



# ROYAL UNIVERSITY OF PHNOM PENH

Master of Science in Information  
Technology Engineering

Network Engineering

## ROAMING OF WIRELESS LOCAL AREA NETWORK USING WIRELESS DISTRIBUTION SYSTEM FOR REAL-TIME APPLICATION

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**Keywords:** Roaming, Basic Service Set, and Distribution System

**Field related:** Telecommunications, Wireless LAN, and Performance Evaluation

### Abstract

When a station (STA) moves from current associated Basic Service Set (BSS) to other within the same Extended Service Set (ESS) it required to associate with new BSS. This association process will introduce even more delay when advance security and quality of service are implemented. As consequence, such real-time applications with delay sensitive are interrupted when mobile users are on the move.

A proper solution need to be used to overcome this delay issue. Therefore, a real-time application such as VoIP can still be run even a station is moving from one BSS to another within ESS.

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