



# Test Traffic Measurement Futures Update

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# The Story So Far...

- RIPE 52 - Istanbul
  - Presentation and discussion
- RIPE 53 - Amsterdam
  - Task force formed

2006

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- RIPE 54 - Tallinn
    - Draft proposal
  - RIPE 55 - Amsterdam
    - Displayed prototypes
    - Got consensus

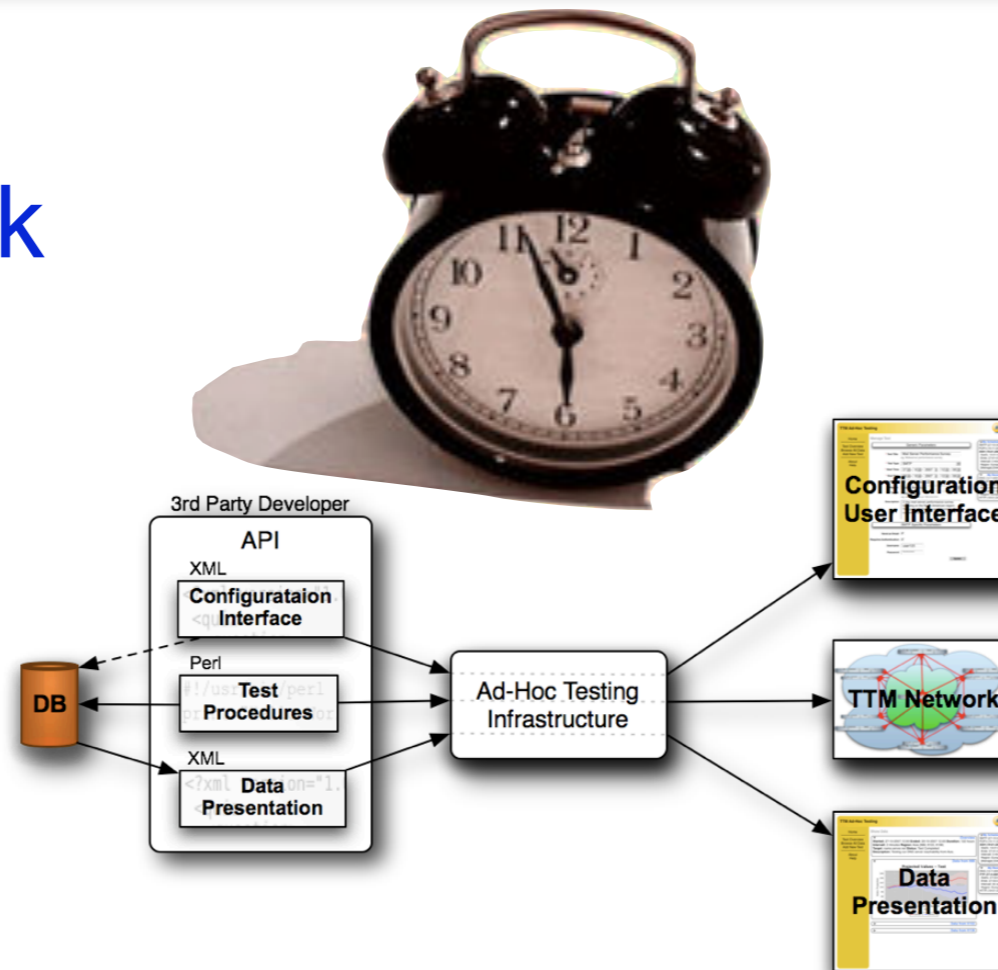
2007

- 
- RIPE 56 .....

# Current Status

- Alarms framework

- Ad-Hoc testing



- Pricing

- Sponsored nodes





# Pricing

- Annual fee of EUR 1800
  - Three year commitment
  - Extend for 2 years (EUR 1000 annual service fee)
- One-time payment EUR 5000 for three years
  - Extend for 2 years (EUR 1000 annual service fee)
- Available for new subscribers now
  - Migrate existing users



# Sponsored Nodes

A screenshot of the RIPE Document Store website. The page has a blue header with navigation links: "RIPE NCC", "LIR Portal", "RIPE", "About RIPE", "Contact", "Search", and "Sitemap". Below the header is a green banner with the RIPE logo and the text "RIPE Document Store". A search bar with "Quick Links" and a "GO" button is visible. The main content area shows a breadcrumb trail: "you are here: RIPE -&gt; RIPE Document Store". The document title is "Hosting a Sponsored RIPE NCC Test Traffic Measurement (TTM) node" with a "PDF" button next to it. Below the title, it says "RIPE NCC" and "Document ID: ripe-430", "Date: 29 April 2008". At the bottom, there is a paragraph of text: "The TTM service relies on the support of paying customers to ensure that there are a large number of nodes on the network. In order for TTM to be useful for a wide range of users, it is sometimes necessary to place nodes in locations where there is no customer to fund an".

