Policy based Routing Implementation & Deployment in Europe

Status Report

Organisation

- Only one FTE position filled for first 3 months.
- Plus 1/3 Daniel
- Second position filled by Marten officially started 1st January.
- Project expected to be completed in 12 month period
  - Extra resources will be assigned later to project.
- Still on schedule with project milestones.

Tool Status

- PRIDE-TOOLS-1 release released in Week 50, 93
  - “prcheck”
  - “prtraceroute”
  - “contrib.....”
- Current release at PRIDE-TOOLS-1.0.3
  - General fixes
  - Suggestions (keep them coming)

Erik-Jan Bos, Damir Pobric, Peder Norgaard, Arnold Nipper, Jean-Michel Jouanigot.

pride-tools@ripe.net

General

- Pride Mailing List

  pride-list@ripe.net
- Archives

  ftp.ripe.net:ripe/archives/pride/*
- General PRIDE ftp directory

  ftp.ripe.net:pride/tools

  ftp.ripe.net:pride/docs

  ftp.ripe.net:pride/reports

The future

- First PRIDE Guide and Course due in week 10
  - On schedule
  - General discussion and ideas begun
  - Structure
  - Related - ripe-81++
- Alpha version of the “prpath” tool in test at NCC
  - Will detail all possible paths from A to B according the RR information

Prpath

```
% prpath AS1849 AS786
Possible paths using routing registry information from whois.ripe.net
From “AS1849” (AS1849) to “AS786” (AS786)
 1: AS1849 AS786
 2: AS1849 AS1290 AS786
 3: AS1849 AS1290 AS286 AS790 AS1759 AS1729 AS1755 AS1128 AS2043 AS786
 4: AS1849 AS1290 AS286 AS790 AS1759 AS1729 AS1755 AS786
 5: AS1849 AS1290 AS286 AS790 AS1759 AS1755 AS1128 AS2043 AS786
 6: AS1849 AS1290 AS286 AS790 AS1759 AS1755 AS786
 7: AS1849 AS1290 AS286 AS2109 AS790 AS1759 AS1729 AS1755 AS1128 AS2043 AS786
 8: AS1849 AS1290 AS286 AS2109 AS790 AS1759 AS1729 AS1755 AS786
 9: AS1849 AS1290 AS286 AS2109 AS790 AS1759 AS1755 AS1128 AS2043 AS786
10: AS1849 AS1290 AS286 AS2109 AS790 AS1759 AS1755 AS786
11: AS1849 AS1290 AS286 AS1755 AS1128 AS2043 AS786
12: AS1849 AS1290 AS286 AS1755 AS786
13: AS1849 AS1755 AS1128 AS2043 AS786
14: AS1849 AS1755 AS786
```


Prpath

```
% prpath rijp.ripe.net ns.surfnet.nl tftp.ebone.net
Possible paths using routing registry information from whois.ripe.net
From “AS1104” (rijp.ripe.net) to “AS1103” (ns.surfnet.nl)
 1: AS1104 AS1103

From “AS1103” (ns.surfnet.nl) to “AS1755” (tftp.ebone.net)
 1: AS1103 AS1128 AS1755
 2: AS1103 AS1128 AS2043 AS1129 AS1755

% prpath
Usage: prpath -v -l -d [ token ] [ token ] < token >
Possible token values:
 AS number [ASnnnn]
 IP address [aaa.bbb.ccc.ddd]
 IP network [aaa.bbb.ccc.0]
 Hostname [some.where.net]
```

