

Panel on the Future of IPv6

Make It Simple:

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11. Fachtagung des ITG Fachausschusses 5.2 Kommunikationsnetze und –systeme

Chair of
Future Communication

endowed by





- ▶ **Publication of IPv6: 1998**
- ▶ **Number of RFCs related to IPv6: >500**
- ▶ **Percentage of users accessing Google by IPv6: 0.78% (Sep. 24th, 2012); up from 0.2% in Jan. 2011**
- **IPv6 is too complex**
- **IPv6 adoption is still too slow and too risky**



▶ Google usage of OpenFlow and Software Defined Networking

- Preliminary tests: early 2010
- SDN roll-out: early 2011
- SDN fully deployed: end of 2011
- Global scale

▶ Software Defined Networking (SDN):

- new separation and abstraction in networks between the physical substrate and the control plane
- permits application-specific addressing/naming, topology, routing and resource management

→ Use IPv6 as *temporal fix* but be prepared for application-specific networks using SDN

