

Advances in Mobility Management for IP Networks

Editors:

Aisha Hassan Abdalla Hashim

Othman Khalifa

Shihab A. Hameed



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DEVELOPMENT OF THE SERVICE RECOVERY TIME AND SIGNALING COST FUNCTION

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15.1 INTRODUCTION

The development of service recovery time and signaling cost functions are based on Multicast Hierarchical Mobile IPv6 with Context Transfer Protocol (M-HMIPv6/CXTP) [1] scheme signaling flow. In the enhanced scheme the multicast information transfer is implemented based on the Context Transfer Protocol (CXTP) predictive handover scheme.

15.2 FUNCTIONS DEVELOPMENT

The service recovery time is derived from the handover process flow mentioned in [1]. The signaling cost is derived from work in [2]. While as for the parameter values, it is typical values that were chosen based on work in [3]. Fig. 15.1 shows the process flow for Hierarchical Mobile IPv6 (HMIPv6) [4], while Fig. 15.2 shows the process flow for M-HMIPv6/CXTP.