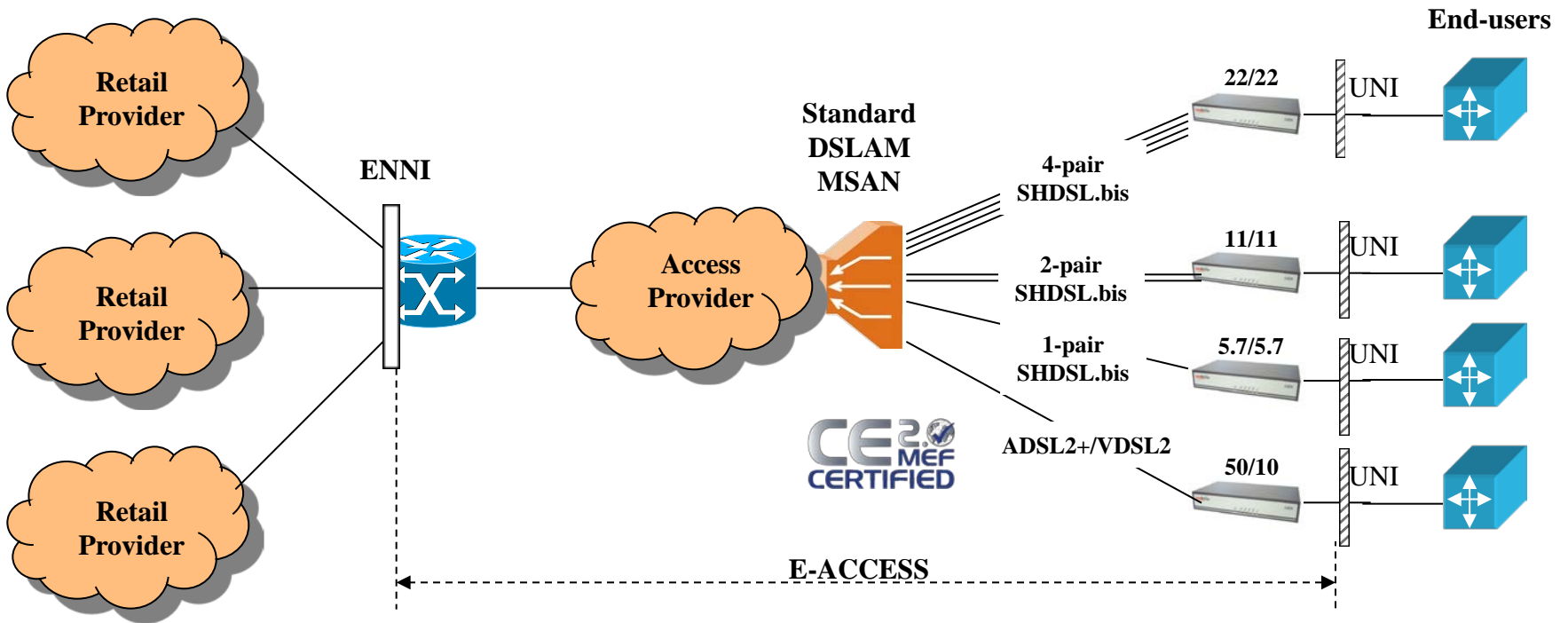




E-ACCESS delivered over Copper for enterprise networks

- What?
 - MEF certified wholesale access over copper
- Who?
 - Most ILECs, CLECs with large footprint
- Benefits
 - End-user: end-to-end delivery of MEF services for enterprise services
 - Access provider: new revenue stream
 - Retail provider: expansion of service delivery footprint

