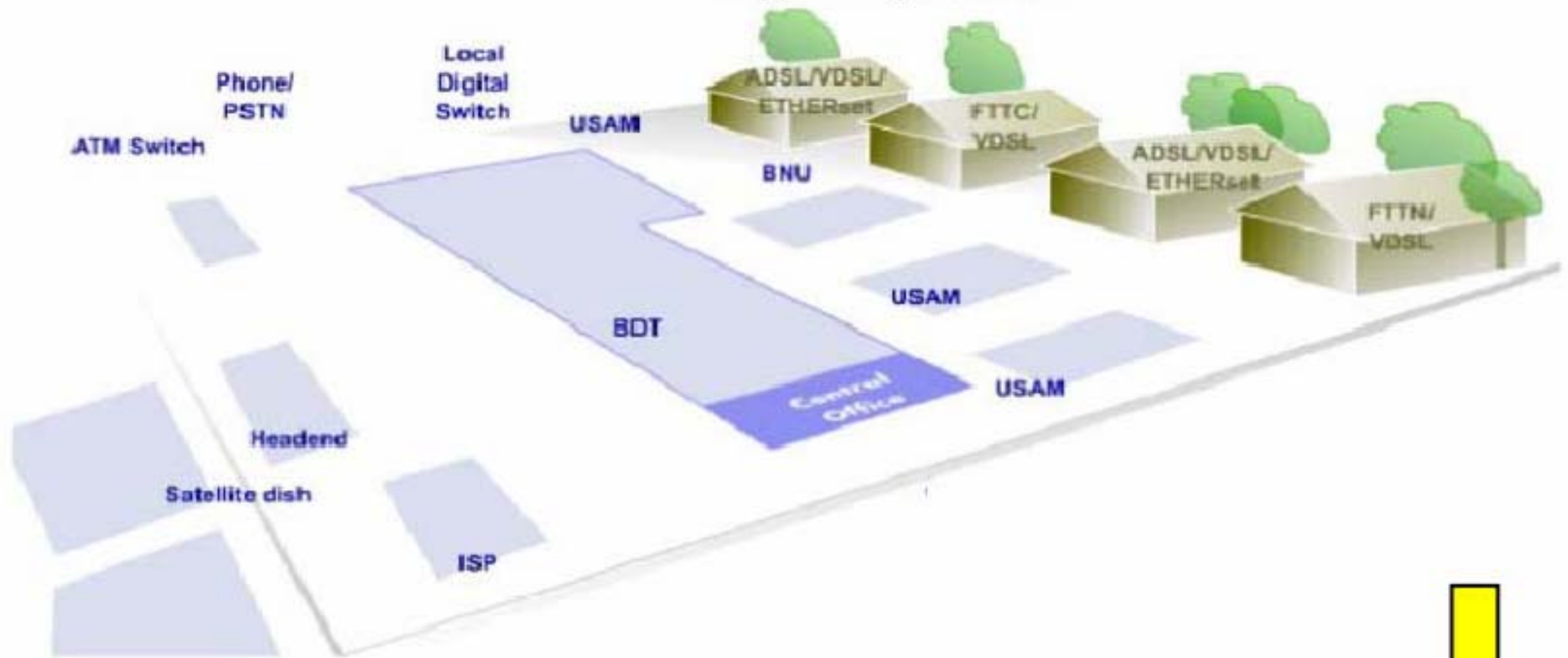


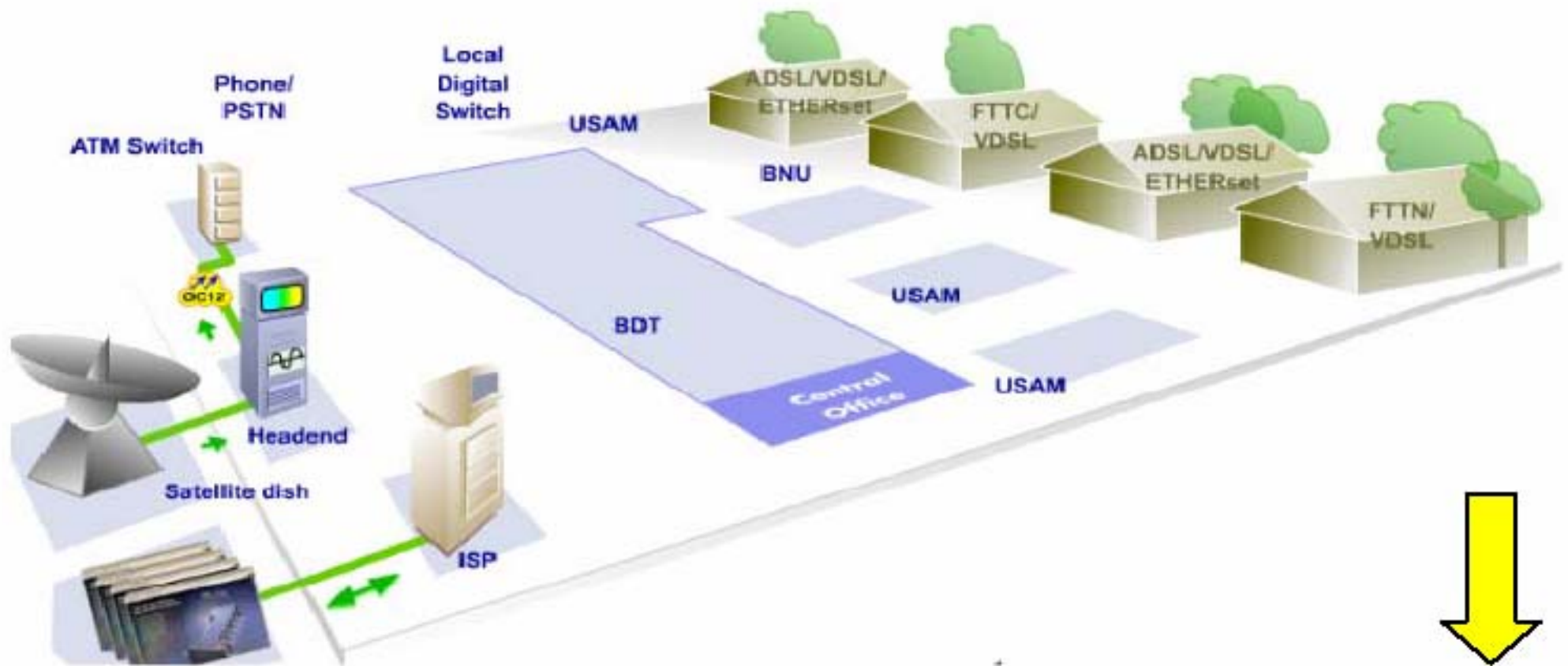
# National Enhance Technology Corp.

## **VDSL with Optical /GB Ethernet Total Solution Structure**

The slides will present a conceptual overview of VDSL Broadband Access Platform, a broadband service delivery system which integrates easily into existing telephony and media services architecture, while delivering broadband services over existing copper telephone line.

