

# BGP (IPv4) Prefix Delegation: A Visual Representation

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# Purpose of this Project

- Generalized and organized platform for further research work.
- Overview of evolution of prefix delegation
- Visual representation of prefix delegation.
- AS ranking and AS business relationship.

# Prefix delegation

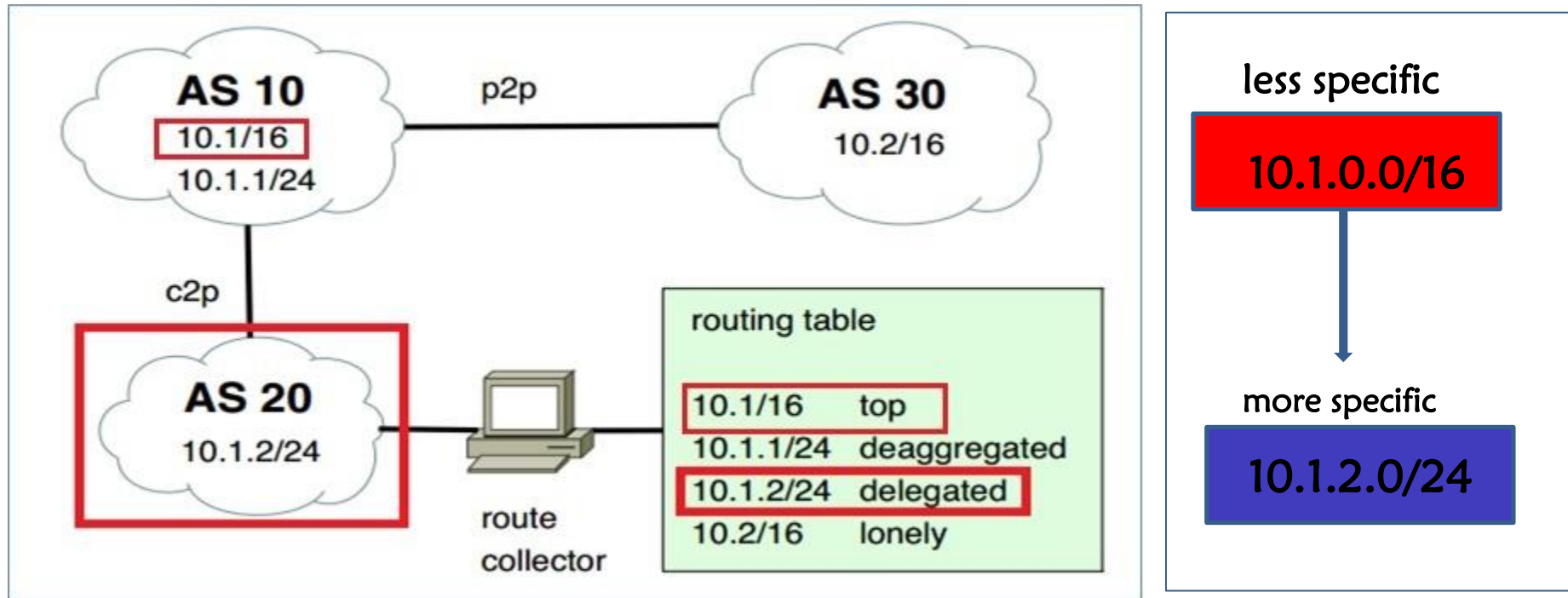
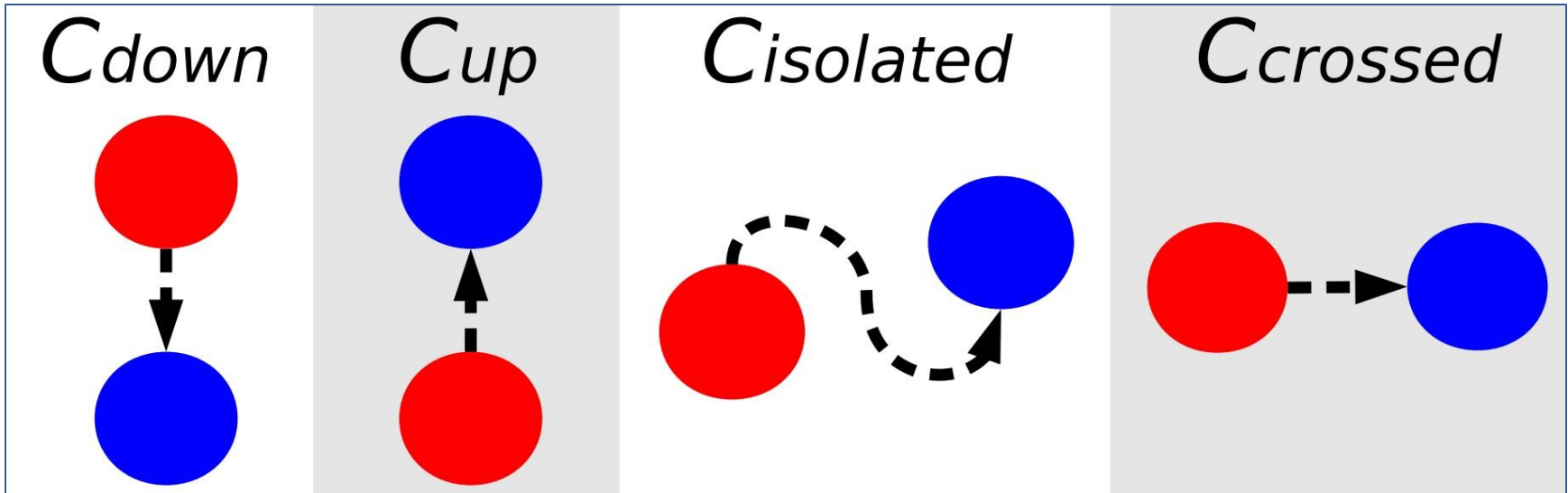


