

Satellite IP services for the mass market

COST 272

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Outline

- Packet services for PVR
- Skyscraper VoD network
- Satellite nVoD network
- Existing services: example
- Satellite prototype
- “Hit” channel case study

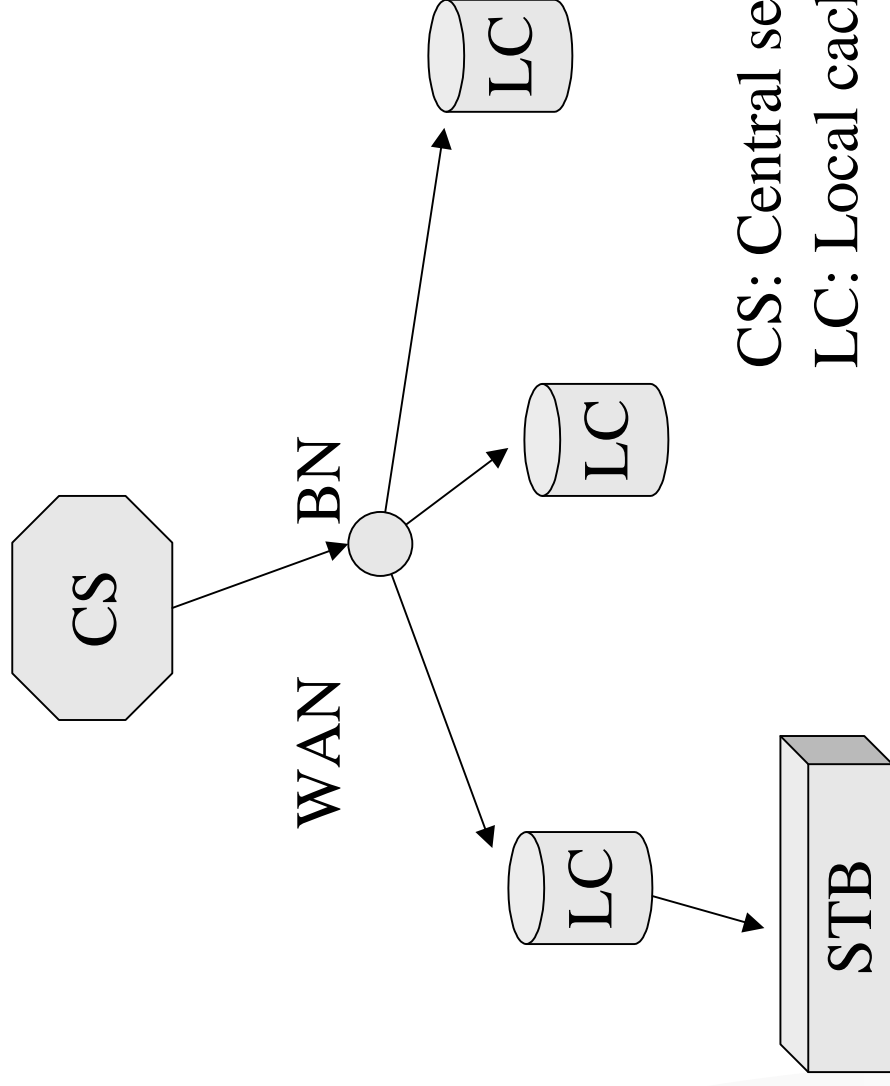
Packet services for PVR (I)

- PVR: Personal Video Recorder
(basically, set-top box
w massive storage)
- TV-Anytime Forum (www.tv-anytime.org)
“ ... solutions to enable ... services
based on mass-market high
volume digital storage”

Packet services for PVR (II)

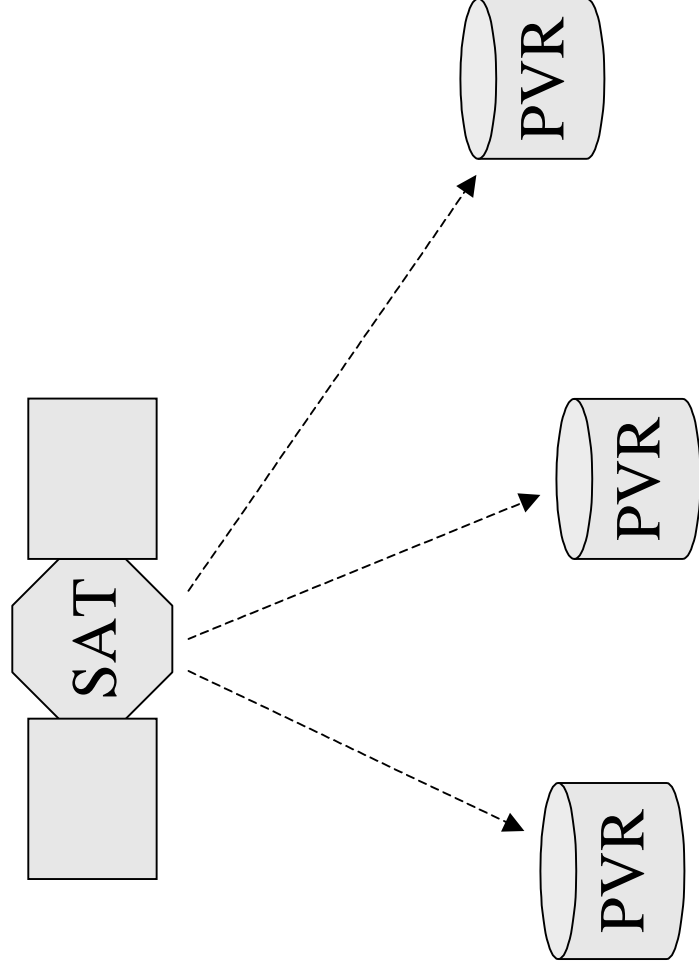
- Near - VoD
- Game downloads
- MP3 downloads
- Co-existence with DVB TV

