Using Proxy Signature for Dynamic Delegation in Grids

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Abstract. GSI (Grid Security Infrastructure) was used proxy certificate for delegation in grid environment. However, the proxy certificate holder can not issue his own identity, not to prove that he is a known entity. Therefore, it can not satisfy the requirements of nonrepudiation and known signer in grids. In this paper, we propose a dynamic delegation scheme for grids using proxy signature. Our scheme can satisfy all the requirements of delegation.

Keywords: grid computing security, proxy signature, dynamic delegation

References


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