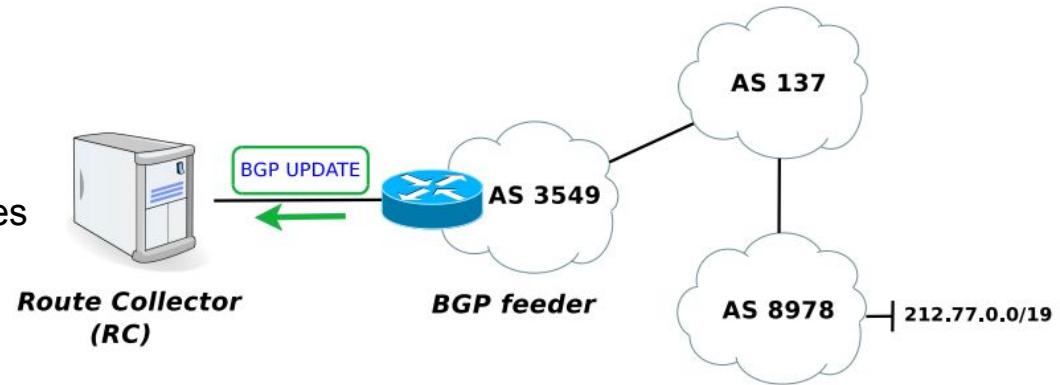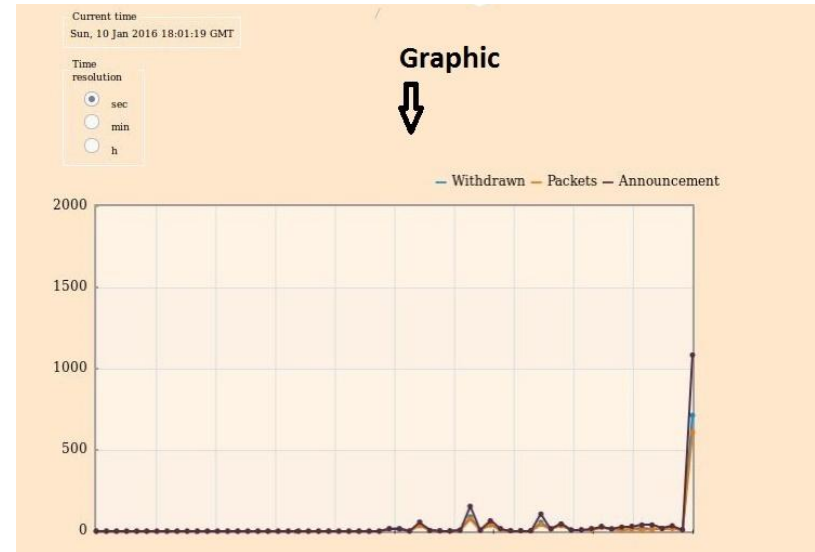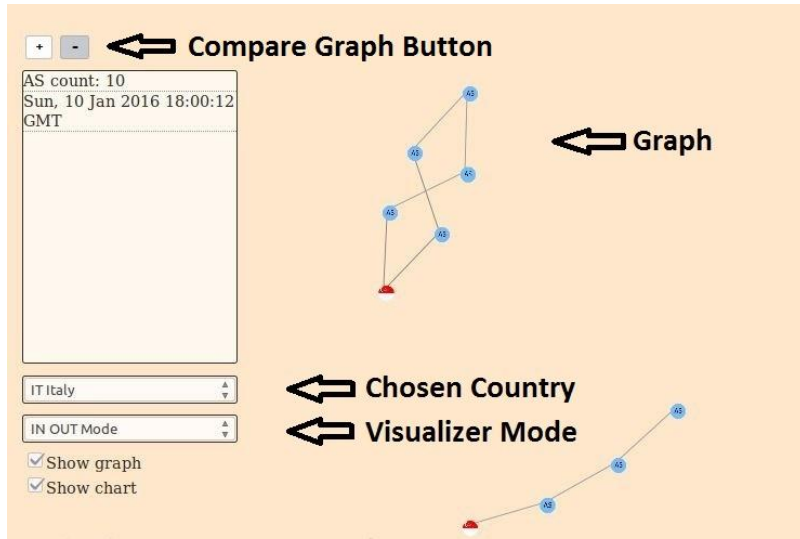# *MRT Data Analysis and Elaboration*

