

Design of User Management System using RBAC Model for e-Logistics system

Jeong-Sook Chae*, Gae-gak Whang, Yong-Joon Lee

e-Logistics Research Team, Electronics and Telecommunications Research Institute

161 Gajeong-dong Yuseong-gu, Daejeon, 305-350

chaejs@etri.re.kr, jghwang@etri.re.kr, yjl@etri.re.kr*

Tel : +82-42-860-6573, Fax: +82-42-860-6508

Abstract

Role based access control is an access control method based on the role of user. It provides flexibility and applicability, compared with existing access control mechanisms like DAC(Discretionary Access Control) and MAC(Mandatory Access Control). In this paper has designed system by following the primary element of the RBAC(role based access control) model proposed by Ravi S. Sandhu, in order to control the users of e-Logistics system as an ebXML based integrated platform. System user can access system according to his/her grade, by gaining permission of privilege fit to his/her role. This model grants permission to roles to facilitate the expression and control of access privileges allocated to roles, and provides more flexibility in controlling users. Based on this, the model can facilitate integrated efficient management of subsystems and control of users' system access.

In this paper will reflect the flexibility of managing user and permission by using roles, which is a primary advantage of RBAC model, into the access control system, and develop it, in order to propose an access control system suitable for user management application environment, that can reflect and manage organization's access control policy easily.