



The RIPE NCC DNSMON Service

Revisited & Revamped

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History

- Original purpose in 2005:
 - Can clients reach the DNS Server?
- Use TTM as simulated clients
- Added since 2005:
 - IPv6
 - ENUM
- Some new challenges:
 - Anycast
 - DNSSEC



How Do We Measure?

- Types:
 - SOA records
 - CHAOS records for anycasted root servers
- One measurement per minute
 - Poisson distribution
- Don't influence the operation of the DNS server



Stakeholders

- User survey in April 2010
 - Root Server Operators
 - DNSMON Subscribers
 - Interested users (you?)
- 3 major questions about:
 - Current usefulness
 - Possible improvements
 - New prototype interface

Stakeholders - Survey Results



Better performance

Real-time data



Thank you!

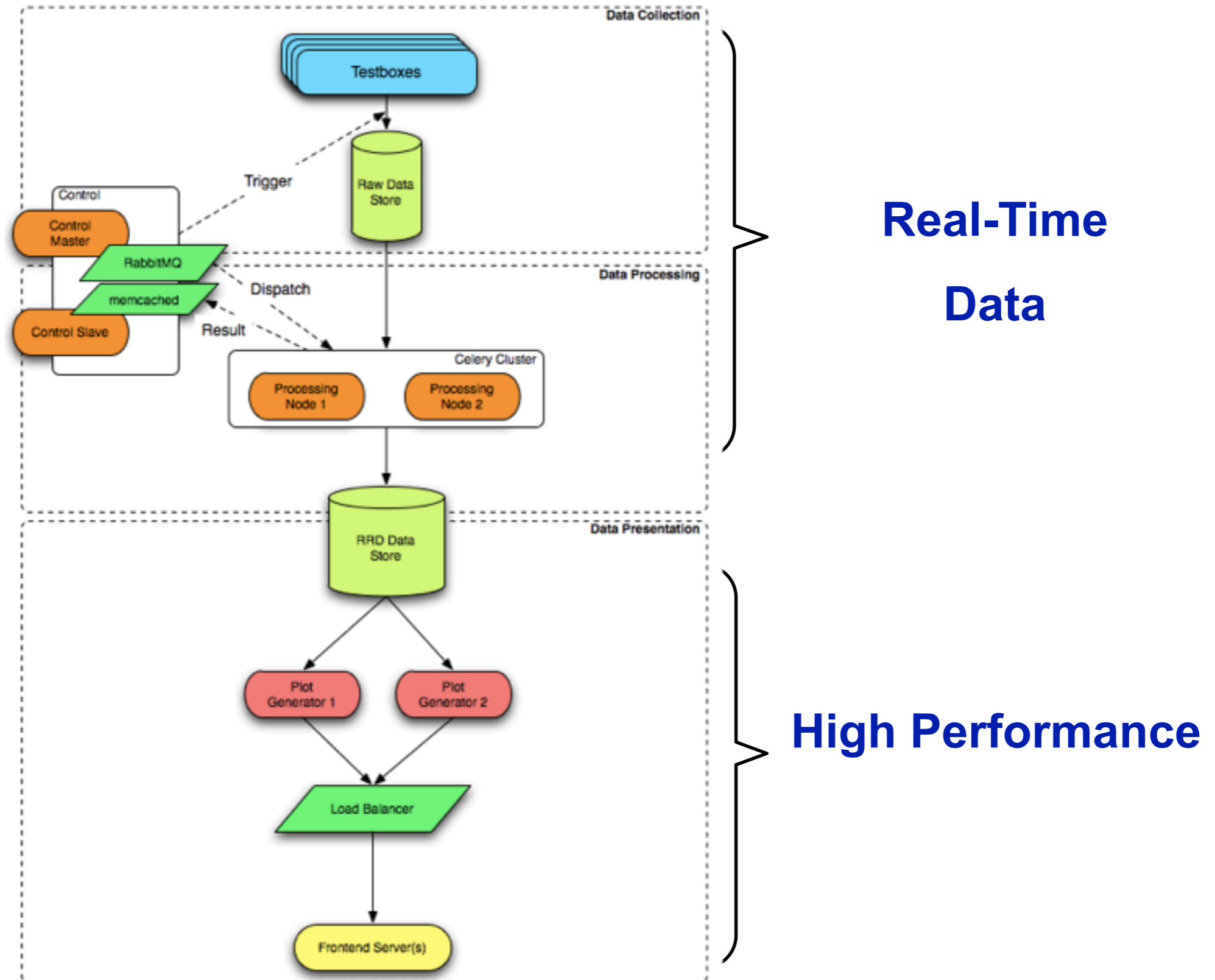
**Better drill-down
approach**



**Traceroute
functionality**



New Architecture





User Interface

- Complaints:
 - 3 pre-defined views
 - Difficult to find your own server
 - Poor performance
- Missing:
 - More flexibility
 - Easier navigation
 - Better performance



User Interface

DEMO

Showing a new prototype User Interface, allowing for easier navigation.



Next Steps

- Scalability
 - Allow for more diverse measurement networks
 - Better anycast coverage
- Improved Measurements to support:
 - TCP checks
 - EDNS0
 - DNSSEC
 - RFC 5001 (NSID)



Get Involved!

- Come to our Demo Stand
 - This afternoon in the hallway
- Discuss on RIPE Labs
 - <http://labs.ripe.net/content/dnsmon-new-user-interface>
- Send us an email!
 - dnsmom@ripe.net
 - franz@ripe.net

Questions?

