U.S. GOVERNMENT INITIATIVES TO ADVANCE OPEN & INTEROPERABLE NETWORKS

November 15th, 2023
Why is the USG Involved?

Security

- Creating alternatives to untrusted suppliers
- Improving network visibility
- More secure supply chains

Competition

- Lowering market barriers through interoperable networks
- Increasing technology innovation through more competition
- More resilient supply chains
U.S. Government Policy

• **National Cybersecurity Strategy**
  • “Building on the National Strategy to Secure 5G, we are working with our partners to develop secure, reliable, and trustworthy supply chains for 5G and next-generation wireless networks including through Open Radio Access Networks (Open RAN) and collaborative initiatives to diversify suppliers.”

• **Executive Order 14036 “Promoting Competition in the American Economy”**
  • “…providing support for the continued development and adoption of 5G Open Radio Access Network (O-RAN) protocols and software, continuing to attend meetings of voluntary and consensus-based standards development organizations, so as to promote or encourage a fair and representative standard-setting process, and undertaking any other measures that might promote increased openness, innovation, and competition in the markets for 5G equipment,”
# International Collaboration

## Prague Proposals on Telecommunications Supplier Diversity (PPTSD)

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<td>India</td>
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## UK Open RAN Principles & Joint Statement

| United States | United Kingdom | Australia | Canada |

## Global Coalition on Telecommunications (GCOT)

| United States | United Kingdom | Australia | Canada | Japan |
## USG Agency Involvement

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Research and Development

• **Enabling Short-Term Successes**
  • NTIA’s Innovation Fund is establishing Open RAN testing centers in the U.S. to consistent testing capabilities and better industry insight into the state of the market, improving both products developed and information available to decision makers, and is improving the ability to objectively compare open 5G systems versus closed, proprietary 5G systems.
  • DoD’s test beds are evaluating use cases for Open RAN networks to improve the efficiency of logistics and depot operations. Most notable is the warehouse test bed at MCLB Albany, GA.

• **Establishing Long-Term Foundations**
  • NSF RINGS (in partnership with DoD and NIST) seeks to accelerate research in areas that will potentially have significant impact on emerging Next Generation (NextG) wireless and mobile communication, networking, sensing, and computing systems, along with global-scale services, with a focus on greatly improving the resiliency of such networked systems among other performance metrics.
What's Next in R&D?

- DoD/NIWC Pacific/NSF RFI on FutureG
- NSF RINGS 2.0
- Innovation Fund NOFO #2
  *Coming Spring 2024*
QUESTIONS?

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