

OCP U.S. SUMMIT 2016

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OPEN GPON OLT

An Open Disaggregated Broadband Access Device



Architecture & Planning
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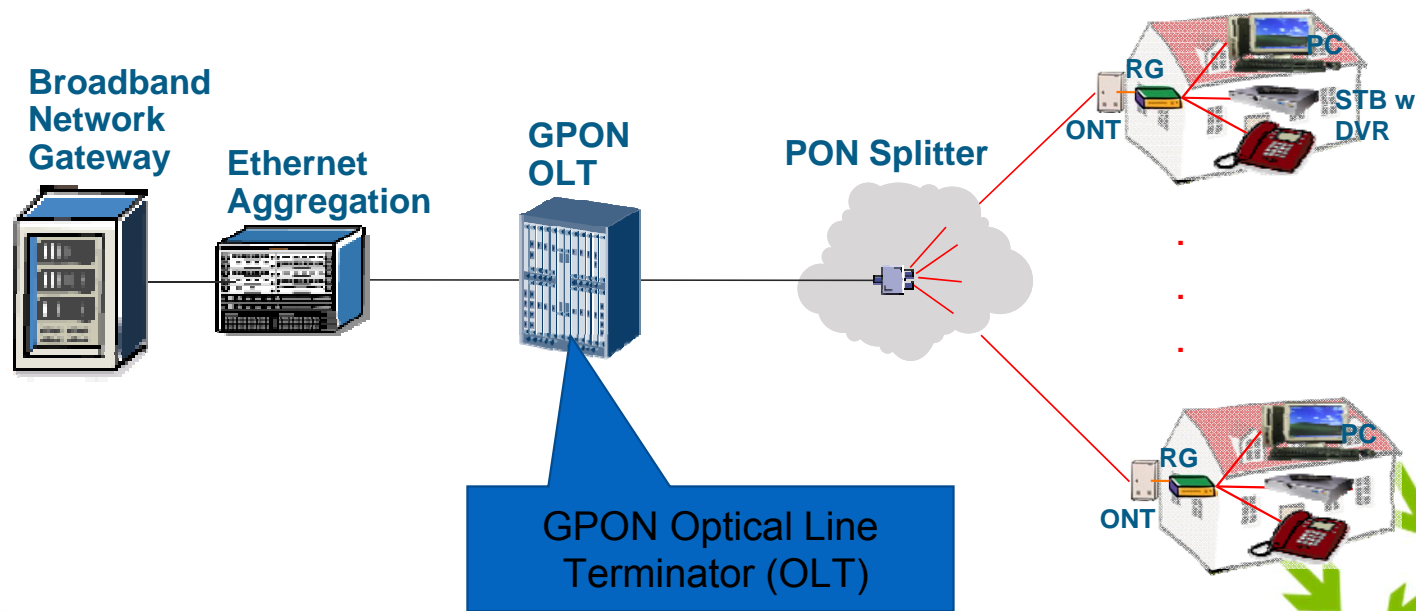
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Agenda

- Quick review of basic Principles
- Updates from the last review of the spec
- Example

