



19th GLIF Technical Working Group meeting
17 January, 2013
Honolulu, Hawaii, USA

The GLIF Technical Working Group held its winter meeting on 17 January 2013 at the University of Hawaii, Honolulu, United States. This was organised in conjunction with the TIP2013, a joint conference of APAN and Internet2 Joint Techs meetings.

<<http://www.glif.is/meetings/2013/winter/>>

Forty participants from all around the globe had a productive meeting co-chaired by Lars Fischer (NORDUnet) and Eric Boyd (Internet2). In his introduction Lars mentioned the need for re-structuring the GLIF Tech meetings that are currently not evenly distributed along the year. Three Tech WG meetings per year would fit better to the actual workload of the task forces therefore, for the first time. GLIF Tech is trying to be co-located with the TERENA Networking Conference in June, 2013. Good experiences may lead to a tradition.

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The Inter-domain SDN Architecture Task Force held its kick-off discussion facilitated by four prominent presenters of the GLIF community and a draft charter presented by Eric Boyd (Internet2).

<<http://www.glif.is/meetings/2013/winter/slides/20130117-DRAFT-Charter-GLIF-Interdomain-SDN-TF-v1.0.pdf>>

The meeting participants felt that a common vocabulary is needed; especially the definition of an SDN domain must be clarified in a clear vision statement document. Potential use cases must be collected and priorities must be set in order to define and prototype the inter-domain SDN architecture. Influencing the major SDN vendors not to forget about the inter-domain aspects would be the main objective of the demonstrations planned.

Eric Boyd (Internet2)

<<http://www.glif.is/meetings/2013/winter/slides/20130117-isdn-eb.pdf>>

Dale Finkelson (Internet2)

<...>

Ronald van der Pol (SURFnet)

<<http://www.glif.is/meetings/2013/winter/slides/20130117-isdn-rvdp.pdf>>

Tom Lehman (MAX)

<<http://www.glif.is/meetings/2013/winter/slides/20130117-isdn-tl.pdf>>

Ezra Kissel (Indiana University)

<<http://www.glif.is/meetings/2013/winter/slides/20130117-kissel-xsp-glif.pdf>>

Gerben van Malenstein (SURFnet) gave a brief update to the NetherLight GOLE.

<<http://www.glif.is/meetings/2013/winter/slides/20130117-ned-gvm.pdf>>

Cees de Laat (UvA) talked about GreenSONAR emphasizing the importance of “eco calculation” of routes in cyber-infrastructure. The GLIF community fully supports the Green IT vision but did not feel starting a new GLIF Tech task force on the topic yet.

< <http://www.glif.is/meetings/2013/winter/slides/20130117-green-cdl.pdf> >

Jeroen van der Ham (UvA) and Inder Monga (ESnet) pointed out the importance of the distributed topology exchange. The DToX Task Force has been able to show the need for topology exchange, supported the creation of a topology representation, and performed a questionnaire to find community opinion. In close collaboration with the AutoGOLE pilot the task force is now calling for action to demonstrate the possibility of the distributed topology exchange.

<<http://www.glif.is/meetings/2013/winter/slides/20130117-dtox-jvh.pdf>>

The Dynamic GOLE Services Task Force (aka. AutoGOLE) thanked the outstanding efforts of Jerry Sobieski (NORDUnet) who has been stepped down as the chair of the task force and fully supported its new leader Gerben van Malenstein (SURFnet). Gerben is willing to bring the AutoGOLE pilot to the next level by improving the facility to be a good vehicle for real use cases and applications even between the regular demonstrations. The revised charter of the task force will put the stakes in the ground focusing on NSI 2.0 implementations and the close collaboration with the DToX Task Force.

<<http://www.glif.is/meetings/2013/winter/slides/20130117-dyn-jg.pdf>>

Jerry Sobieski (NORDUnet) gave an update to the Performance Verification Task Force. The task force will issue a paper that describes the notion of performance verification, why the current performance verification architecture is broken and why the existing tools cannot be used. All service specifications must be explicate and measureable in the end supported by an appropriate verification architecture. The task force, with re-scheduled conference calls, is waiting for more contributors to prototype and demonstrate this concept.