Fig: BGP Prefix Delegation example

# Delegation Classification



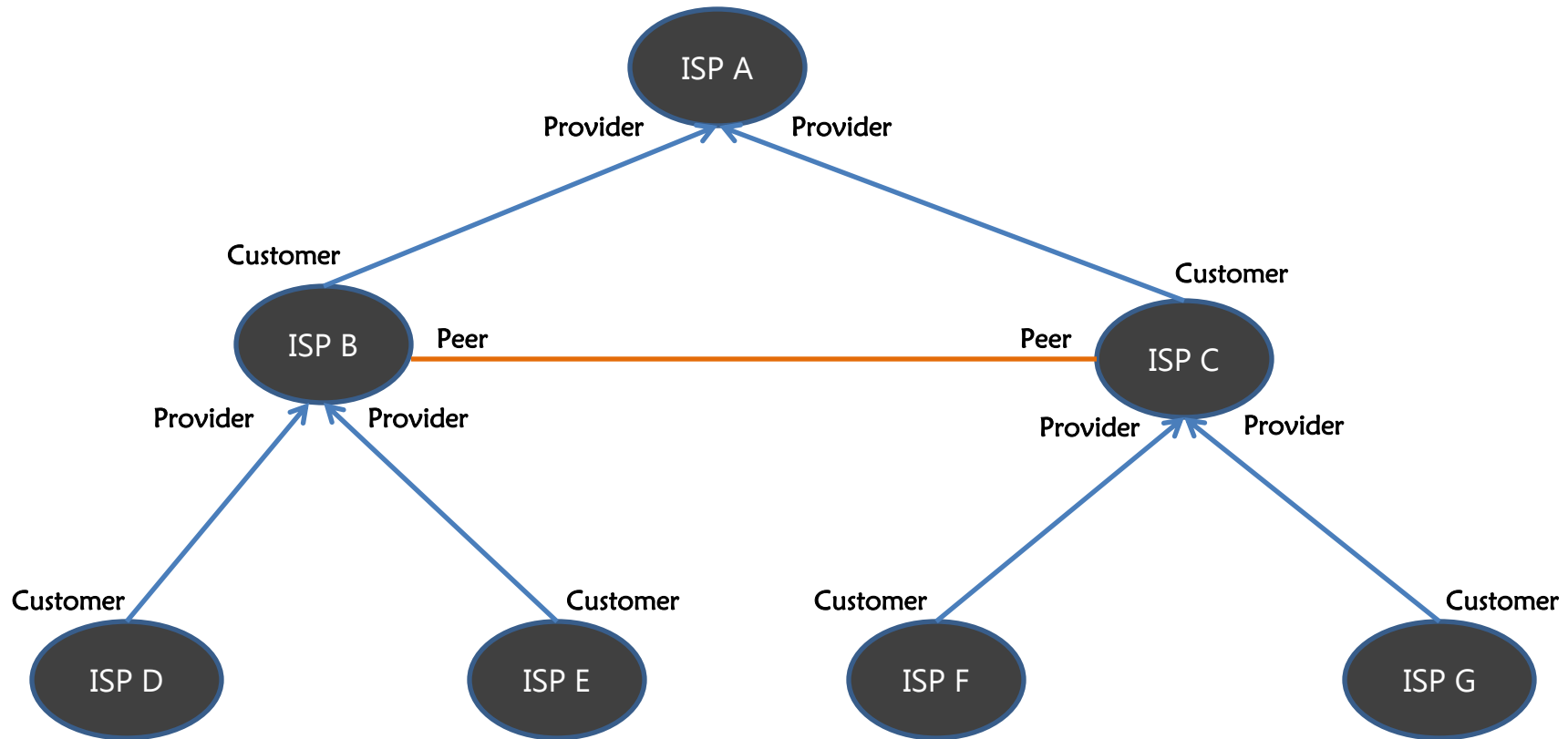
**Cdown:** Implies the delegation going down the AS level hierarchy, e.g., from provider to customer.

