Routing Information Service and IS Alarms

Erik Romijn <eromijn@ripe.net>

Software engineer
Information Services department
RIPE NCC

What is RIS?

- Routing Information Service

- Looking glass with history

- Collects routing information (BGP)
  - 620 peers
  - 15 collectors running Quagga bgpd
  - Peering from AS 12654

- 3 months data in MySQL database

- Query tools at http://www.ripe.net/ris/

What is RIS?

- All raw data available for download
  - Standard format (MRT)

- Generates statistics reports

- Notification system: MyASN
  - Notifies you when someone else announces your prefix

15 Remote Route Collectors (RRCs)

New!

terremark
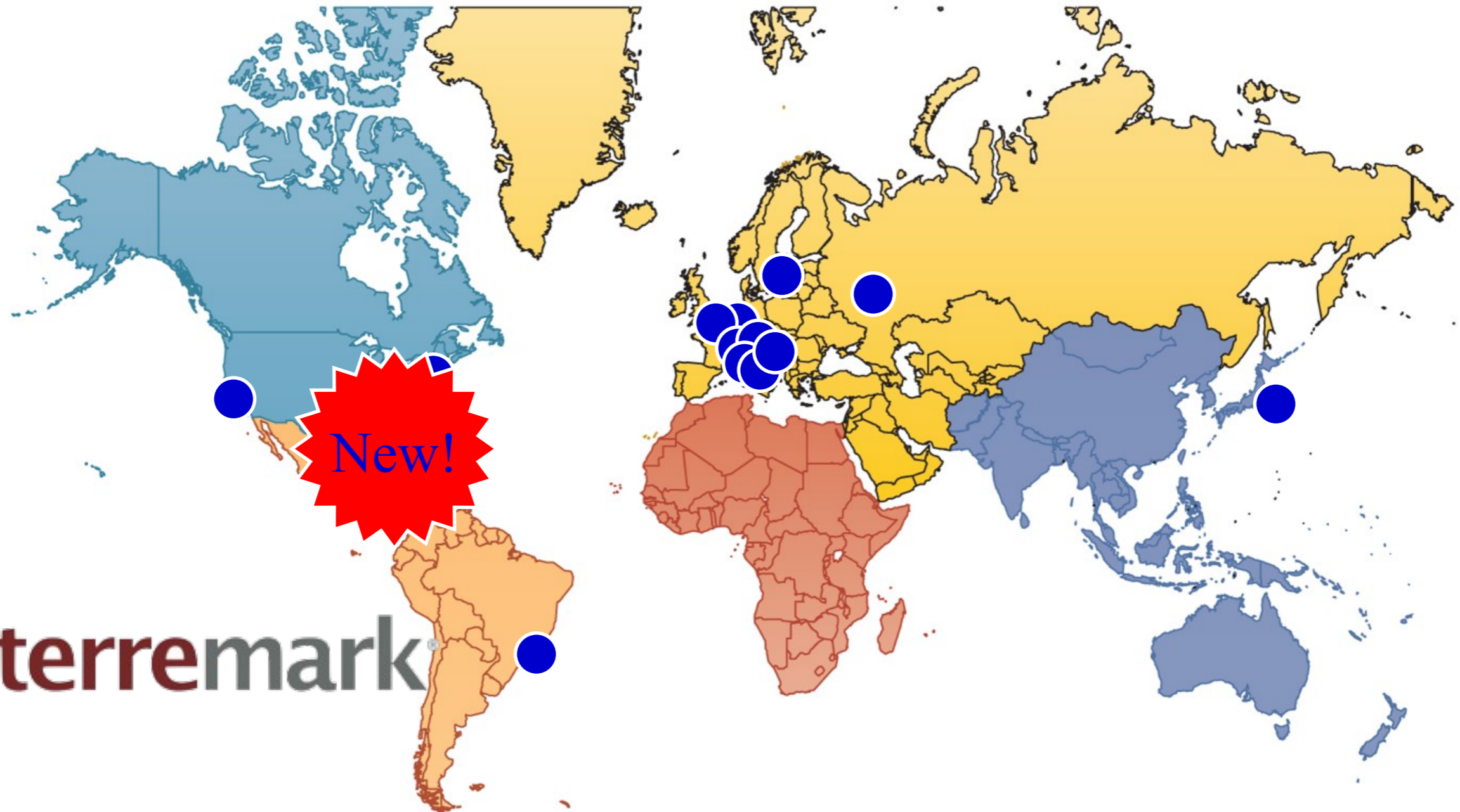
What keeps us busy?