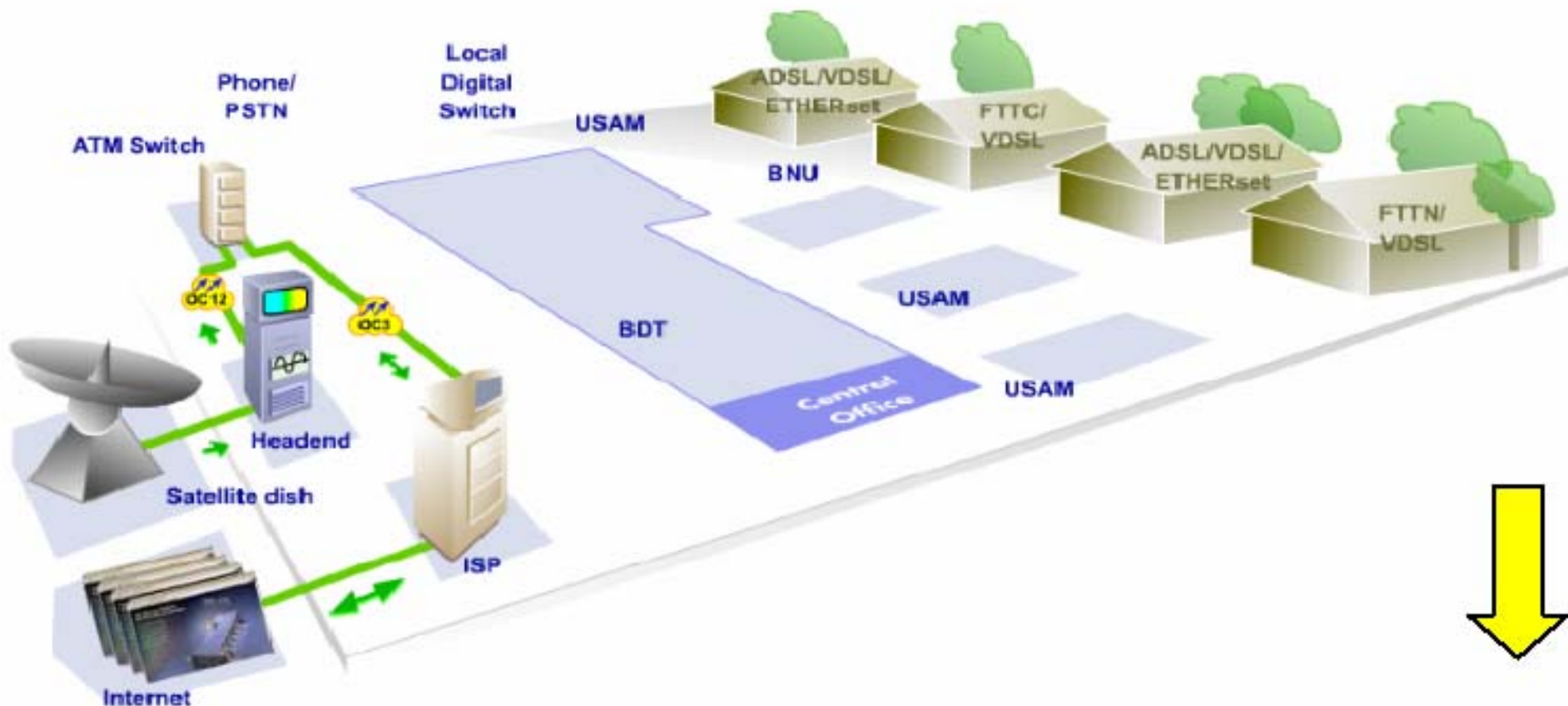


Internet and World wide web data are delivered to end users through an ISP. The ISP is a gateway to the Internet for client requests (customers accessing the web, E-mail, FTP or other Internet centric applications) and server transmissions.



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These client/server data move across a fiber optic