**Cup:** opposite of Cdown.

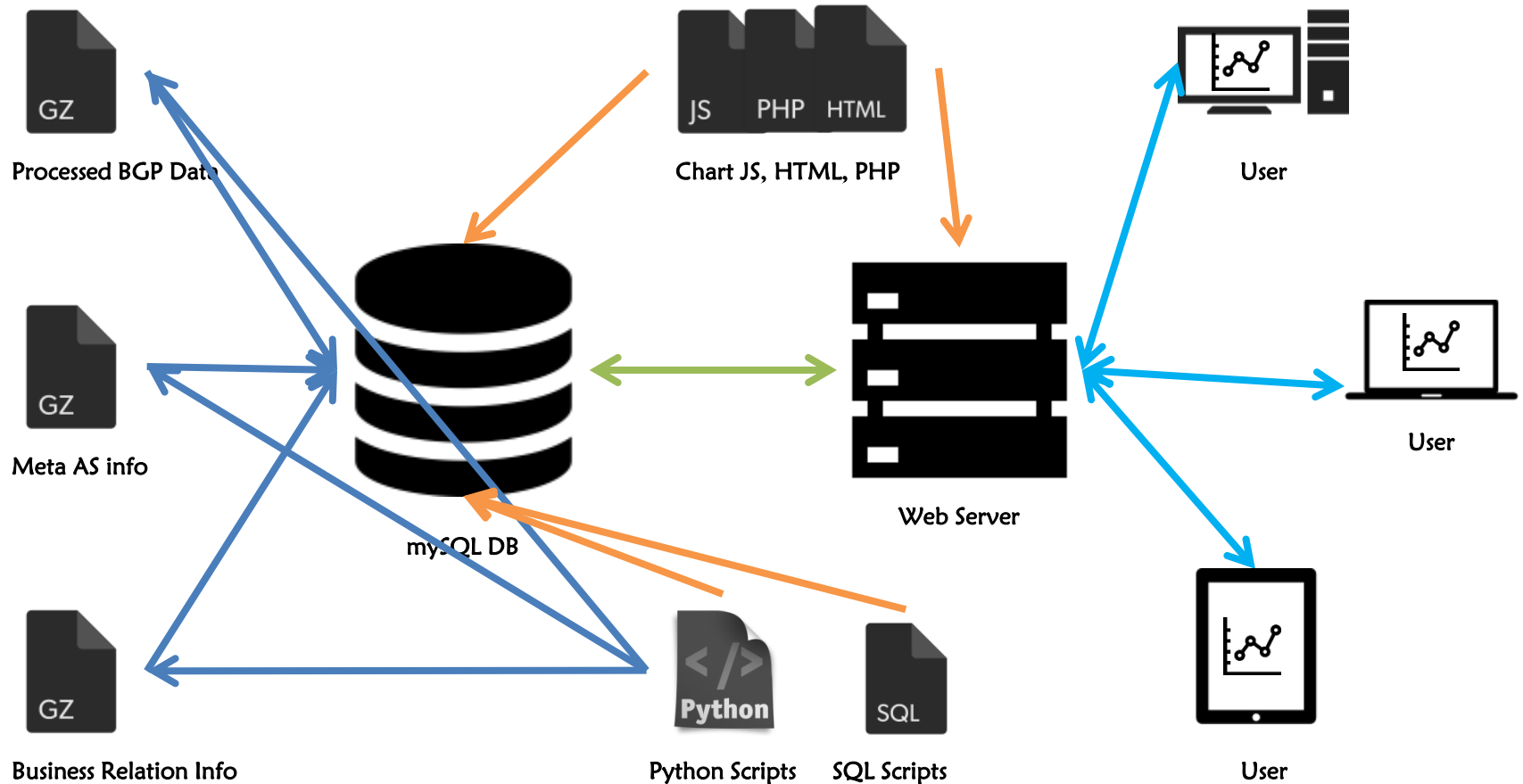
**Cisolated:** both the delegator and the delegatee announce their prefix separately.

**Ccrossed:** the delegator announces the less specific prefix via the delegatee and the delegatee announces the more specific prefix via the delegator.

# Types of AS Relationships



# System Architecture



# Let's look into our Prefix Delegation Website

URL: [http://tkrenc0.inet.tu-berlin.de/bgp\\_webportal](http://tkrenc0.inet.tu-berlin.de/bgp_webportal)

THANK YOU