

# LMAP Reference Path and Measurement Points

draft-ietf-ippm-lmap-path-01

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# 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 unsubscribe 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.

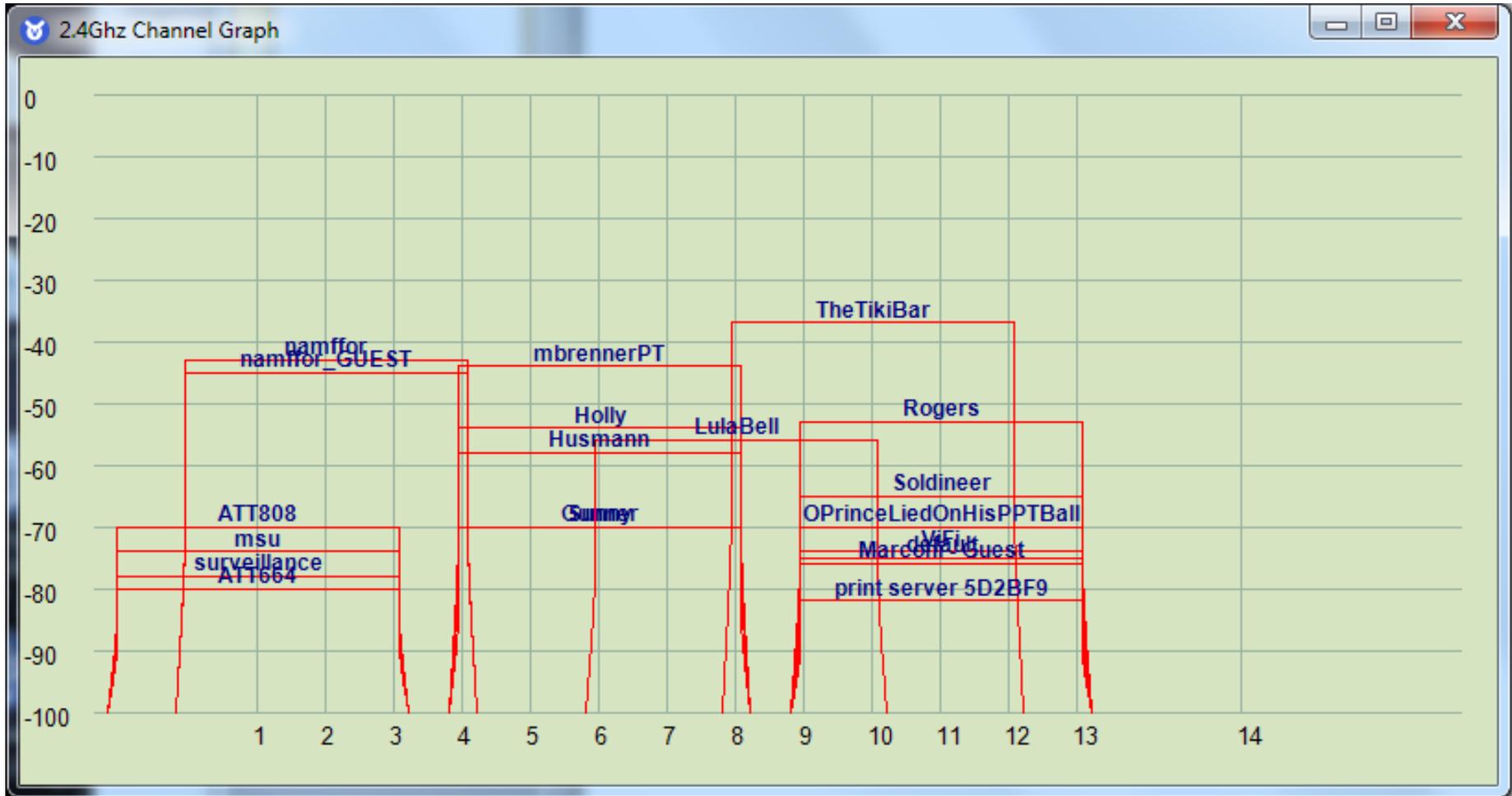
..., then we can add an example of Shared and Dedicated network sub-paths.