E-ACCESS delivered over Copper for enterprise networks



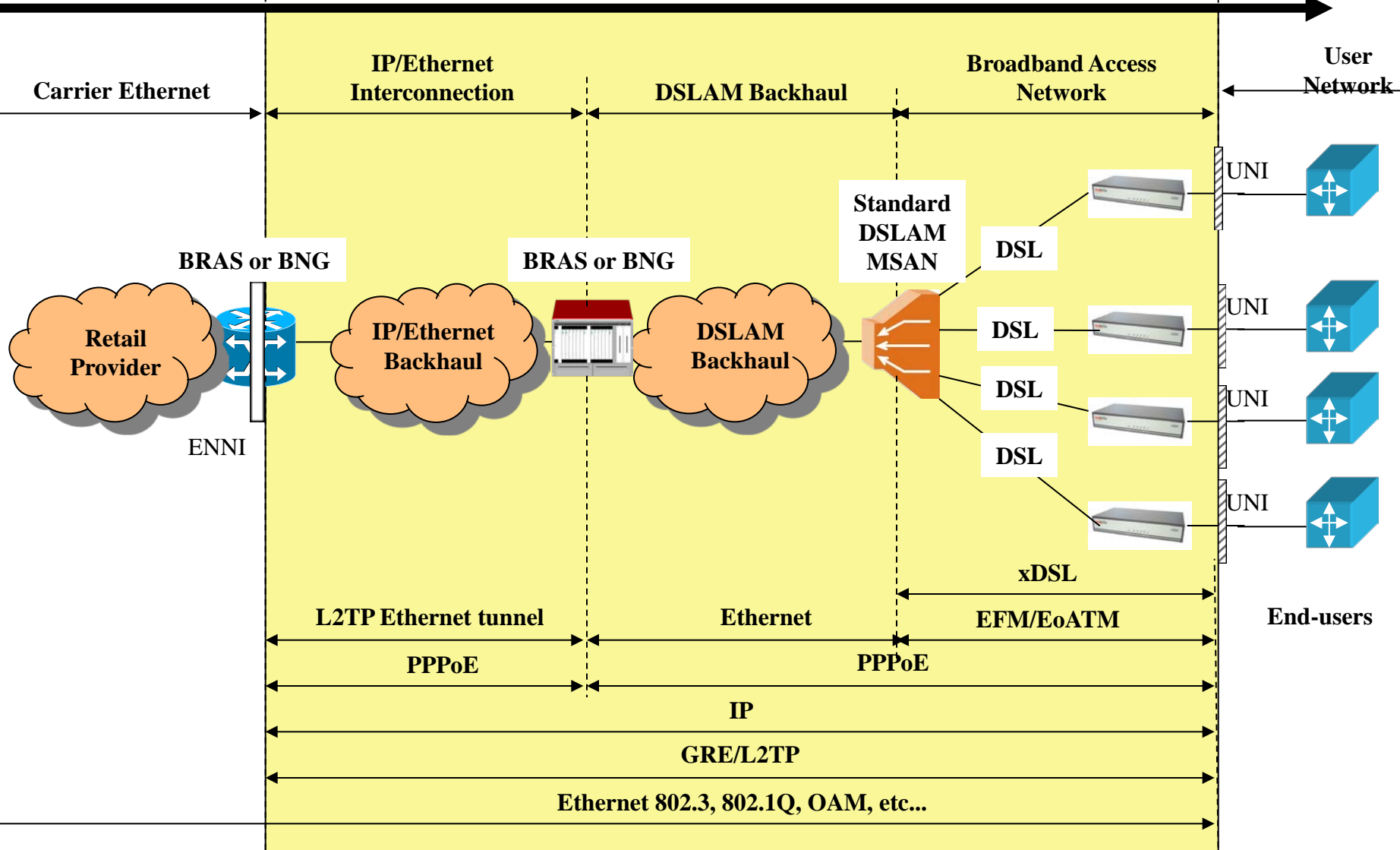


E-ACCESS delivered over broadband network using MEF building blocks

- Point of view of Retail provider
 - Ideal world: MEF CE2.0 certified access providers all over the world
 - Reality:
 - Not every ILEC provides MEF CE2.0 certified services
 - Sometimes there are regulatory restrictions
 - Sometimes there is even no wholesale L2 service available at all
 - Solution:
 - Create overlay network over access infrastructure to:
 - » Use existing L3 access infrastructure for L2 services
 - » Use existing authentication mechanisms using PPPoE
 - » Eliminate restrictions like transparency or MTU limitations

