

Session 6: Technologies for Deployment of Bright Internet

Engineering Secure Net Development

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Start Engineering Network Development

- Several Options on Network Development
 1. Separate physical network
 2. Internet
 3. Intranet
 4. Application
 5. Others: SDN (Software Defined Network),...
- Testbed
 - May develop a testbed soon to validate Bright Internet proposal.
- Need to investigate the current Internet status

Standardization

- If Bright Internet is “the Internet”, it needs to go through the standardization process at IETF. An Informational RFC may be the first work item.
- If Bright Internet is an intranet or a physically separate network, it is not necessary to go through RFC process.

Case Studies

- May do case studies on important issues.
 - Facebook may be one of them for “a real name application”.
 - Banking systems including inter-bank networks on secure networking

References

- Geoff Huston, Forensic Tracing in the Internet, APRICOT, 2017.
- D. McPherson, Source Address Validation Improvement, RFC 6959, 2013.
- Jun Bi, Source Address Validation Architecture, RFC 5210, 2008.
- Rodney van Meter, Quantum Network, 2015.