

TTM WG RIPE 49

- 40+ attendees
- 6 presentations
- Scribe: Matthew W. Thank You!

TTM Agenda

- TTM Status Update (Henk Uijterwaal, RIPE NCC)
 - RIS transfer to OPS success, TTM transfer in progress
 - Memory leak problem fixed root server monitoring and classic TTM is OK
- Modeling end-to-end delays using Weibul distributions mixtures (Iain Phillips, Loughborough University, UK)
 - Based on TTM data, delay metrics seem predictable
 - recomputable distributions may be applied to TE, monitoring, etc.
 - Interesting network monitoring visualization work

TTM Agenda

- The “Metropolis” Project (Kave Salamatian, LIP6, France)
 - Goal: Statistics in the service of Internet metrics prediction
 - Method: large scale data collection and analysis framework based on kernel based loadable measurement modules and DAG/Endace line speed traffic capture
 - Results: Watch for: [Traceroute@HOME](#) & RTCP IETF draft
- SMARTxAC: Passive monitoring of high speed links (Jordi Domingo-Pascual, Universitat Politecnica de Catalunya, Barcelona, SPAIN)
 - Goal: billing, performance monitoring, anomaly detection
 - Method: line speed data collection using DAG/Endace cards and CoralReef (Thank you CAIDA!)
 - Results: by AS traffic volume matrices, high rate data compression of flow classification (order of 1000) from 25GB to 20MB, CoMo (Intel Labs) integration

TTM Agenda

- “CoMo”, Open Monitoring Infrastructure Project (Gianluca Iannaccone, Intel Labs, Cambridge, UK)
 - Goal: Define open measurement framework in order to discover key metrics that can benefit from h/w support
 - Method: develop global infrastructure of PCs equipped with DAG/Endace cards and GPS
 - Results: architecture complete, scalable, anonymizing, user configurable measurements and querying, scalable h/w support
- 6QM Solution for Ipv6 QoS Measurements (Jordi Palet Martinez, ConsulIntel, Spain)
 - Goal: define and implement IPv6 open and configurable measurement platform on commodity h/w and s/w (FreeBSD, Linux)
 - Method: passive/active or combination measurements, for IPv6 or 6in4 complete with probe, collection and visualization s/w; functional modules may be distributed across Ases/
 - Results: work is complete and available for open distribution

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Theme & Conclusions

- Cross AS measurement is becoming a clear need for performance, diagnostic and security problems
- Many platforms have been developed; data is not compatible, metrics choices still under research
- Unified data collection needed by a trusted 3rd party with no commercial affiliations open to research and the SP community