

RIPE65 / Routing WG

# Open Source Routing BoF - Summary

BoF was held on Monday 18:00 – 19:00

Martin Winter / David Lamparter  
OpenSourceRouting.org



Open Source Routing

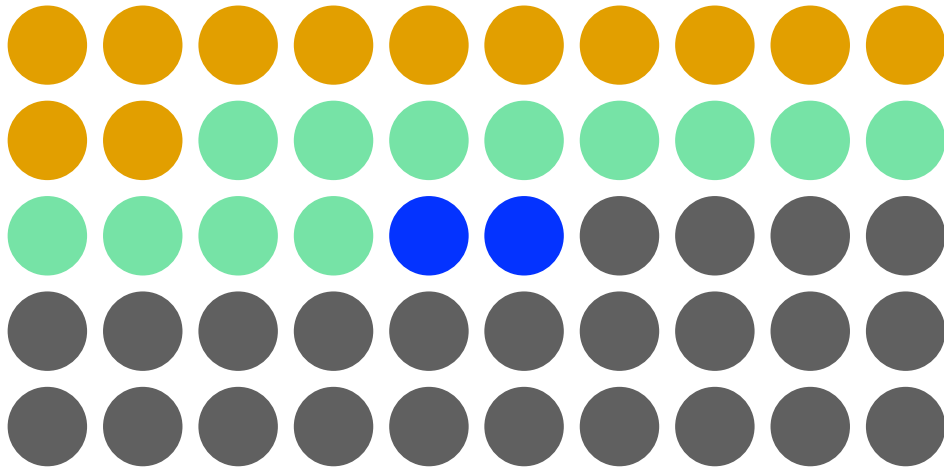


Ondrej Filip  
CZ NIC



# Audience Statistics @ BoF

**50 People attending**



**12 Quagga Users**

**12 Bird Users**

**2 OpenBGPd Users**

# Bird

<http://bird.network.cz/>

- ▶ **Project started 1999**
  - Started as seminar project at Charles University, Prague
  - Since 2008 maintained by CZ.NIC Labs
- ▶ **Fast, efficient**
- ▶ **Modular**
- ▶ **Popular route server @ IXPs**



# Quagga

<http://www.quagga.net/>

## ▶ **Project started as fork of Zebra**

- Open Source Community “owned”
- Maintained by the community
- OpenSourceRouting.org supports community with testing & development

## ▶ **Focus on full routing**

NO QUAGGA LOGO

**But do you know  
what a Quagga is?**



**Quagga**

Extinct relative of the Zebra

# OpenBGPd

<http://www.openbgpd.org/>

- ▶ **Project started as part of OpenBSD community**
  - BSD Licensed
  - Maintained by the BSD community
- ▶ **Focus on routing for OpenBSD systems**



Part of  
**OpenBSD**  
Project

# XORP

<http://www.xorp.org/>

- ▶ **Started as “Open Platform for Network Research”**
  - Answer of Juniper fans to Quagga
- ▶ **Goal to be Extensible Open Source Routing Platform**
- ▶ **Focus on good Documentation & clean code**



e**X**tensible  
**O**pen  
**R**outing  
**P**latform

# Quagga Update

New features under development and recent work

- ▶ **IGP (ISIS & OSPF) fixes**
- ▶ **BGP fixes**
- ▶ **(OSR Work): Data Structure changes**
- ▶ **(OSR Work): API to Zebra for RIB**
- ▶ **BGP Euro-IX Branch RFC Compliance & Fuzzer Tests**

# Bird Update

New features under development

- ▶ **BGP Add-path (beta)**
- ▶ **Looking glass - multiplatform (beta)**
- ▶ **IS-IS (IPv4 & IPv6)**
- ▶ **IPv4 & IPv6 integration**
- ▶ **MPLS**



**Major Discussion:**

**New RIPE Working Group**

**“Open Source WG”**

# Why a new Working Group?

## Reasons for a Open Source Working Group

- ▶ **Believe in a forum to discuss practical usage and problems of the various Projects**
  - We had now 2 successful BoFs (This and last RIPE).
  - Would like to have a forum to discuss these projects in the Service Provider / RIPE community
  - Believe that a good discussion between developers and community will benefit both
- ▶ **Not just focused on routing**
  - WG would not just be on routing code, but allow any Open Source projects relevant to this community to join and get a platform.

# **(Proposed) Charter: Open Source WG**

The aim of the Open Source Working Group is to foster discussion among developers, ISPs and other RIPE community members about Open Source projects related to the RIPE community. The working group believes into the future benefits of Open Source in the community and regularly discusses new features and advices on developments on selected projects

The idea of this WG is really focused on open coordination and feedback between developers of Open Source Software and the RIPE community. We want to sustain a platform where developers from a project can present recent updates, discuss their plans and get feedback on their work.

We do want to limit the coverage on projects related and of interest to the RIPE community. Example of Open Source projects which we believe are a good fit for the group are Routing products like Bird, Quagga, OpenBGPd, XORP and other projects relevant to the community like DHCP, Network Management tools like RRDtool, Ntop or Nagios

# Thank You

- ▶ **Complete slides from the BoF are online**

- <https://ripe65.ripe.net/presentations/>

- ▶ **Feedback on Proposed WG very welcome**

- Want to be involved in the WG?
- Involved or know an important project to cover for the WG?

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