- Criteria document published
  - <http://www.ripe.net/docs/ripe-430.html>
- Formal agreements with
  - LINX
  - APNIC
  - ... more under discussion



# Test Traffic Measurement

# Distributed Measurement System

# Test Traffic Measurement



# Test Traffic Measurement



**10 $\mu$ s accuracy**

**1000 $\mu$ s  $\approx$  camera flash**





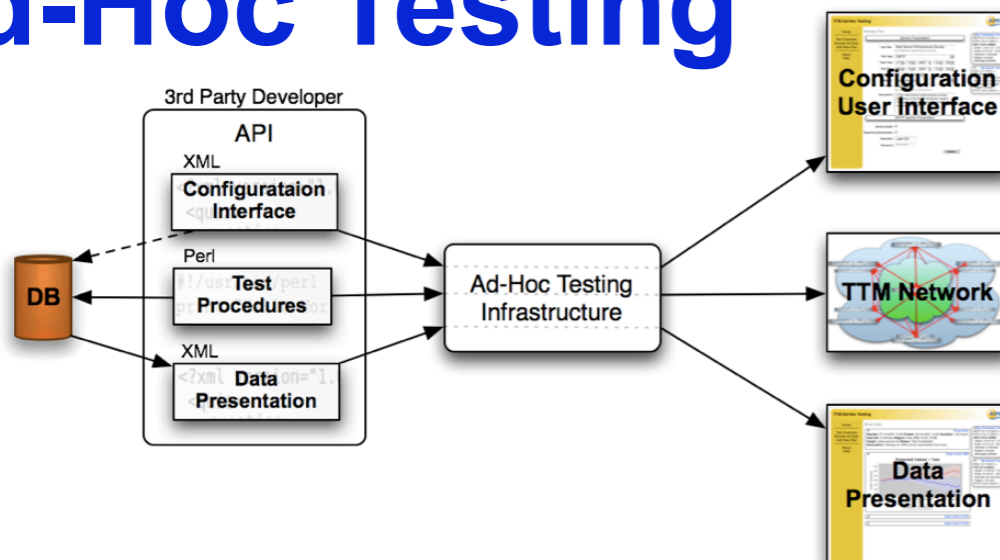
# TTM Futures

## Alarms Framework

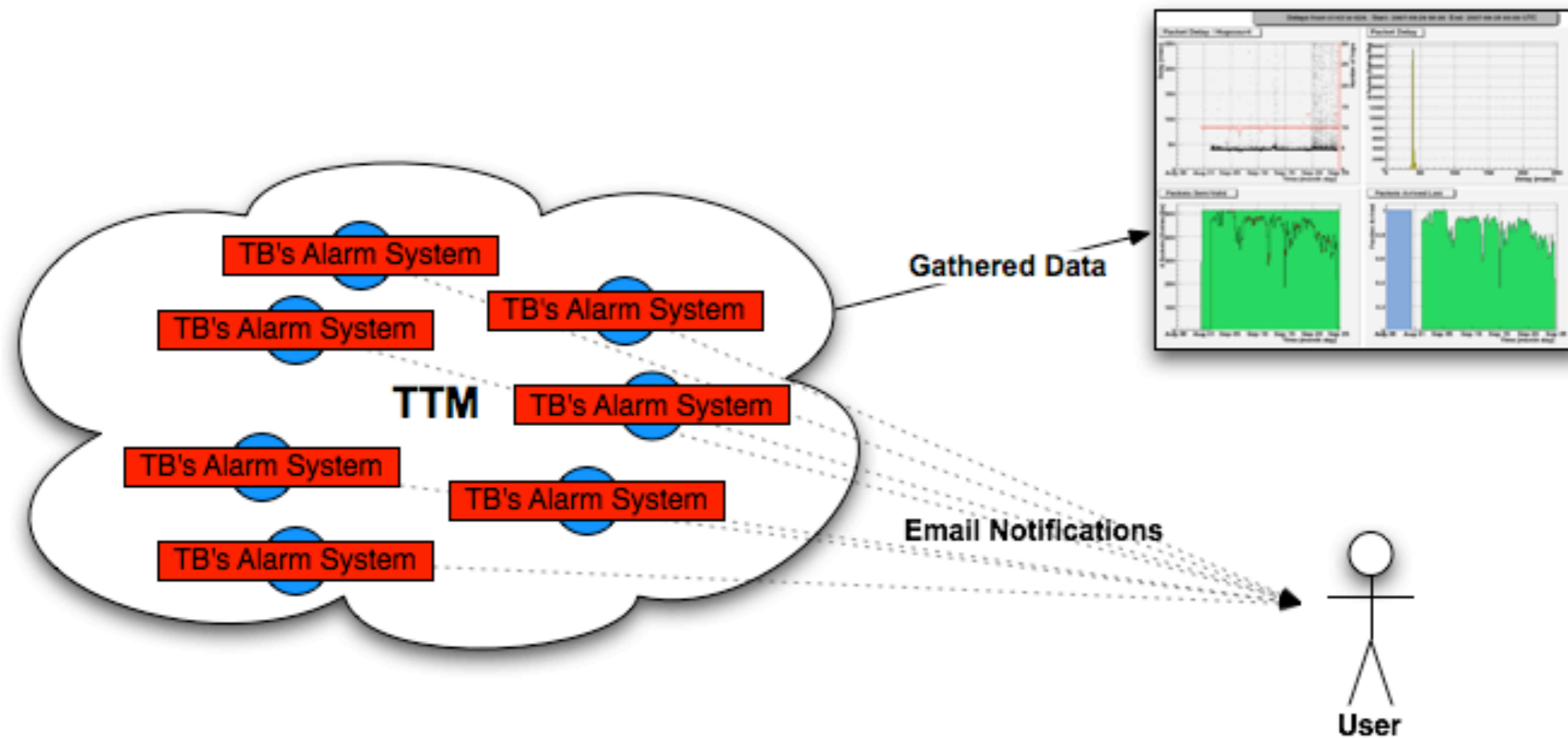


# Two Big Things

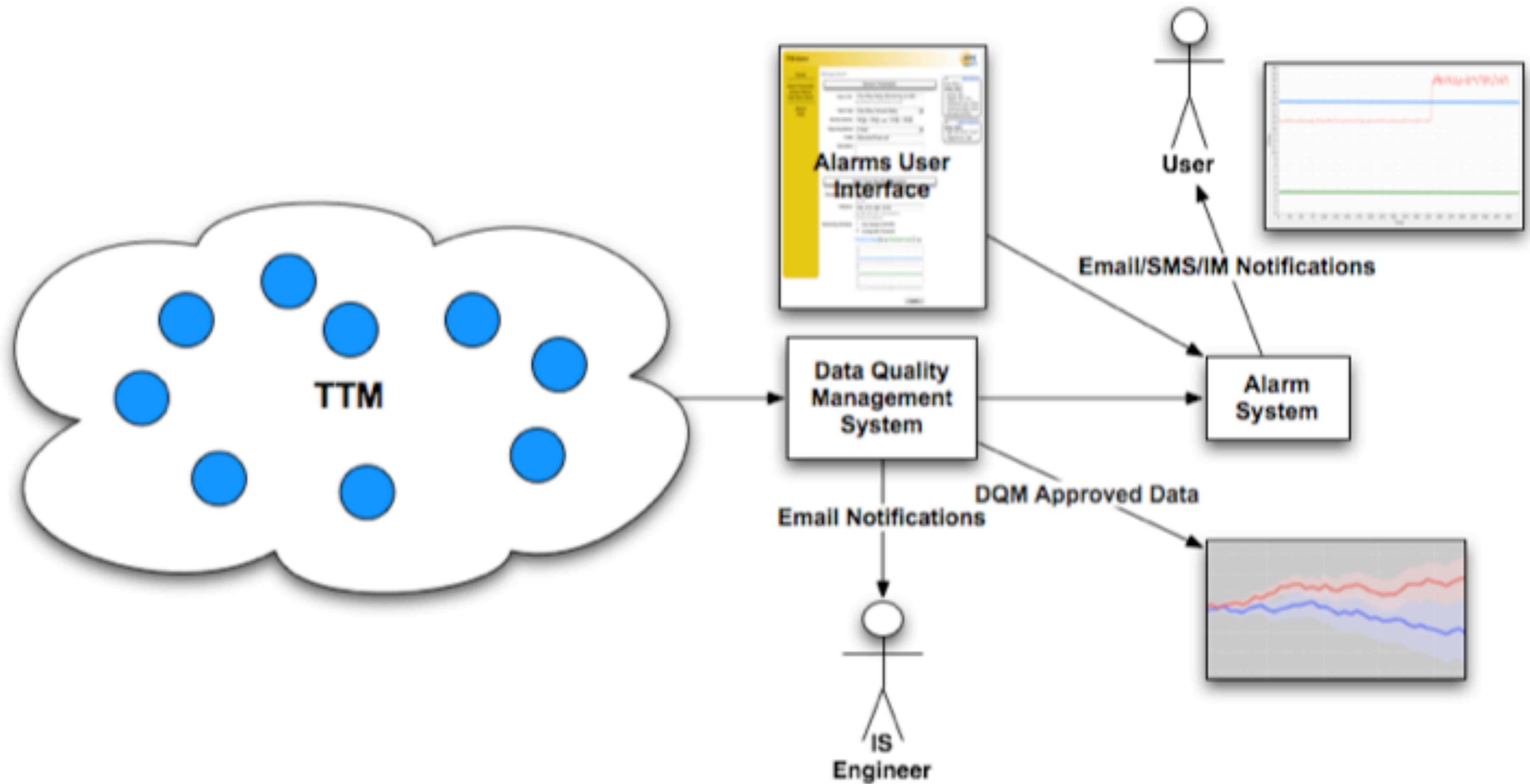
## Ad-Hoc Testing



# Alarms - Old System



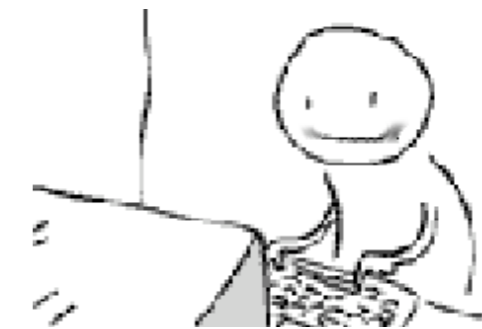
# Alarms - Proposed System





# Alarms - Innovation

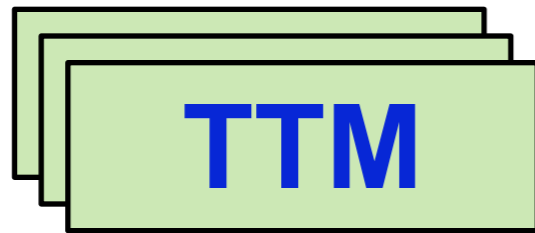
## Simplified into an innovative three-stage System