network operating at 155Mb/s (OC3). In this example, data are routed through an ATM switch.



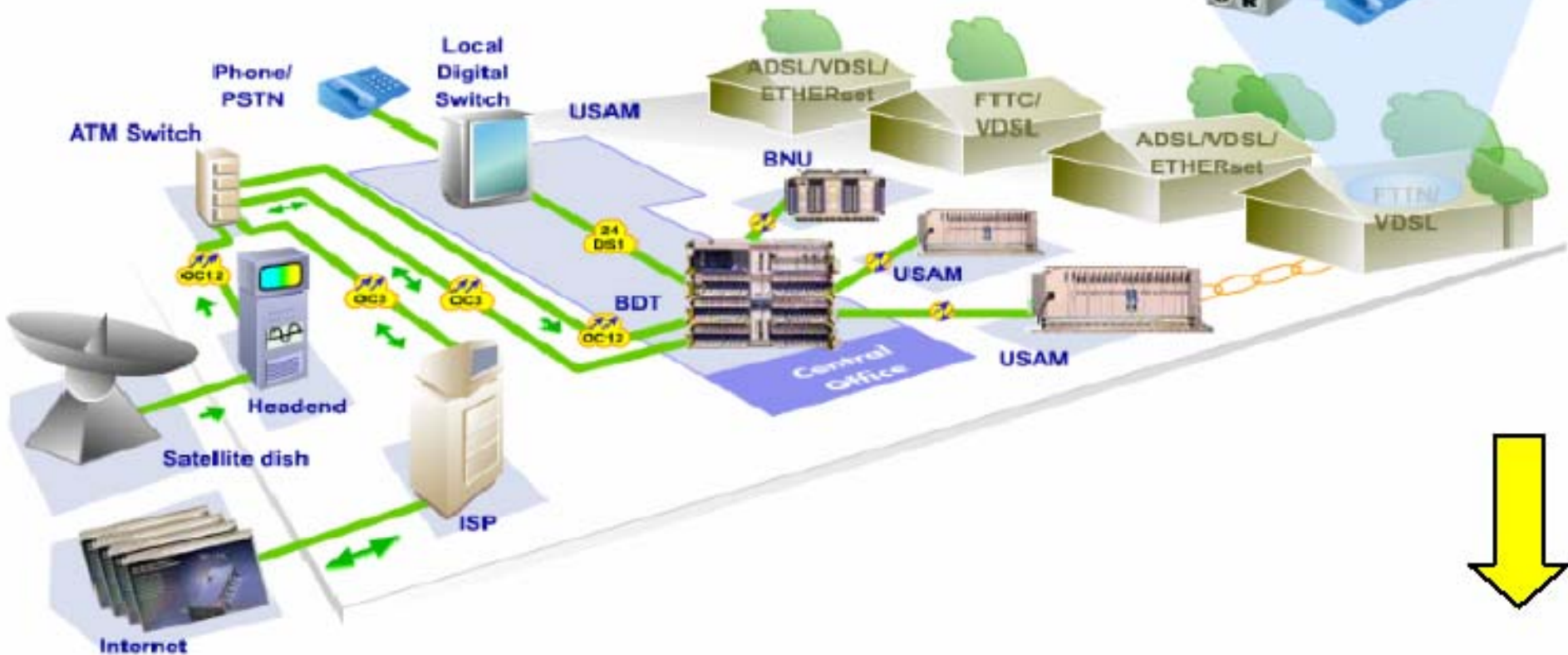
General telephony services, through the PSTN, is integrated into the broadband delivery architecture through a local digital switch. This switch resides in CO, a facility where subscriber lines are routed for local or long distance calling services.

