

# Numbering Exchange Protocol (NEP)

<https://tools.ietf.org/html/draft-omar-nep-08>

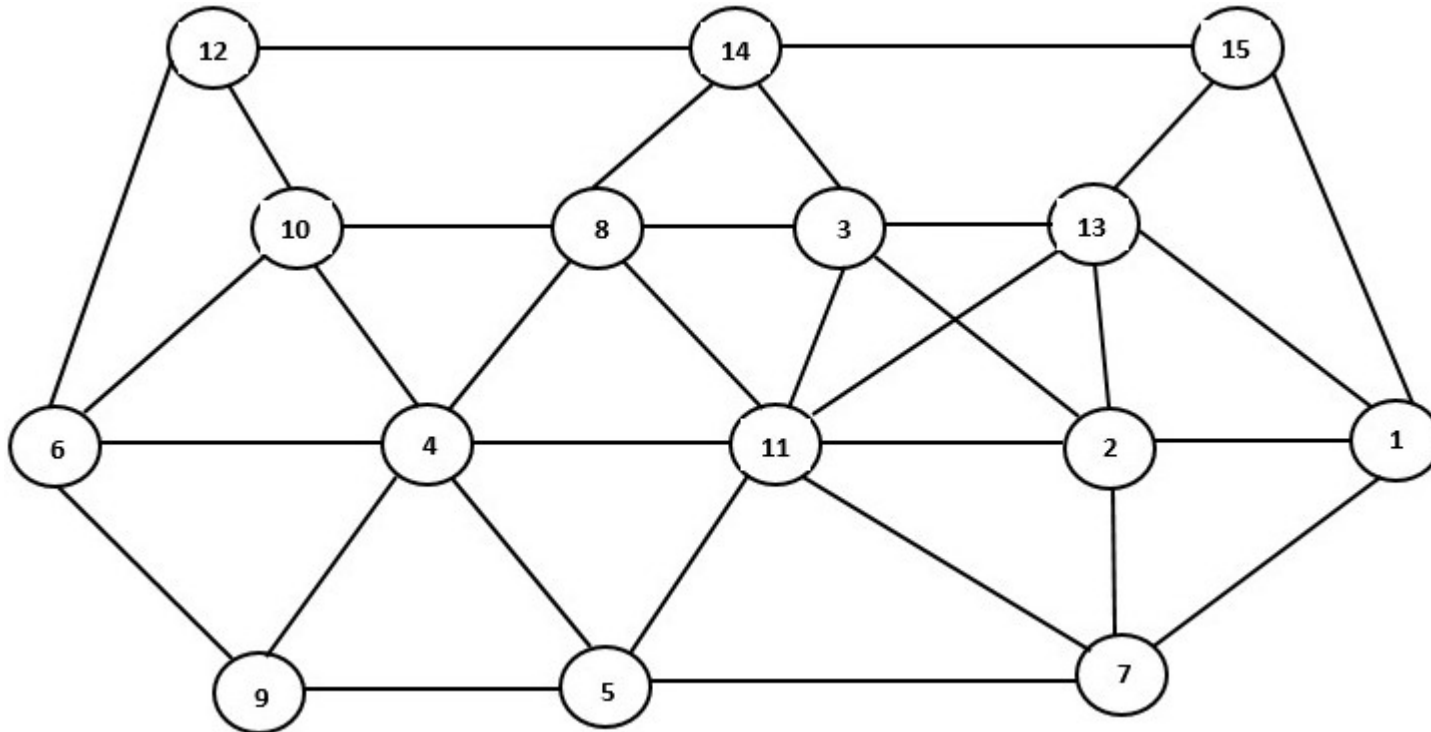
Authors  
Khaled Omar  
Luís Câmara

