

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

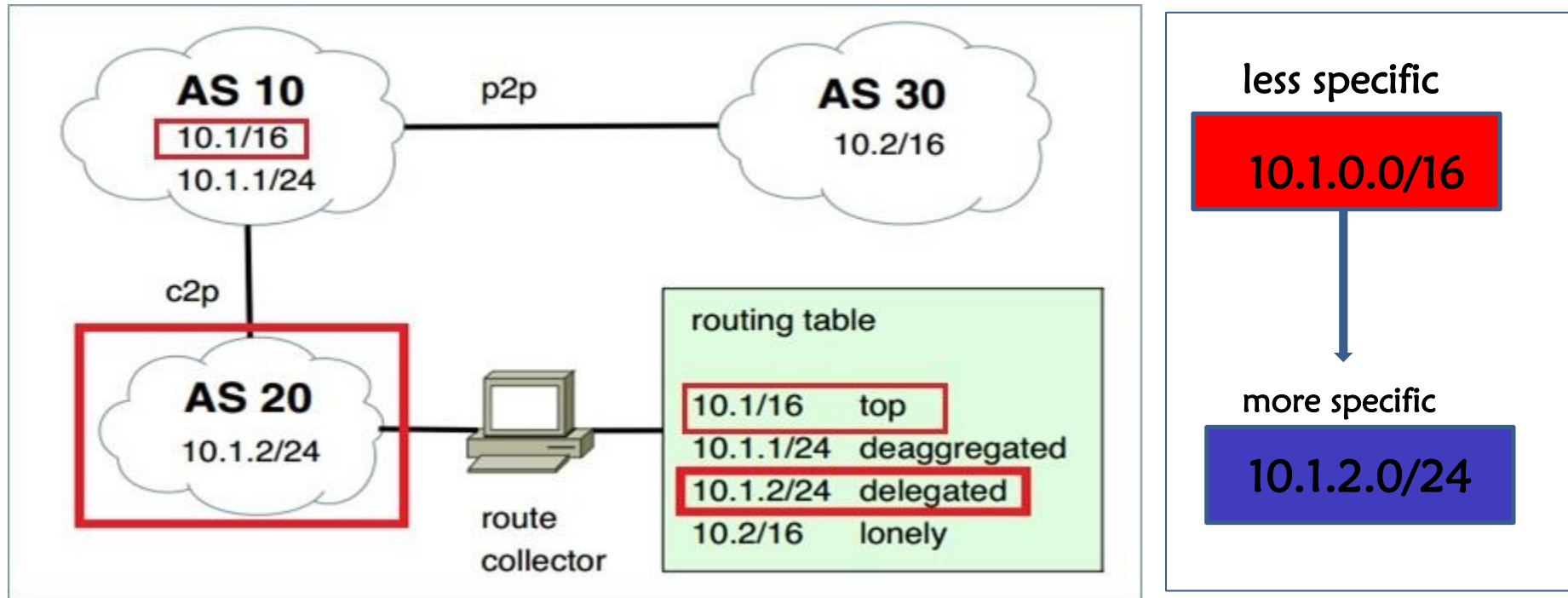
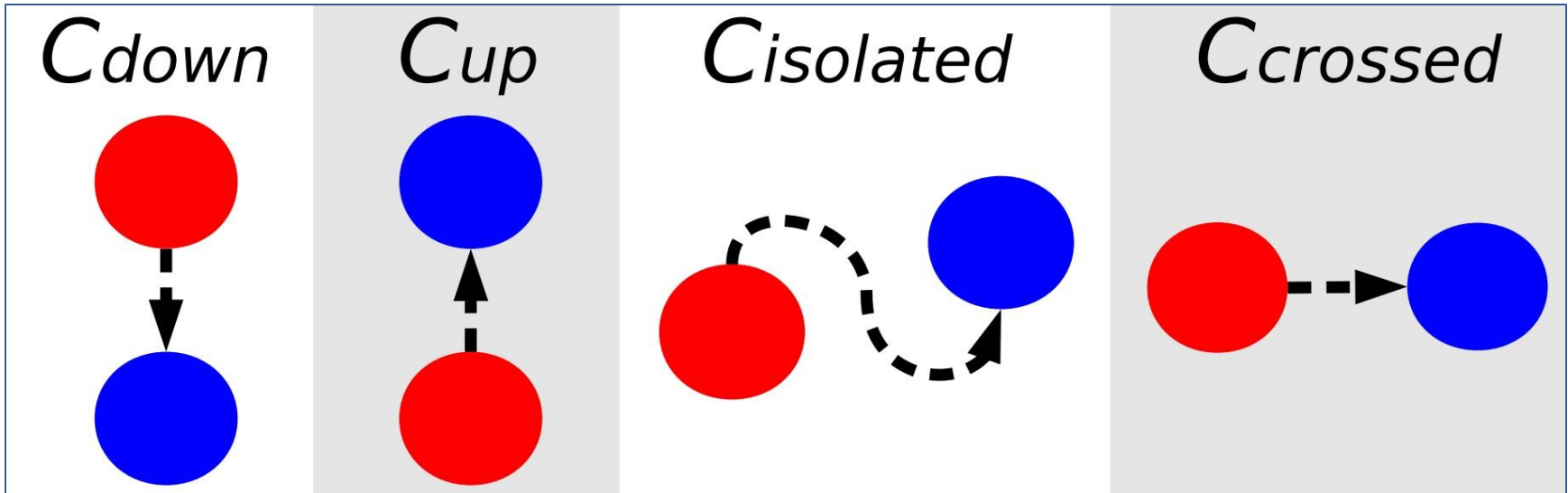