E-ACCESS delivered over broadband network using MEF building blocks

End-to-end Ethernet services over broadband infrastructure of "Access" provider

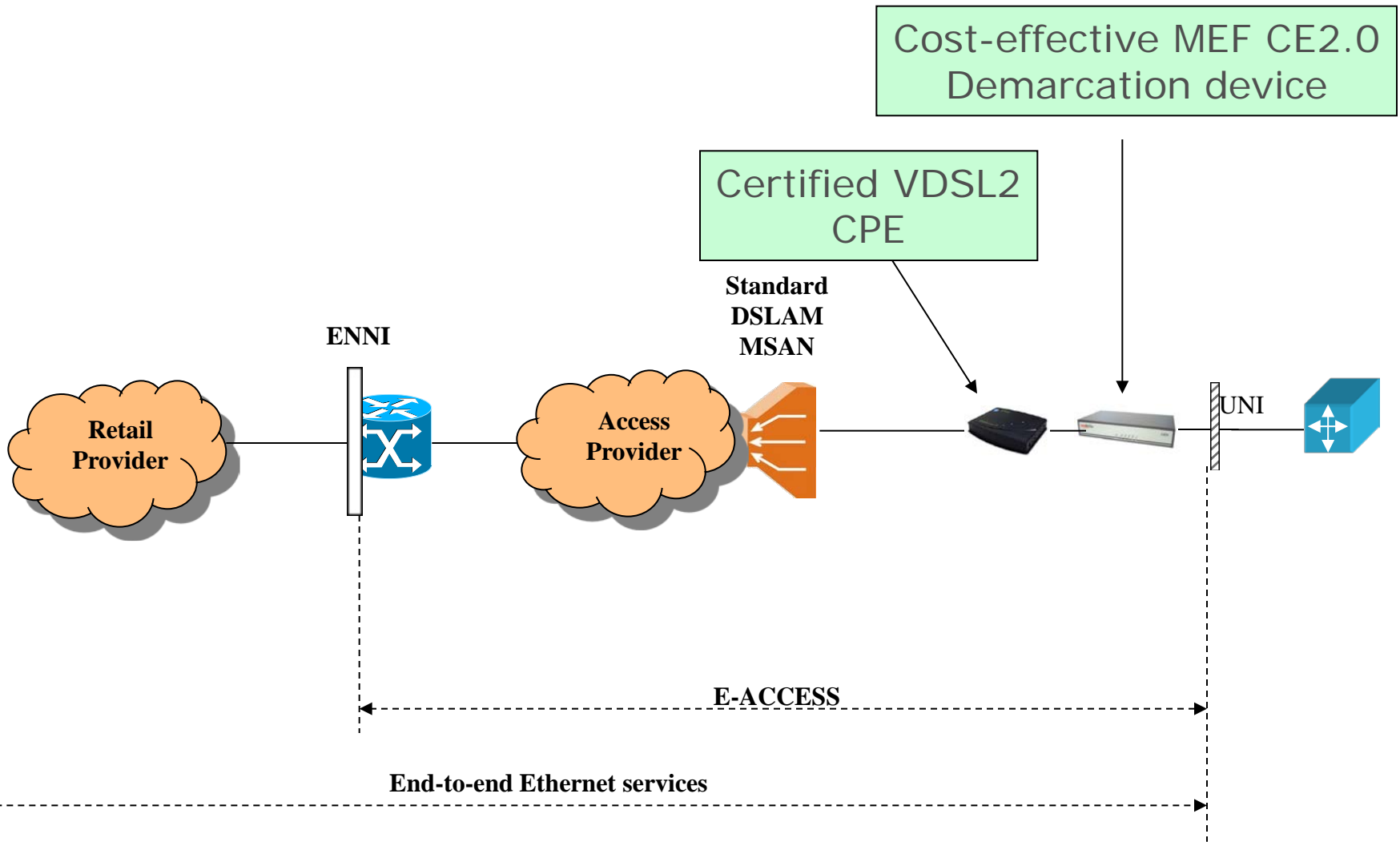




E-ACCESS delivered over standard copper CPEs (e.g. VDSL2)

- Point of view of Access provider
 - Large existing broadband infrastructure
 - Wants to offer E-ACCESS services over this infrastructure
- Problem
 - Limited number of certified CPEs for xDSL (e.g. VDSL2)
 - How to offer MEF certified L2 services?
- Solution
 - Use cost-effective MEF CE2.0 demarcation devices to offer E-ACCESS services over existing broadband network

