OIF OPTICAL INTERNETWORKING FORUM

May 29, 2008

To: Mr. Adrian Farrel, IETF CCAMP Co-Chair, adrian.farrel@aria-networks.com
Ms. Deborah Brungard, IETF CCAMP Co-Chair, dbrungard@att.com
Cc: Mr. Ross Callon, IETF Routing Area Director, rcallon@juniper.net
Mr. David Ward, IETF Routing Area Director, dward@cisco.com
Mr. Jonathan Sadler, Jonathan.Sadler@tellabs.com

From: Mr. Lyndon Ong, OIF TC Chair, lyong@ciena.com

Subject: **Liaison to IETF on G.7715.1 Routing Requirements**

Dear Adrian and Deborah,

We have been monitoring the work on ASON routing in the IETF CCAMP WG as we have done prototyping work on multi-layer routing. As a result agreed at the 2Q2008 TC Plenary meeting, we have identified a number of requirements in ITU G.7715.1 that we believe are important and may be helpful input to your work.

G.7715.1 includes requirements that many attributes of a link be advertised on a layer-specific basis. These attributes, described in Section 9.5.1, include:

- Signal Type
- Link Capacity
- Link Weight *
- Resource Class *
- Link Availability *
- Diversity Support *
- Local Connection Type +
- Local Client Adaptations Supported +

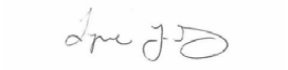
Current IETF extensions to OSPF cover most of these attributes, but they are not provided on a layer-specific basis. These items are identified above by an asterisk (*). Additionally, two of the attributes we cannot identify as being provided by GMPLS routing. These are identified above by a plus (+).

As the OIF has been working on multi-layer routing we have found that maintaining attributes on a layer-specific basis is beneficial. Furthermore we find the Local Connection Type and Local Client Adaptation information useful for identifying the multi-layer relationships that exist at a link end.

As we continue work on multi-layer routing, we anticipate needing extensions to GMPLS routing to provide these functions. We therefore request the IETF consider these requirements as they continue work on ASON routing.

Thank you.

Sincerely yours,



Lyndon Ong
OIF Technical Committee chair