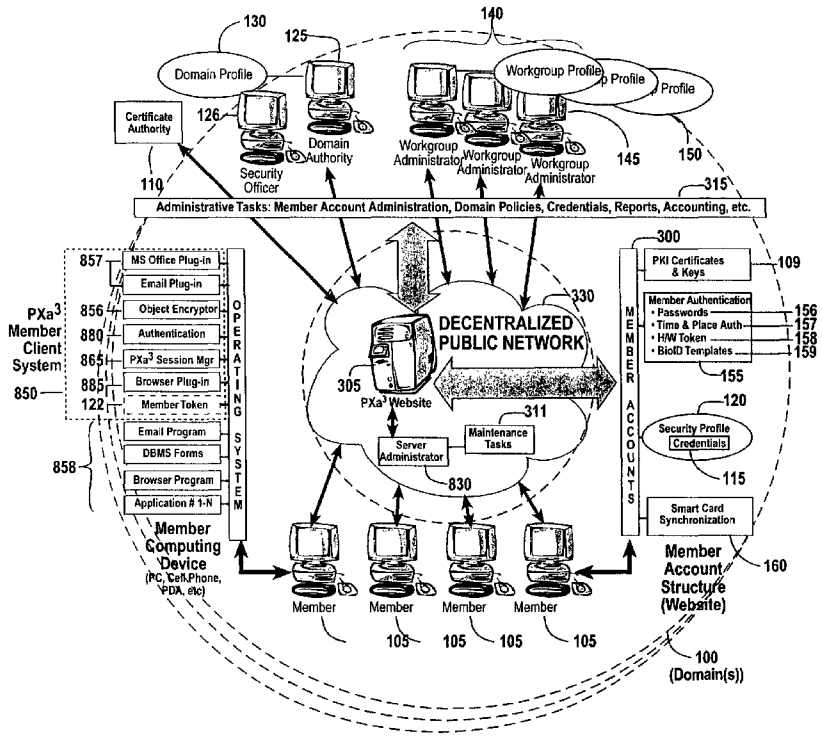
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(54) Title: METHOD AND APPARATUS FOR A WEB-BASED APPLICATION SERVICE MODEL FOR SECURITY MANAGEMENT



(57) Abstract: The invention combines cryptographic key management technology with various authentication options and the use of a companion PKI system in a web-centric cryptographic key management security method and apparatus called (*PXa3™* Precise eXtensible Authentication, Authorization and Administration). The (*PXa3*) model uses a security profile unique to a network user and the member domain(s) he/she belongs to. A PXa3 server holds all private keys and certificates, the user's security profile, including credentials and the optional authentication enrollment data. The server maintains a security profile for each user, and administrators simply transmitted credential updates and other periodic maintenance updates to users via their PXa3 server-based member accounts. Domain and workgroup administrators also perform administrative chores via a connection to the (*PXa3*) web site, rather than on a local workstation. A member's security profile, containing algorithm access permissions, credentials, domain and maintenance values, a file header encrypting key, optional biometric templates, and domain-specific policies is contained in one of two places: either on a removable cryptographic token (e.g., a smart card), or on a central server-based profile maintained for each member and available as a downloadable "soft token" over any Internet connection.

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