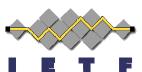
IPFix Evaluation Report 55th IETF - Atlanta, GA

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Summary of first version of Evaluation Draft

LFAP TETPTN/AAA N/TTTTTTFN/TEN/A TT	CRANE E E E T T N/A A N/A N/A T T T T T T F N/A A N/A T T T T T T T T T T T T T T T T T T T	IPDR EEETTN/AAA N/TTTTTTFN/TEN/ATT	Net- Flow EETTPN/N/N/TTEPTTFN/TEN/N/TT	Dia- meter EEETN/AAA N/TTTTTTFN/TEN/A TT	Reliability (5.1) Sampling (5.2) Overload Behavior (5.3) Timestamps (5.4) Time Synchronization (5.5) Flow Expiration (5.6) Multicast Flows (5.7) Packet Fragmentation (5.8) Ignore Port Copy (5.9) Information Model (6.1) Data Model (6.2) Congestion Awareness (6.3.1) Reliability (6.3.2) Security (6.3.3) Push Mode Reporting (6.4) Pull Mode Reporting (6.4) Regular Report. Interval (6.5) Notif. on Specif. Events (6.6) Anonymization (6.7) Conf. of the metering Proc. (7.1) Conf. of the exporting Proc (7.2) Openness (8.1) Scalability (8.2)
T	T	T	T	T	Scalability (8.2)
T	T	T	T	T	Several Collecting Proc (8.3)
13	12	12	10	11	number of Ts
2	4	4	4	5	number of Es
1	0	0	2	0	number of Ps
1	1	1	1	1	number of Fs



Evaluation Team Revision

LFAP	CRANE	IPDR	NetFlow	Diameter	
T	E	E	E	E	Metering Reliability (5.1)
E	E	E	E	Ε	Sampling (5.2)
T	E	${f E}$	T	E	Overload Behavior (5.3)
P	T	T	T	E	Timestamps (5.4)
T	T	T	P	Т	Time Synchronization (5.5)
T	T	T	T	Т	Information Model (6.1)
T	T	T	T	T	Data Model (6.2)
T	T	T	${f F}$	T	Congestion Awareness (6.3.1)
T	T	T	P	T	Data Transfer Reliability (6.3.2)
T	E	E	${f E}$	E	Security (6.3.3)
T	T	T	T	Т	Push Mode Reporting (6.4)
F	F	F	F	F	Pull Mode Reporting (6.4)
T	T	T	T	Т	Notif. on Specif. Events (6.6)
E	E	E	E	Ε	Anonymization (6.7)
T	T	T	T	Т	Openness (8.1)
T	T	T	T	Т	Scalability (8.2)
Т	T	T	Т	Т	Several Collecting Proc (8.3)
13	11	11	9	10	number of Ts
2	5	5	4	6	number of Es
1	0	0	2	0	number of Ps
1	1	1	2	1	number of Fs



Additional Selection Criteria

- Simplicity
- Template based approach
 - Concurrent templates
- TLV based approach
- Extensibility
- Support for variable length fields
- Split reporting
- More?



Summary

- None of the protocols conform to the requirements as they stand today (version –07)
- Resolve open issues that might affect evaluation team draft.
- Advocates need to update their respective drafts in response to the evaluation team findings.
- The evaluation team will then update (if needed) the team draft.



Juergen & Reinaldo's Proposal

Multi-level protocol extensions

- IPFIX protocol needs to be open to several reliability extensions (transport and application layer)
- Extensions could be standard or experimental track RFCs.
- This could be a MUST in the specification



Going Forward

- Could we eliminate some of the protocols as a first step? How?
- Can we reach consensus on one of the candidates?
- What changes are *required* in the chosen protocol?

