

IPv6

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This panel will also focus on the impact on the enterprise and ISPs introduced by the adoption of IPv6:

- The Internet community has mistakenly focused on the IPv4 address depletion as the problem to be resolved by IPv6 for the ISPs for connectivity to web sites and forgotten to address the many issues that will affect the adoption of IPv6 by the enterprise and the critical infrastructure that are brought in by a transition from an established protocol (IPv4) to a new protocol (IPv6).
- The transition in the enterprise should be focused on a “secure transition” and a “secure integration” of IPv6. The only viable secure transition is the “secure Dual-stack” transition. All other transition mechanisms are not secure and will even drill in new vulnerabilities in the critical infrastructure networks to name the important one.
- The transition to IPv6 has to be done in the first phase to sustain not only technology parity between IPv4 features but also business models parity.
- The current deployment of IPv6 is done with IPv4 network management tools. This is a fallacy as IPv6 is a new protocol with totally different functions and features. It should be deployed with new management tools designed to cater for IPv6 features not just mimicking IPv4 and NAT. In the second phase, IPv6 should be deployed with its built-in functionalities (multicast, mobility, end to end?)
- The security in IPv6 is again not deployed, similarly to IPv4. Security is mandated in IPv6 but still no security house or solutions start with secure functionality.
- IPv6 Privacy Address is deployed only by Microsoft. All other vendors have not yet realised the randomizing features of the MAC address.

- The cost of deploying IPv6 is from now on a costly fork-lift upgrade for those that have not taken the early step of deployment. The cost of not doing anything is even higher.
- What is at stake is the “modernisation of the networks” to cater and be securely ready for all new emerging Internet based solutions like Internet of Things, Smart Grids, Cloud Computing, Smart homes and Buildings, Smart Cities, Mobile networks such LTE and Safety networks to replace aging TETRA, Mobile social networks beyond Facebook and Twitter, Mobile Internet cars, Mobile Military networks, Smart Agriculture and Food chains, Smart manufacturing, Mobile Smart Banking, ? a Smarter world.

Presentations:

IPv6 ? The Impact on Cloud Computing: From Closed Cloud to Open Inter-cloud

Latif Ladid, President IPv6 Forum, Senior Researcher, SnT ? University of Luxembourg

The Impact of IPv6 on the Large ISPs ? Explained by the Pioneer Deployer of IPv6 in the World

Yves Poppe, Director, Business Development IP Strategy, Tata Communications, Canada

The Impact of IPv6 on the Enterprise

Jacques Latour, Director of Information Technology at CIRA

IPv6 Deployment Recommendations for ICT Standards Advisory Council of Canada (ISACC)

Serge Caron, Senior Director, Information Services and Technology, ITD, CIOB, Treasury Board Secretariat at Government of Canada

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