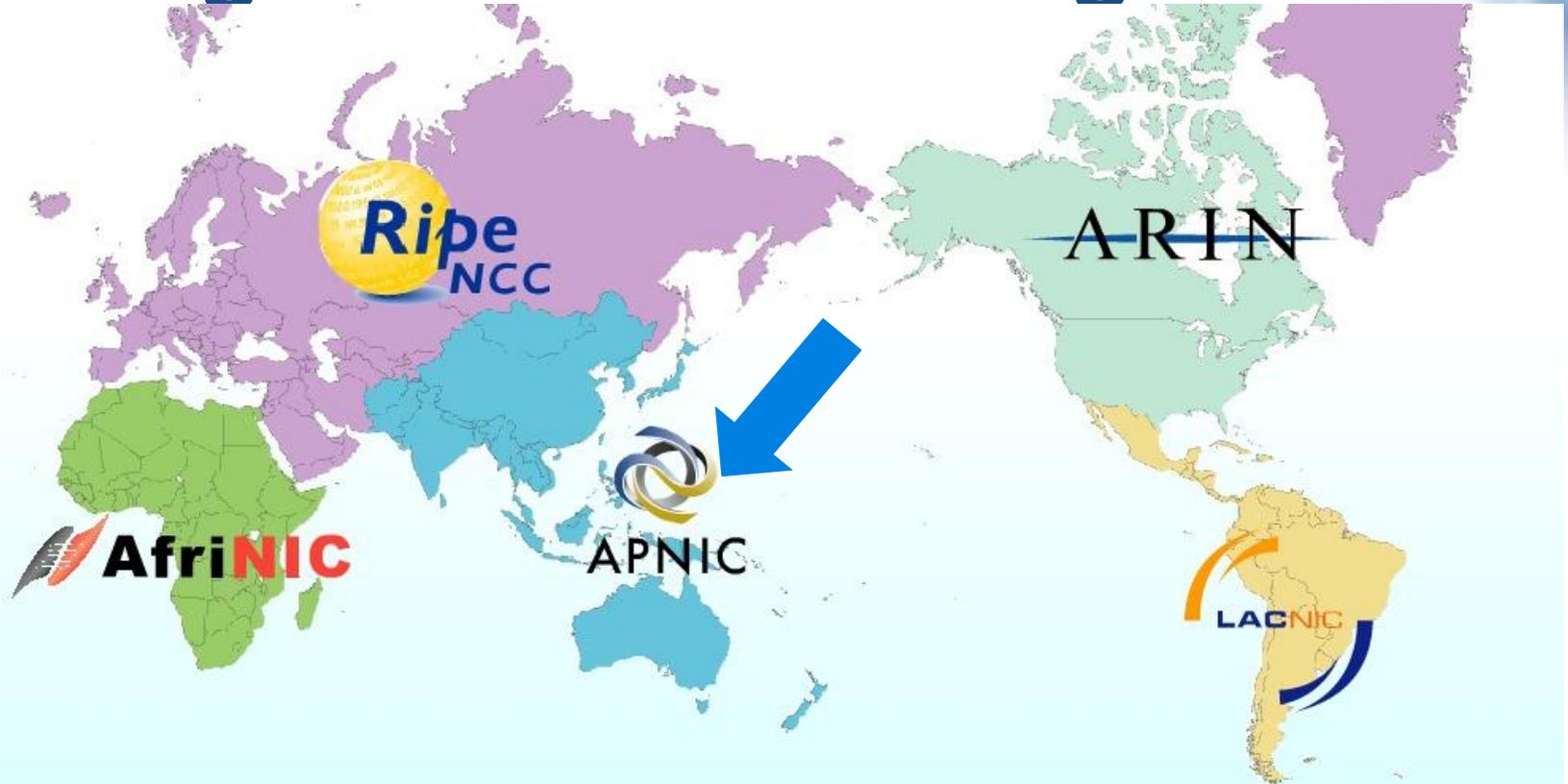# IPv6 Resource Management & Deployment Tutorial

## Bali IPv6 Summit

## June 2010

Sanjaya, APNIC Service Director

Jordi Palet, Consulintel CTO

# Regional Internet Registries

**The Internet community established the RIRs to provide fair and consistent resource distribution and accurate resource registration throughout the world.**

