



E2E Service Delivery through User Mobile Session Management

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A revolution in network connectivity is leading us towards the Next Generation Network (NGN) era with novel types of services which are driven by two trends: user-centric, End-to-End (E2E) service delivery respecting Service Level Agreement (SLA) and mobility. The user-centric requirements need a new session management paradigm for providing ubiquitous services. This paradigm should take into account the changing environment (user, terminal, network and service mobility), that we consider as various types of mobility, in order to ensure continuous service delivery conforming to E2E and SLA specifications. This paper provides a solution to the above requirements. We first propose a horizontal service overlay architecture for the composition of ubiquitous services. A mobile service session management paradigm based on virtual communities is then proposed to resolve Quality of Service (QoS) dysfunction due to various types of mobility. Using a dynamic cross-layer binding of the managed mobility, the proposed user mobile session enables E2E service delivery in a continuous and automatic way. A realistic application scenario is provided.

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