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Private and Secure Service Discovery Via Progressive Approach

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Abstract - Literature review revealed that the dynamic property of pervasive hinders to have complete knowledge of the relationship among services , service providers , and credentials . The involvement of the necessary users and service providers for service discovery in pervasive computing environments is challenging . Without prudence , users and service providers request or service information , their identities , and their presence information may be sacrificed . The problem may be as difficult as a chicken- and - egg problem , in which both users and service providers want the other parties to expose sensitive information first . In this paper we propose a progressive approach to solve the problem . Users and service providers expose partial information in turn and avoid unnecessary exposure if there is any mismatch . Although 1 or 2 bits of information are exchanged in each message , the original analysis ,simulation , and experiments show that our approach protects sensitive information with little overhead .