- Focus on performance and architecture improvements

- Areas of improvement:

  - Hardware used for databases

  - Efficiency of database design

  - Usability of internal API

  - Resilience against failures

- Current progress:

  - New hardware is running

  - Database design has been done

  - Currently working on API

MyASN

- RIS' alarm system

- Notifies users when:
    - someone else announces their prefix
    - someone unexpectedly gives transit to them
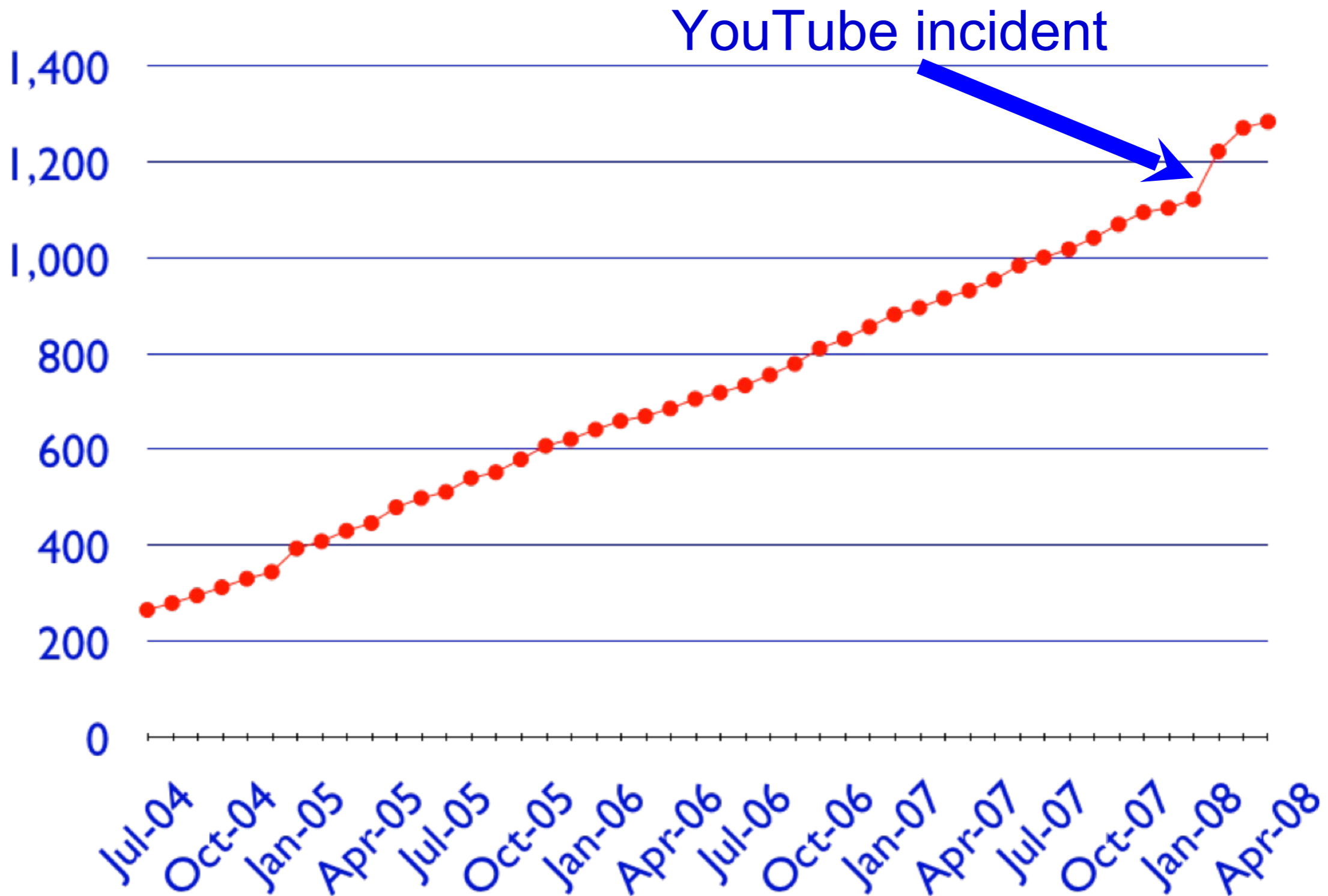
- Notifies users by syslog or e-mail

