



THE CHINESE UNIVERSITY OF HONG KONG
Department of Information Engineering

Seminar

Advanced Topic in IP Routing

by

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Date : 11 November, 2011 (Friday)
Time : 11:30am-12:30pm
Venue : Room 833, Ho Sin Hang Engineering Building
The Chinese University of Hong Kong

Abstract

BGPSEC framework specifies a "route-based security" mechanism for BGP security. The framework is made up of RPKI infrastructure, authentication services and router based security components which provides Origin AS Validation for BGP Prefixes. Starting in year 2009, RIRs have started deploying RPKI infrastructure to facilitate Origin Validation.

This talk gives an overview of the BGPSEC framework. It covers the specific RPKI infrastructure as well as router based mechanism to protect AS-PATH attribute and the prefix origin validation mechanism. Furthermore, this talk covers the BGP path validation mechanism as well as future BGP session based security mechanism. The final part of this talk presents the complexity and challenges arise in BGPSEC.

Biography

Alton Lo is a Senior Technical Leader at Cisco Systems, Inc. where he leads BGP and VPN development for Cisco Systems Networking Technology Cross Operating System business unit. Most recently Alton has been focused on designing and developing next generation VPN and Multicast solutions.

**** ALL ARE WELCOME ****

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