Fig: BGP Prefix Delegation example

Delegation Classification



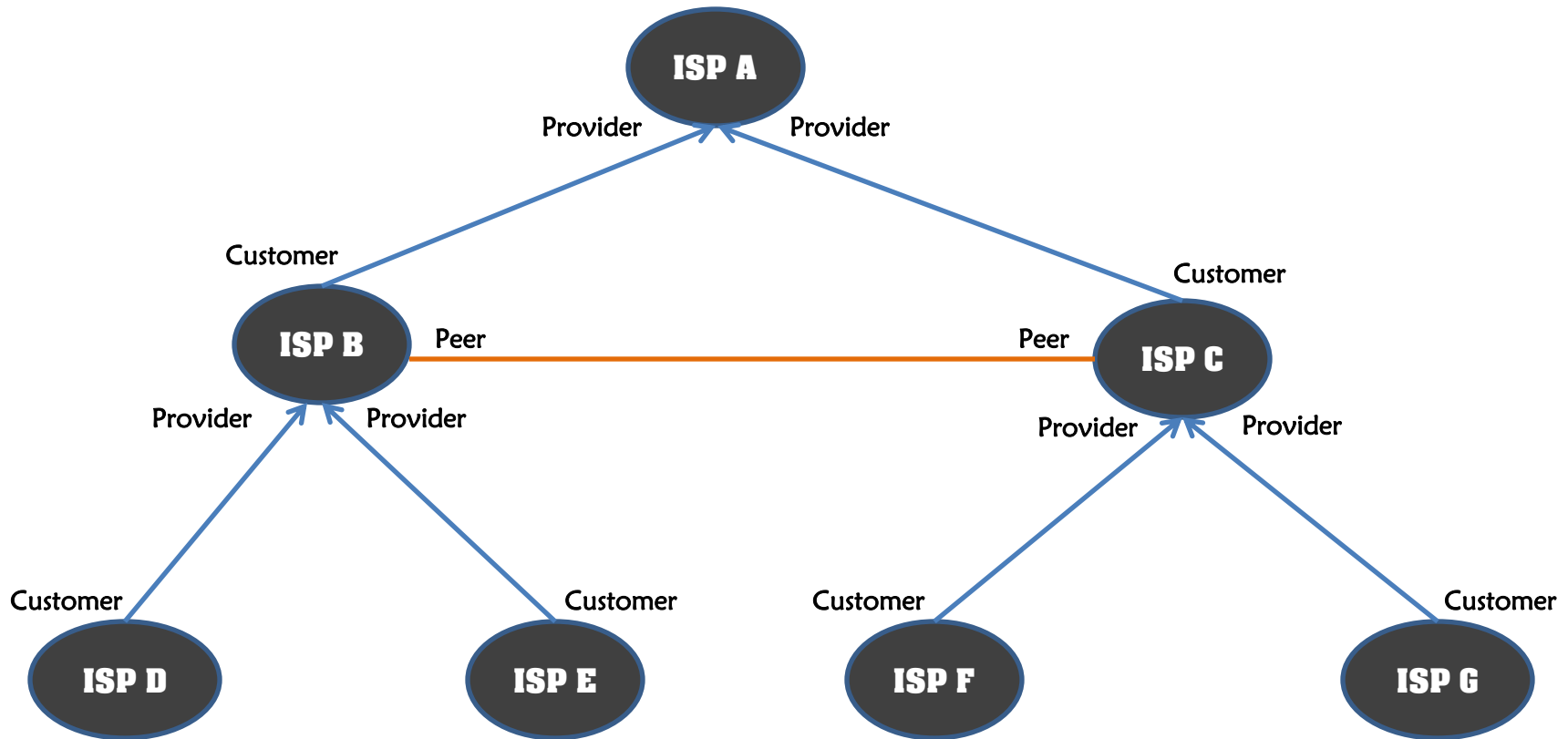
Cdown: Implies the delegation going down the AS level hierarchy, e.g., from provider to customer.

