

TTM Future

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Introduction

- TF formed at RIPE53
- Did charter
- Started discussion rather late
- Current ideas



Users of our data

- TTM hosts
- Community at large

DNSMON



Current services on the boxes

- Delay/Loss/Jitter/Traceroute
 - Clear interest at RIPE52
 - Keep the possibility to do them
 - This includes all known features
 - Network alarms
 - DQM
 - Data visible on TB as it is collected



Current services on the boxes (2)

- D/L/J/T setup
 - Transition to OWAMP as control mechanism

- OWAMP allows for measurements on demand by users
- OWAMP allows for measurements outside network

- NCC to define a baseline set of measurements
- User can tune this



Current services on the boxes (3)

D/L/J/T data collection

- NCC:

- Only data for the measurements it started
- Collect and store in a public place
- Initial processing
- Reduce number of plots and lists available by default, all other available on demand

- User:

- Has to collect, store and process data for measurements on demand
- Can use our software
- Data is not publicly available



Current services on the boxes (4)

- DNSMON
 - DNSMON is a valuable service
 - We will keep it as is



New services on the boxes

- Protocol beacon:
 - Something that sends out packets for a service on a regular basis, allowing people to monitor their systems.
 - Examples:
 - Multicast work
 - Debogon prefixes for the RIS



New services on the boxes (2)

- Network experiments
 - Set up mechanism to do one-off network experiments
 - Proposal, measurement, analysis, publication
 - The TB will just offer the framework for the experiment
 - Proposer has to do the work
 - Similar models have been proposed (VINI, PlanetLab, ...): copy or collaborate
 - This is intended as a community services for R&D on the Internet
 - Example from the past: Kroot anycast measurements



New services on the boxes (3)

- CBM reference point/server
 - Configuration site
 - Target for the measurements
 - Work on aggregation of the data
 - Reports from one user into reports for an ISP
 - Reports from individual users into a report for a service



Combining TTM data

- Try to combine the data with other services
- Better integration with other services



Ownership of the boxes:

- For both TTM and DNSMON, it is essential that there are a large number of active TTM boxes at interesting locations.
- NCC to install boxes at important locations
 - NCC pay h/w and operations
- Main criteria for hosting a box:
 - Major AS
 - 1/AS
 - Commitment
- Others can still order boxes as before.



Hardware

- Outdated hardware, hardware without a current contact person, etc, is an ongoing concern for our operations group
- Suggestions;
 - Write off hardware (3-4 years)
 - Switch off hardware unless it is replaced
 - Current hardware older than 3 years will be phased-out and/or replaced.
 - We will allow people to build their own box, subject to the restriction that our software will run on it without modifications.
- We will start to support GPS-free boxes (TSC clock) once that technology is mature



Administrative

- Our finance department faces a lot of problems collecting the service fee.
 - Not clear that the SF is an integral part of the service
 - Contact people have disappeared
- Suggestions
 - Revise current contracts
 - Single contract to cover:
 - Hardware
 - Service fee for a 3 year period
 - Shipping, import/export duties, ...
 - Pay once in advance, no "hidden fees"
 - HW support for the boxes will cover the lifetime of the boxes.



Administrative (2)

 The service for sites from whom we have no confidence in receiving further payments will be stopped

 Sites will be asked to provide current contact information and to regularly check this



Lifetime of this proposal

- This is a 3-year plan, 2007-2009
- To be evaluated afterwards



Operational (for the NCC)

- The number of operational problems will be reduced, as the H/W will be newer as well as more uniform.
- Contacts for the boxes should be well known again



Timelines and schedule

- Discussion
 - Here
 - ML
- Formal proposal
 - SMP/PDP
 - Board to sign off on the euro's
- Do the work
- Axel's talk



Discussion

- Discussion
- Comments
- Questions