ATM Service on MPU System using Mobile Agent Based Windows Communication Foundation

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Abstract

Mobile agent can provide a convenient, efficient, and robust framework and WCF (Windows Communication Foundation) technology is used to manage the communication between the agents. In this system, we will demonstrate MPU (Myanmar Payment Union) banking service using WCF framework with mobile agent. WCF is used between ATM (Automated Teller Machine) and banking servers. Firstly, we have implemented ATM client and it was carried out to bank server by Transaction Agent, WCF agent and Dataflow Agent. As this system is intended to show mobile agent based transactions, we considered two paradigms of banking services using MPU which are OnUs and OffUs transactions. These services can be accepted from anywhere the ATM machines exist. At last we implement OnUs transactions directly with specific Bank Database through Transaction and Dataflow agents. OffUs Transactions goes with Transaction Agent, WCF Agent and Dataflow Agent. The demonstration of this system is implemented by using C#.NET and Internet Information Service (IIS) 6 for setting up WCF Agent Service.