Cup: opposite of Cdown.

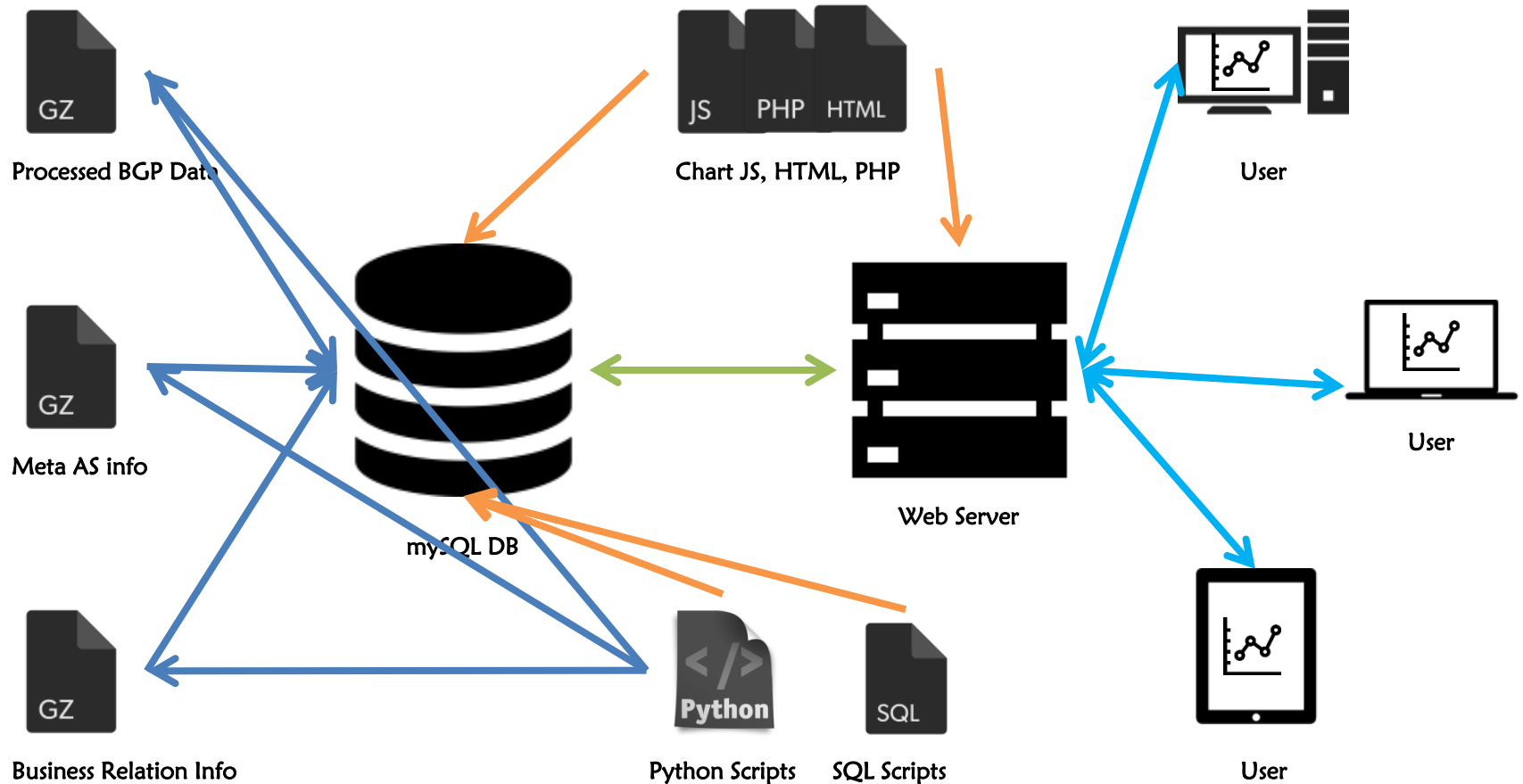
Cisolated: both the delegator and the delegatee announce their prefix separately.

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

THANK YOU