# 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,

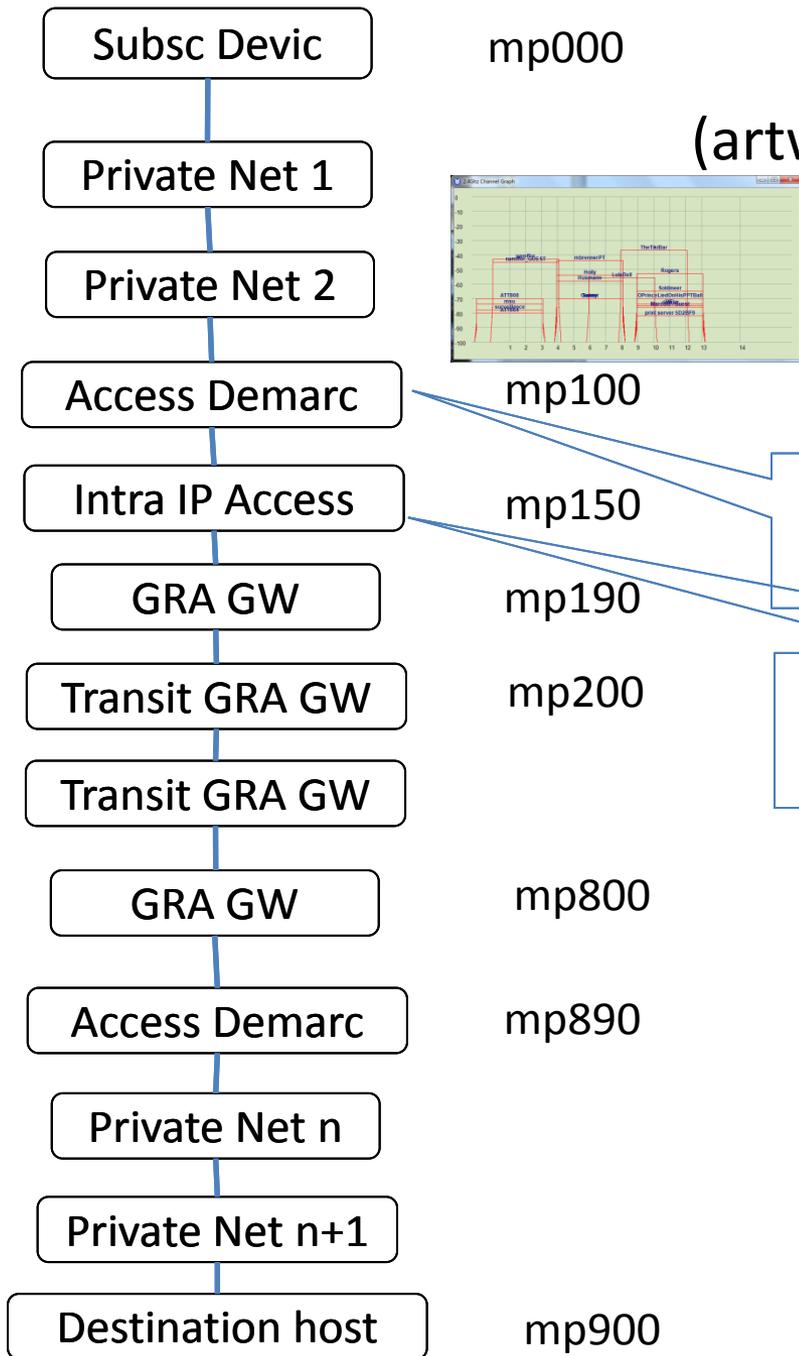
RT = Resource Transition Point



**BACKUP**

# Reference Path

(artwork from Marcelo Bagnulo Braun)



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



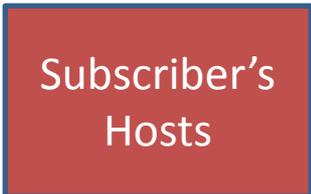
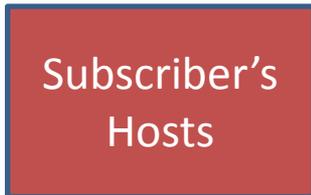
Dedicated Links/Nodes



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

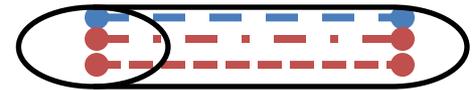


Other Subscribers



Shared Links/Nodes

Common resources are shared among multiple Subscribers



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