Ask for a“demonstration” if interested

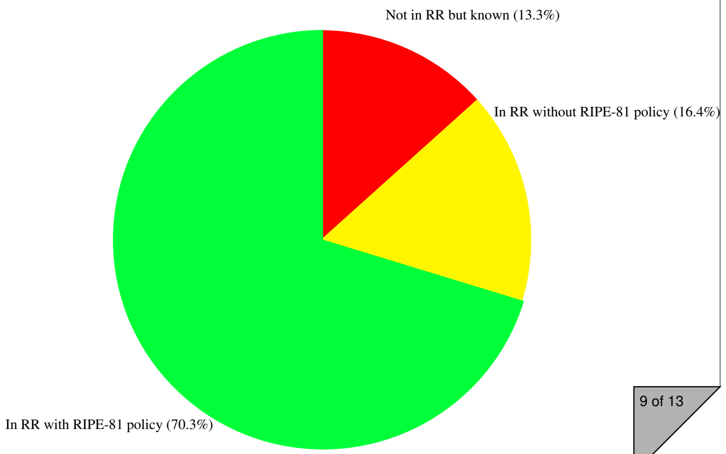
Related Activities

- RIPE RR/Database software/documentation
  - Integral part of the PRIDE work
- Population of RIPE RR by non-RIPE SPs
  - “Pilot” with ALTERnet
  - Need more (see over)
- Daniel and Tony will attend the Reg-Techs meeting to discuss PRIDE and related issues.

PRIDE

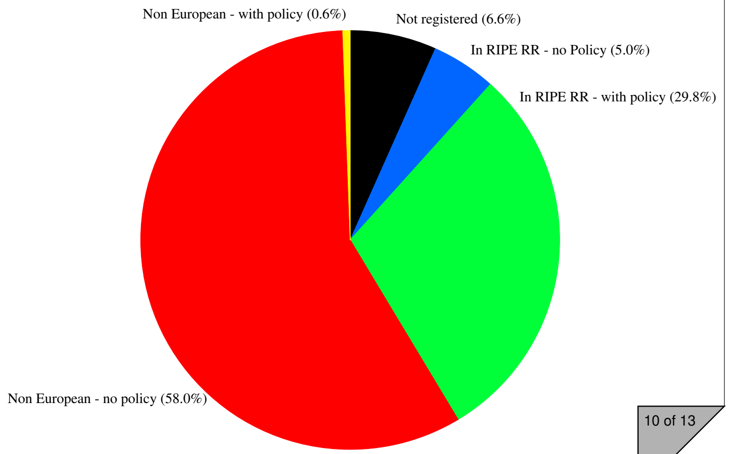
Routing Registry Status

Breakdown of known Routed European AS (Total: 128)



PRIDE

Breakdown of known Routed AS In Global Internet (Total: 319)



PRIDE

De achterlopers ;-)

Table 1:

AS	Name	Status
AS1115	Austrian Academy of Sciences	R#W
AS1123	Technikum Vorarlberg	R#W
AS1732	MIKROK-AS	N#W
AS1739	TAMNET	N#W
AS1752	BT main internal data network	R#W
AS1754	DESY-HAMBURG	R#W
AS1776	ASN-WU-WIEN	N#W
AS1889	Hewlett-Packard Limited,	R#W
AS1967	TR-NET	N#W
AS2004	TNO-HDO	N#W
AS2012	UNINET1	N#W
AS2028	BNRUK-AS	N#W
AS2049	AVL-GRAZ	N#W
AS2112	FI Valio Data Oy	N#W
AS2118	EUnet/xSU	N#W
AS2134	EUnet-SPAIN AS	R#W
AS2135	EuroKom Mail Service	R#W

PRIDE

Table 1:

AS	Name	Status
AS2136	PCC-TECHNO-AS	R#W
AS2529	DEMON-SYS	N#W
AS2546	ARIADNE	N#W
AS2561	Egyptian Networks	R#W
AS2578	RELCOM-DEMOS	R#W
AS2599	SOVAM Teleport	R#W
AS2607	Slovak technical university	R#W
AS2683	RADIO-MSU	N#W
AS2819	EUnet Czechia	R#W
AS2831	SUNET-LULEA	R#W
AS2832	SUNET-UMEA	R#W
AS2834	SUNET-UPPSALA	R#W
AS2843	SUNET-LINKOPING	R#W
AS2845	SUNET-LUND	R#W
AS2848	MSU-AS	R#W
AS2855	BT-TRANSIT-AS	R#W
AS2856	BT-UK-AS	R#W
AS544	PTN-FINLAND	N#W
AS719	LANLINK-AS	N#W

PRIDE

THE BOTTOM LINE

PLEASE REGISTER YOUR ROUTING POLICIES

AND KEEP THEM UP-TO-DATE !!!

- It can be beneficial........