

# Addressing Prefix Reachability Issues

Frank Salanitri  
Project & Systems Services Manager,  
APNIC

# Overview

- Background
- The problem
- APNIC Resource Quality Assurance
  - Scope
  - Challenges
  - Strategy

# Background

- IP address gets filtered for various reasons
  - Bogon
  - Bad behaviour
  - Security/access policies
- Most prevalent form of IP address filters
  - Route filtering
  - Application filtering, esp. Mail
  - Firewall filtering

# The Problem

- Legitimate internet traffic fails to reach the destination due to:
  - Outdated filters
  - Outdated black list / bogon list reference
- RIR blamed for allocating 'bad' blocks
  - Situation worsens as IPv4 depletes
    - More bad blocks get uncovered
    - Prefix gets recycled

# APNIC Resource Quality Assurance

- APNIC: more proactive, long-term strategy
- Combined effort
  - Collaboration
  - Education
  - Whois Database quality
  - Establish procedures for prefix testing and filter removal

# RQA Strategy

- Community awareness campaign
- Build relationships with reputable organizations that maintain bogon/black list
- Keep the Whois Database accurate
  - Actively remind resource holders to update their data

**We need your help, so let's  
work together**

Thank you

frank@apnic.net