Some of the MyASn numbers

951 alarms
2285 alarms
21285 alarms
triggered

MyASN accounts

YouTube incident

IS Alarms

- RIS is not the only service with alarms, think TTM and DNSMON

- New IS Alarms system connects all systems into a single alarm system

- Single clear and consistent user interface

- Very flexible filters for events

- Output options flexible and easy to set up (e-mail, syslog, ...)

MyASN and IS alarms

- IS alarms will completely replace MyASN

- MyASN will keep running as is until IS alarms is completely ready

- Existing MyASN accounts can be used

- IS alarms:

  - Has a clearer interface

  - Supports IPv6

  - Detects alarm conditions faster

  - Will provide more output options

Login

User Name:	erik@12654
	Enter your user name.
Password:	••
	Enter your password.
Remember:	☐
	Check to remember username and password.

RIPE
NCC

Specific Parameters

Prefix:	193.0.24.0/21
AS Number:	2121
Syslog Server:	193.0.0.1
Email Address:	erik+alarms@ripe.net

Alarms

Deactivate   Activate   Delete

Select: All, None

	Name	Last modified	Connector	Output	Active
☐	RIPE meeting	2008-04-24 17:22:33.0	MyASN	Email Output Plugin Syslog Output Plugin	🟢
☐	NCC office network	2008-04-25 10:57:30.0	MyASN	Email Output Plugin	⚫
☐	RIS ASN32 beacon	2008-04-25 10:58:44.0	MyASN	Syslog Output Plugin	🟢
☐	K-root anycast	2008-04-25 11:00:04.0	MyASN	Email Output Plugin	⚫

Alarms

Deactivate   Activate   Delete

Select: All, None

	Name	Last modified
☐	RIPE meeting	2008-04-24 17:22:33.0

Connector	Output	Active
MyASN	Email Output Plugin Syslog Output Plugin	🟢

RIPE NCC

Subject: **[RIPE NCC Alarm] Alarm Triggered - RIS ASN32 beacon**
Date: April 29, 2008 2:05:05 PM GMT+02:00
To: erik+alarms@ripe.net

```
    The following alarm was just triggered:


RIS ASN32 beacon
Beacon originating from AS3.7 for ASN32 testing.


This alarm was generated because the following state was detected in RIS:


Prefix: 84.205.88.0/24
AS Path: 13237 8387 12654
Route Collector: 1
Peer IP: 195.66.224.99
Peer AS: 13237
Seen at: 12:05 29/4/2008 (UTC)
```

IS Alarms roadmap

- More plugins:
  - SMS notifications
  - IM notifications
  - TTM input
  - Combined RIS and TTM filters

IS Alarms

Beta online now:

http://ripe.net/is/alarms/

Available for current MyASN users

Questions?

Comments welcome at ris@ripe.net