

Measurement to inform policy: who should do it?

Interconnection, privacy, and broadband performance

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Consumer broadband performance: questions

- Policy question:
 - what performance do consumers obtain using BIAS?
- Networking questions:
 - what QoS do consumers obtain using fixed BIAS?
 - using mobile BIAS?
 - what QoE do consumers obtain?

Consumer broadband performance: who should measure?

- Commercial speed test providers ?
 - volume
 - vantage point
 - paid by ISPs
- Researchers ?
 - independent
 - volume
 - vantage point
- ISPs ?
 - vantage point
 - not independent
- FCC ?
 - independent
 - vantage point
 - requires cooperation of ISPs and content/transit providers

Interconnection: questions

- Policy question:
 - how should a regulatory body determine whether interconnection agreements are reasonable?
- Networking questions:
 - what are the routes (including IXPs) for both indirect and direct interconnection between content providers and BIAS providers?
 - what is the QoS associated with each route?

Interconnection: who should measure?

- Content/transit providers ?
 - vantage point (for QoS)
 - not independent
- Content/transit providers + ISPs ?
 - vantage point (for IXP)
 - requires cooperation
- Researchers ?
 - independent
 - vantage point
- FCC ?
 - independent
 - vantage points
 - requires cooperation of ISPs and content/transit providers

Privacy: questions

- Policy questions:
 - what personal information is collected by various types of entities
 - how is it used?
 - with whom it is shared and for what purposes?
- Networking questions:
 - what personal information is collected?
 - is it collected by first and/or third parties?
 - with whom is it shared?

Privacy: who should measure?

- App or service providers ?
 - vantage point
 - purpose
 - constraints for shared personal information
 - not independent
- Researchers ?
 - independent
 - vantage point
 - purpose
 - constraints for shared personal information
- FTC ?
 - independent
 - purpose
 - not scalable ?