Terminology and Models for Control of Traffic Engineered Networks with Provider-Customer Relationship

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Goals and Non-goals of the I-D

- Define the network scenario

- Compile terminology from Existing documents

- Identify problems with terminology

- Help to agree with terminology

- Provide a taxonomy of the different control models

- Non goals: Support a specific control model,

Network Scenario

- Interconnected network domains
- At the **data plane** level
  - there is **client-server relationship**: "server" domain provides services to "client" domain
- At **control plane** level
  - there is an **administrative and policy** boundary

Terminology: Customer-Provider vs Client-Server

- Client-server:
  - Pro: reflects the data plane relation
  - Con: does not reflect policy/administrative boundary
- Customer-provider:
  - Pro: reflects policy/administrative boundary
  - Cons:
    - ITU semantic already defined in G.8080/Y.1304
    - not used in RFC4208.

Terminology: UNI

- Interface between customer/client and provider/server domains
  - "User-to-Network Interface" (UNI)
- However, the term has been used in multiple contexts and SDOs
  - ITU, OIF, IETF...
- The exact definition and the associated functionalities depend on the application

Terminology: Reachability

- Reachability taxonomy from interconnected-te-info draft
- Several variations
  - Unqualified Reachability
  - Qualified Reachability
  - Qualified Reachability with associated potential TE path

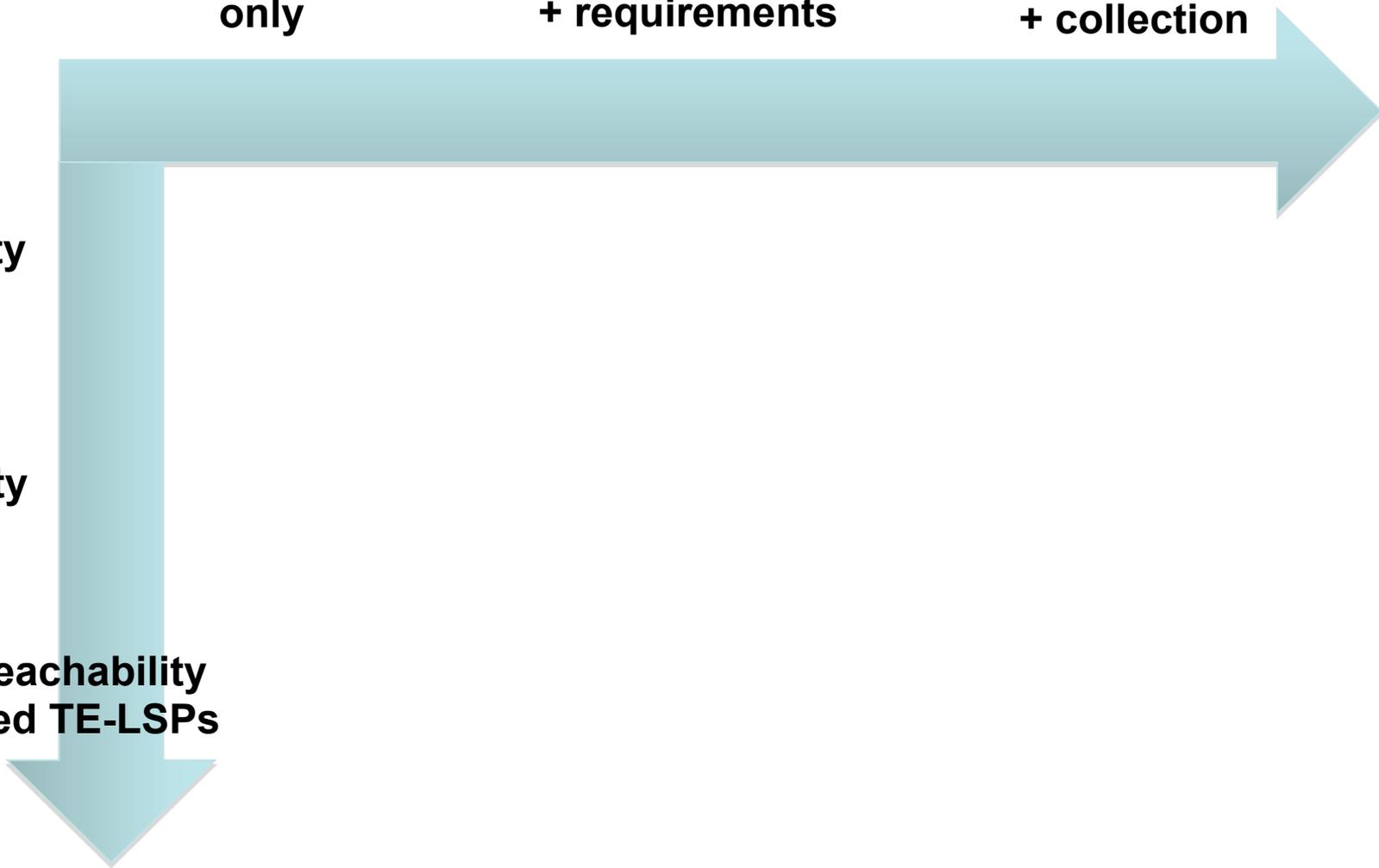# Taxonomy of Control Models

Signalling only

Signalling + requirements

Signalling + collection

Basic reachability

Qualified reachability

Qualified reachability + associated TE-LSPs

Taxonomy of Control Models

- Signalling only
- Signalling + requirements
  - customer can specify constraints
- Signalling + collection
  - customer can receive information on service
- Signalling + basic reachability
- Signalling + qualified reachability
  - customer gets a priori provider's information
- Other models

Next Steps

- Receive feedback and comments from WG

- Agree on terminology
  - client-server
  - customer-provider
  - X-Y?

- Agree on Control Models Partionning