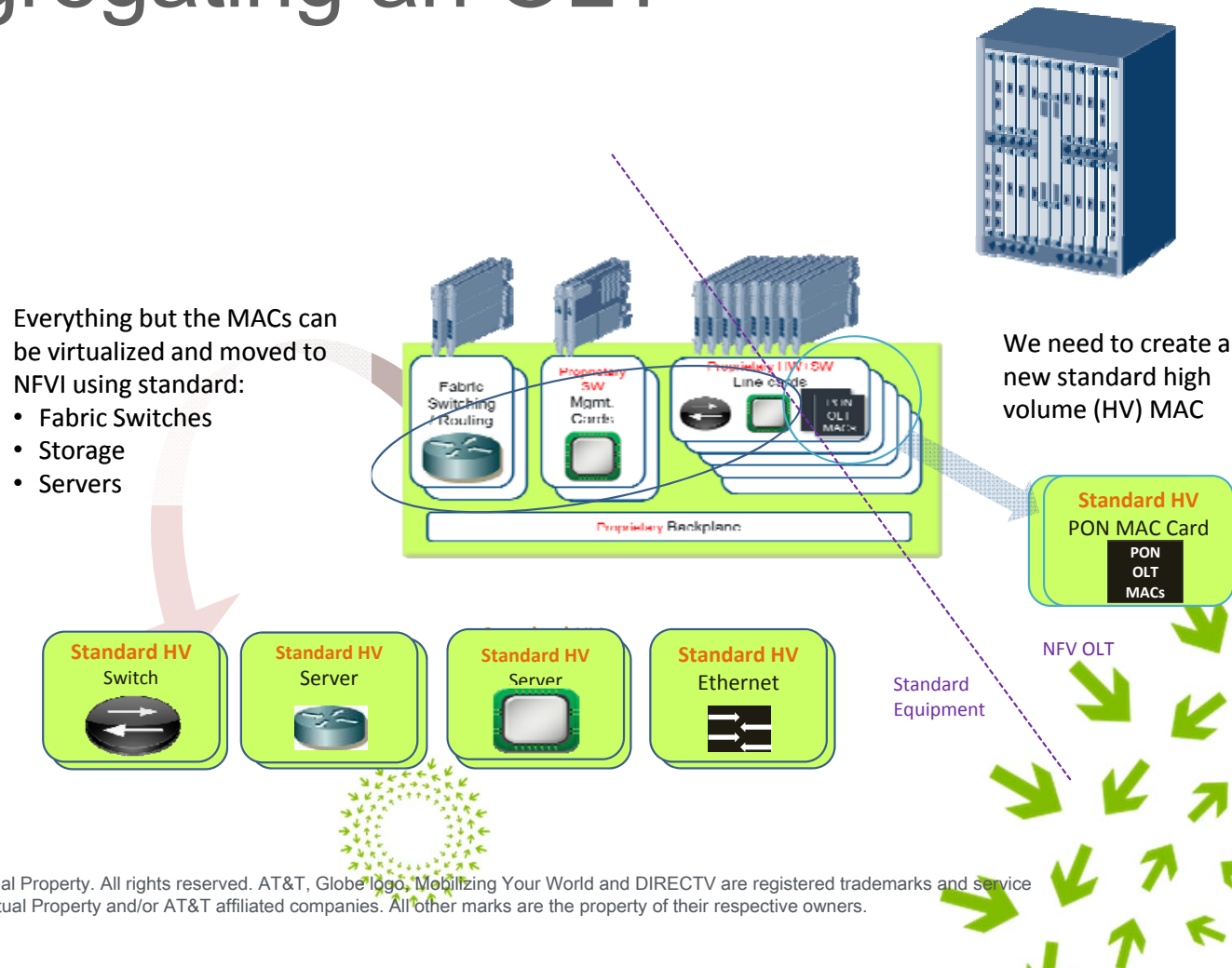
Legacy GPON Access Architecture

(Gigabit Passive Optical Network)

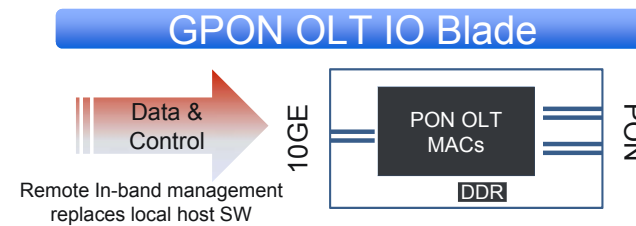
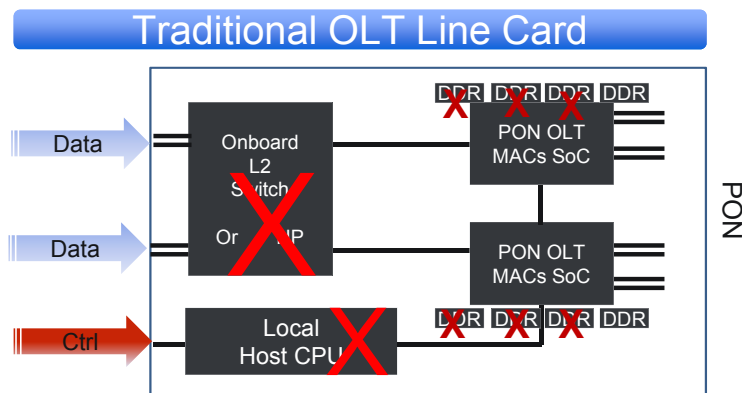


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Disaggregating an OLT



Minimize Stranded Hardware Complexity



GPON I/O Blade doesn't require dedicated management port, external host CPU or associated memory.