Skyscraper VoD network



CS: Central server
LC: Local cache
BN: Backbone node
STB: Set-top box

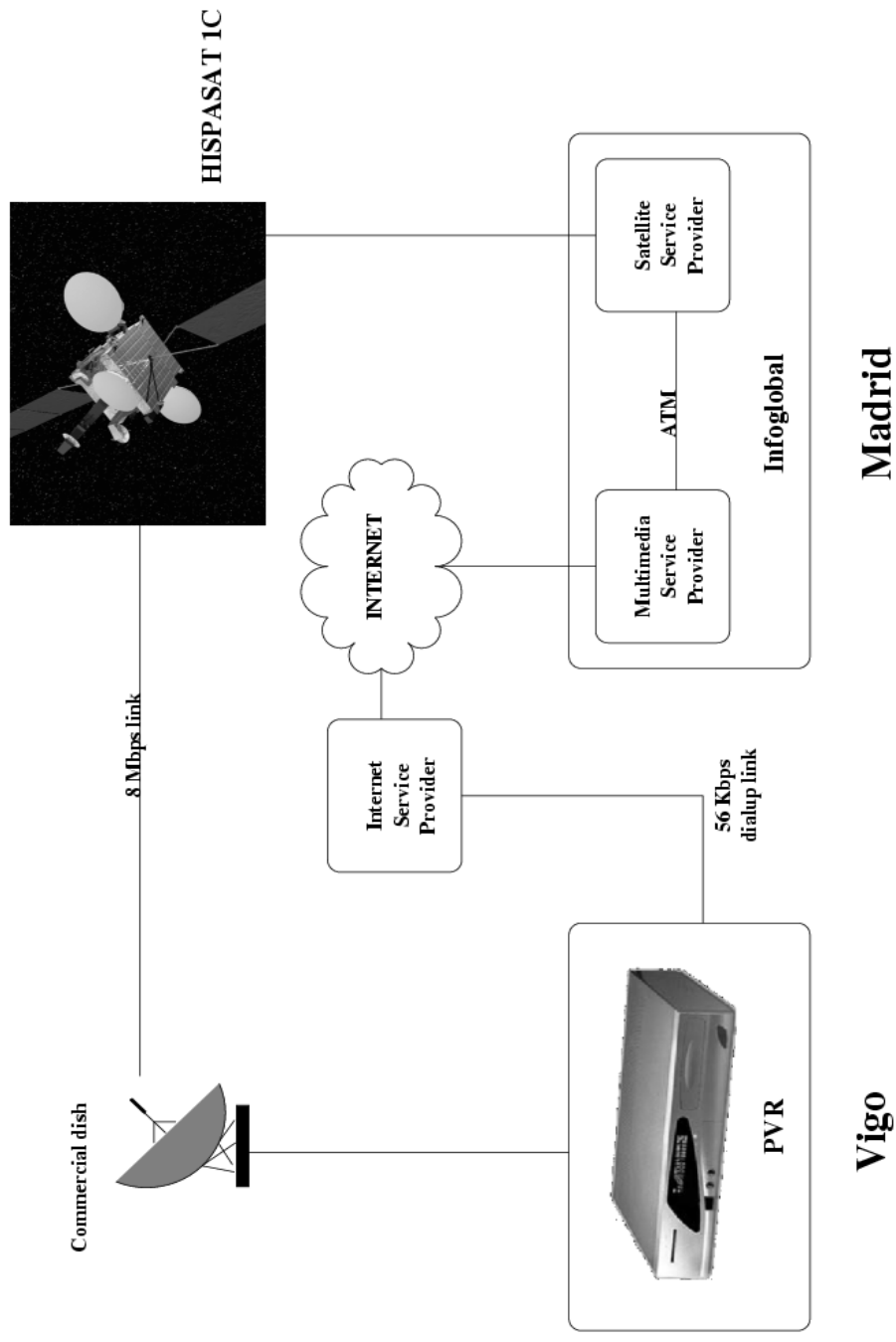
Satellite nVoD network



Existing services: example

- Europe Online (www.europeonline.com)
 - ◆ Astra-based
 - ◆ Unicast services: Internet
 - ◆ Multicast services: FCFS file downloads at 2Mbps
 - ◆ DVB client for Astra TV

Satellite prototype



“Hit” channel case study (I)

- 100 “hit” objects, 850 Mbyte each
- 1 Mbyte/s downlink rate
- Object requests acc. to heavy-tailed distribution (Eager, Ferris & Vernon 99, CS-UW tech rpt)
- t : user waiting time

“Hit” channel case study (II)