# Alarms - Example

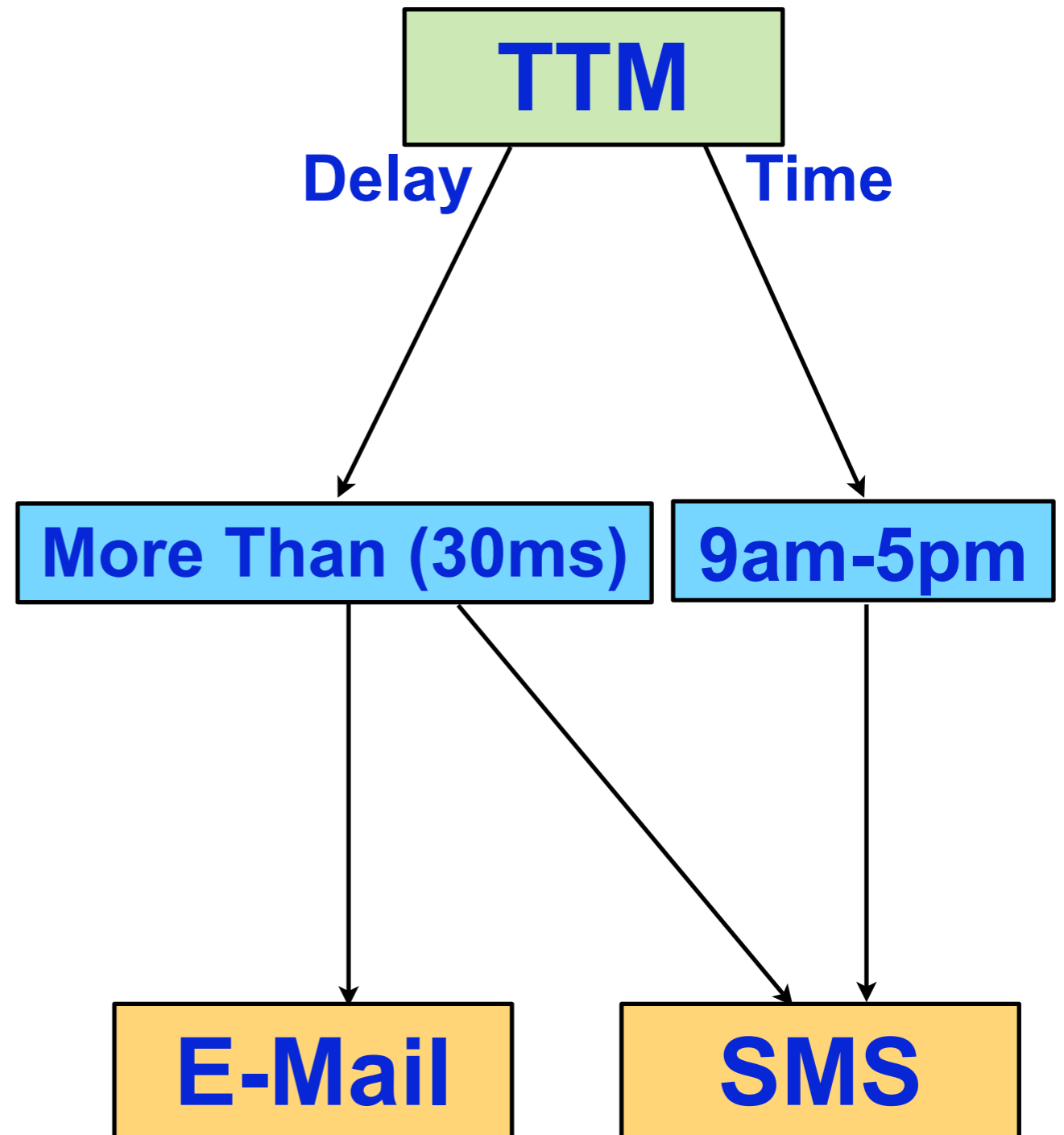
**Input**



**Filter**



**Output**



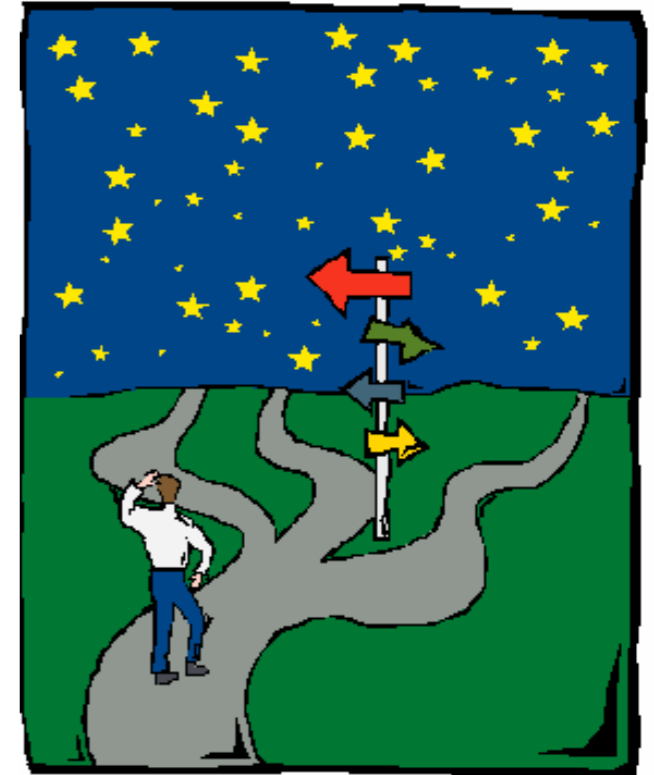


# Alarms - Technology Preview

- Beta version online **now!**
  - <http://www.ripe.net/is/alarms/>
- Basic MyASN functionality
- TTM functionality to come with the next two months
  - Centralised real-time monitoring
  - Delay
  - Loss

# Alarms Roadmap

- Short term: Plug-ins
  - TTM
  - DNSMON
  - Ad-Hoc Testing
- Long term: system improvements
  - User management
  - User defined presets



