**IPNNI- 2014-00xxx**

**Contribution**

**TITLE:** IP Interconnection Routing Report: Appendix A update

**SOURCE\*:** Sprint (David Holmes)

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**ABSTRACT**

This document provides a Word document version of Appendix A that was added to revision 7 of contribution 83. It also provides some additional clarification & ordering of the criteria, for ease of review & application. Specific text changes are highlighted in yellow for ease of review only.

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# Appendix A - Comparative Characteristics Matrix

The IP-NNI Task Force developed the following list of comparison characteristics that could be used when evalutating potential solutions**.**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Characteristics Group** | **Characteristics** | **Information type** |
| 1 | Performance | **Scalability**  | List issues & quantify |
| 2 |  | Reliability | List issues & quantify |
| 3 |  | Call setup time | Value range & conditions |
| 4 |  | Impact on signaling traffic | Quantify |
| 5 | Service requirements | [Ability to] specify interconnection information with finer granularity than at the service provider level | Yes/No |
| 6 |  | [Ability to] specify different interconnection attributes for different groupings of a service providers’ numbers | Yes/No |
| 7 |  | Provides a mechanism for aggregation of routing information above the individual number level.  | Yes/No |
| 8 |  | Provides a mechanism to get some insight into the service capabilities of destinations before routing a call.  | Yes/No |
| 9 |  | Supports the ability to provide GETS.  | Yes/No |
| 10 |  | Provide a mechanism for interconnecting carriers to identify different interconnection points (for a given group of TNs) depending on the originating carrier.  | Yes/No |
| 11 |  | Enables the service provider connecting to the terminating provider to select the interconnect point, consistent with the preferences identified by the terminating carrier.  | Yes/No |
| 12 |  | Provides the ability to exchange routing data between carriers in bulk.  | Yes/No |
| 13 |  | Provides the ability to query a locally cached copy within each carrier, rather than always having to query the terminating carrier.  | Yes/No |
| 14 |  | Provides a clear path to a global solution | Yes/No |
| 15 |  | Provides a good solution for the end-state all-IP network | Yes/No or degree? |
| 16 |  | Maintains backwards compatibility to (or interworking) during the transition to an all-IP network | Yes/No |
| 17 |  | Ability to support non-E.164 public user identities | Yes/No |
| 18 |  | [Solution must be] synchronized to number portability [solutions?] | Yes/No |
| 19 |  | Solution is not tied to historical geography of numbering plan | Yes/No |
| 20 |  | Support for open internet routing | Yes/No |
| 21 | Solution complexity | Time to implement – common infrastructure | Quantify |
| 22 |  | Impact on [core?] network elements?  | Enumerate & quantify |
| 23 |  | Impact on existing service provider systems | Enumerate & quantify |
| 24 |  | What external bodies are required to modify existing arrangements, systems, etc.?  | Enumerate |
| 25 |  | Impact on existing industry systems | Quantify |
| 26 |  | Level of dependence on “CO codes”, even during the transition?  | Quantify |
| 27 |  | Needs for additional industry systems & interfaces?  | Quantify |
| 28 | Security | Increase in vulnerability | Quantify |
| 29 |  | Support for secure tunnels | Yes/No |