

Multicast Monitoring

Progress and Outlook



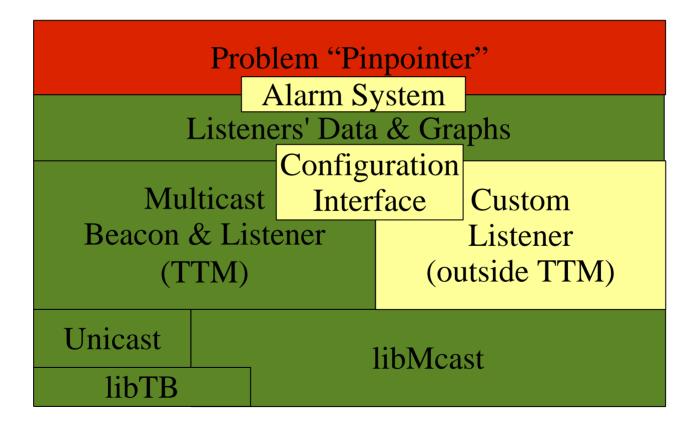
Overview (I)

- Multicast Monitoring on RIPE NCC Test Traffic Boxes
 - by Gert Doering, April 2006
- Policy suggests
 - Multicast beacons
 - Multicast listeners
 - Raw data for interested parties
 - Pinpointing of problems
 - All inside and **outside** the TTM Network



Overview (II)

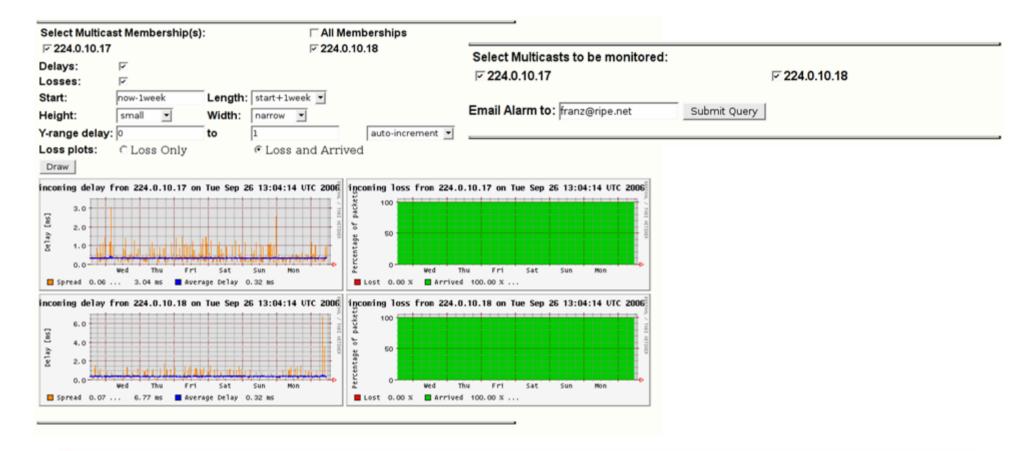
- Multicast Monitoring Architecture
 - green: finished, yellow: under construction, red: to be implemented





TTM specific measurements

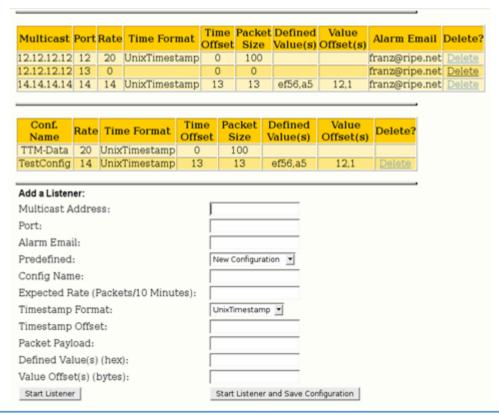
- Accurate delay measurements
- Fairly accurate loss measurements





Monitoring outside the TTM network

- Fairly accurate delay measurements
- Highly configurable
 - Expected Rate, Timestamp Offset, Defined Values, Packet Size,...
 - Auto-Configuration
- Configurable Alarms
 - Conditions
 - Sensitivity
 - Email
 - SNMP?



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Time Line

		Getting familiar with TTM/preparation	July
Documentation work	ink-Local testing	Implementing multicast beacon (TTM)	August
		Implementing multicast listener (TTM)	
		Graphs and TTM specific UI	September
		Alarm system	October
		Custom listener,	
		Alarm integration and UI	November
	Routed testing	Install routed test setup	Dagambar
		Implementing problem "Pinpointer"	December
		Overall code review	January
		Move everything in place, write help	Eahmany
			February
	93	Move into production	March



Routed Test Setup

- Link-Local testing sufficient for...
 - Beacons and listeners
 - Alarm system
 - User interface
- Problem "Pinpointer" needs more...
 - Cannot be developed and tested without multicast routing
 - We need your help!



? Custom Listener?

? **SNMP** ?

Questions?

Discuss!

? Additional Features ?

? Routed Test Setup?