# TTM Futures

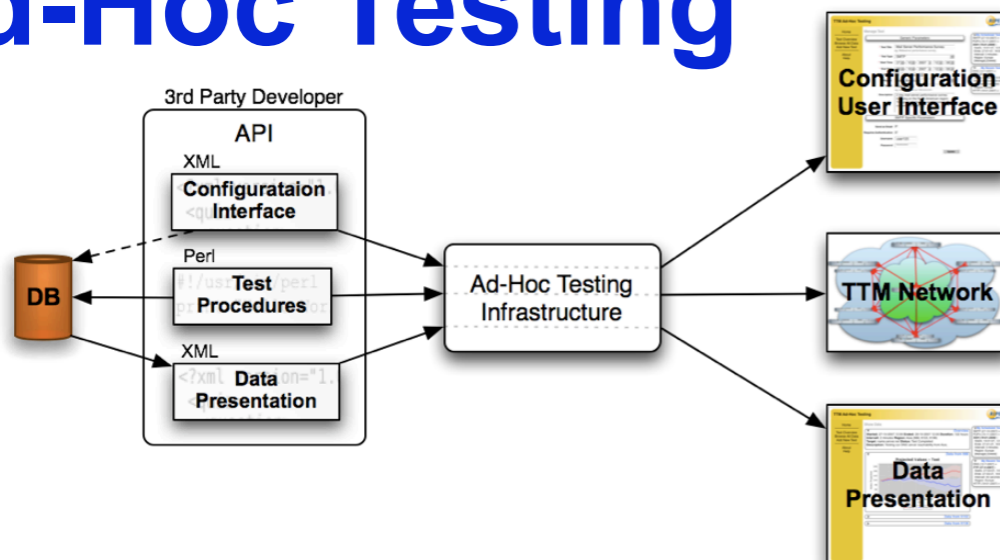
## Alarms Framework

- Flexible system
- Simple User Interface
- Extensible to other services



# Two Big Things

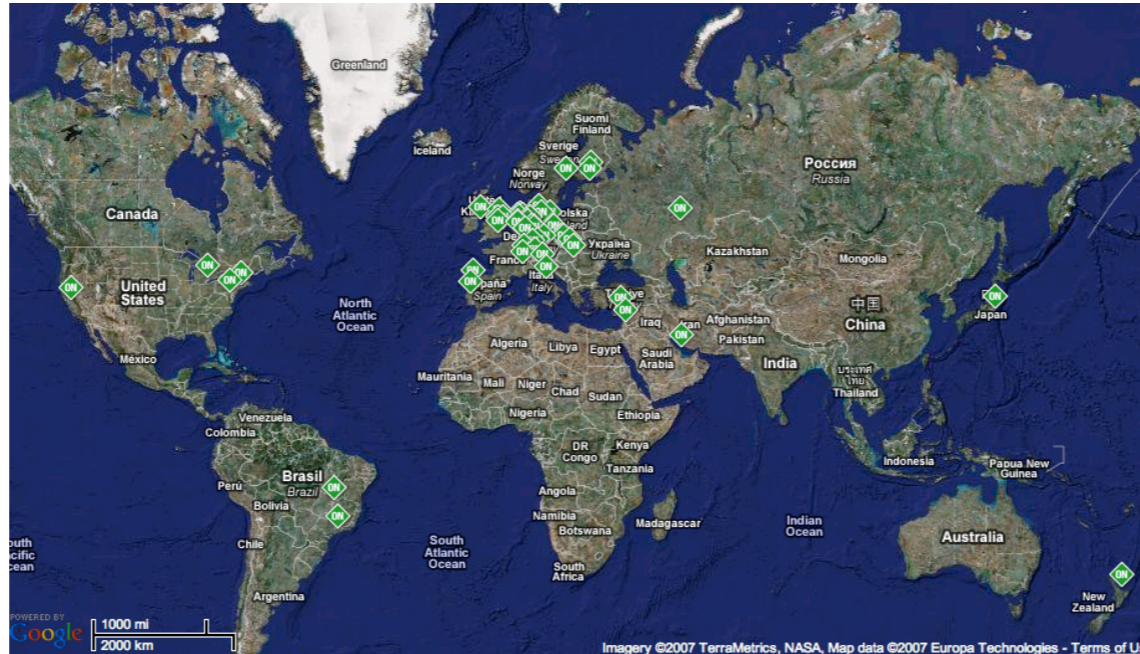
## Ad-Hoc Testing





# Test Traffic Measurement

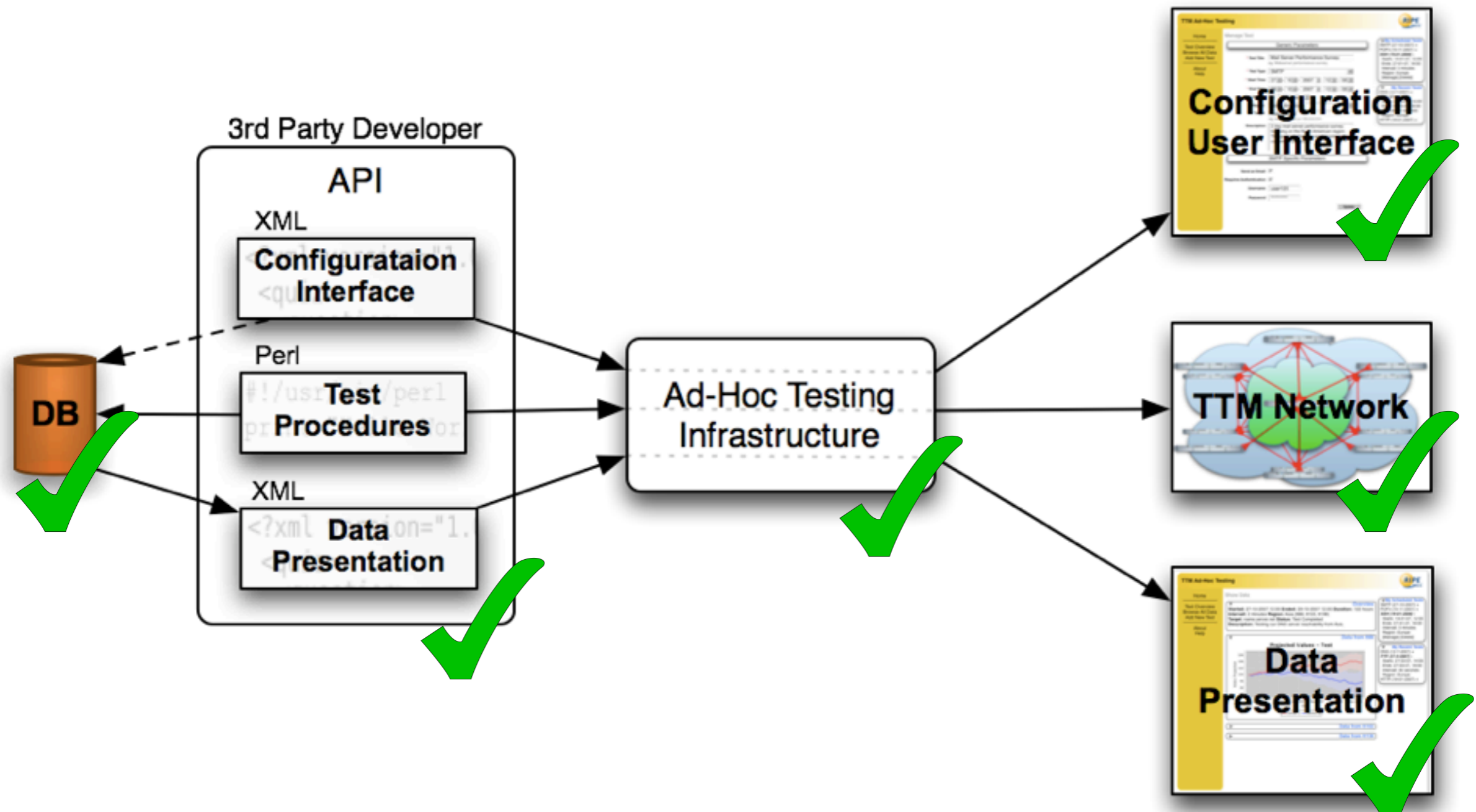
## One-Way Delay      Loss Measurements



## Test Traffic Working Group asked for...

- Arbitrary ad-hoc experiments