Route Collecting projects

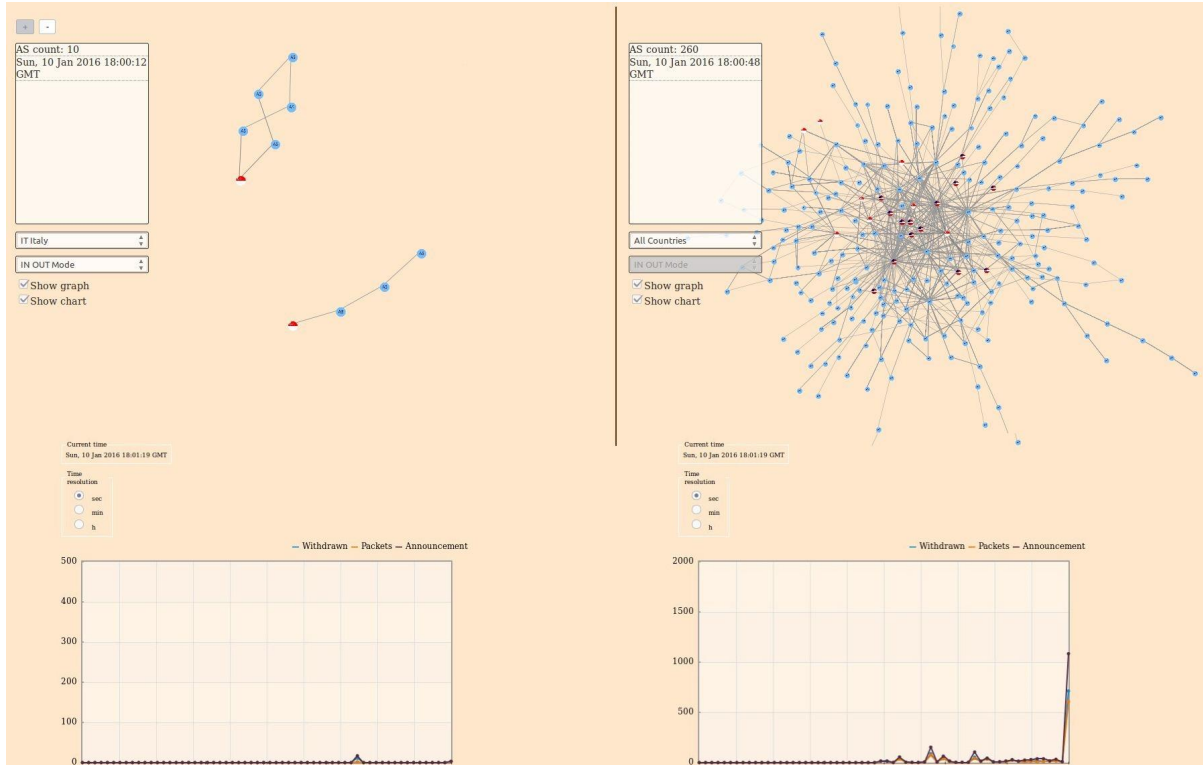- ❏ Reachability issue

- ❏ AS - feeders

- ❏ Route Collector devices
  - ❏ mimic BGP routers
  - ❏ gathering BGP Update messages

- ❏ Data Collected
  - ❏ MRT format
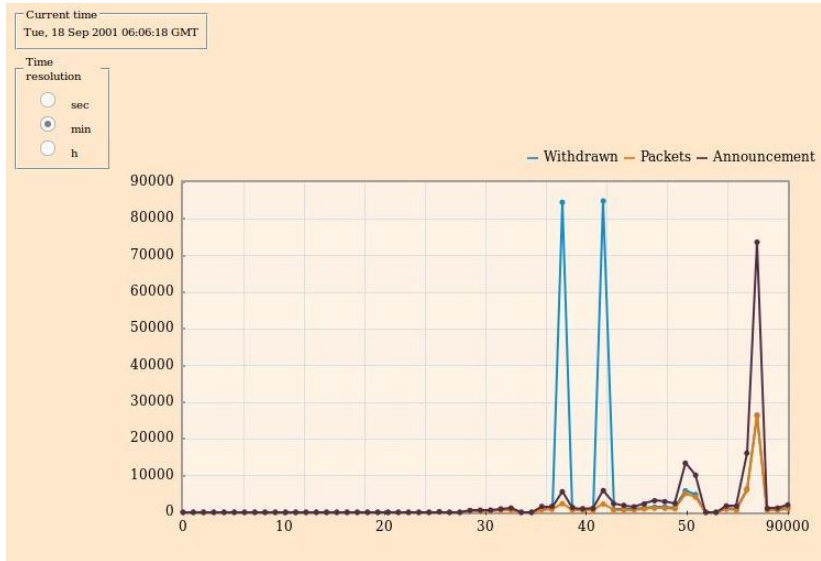 - ❏ periodically dumped

- ❏ RIS, Route Views, Isolatio etc..

Objectives

Objectives

Extra

Implementation

- ❏ BGP Protocol for Internet Topology

- ❏ MRT Data format

- ❏ MRT Engine at Server Side
  - ❏ downloads and analyzes MRT Data to create stream to clients
  - ❏ message as unit of the stream
  - ❏ message format & Geolocalization

- ❏ Topology Visualizer at Client Side
  - ❏ AS PATH field to create graph

IP From	Withdrawn Routes	Announced Routes	AS Path	AS From	Timestamp

Geolocalized

Implementation

- ❏ Main Thread creates 3 Downloader Thread and FlowCreate Thread

- ❏ Downloader Thread
  - ❏ downloads MRT Data
  - ❏ cURL library

- ❏ FlowCreate Thread
  - ❏ creates Sender Thread
  - ❏ creates ordered queue of BGP entries
  - ❏ MRT Data Reader & Geolocator libs

- ❏ Sender Thread
  - ❏ creates enhanced stream with geo info
  - ❏ WebSocketpp library