<<http://www.glif.is/meetings/2013/winter/slides/20130117-pv-js.pdf>>

The green paper about the GLIF end-to-end architecture was presented by the Defining GLIF Architecture Task Force co-chaired by Bill StArnaud, Erik-Jan Bos (NORDUnet), and Inder Monga (ESnet).

<<http://www.glif.is/meetings/2013/winter/slides/20130106-GLIF-Architecture-Green-Paper.pdf>>

As it is stated in the paper, GLIF is currently a network-to-network construct and the question is how we can truly develop an end-to-end architecture right to the application or user's desktop. Developments in the area of scientific applications, traffic engineering, SDN networks and inter-domain aspects must be seriously considered when answering this question. The green paper is seeking for the actual interest of people what they can bring together under the GLIF umbrella. The floor remained open for further discussion off-line.

< <http://www.glif.is/meetings/2013/winter/slides/20130117-arch-bie.pdf> >

At the end of the exhausting day, Lars Fischer (NRODUnet) summarised the main achievements of the 19th GLIF Tech meeting and on behalf of SingaREN kindly invited everyone to the 13th Annual Global LambdaGrid Workshop to be held on 2-4 October 2013 in Singapore.

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As a closing remark, Peter Szegedi (TERENA) announced the recent changes to the internal structure of the GLIF Secretariat continued to be provided by TERENA.

< <http://www.glif.is/meetings/2013/winter/slides/20130117-GLIF-Secretariat-changes.pdf>>

Overview of GLIF Tech WG task forces

Closed	Running	Just proposed
<i>None</i>	<i>Dynamic GOLE Services</i> Chaired by Gerben van Malenstein (SURFnet)	<i>None</i>
	<i>Distributed Topology Exchange</i> Co-chaired by Jeroen van der Ham (UvA) and Inder Monga (ESnet)	
	<i>GLIF Performance Verification Architectures</i> Co-chaired by Steve Wolff (Internet2) and Jerry Sobieski (NORDUnet)	
	<i>NSI Implementation</i> Chaired by Inder Monga (ESnet)	
	<i>Defining GLIF Architecture</i> Co-chaired by Bill St. Arnaud, Erik-Jan Bos (NORDUnet), and Inder Monga (ESnet)	
	<i>Inter-domain SDN</i> Co-chaired by Eric Boyd, Steve Wolff (Internet2)	

List of 19th GLIF Tech WG meeting attendees (42)

Celeste Anderson	University of Southern California
Jeronimo Bezerra	AmLight/CIARA/RNP
Scott Brim	Internet2
Emilie Camisard	GIP RENATER
Che-Hoo Cheng	CUHK/HKIX
Buseung Cho	KISTI(KREONET/GLORIAD-KR/KRLight)
Greg Cole	GLORIAD/University of Tennessee
Michael Enrico	DANTE
Rob Evans	JANET
Jarda Flidr	Mid-Atlantic Crossroads (MAX)/Univ. of Maryland
Takatoshi Ikeda	KDDILABS
Ron Johnson	Pacific NorthWest Gigapop, Pacific Wave, and Univ. of Washington

Eiji Kawai	NICT
Josva Kleist	NORDUnet A/S
JongUk Kong	KREONET, KISTI
Tomohiro Kudoh	AIST
Christiaan Kuun	SANReN - South African National Research Network
Tom Lehman	Mid-Atlantic Crossroads (MAX)/Univ. of Maryland
Teck Chaw Ling	University of Malaya, Malaysia
Iara Machado	RNP
George McLaughlin	APAN
Alex Moura	RNP
Edward Moynihan	Internet2
Azher Mughal	Caltech
Harvey Newman	Caltech
Hideki Otsuki	NICT
Yves Poppe	Tata Communications
John Qu	Northrop Grumman
David Reese	CENIC
Don Robertson	AARNet
Pavel Skoda	CESNET a.l.e.
Steven Smith	University of Hawaii - Info Tech Svcs
Bill St. Arnaud	SURFnet
Peter Szegedi	TERENA
Jin Tanaka	KDDI/NICT
Jeroen van der Ham	University of Amsterdam
Ronald van der Pol	SURFnet
Gerben Van Malenstein	SURFnet
Alan Verlo	UIC/StarLight
David Wilde	AARnet
Stephen Wolff	Internet2
Colin Wright	SANReN: South African National Research Network