The BDT resides in the CO. Data and content in this example- Internet, video, telephony, are directed to and through the BDT.



The BDT connects to optical network units by fiber optic cable, over a distance of up to 60000 feet.

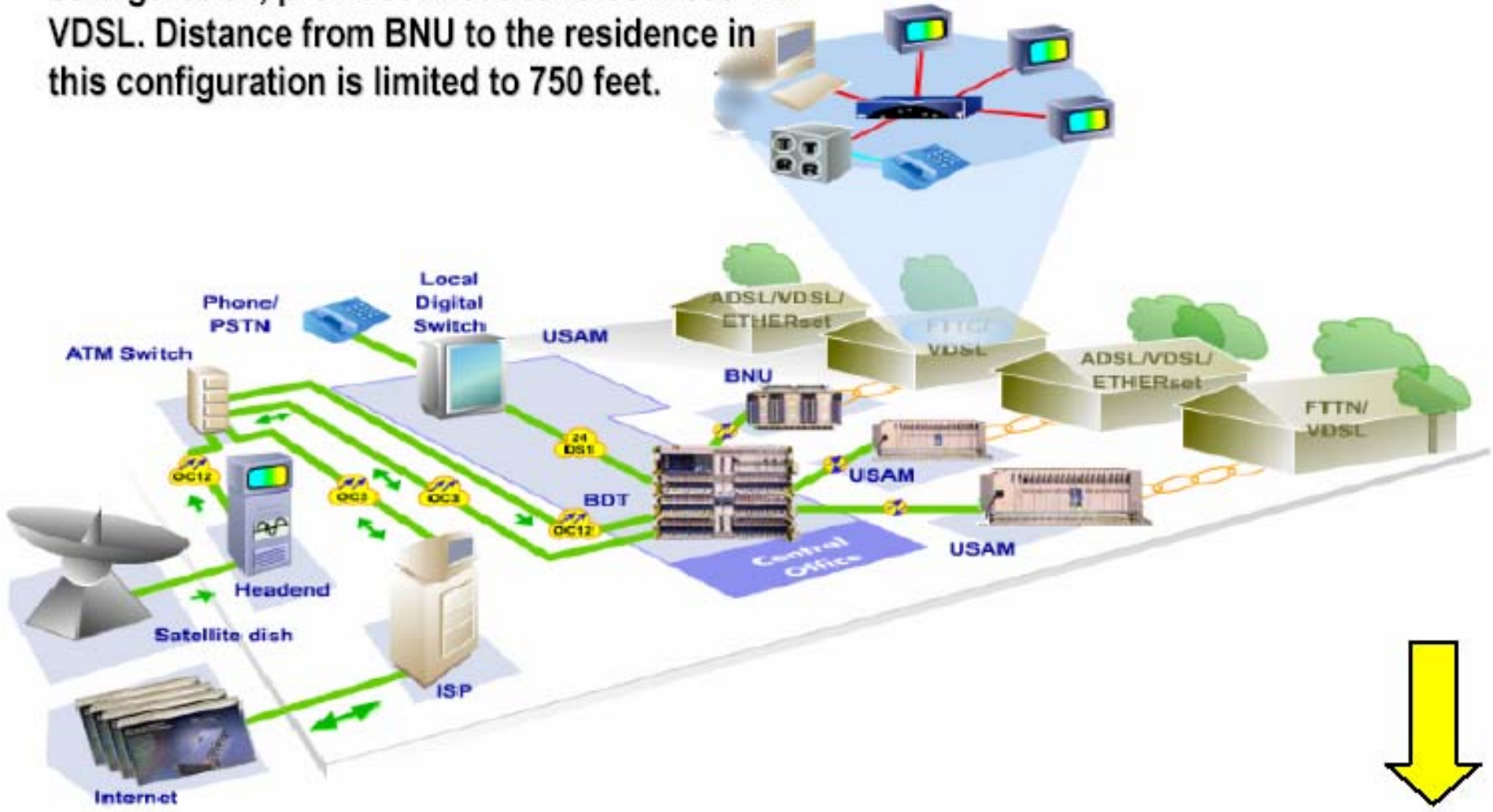
In a FTTN configuration, data, video, and phone services are delivered to the USAM, via VDSL. The USAM, which can be located as far as 3000~4000 feet from the premises, delivers the data via existing copper wire.