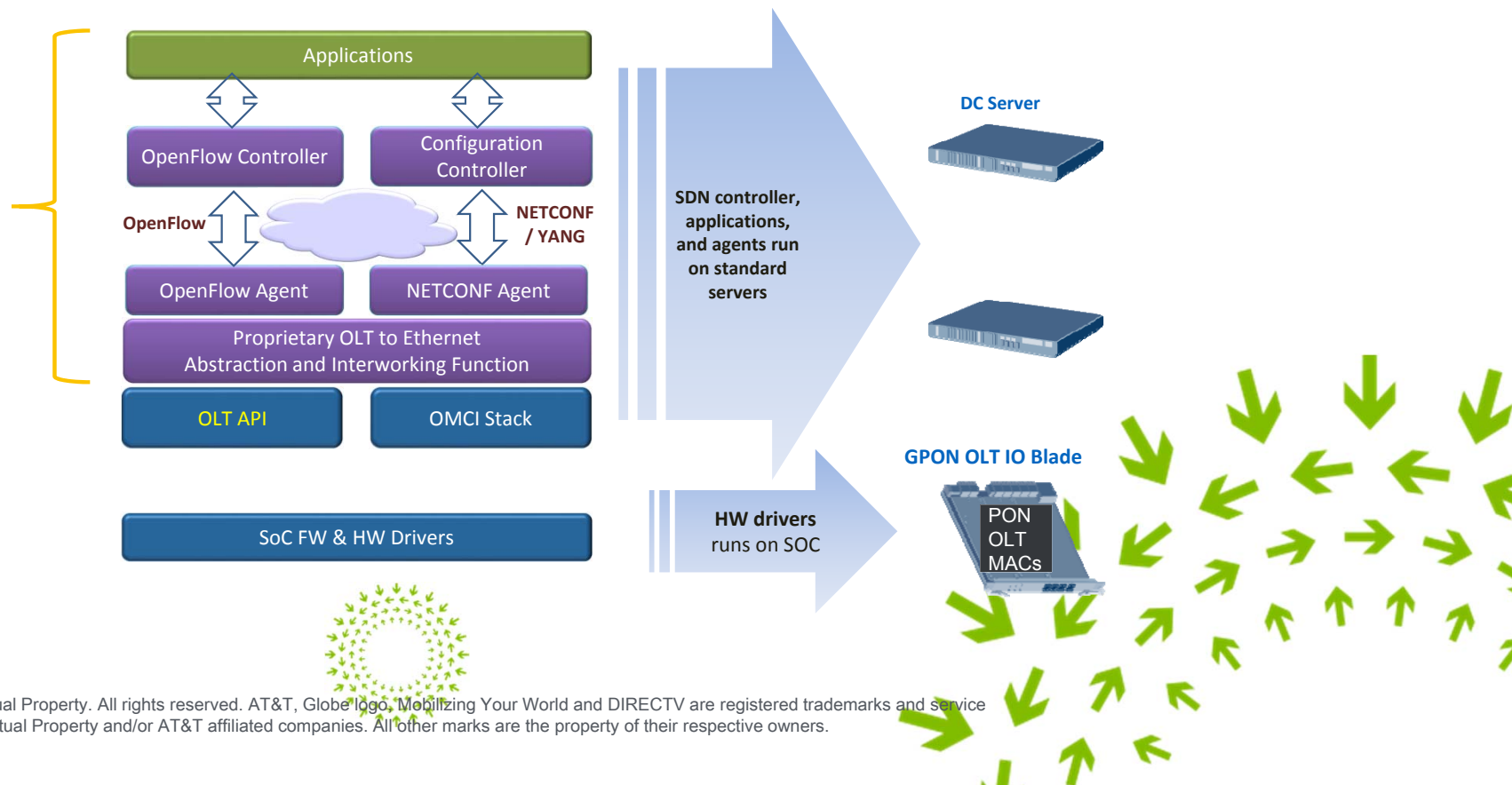
The result is higher PHY density with low power, lower cost and significantly lower TCO

Open GPON Software Stack

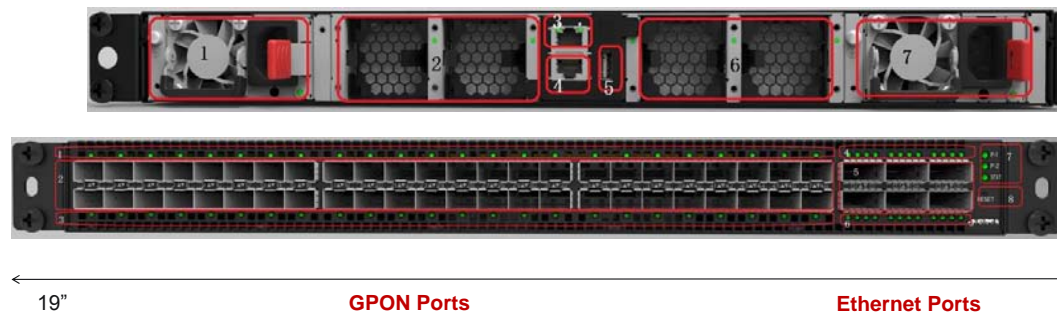
CORD

Central Office Re-architected as a Datacenter

Open Software Announcement Next Week at Open Network Summit



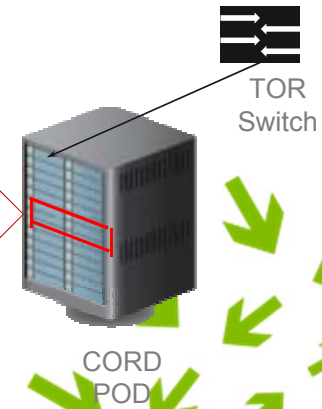
Open GPON OLT IO Blade



Refactored for NFV:
Big, power hungry,
proprietary OLT chassis
now embodied in 1-2 pizza
boxes

