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Abstract
In 2005, Zhang et al. proposed the scheme “License Management Scheme With Anonymous Trust For Digital Rights Management”. In which the consumers should purchase an anonymity ID and corresponding password to get the digital content license. The users can play the digital content wherever they are. However, if the anonymity ID and corresponding password shared with others, the DRM system would crash.

In this thesis, we include the hardware device information into the digital content license.DRM system can recognize if the user’s license is effective or not. We also refer that “An Approach to Role-based Access Control for Digital Content” proposed by Weippl and include the Role based DRM service. Users can access and play the digital content in other devices when they get the role License authenticated by role server. Besides, the characteristics of P2P sharing in high scalability can lower the load of content provider. Content provider will provide the nearest download point to the users and users can legally access the digital content under the P2P network.
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