

Satellite Local Loop using UDLR

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Agenda



- ➔ Objectives of the architecture
- ➔ Architecture presentation
- ➔ Why using UDLR/LL Tunnelling Mechanism ?
- ➔ Road Map

Objectives



Satellite Broadband Internet Access :

128 kbps (return channel), 512 kbps

➔ Based on ADSL model

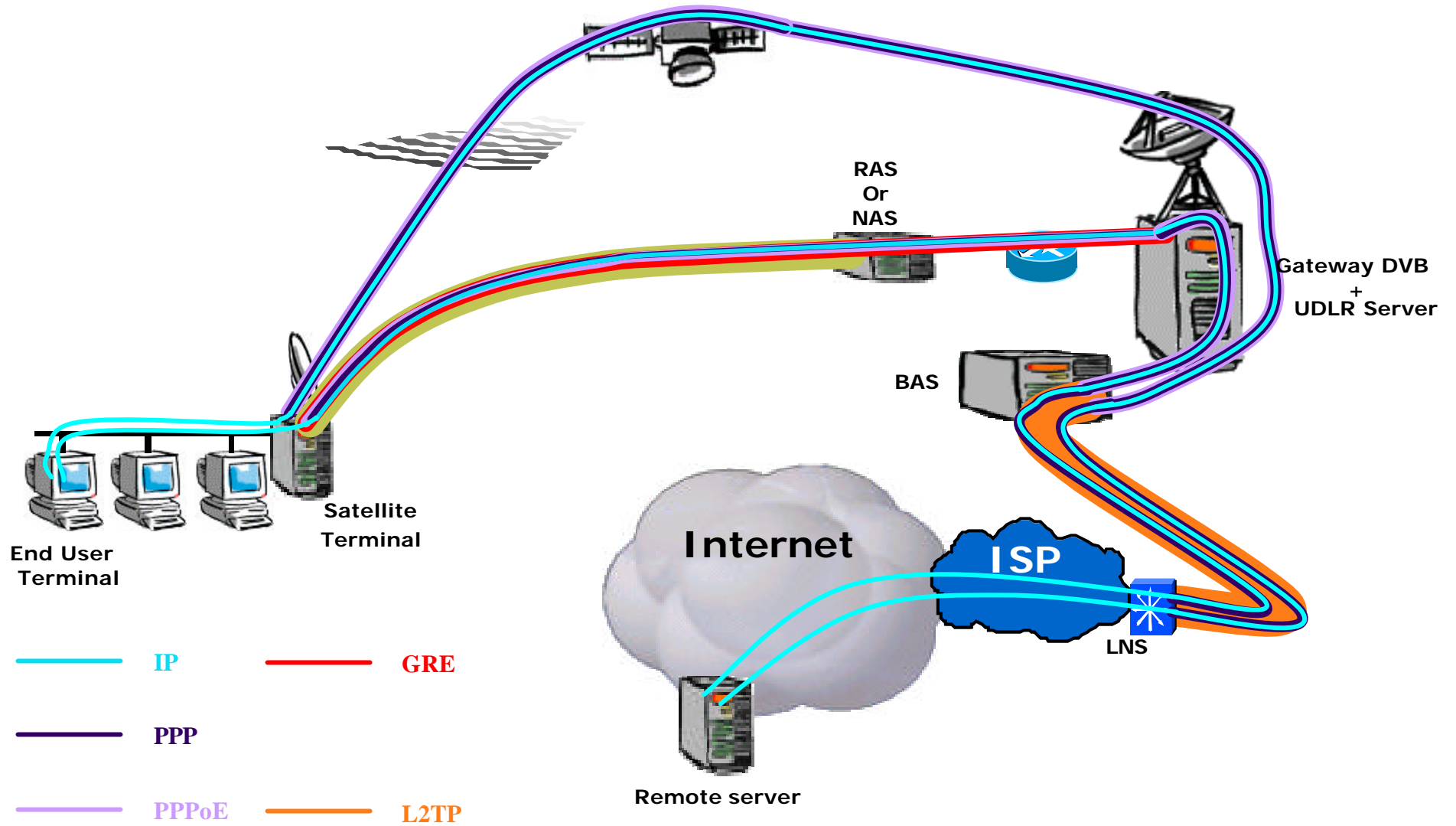
- Multi ISP configuration
- Re-use of the ADSL management system (accounting, billing, etc.)

➔ Return channel flexibility : satellite or terrestrial

Interconnection with a BAS (Broadband Access Server) :

PPP connection type for Unicast flows

Architecture





Why UDLR?

➡ Interconnection with a BAS (Broadband Access Server) :

- Satellite bi-directional Layer 2 Connectivity
 - Convergence point directly connected to the BAS
 - PPPoE supported

➡ Return channel flexibility

- Either satellite or terrestrial return channel can be used
- Standby terrestrial link

➡ Compatibility with all IP world :

- Important for multicast

Road Map



- ➔ Unicast :
 - Concept validation performed already at FTR&D laboratory

- ➔ Multicast Support :
 - Multicast offered by ISP : to be studied
 - Via the BAS without using PPPoE
 - Multicast directly connected through the Gateway : to be validated

- ➔ Experimentation
 - Third quarter of 2001 with a few tens of satellite terminals