Abstract

Different variety of multimedia-enabled end-user devices continues increase in number and expectation of ubiquitous customer irrespective their terminal capabilities in a heterogeneous environment offered numerous opportunities to quality of service improvements. Potential computing expects MANETs to work with interoperability offering quality of service as professed by the user in a heterogeneous environment. This article presents architecture for state-of-the-art wireless multi-hop networks, and identifies research issues that need to be addressed for successful streaming with content awareness using protocol such as RTSP under heterogeneous environment for the next generation of wireless mobile ad hoc networks. The proposed architecture includes integration of MPEG-21 multimedia framework, digital content verification engine, cross layer design and interaction at various layers including network and MAC layers and IEEE 802.21 to handle mobility in MANETs to offer quality of service provisioning.

References

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Index Terms

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Keywords
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Cross layer adaptation