UNLEASH THE POWER OF LIMITLESS CONNECTIVITY
Energy Management and Sustainability on the Road to 10G

How To Not Pop the Balloons: Migrating The Analog Headend for the Digital Broadband Future Facility

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Migrating The Analog Headend for The Digital Broadband Future Facility

Analog Cable TV building

Image of CATV headend-image by author – circa 03/2016

Image of CATV headend-image by author – circa 01/2021

Broadband Digital Nexus
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Broadband Digital Nexus
Figure 3: AC vs DC energy consumption relative to RUs consumed

Figure 4: Rack unit allocation within 1 headend
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Analog Cable TV Build up

- Building
- Lighting
- Fiber
- Power
- Transport
- Routing
- Gen1 Analog
- CMTS Analog
- Servers
- Business
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Convert to Broadband Digital

- Eliminate Legacy Racks
- Eliminate Human Space
- Add Conversion Cabinets
- Add vCMTS Equipment
- Eliminate CMTS Analog
- Grow vCMTS and Servers
- Grow DC Power/HVAC
- Remove Old DC Plant
- Grow vCMTS and Routing
- Modernize Business
- Grow Servers/Transport
- Tech Refresh Servers
- Add Server Capacity
- Tech Refresh
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**Analog - Wall Pack Cooling**

**Digital - In Rack Cooling**
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• By following a pre-determined playbook of tech refresh, capacity augments and right sizing infrastructure, you also will achieve a building able to sustainably grow with the network that demands its support. The Age of Digital expansion will connect the future world within the bricks laid in the past.
Thank You!

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