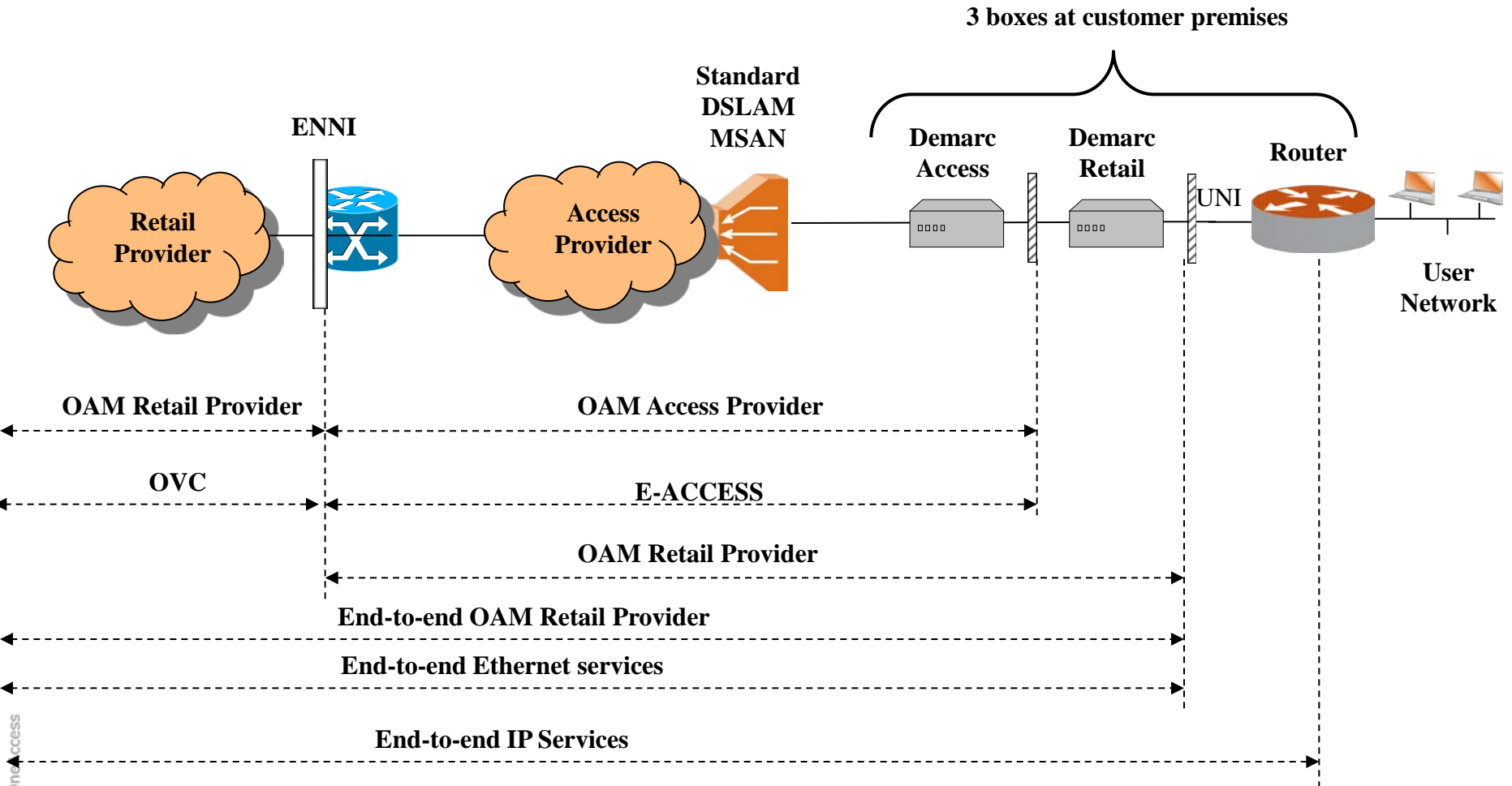
E-ACCESS delivered over standard copper CPEs (e.g. VDSL2)