In a FTTN configuration that provided only by the telephone (POTS) and data (ADSL), these services are delivered over fiber to the USAM. The USAM, which can be located as far as 12000~18000 feet from the premises, delivers both phone and data services via existing copper wire to the house.



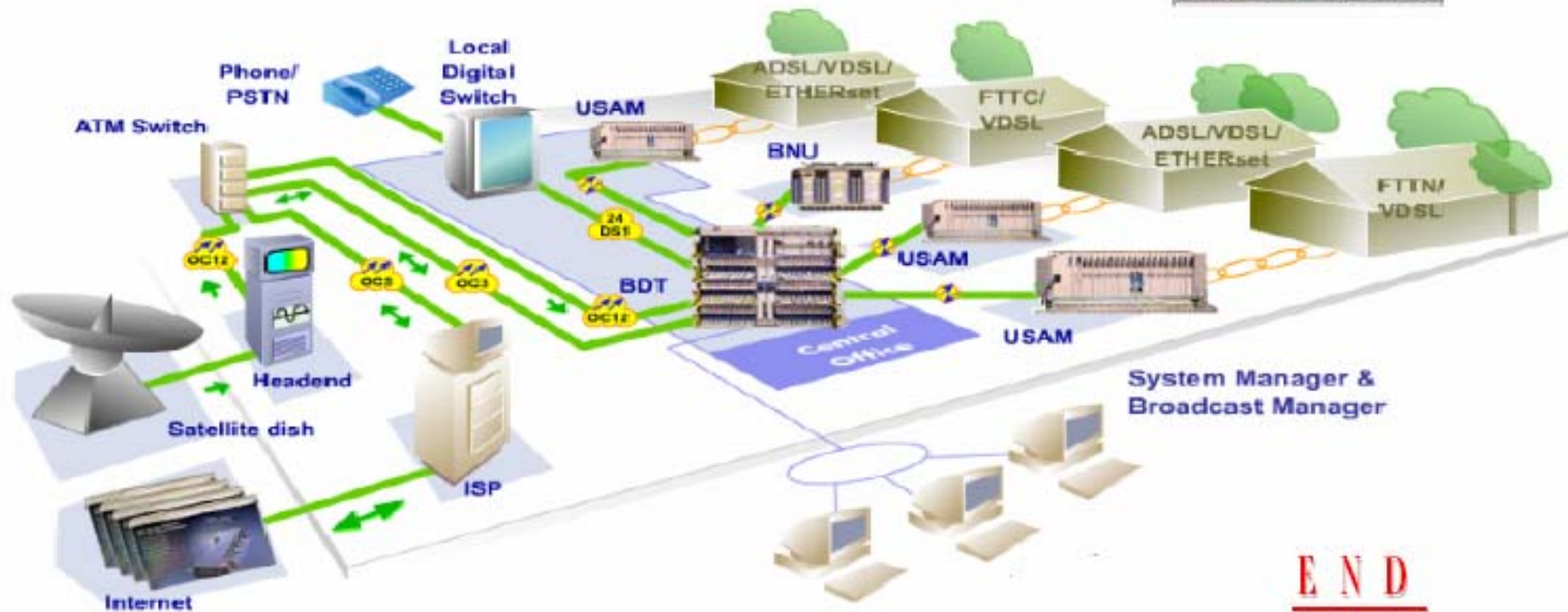
A broadband network unit(BNU), in a FTTC configuration, provides broadband services via VDSL. Distance from BNU to the residence in this configuration is limited to 750 feet.