# Internet Resource Management Objectives

## Conservation
- Efficient use of resources
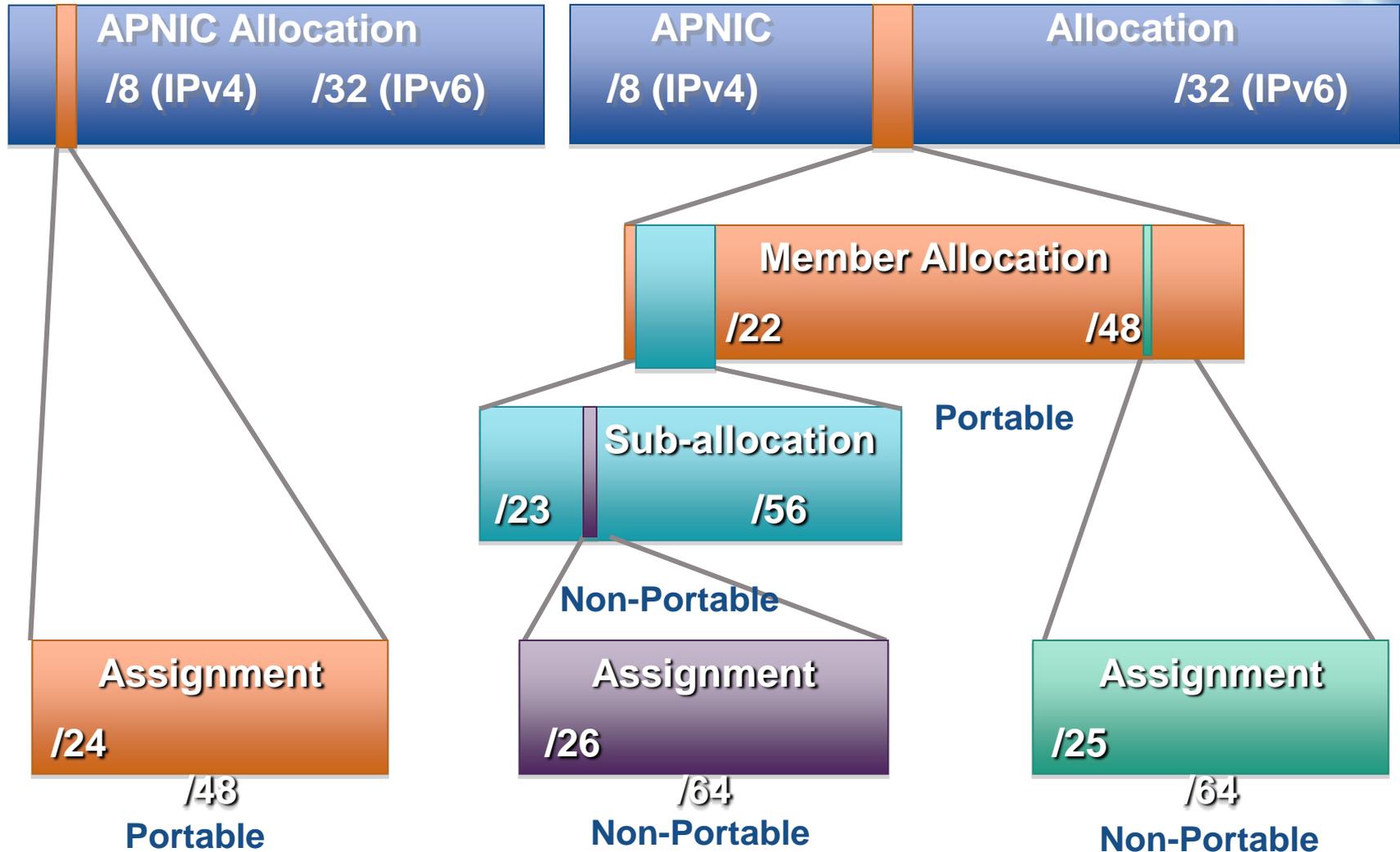- Based on demonstrated need

## Aggregation
- Limit routing table growth
- Support provider-based routing

## Registration
- Ensure uniqueness
- Facilitate trouble shooting

Uniqueness, fairness and consistency

# IP Address Management Hierarchy



• Describes "portability" of the address space

# Initial IPv6 Address/ASN Request

- You are required to be an IDNIC/APNIC member in order to initiate your IP Address Request.

- To qualify for a portable IP, you must:
  - Be a provider (Telco, ISP, Data center, i.e. sub-delegates IP address to customers)
    Or
  - Have a multi-homing network (connection to IX and upstream/multiple upstream)