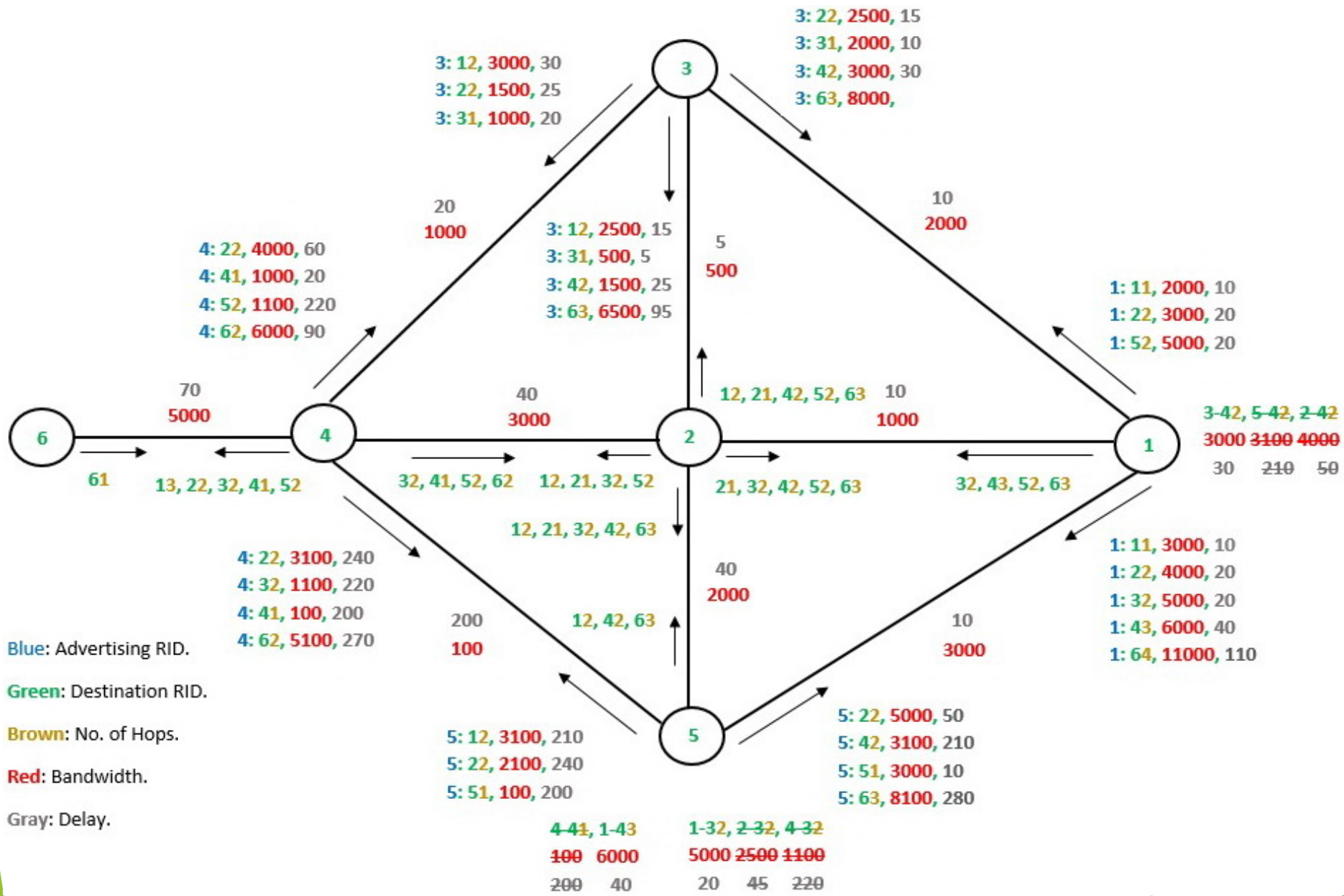
## Other IGP:

- ▶ RIP.
- ▶ OSPF.
- ▶ IS-IS.
- ▶ EIGRP.

NEP is an IGP that uses a metric that combines:

- Total Bandwidth.
- Total Delay.
- Number of Hops.