- 48 GPON OLT Ports
Carrying 120G DS / 60G US
- Single Blade
- In-band management

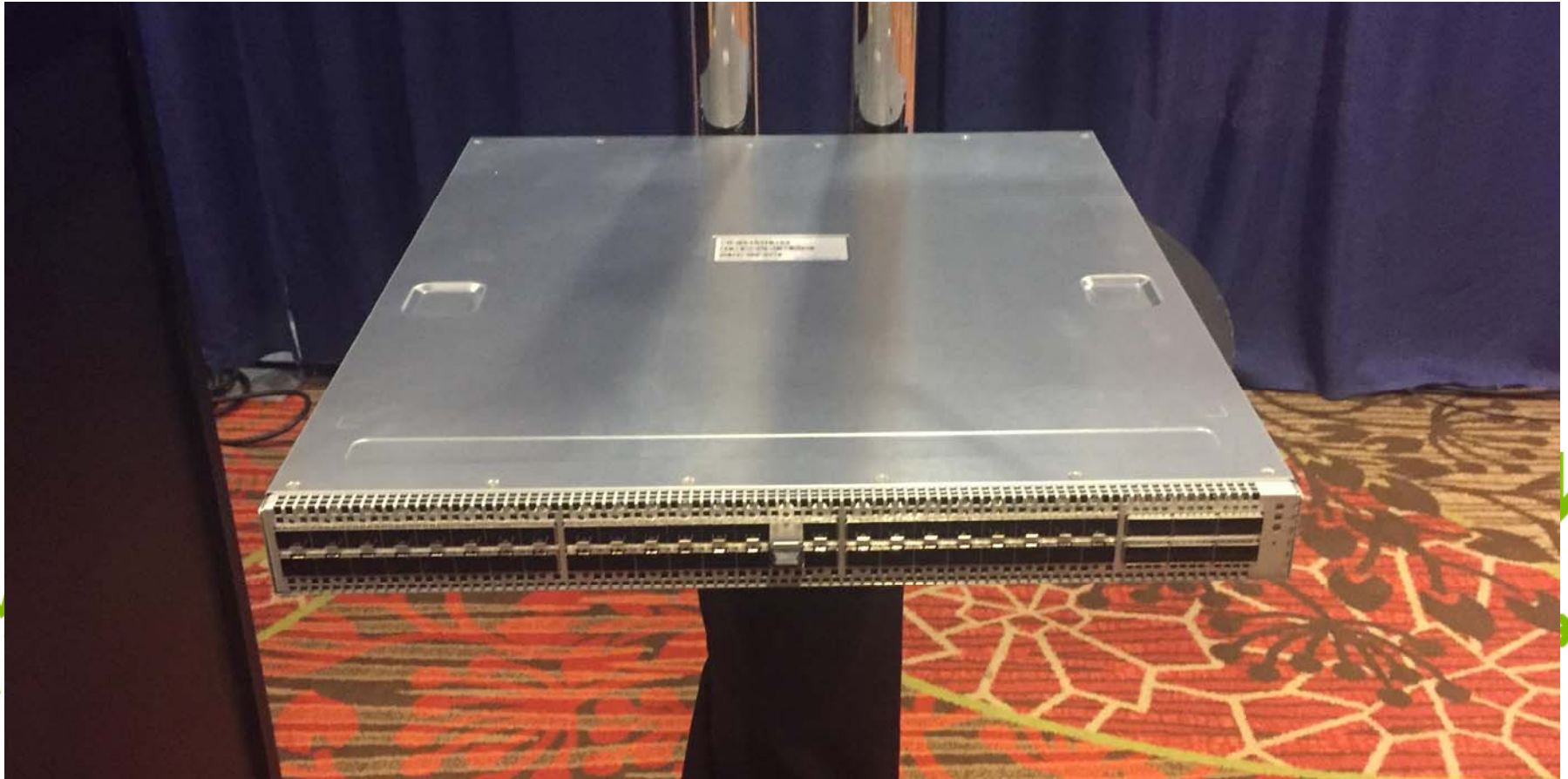
I/O blade fits into the CORD
POD, just like a server.
Connects to 1 or 2 ToRs



Updates to Spec from Last Review

- Genericized dimensions for 1RU 19" device.
- Provided generalized environmental requirements rather than the specifics for a particular design.
- Small changes to license language

Example



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Thank You!