Progress and challenges for core Internet principles in 2013

Alejandro Pisanty

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | Progress | Challenge/regression | Tie/neutral/unclear |
| Interoperability - has the Internet become more interoperable or less? Are proprietary standards, devices, and operations growing faster than systems and services which comply with accepted open standards? | Increased development of interoperable IPv6 devices and applications | Continued development of competing, non-interoperable protocols (example: MPLS-TP OAM outside IETF) | Core Internet protocols continue to operate |
|  | Internet continues to grow |  |  |
|  | DNSSEC deployment continues |  |  |
|  | RPKI deployment |  |  |
| Openness – is the Internet more or less open than a year ago in the development of standards,  and in the ability to connect any device or network? Are there more or less gateways, of larger or smaller effect? |  | Carrier grade NAT (CGN) deployment | Chilling effects of surveillance-related news |
|  | New people and organizations taking part in Internet governance | Kill Switch attempts |  |
|  | Massive expansion of uses and users | Calls for “national Internet” projects |  |
|  | New light about massive communications surveillance |  |  |
|  | WCIT baby steps toward openness, outside influence |  |  |
|  | More countries and regions are beginning to build Internet communities, governments starting to open up consultations, Developing countries are starting to interconnect with each other instead of going through a developed country. |  |  |
| End-to-end -  do communications over the Internet reach any destination from any origin point in the form desired by the sender, with the network core dedicating efforts only to fast, efficient and transparent delivery? | Some countries have shut down or limited (or continued to limit) international Internet connectivity over internal unrest. | There are still a number of problems in utilizing IPv6 end-to-end |  |
|  | WCIT concluded with no onerous provisions related to the Internet in the main text of the treaty.  Most such proposals were not included in the final treaty. | CGN |  |