- Measure any network in the world

# Ad-Hoc Testing Architecture and Status





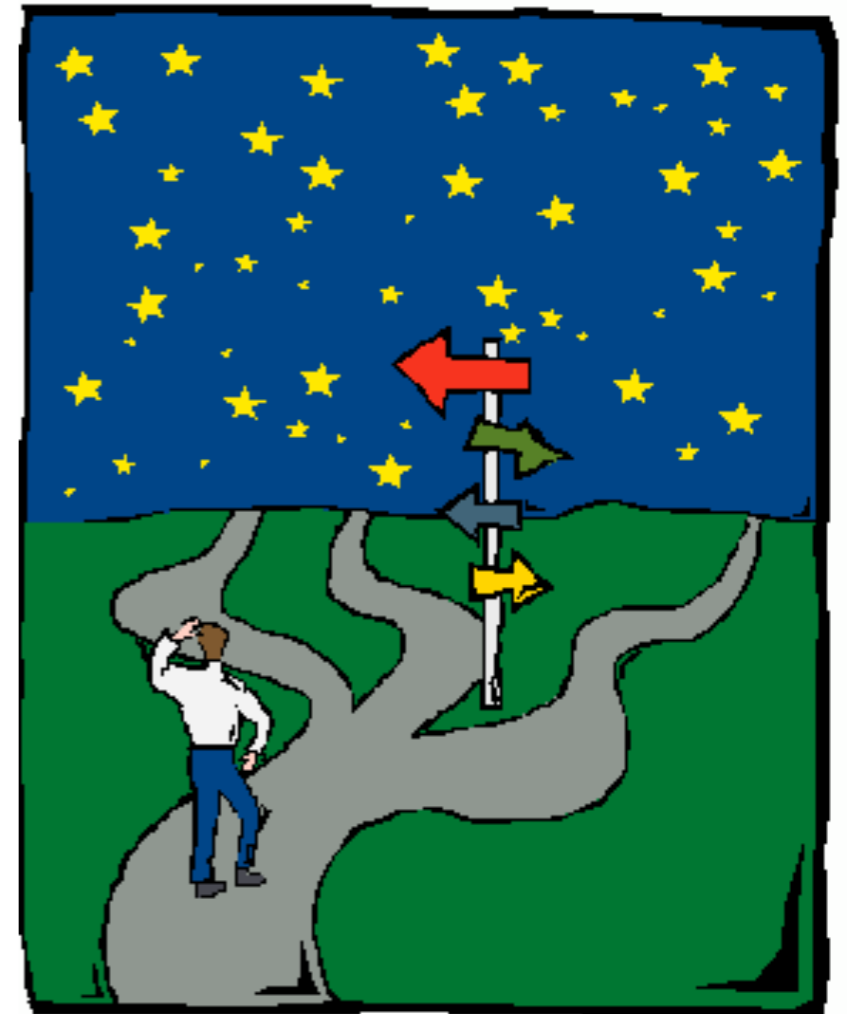
# Ad-Hoc Testing - API

# DEMO

**Featuring the Ad-Hoc Testing User Interface and a live example measurement.**

# Ad-Hoc Roadmap

- Short term: Plug-ins!
  - SMTP, POP3,...
  - Multicast monitoring
  - More suggested in the TT-WG?
- Long term: system improvements
