IETF 87

IPPM Session

09:00 - 11:30, 31Jul13

Time	Who	Subject	Further Action
09:00	**B Trammell**	**Agenda Bashing, Note Well**	
09:05	**J Fabini**	**Advanced Stream and Sampling Framework for IPPM (draft-ietf-ippm-2330-update-00)**	
	J Fabini	Traffic generated on mobile network exhibit patterns, i.e. samples on HSPA are not random but show effects of lower layers. Therefore without random-regeneration there are artifacts of underlying network layers such as clustering of results.	
09:18		**Discussion on presentation**	
	P Kostas	There are issues with repeatability, one needs to understand the lower layers such as Layer2 to get usable results.	
	J Fabini	Is there a proper definition of "reactive network"?	
	P Kostas	Note that HSPA is not deployed everywhere, but will be obsolete soon. How to take care of that? What about "Software Defined Networks" and other pertinent problems?	
	J Fabini	TSRC is applicable to other areas such as LMAP. Prefer hop-by-hop metrics compared to end-to-end.	
	P Kostas	We have problem with Wimax as it was not designed to do VoIP.	
09:23	**A Morton**	**Model Based Metrics (draft-ietf-ippm-model-based-metrics-00)**	
	A Morton	Testing of Bulk transport capacity is hard. M Mathis coined "Meta-Heisenberg" notion Difficult to test cross traffic, model based testing is a better way to do testing. Parallel TCP connections are another problem to be tackled by model based testing.	
	S Dawkins on Jabber	Do people have a sense of how tied to TCP this draft is? I'm wondering how much changes if you do SCTP, for example. Probably not important, just being curious.	
	M Mathis	SCTP is supposed to be "TCP compatible" on these details.	
	A Morton (resuming presentation)	use open-loop congestion control mimic all typical tcp traffic defeat congestion control also have to take slow start into consideration and how do we find out start of packet loss based on queue length target pipe burst in section 8 should pass and then all other tests will pass headway needs to calculated for sending packets and must also account for slow start. SPRT - sequential probability ratio test	
09:50		**Discussion on presentation**	
	M Scharf	What model of TCP was used?	
	A Morton	Model should be Cubic/NewReno. In future, will specify models.	
	B Tammell	Please make sure that models are comparable and expressed in the same way.	
	R Geib	Subpath folding into complete path needs to be clarified. Measurements need to be done subpath by subpath.	
	N Elkins	Regarding rate of Acks being received: discussion necessary if delayed acks are used. If delayed acks are used the all bets are off.	
	S Chakrabarti	How will you know ahead what the subpaths are ? You will need to take all subpaths into consideration.	
	B Tammell	Anyone volunteering to take this question further? Next revision to include more details.	A Morton

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09:55	**A Morton**	**LMAP Reference Path and Measurement Points (draft-ietf-ippm-lmap-path-00)**	
	A Morton	How are we going to find which paths are shared and which are not before doing measurement. The subscriber definition needs to be consistent.	
10:01	**A Morton**	**RFC 2680 (1-way Loss) Test Plan and Results (draft-ietf-ippm-testplan-rfc2680-03)**	
	A Morton	Use RFC 6390 : BCP guidelines for new performance metrics	
10:06		**Discussion on presentation**	
	B Trammell	Deadline WGLC probably in August Please read document	IPPM WG
10:08	**A Morton**	**Rate Measurement Test Protocol Problem Statement (draft-ietf-ippm-rate-problem-03)**	
	A Morton	Only doing active measurements. No protocol suggestions. Need both symmetrical and asymmetrical measurements	
10:13		**Discussion on presentation**	
	B Trammell A Morton	Put that on charter for IETF 88 Vancouver? OK	A Morton
10:15	**P Kostas**	**Network Performance Measurement for IPsec (draft-ietf-ippm-ipsec-00)**	
10:28		**Discussion on presentation**	
	A Morton A Morton Y Nir B Trammell S Chakrabarti	If we extend TWAMP, we are burying mode bits. We have only 32 bits to show mode. How to use the last half of the fields to use combination bits. Write draft for the combination bits. How do tunnels / non-tunnels combinations sort out ? Ipsec implementation does not have an API. You are extracting keys and other things. Can we use DTLS ? Draft uses ESP and AH. Use IPSec when necessary and other protocols for measurement security protection Solves real-life problems with deployments with ISPs. I can contribute and work together.	 P Kostas / A Morton S Chakrabarti
10:35	**M Bagnulo**	**A registry for IPPM metrics**	
	M Bagnulo	IPPM had a registry and it was obsoleted. It was not sufficiently detailed for identifying IPPM metrics LMAP is now a user of the IPPM metrics Combine metrics from different registry and use the combination as a registry.	
10:46		**Discussion on presentation**	
	J Fabini M Bagnulo B Trammell	Due to RFC 2330 update packet sizes range. Variable packet ranges need to be flexible. Source / Destination are also open. Do you need the name of registry as part of the metrics ? We had to throw away such a registry. You need variable parameters for metrics.	

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10:50	**B Claise**	**Performance Metrics Registry (draft-claise-ippm-perf-metric-registry)**	
11:01		**Discussion on presentation**	
	M Bagnulo	Agree with the act of standardisation and finding metrics in one place. Need a list of all metrics, plus have a subset with some metrics. However we should not allow explosion just because there are specific measures needed.	
	B Claise	Avoid explosion as all metrics are not important and need definition.	
	B Trammell	Perf metrics in protocol and perf metrics in IPPM are different. They are different problems. Need parametric columns.	
	A Morton	Need Parametrisation. Probably Gilbert-Elliott mean of burst for number of packets - for a threshold.	
	J Fabini	Repeatability is important so that comparisons are possible.	
	A Morton	Delineation of Type P is not possible. Narrowing down the parameters needed such as for LMAP.	
	P Eardley	(not loud enough, comment was unintelligible)	
11:20	**G Mirsky**	**Type-P Descriptor Monitoring (draft-hedin-ippm-type-p-monitor-01)**	
11:22		**Discussion on presentation**	
	B Trammell	Please read Draft	IPPM WG
11:22	**T Mizrahi**	**UDP Checksum Trailer in OWAMP and TWAMP (draft-mizrahi-owamp-twamp-checksum-trailer)**	
11:25		**Discussion on presentation**	
	B Trammell	Please send comments	IPPM WG
11:25	**M Chen**	**Coloring based IP Flow Performance Measurement Framework (draft-chen-ippm-coloring-based-ipfpm-framework)**	
	M Chen	Presenter gives scenario of passive measurement	
11:29		**Discussion on presentation**	
	B Trammell	Please comment	IPPM WG
11:30	**B Trammell**	**Meeting adjourned**	