trust based security architecture based on human notion of trust to allow access to resources in an uncertain environment. In our model, we assume that all entities are autonomous and some of them are mobile. Entities in our model try to access the services. Thus, we establish trust relationships between entities and the services. Each service maintains a list of trustworthy and untrustworthy entities, the trust value associated with them, and time when trust value was last revised and number of interaction the entity had with the service. An overview of our proposed trust-based security framework is shown in Figure 1. The framework consists of three main layers. The model allows service requestor to access a particular service interface or shared resource in the network on the bases of its trust value maintained in trust repository of each service. If no prior trust information is available, Recommendation Evaluator module seeks recommendation from peer services located within the same pervasive environment or from trusted parties offering same service located in other autonomous pervasive environments. The recommended trust value computed by indirect trust computation module form the basis for new trust relationship. Similarly, if no recommendation is available for the entity, the service can assign it an ignorance value based on the security level of service interface the entity is requesting. Performance Interpretation module is responsible for the evolution process. It evaluates the behavior patterns of entity involved in interaction according to its actions as additional evidence becomes available. It is connected with Trust repository and Interaction Monitoring module of the system. Direct trust computation takes place after culmination of an interaction and obtaining some observation from the Interaction Monitoring module. The basic function of a Policy Analyzer is to process the request; to determine whether the requestor is permitted to do the requested action in presence of the policies defined for that service interface.