



the Internet is for
everyone

Bandwidth Bandwagon An ISOC Briefing Panel

Leslie Daigle!
November 10 2009, Hiroshima!



InternetSociety.org

Welcome!

- We're very pleased with the interest in this session!
 - we are being live audiocast!
 - audiocast & transcript will be available for later download !!
- This is not a “technical debate”!
 - IETF is after lunch!
 - we're pulling the message out of engineering and talking to the “real world”!

Today's Topic: Bandwidth and the Internet

- "Is the Internet on the verge of collapse?!"
 - "Again?!"
- "Decision-makers want to know!"
- "“Network Neutrality” debates!"
- "Business decisions based on predictions of growth and usage (or abuse)!"

So...

- "Where are the bottlenecks?!"
- "What causes congestion?!"
- "What is the impact?!"
- "What is being done about it?!"
- "Panel composition!"
 - People with real data!
 - People with real network issues to resolve!
 - People working on technologies to make bandwidth use more effective and efficient (for all)!

The Panel

- Kenjiro Cho, IJ!
 - research on consumption of bandwidth in residential broadband!
- Rich Woundy, Comcast!
 - residential service provider experience in managing broadband bandwidth!
- Danny McPherson, Arbor Networks!
 - Internet Observatory report, findings!
- Lars Eggert, Nokia Research Center/IETF Transport AD!
 - standards activities!

Key Takeaways

- Measurement is hard!
 - Getting accurate, consistent data!
 - Extrapolating carefully and correctly!
 - Better if network operators will share !
 - and there is some progress here!
- Traffic patterns are shifting!
 - Quantity and application types are changing!
 - Content delivery is changing the nature of the Internet!
 - Less diversity in usage of ports!
- Congestion is a whole-network issue!
 - Better to work through IETF process!
 - Network operators *are* aware!