New Terms

• Subscriber
• Shared Component
• Dedicated Component
• Resource Transition Point

When we have agreed definitions, then we can add a few examples...
Revised Definition

• Subscriber
  – An entity (associated with one or more users) that is engaged in a subscription with a service provider.
  – The subscriber is allowed to subscribe and un-subscribe services, and to register a user or a list of users authorized to enjoy these services. [Q1741]
  – Both the subscriber and service provider are allowed to set the limits relative to the use that associated users make of subscribed services.

..., then we can add an example of Shared and Dedicated network sub-paths.
New Path Example

Subsc. -- Private -- Private -- Access -- Intra IP -- GRA -- Transit

device | Net #1 | Net #2 | Demarc. | Access | GW | GRA | GW
mp000   |        |        |         |        | mp100 | mp150 | mp190 | mp200 |

-UE--|--------|CPE/NAT--------|------|CGN--|------|

Wi-Fi | wired   | ---Access Network--|

|Shared|--|RT|---Dedicated------| RT |----Shared--------|

GRA = Globally Routable Address, GW = Gateway,
RT = Resource Transition Point
BACKUP
Reference Path

(artwork from Marcelo Bagnulo Braun)

Subsc Devic
Private Net 1
Private Net 2
Access Demarc
Intra IP Access
GRA GW
Transit GRA GW
Transit GRA GW
GRA GW
Access Demarc
Private Net n
Private Net n+1
Destination host

mp000
mp100
mp150
mp190
mp200
mp800
mp890
mp900

usually defined as the Ethernet interface on a residential gateway or modem

may be the Resource Transition Point
Subscribers and Shared Links/Nodes

Subscriber making a measurement

<table>
<thead>
<tr>
<th>Subscriber’s Hosts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Subscribers</td>
</tr>
<tr>
<td>Subscriber’s Hosts</td>
</tr>
</tbody>
</table>

Dedicated Links/Nodes

- All resources of components on a sub-path are allocated to a particular Subscriber

Shared Links/Nodes

- Common resources are shared among multiple Subscribers

Resources include transmission timeslots, queue space, processing for encapsulation and address/port translation, others…