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Enforcement of CA-UCON Model

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A Context-Aware Usage CONtrol (CA- UCON) model is an extension of the traditional UCON model which enable adaptation to environmental changes in the aim of preserving continuity of access. When the authorizations and obligations requirements are met by the subject and the object, and the conditions requirements fail due to changes in the environment or the system context, CA-UCON model triggers specific actions to adapt to the new situation. Besides the data protection, CA-UCON model so enhances the quality of services, striving to keep explicit interactions with the user at a minimum. In this paper, we propose an architecture of the reference monitor for the CA-UCON model and investigate a variety of enforcement approaches in ubiquitous computing systems; whether centralized, distributed or hybrid; depending on applications.