GLIF Performance Verification Architectures Task Force - Charter Statement
November 8, 2011

The GLIF End-to-End Performance Verification Architectures task force is chartered to develop recommendations for a deterministic, scalable, and secure architecture for determining the delivered end to end performance characteristics of emerging light path (connection oriented) network services.   The Task Force should consider the OGF NSI Framework as the basis for the delivery of these light path services and so the resulting recommendations should support and complement the NSI Framework and may influence that Framework where appropriate.

The E2E PVA recommendations may address any/all aspects of service delivery that will affect the predictable, deterministic, and scalable verification of light path performance. This includes but is not limited to service definitions/specifications, provisioning and/or control plane issues, formal methods for modeling (i.e. predicting) and manipulating such services, verification algorithms, formal methods for fault localization, and security and privacy of services, service domains, and the information gathered as part of this process. Verification of service performance should be considered for all aspects of the light path life-cycle- i.e. during selection and allocation of resources, during initial provisioning, and continuously during the active use of the service.

The Task Force should view this as a green field opportunity and not feel compelled to define an architecture that is backward compatible with any existing networks or tool sets. It is of greater importance for the TF to develop a well considered, long term, and comprehensive future facing architecture that will bring greater predictability and reliability to these emerging light path services. To this end, experience with such tool sets and processes will be a valued asset in the discussions.

Task Force Management:

The Task Force will be chaired by two members of the GLIF community.   The Chairs' responsibility is to insure that the task force is well managed and is able to make progress towards its objective(s). The role of the Chairs is to encourage a rigorous treatment of the issues and potential solutions, and to insure that the task force arrives at a well-considered consensus architecture for end-to-end performance verification. Otherwise, the chairs may participate in the technical considerations as other members of the task force. The Chairs are initially Mr. Jerry Sobieski (Director, International Research Initiatives, NORDUnet) and Dr. Stephen Wolff (Chief Technology Officer, Internet2).

The Task Force is an _open_ task force.   Any member of the community is welcomed to participate provided they inform themselves of the issues facing the task force and are willing to contribute in an objective, collaborative, constructive, flexible, respectful, and thoughtful manner.

The Task Force will establish regularly scheduled voice conference calls to discuss the issues. An email list consisting of interested and participating individuals will be established and used to discuss relevant issues. Where and when possible, video conferencing will be employed and face to face meetings will be held in conjunction with other community workshops and conferences.

The task force will present progress updates to the general GLIF community at the regular GLIF workshops.

A final End-to-End Performance Verification Architecture recommendation document will be the overall objective of this task force, after which the Task Force may be disbanded.