A single USAM residing within a CO can provide phone service and bi-directional data feed to the residence. In this configuration, the USAM can deliver service from within the CO without the need for remote optical units.

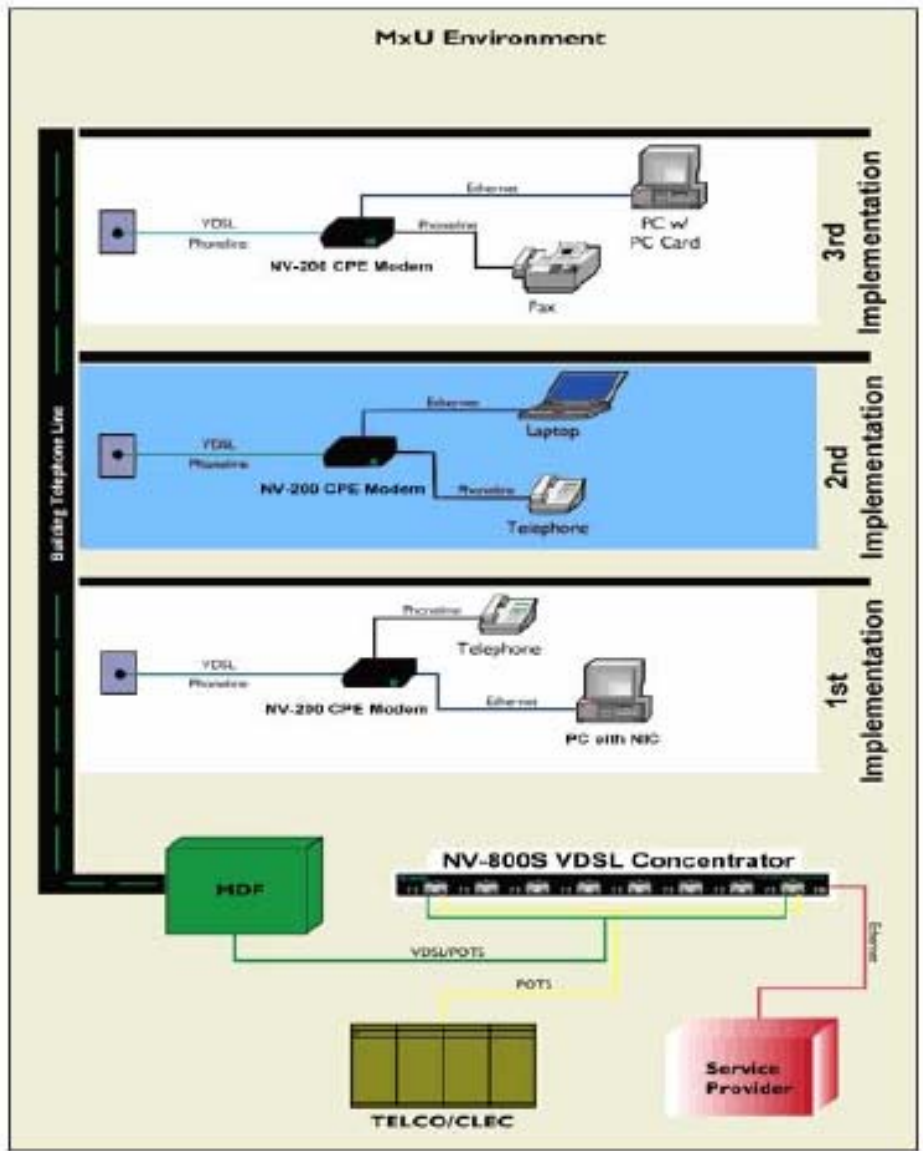


The system manager and Broadcast manager provide system administration and configuration capability.



END

VDSL MxU  
Structure



VDSL extended LAN  
structure

