



The M.S. Cyber and Information Security Research Seminar Invites You to Join Us for their Next Event!

IPv6 and Its Impact on Cybersecurity, Emerging Technologies, and the Future of Internet

presented by

CHARLES SUN

Friday, March 31st, 2023

11:00 AM - NOON EST

Click [here](#) to add the event to your calendar!

This event will be held via Zoom. Please register below and a Zoom link will be sent to your email the day before the event!

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In the era of Internet of Things (IoT), blockchain, AI, and many other emerging technologies, it is a daily nightmare encountered by organizations from both public and private sectors, big and small, struggling to react to the aftermath of the constant cybersecurity breaches and ransomware attacks.

The situation can only get worse in a few more years when the global IPv6 adoption rate will reach 100% running in parallel with IPv4, effectively doubling the overall attack vectors. Thus we must change our cybersecurity strategy dramatically now to efficiently secure and effectively defend the global network infrastructure by securely deploying the single stack of IPv6 and turning off IPv4 before the time is running out.

On November 19, 2020, the United States Office of Management and Budget (OMB) issued the latest U. S. federal government IPv6-only policy in its memorandum (M-21-07) titled Completing the Transition to Internet Protocol Version 6 (IPv6), directing all federal government agencies to complete at least 80% of the transition from IPv4 to the single stack of IPv6 by 2025. Given the importance of this IPv6-only policy by the U.S. federal government and the tight deployment schedules with specific milestones as stated in the OMB memo, all of the federal agencies are currently facing a huge challenge to meet the OMB mandate.

Undoubtedly, this new federal IPv6-only policy and mandate will dramatically change our national network infrastructures and the cybersecurity posture. It will also impact the global information systems including the Internet for both the public and private sectors in the days to come.

It is high time to adopt and enforce an IPv6-only policy both domestically and globally in order to reduce the overall attack vectors in the current dual mode of operations running both IPv4 and IPv6 simultaneously by setting a specific deadline to disable and sunset IPv4 globally.

Disclaimer: The views presented are only personal opinions and they do not necessarily represent those of the U.S. Government.

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Charles Sun
Information and Communications Technology Expert

Charles Sun is a highly innovative, dynamic, and experienced Information and Communications Technology (ICT) expert and visionary executive with more than three decades of extensive professional and managerial experience in both the public and private sectors, having routinely and consistently provided the state of the art, innovative, and cutting edge ICT solutions and project management with a proactive vision and common sense to many organizations in the United States.

Click [here](#) to read more about this visionary leader!

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