  - Alarms integration
  - Scalability





# How to get access

- Available to testbox hosts
- Request an account: [tt-ops@ripe.net](mailto:tt-ops@ripe.net)
- <http://www.ripe.net/ttm/adhoc>

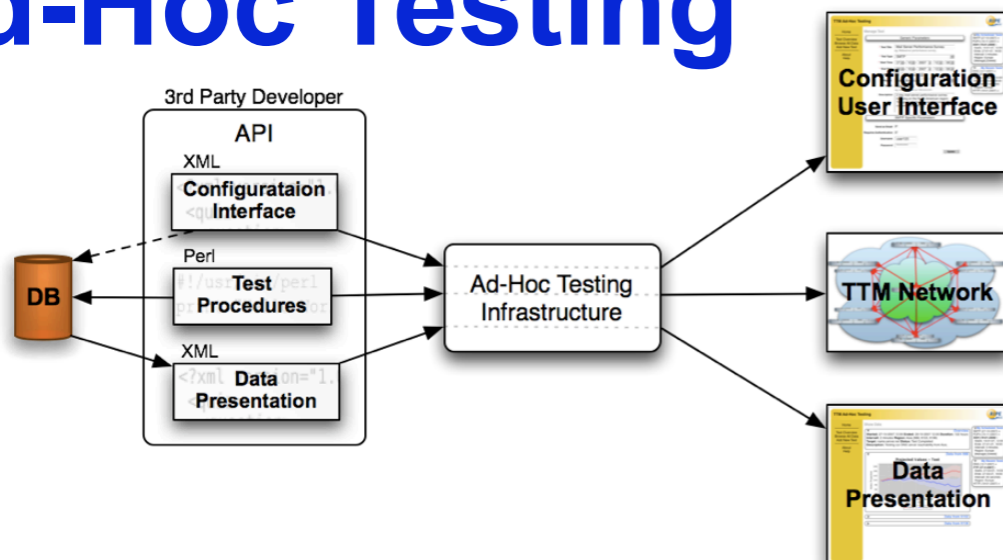
# TTM Futures

## Alarms Framework



# Two Big Things

## Ad-Hoc Testing



- Measure any network
- Easy to extend
- Unified Interface

# Questions?

