



IPv6 Migration for Financial and Banking Sectors Workshop

Date: 8 November 2012

Venue: SKMM Headquarters, Cyberjaya – as per attached map (Room SG01 and SG02)

Objective:

1. To inform the target date for Malaysia to be IPv6 ready using dual stack (both IPv4 and IPv6 running on the same device) by end of 2013 – *focusing on Web, E-mail and DNS*;
2. To describe the impact on the financial and banking sectors due to the imminent IPv4 address exhaustion;
3. To introduce high level planning considerations which financial and banking sectors need to be aware of prior to deploying IPv6;

Workshop Outline:

No.	Topic	Sub - topic	Remarks
1.	Topic 1 : Introduction	a) IPv4 depletion b) IPv6- why do we need it? c) Implementing IPv6- what are the benefit? d) IPv6 features	
2.	Topic 2 :Understanding IPv6 and its overview	a) IPv4 and IPv6 Comparison b) IPv6 Address Representation c) IPv6 Addressing d) IPv6 Address Allocation	

3.	Topic 3: IPv4/v6 Coexistence/Transition techniques	<ul style="list-style-type: none"> a) Dual Stack b) 6RD c) Dual Stack Lite d) Stateful AFT (NAT64) e) Stateless AFT (IVI) 	Focus on dual stack , to align with national target
4.	Topic 4: IPv6 Deployment Planning	<ul style="list-style-type: none"> a) Network Audit Assessment b) Procuring IPv6 Address Space – connectivity c) Deploying IPv6 d) Verification 	
5.	Topic 5: case study	<ul style="list-style-type: none"> a) Web servers over IPv6 b) Email access using IPv6 c) IPv6 and DNS 	
6.	Topic 6 : IPv6 security issue	<ul style="list-style-type: none"> a) Should I care about IPv6? b) Issues shared by IPv4 and IPv6 <ul style="list-style-type: none"> i. Scanning methods ii. Viruses and Worms iii. Filtering iv. Amplification attacks v. Layer-2 attacks vi. Broadcasts vii. Routing Authentication viii. Hacking c) Specific Issues for IPv6 <ul style="list-style-type: none"> i. IPv6 header manipulation ii. Link Local vs Gobal Addressing iii. Transition Challenges iv. 6to4, 6VPE v. v4/v6 translation issues vi. IPv6 stack issues d) IPv6 Security Best Practices 	
7.	Dialogue with ISP	Topic : Infrastructure, security and etc	

Schedule:

Time	Activity	Remarks
8.30 – 9.00	Registration/breakfast	
9.00 – 10.00	Topic 1 and 2	
10.00 – 10.15	Morning Break	
10.15 – 11.00	Topic 3	
11.00 – 12.30	Topic 4	
12.30 - 14.00	Break/Lunch	
14.00 – 14.45	Topic 5	
14.45 – 15.45	Topic 6	
15.45 – 16.00	Tea Break	
16.00 -17.00	Dialogue with ISP/End of Workshop	

Speaker:

1. Mr. Adil Hidayat – Malaysian Technical Standard Forum Berhad (MTSFB)
2. Mr. Saravanan Kulanthaivelu – SKMM