Delivery of enterprise IP services over wholesale L2 network

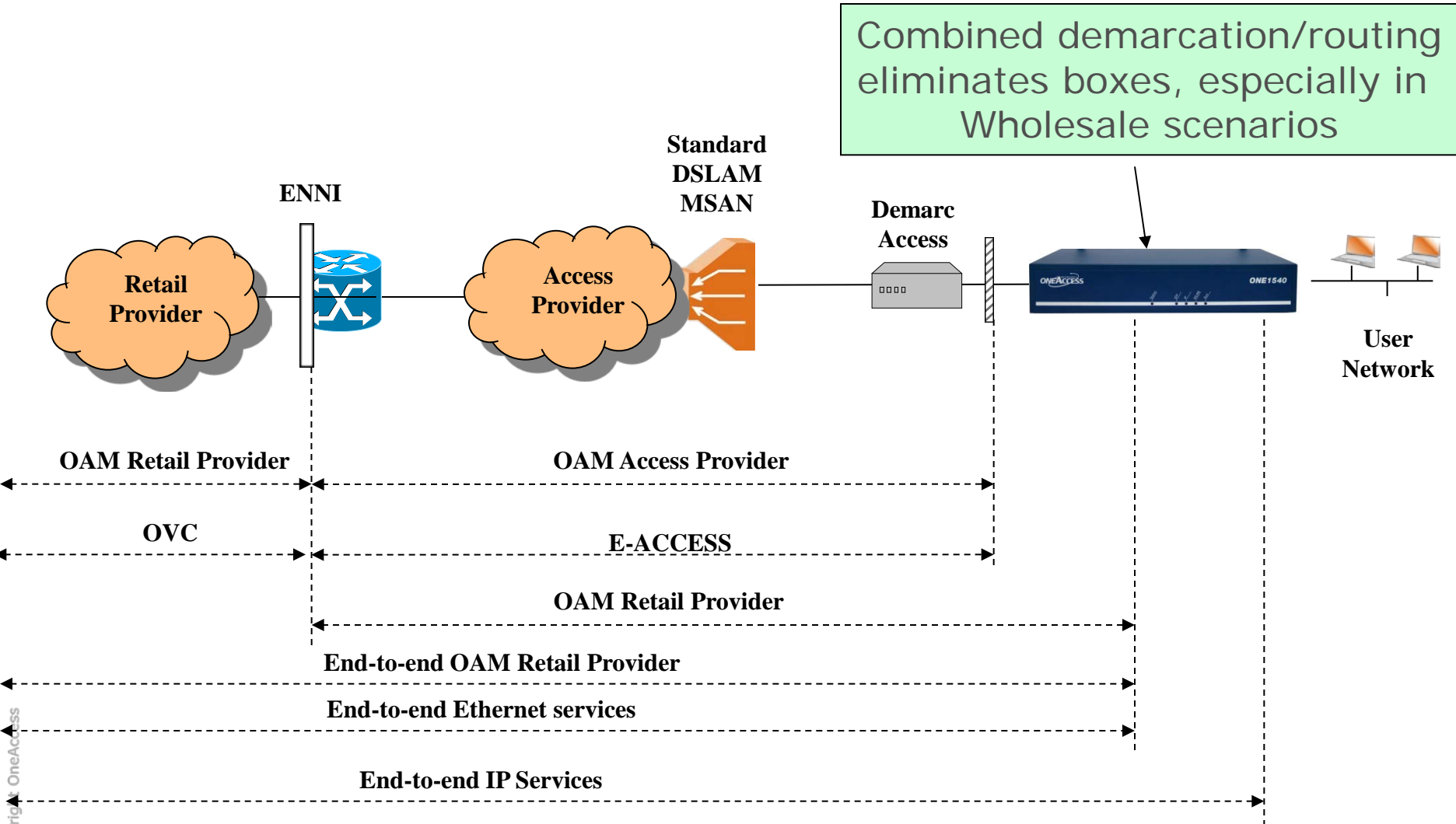
- Point of view of Retail provider
 - Has to use wholesale services of other operators to reach out to all remote sites of corporate customer
- Problem
 - How to avoid stacking boxes at the customer site (demarcation device of access provider, demarcation device of retail provider, router of retail provider)
- Solution
 - Use routers with built-in demarcation functionality to terminate the service and monitor the availability and quality of the E-Access part of the connection

Delivery of enterprise IP services over wholesale L2 network



Delivery of enterprise IP services over wholesale L2 network

Combined demarcation/routing eliminates boxes, especially in Wholesale scenarios





THANK YOU
THANK YOU

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