# NEP Metric Calculation Formula:

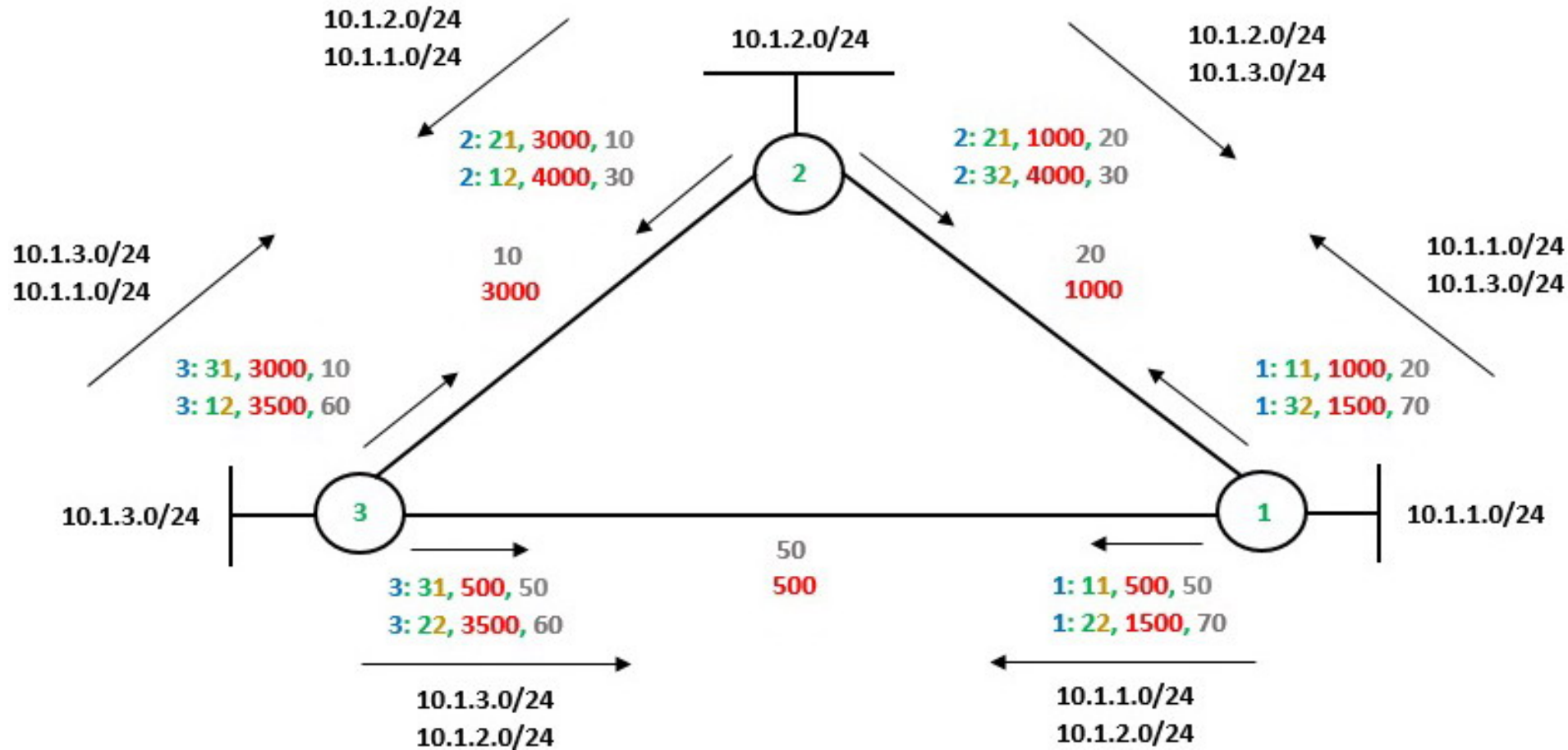
$$\text{Metric} * 10^7 = \left[ \frac{(\text{Number of Hops} * \text{Total Delay})}{\text{Total Bandwidth}} \right] * 10^7$$

Metric ↓      ↓ No. of Hops

Metric ↓      ↓ Total Delay

Metric ↓      ↑ Total Bandwidth

# NEP Subnet Advertisement:



# Directly-Connected Subnets Only

192.168.1.0/24  
192.168.2.0/24  
192.168.3.0/24



10.1.1.0/24  
10.1.2.0/24  
10.1.3.0/24