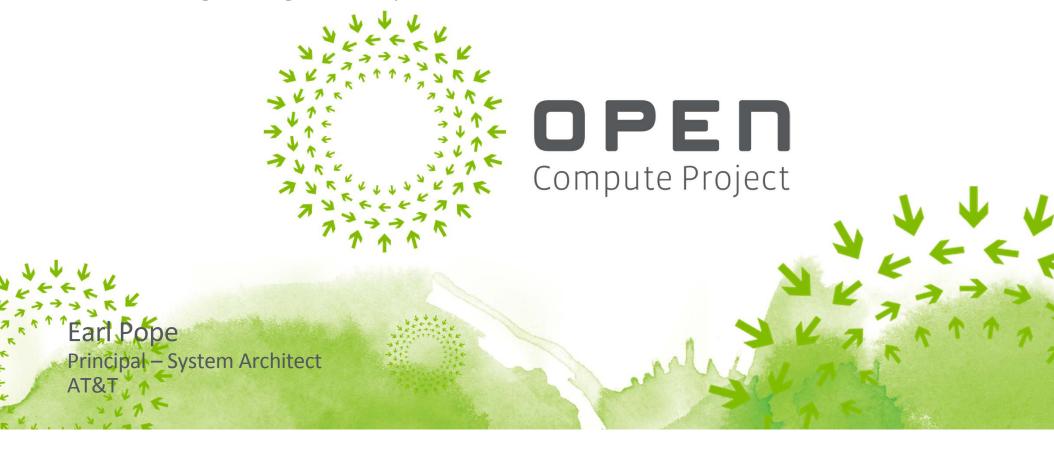
Open Fiber Distribution Hub (FDH)

OCP Telco Engineering Workshop 05.14.2018

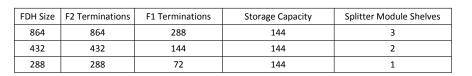


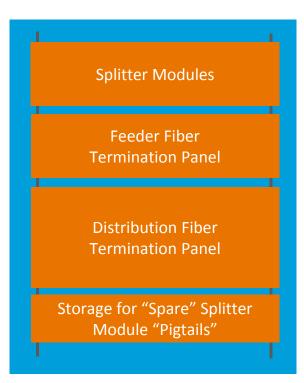
Timeline

- The Open Fiber Distribution Hub concept was introduced to the community at the OCP Telco Engineering Workshop in Dallas on 9/25/2017.
- The first draft of the Specification was shared with the community on 12/7/2017.
- The Specification was revised with input from the community and the final draft was shared with the community on 4/6/2018
- The Specification Checklist was presented to the Incubation Committee on 4/19/2018

Major Features

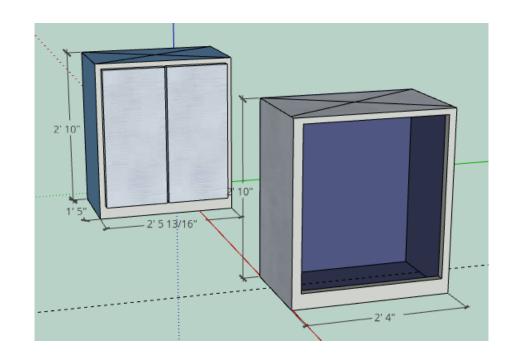
- The Fiber Distribution Hub (FDH) is an Outside Plant cabinet deployed for Passive Optical Networks (PON).
 - Interface Point between the Feeder Fibers from the Telco Central Office (CO) and the Distribution Fibers placed in the neighborhood.
 - Houses the Optical Splitters
 - Provides Fiber Management
 - FDH Sizes
 - 864
 - 432
 - 288
- Mounts
- Pad
- Pole
- Rack





Building Blocks – Cabinet

- Grounding
- Withstand 150 mph
- o GR-3125
- o GR-2898
- o GR-487
- o GR-63
- o GR-326
- o GR-1209
- o GR-1221



Building Blocks – Fiber Termination Panels

- SC/APC (Angle Polish Connector)
- o GR-3125
- o GR-2898
- o GR-487
- o GR-63
- o GR-449
- o GR-3123
- o GR-326
- o GR-1209
- o GR-1221



https://www.seeclearfield.com/products/category/panels.html

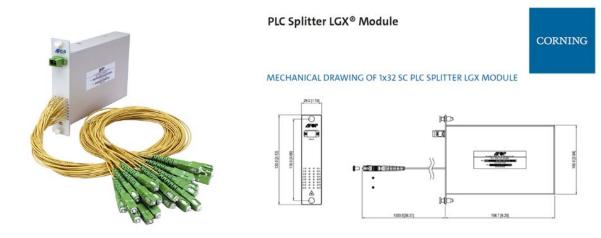
Building Blocks – Splitter Module

- LGX 118 mm Form Factor
- Wavelength bandpass
- Insertion loss
- Uniformity
- Directivity
- Return Loss
- Polarization Dependent Loss

Splitter Module Frame



LGX Form Factor Splitter Modules



https://www.corning.com/content/dam/corning/microsites/coc/oem/documents/CAH-105_AEN.pdf

Building Blocks – Splitter Module

o "Box" Type Splitter Modules can be used with an adaptor



Next Steps

- Clearfield providing AT&T Open FDH for evaluation
 - New cabinet design to add 19" rails
 - Existing Clearfield Products
 - Fiber panels
 - "Box" Splitters with adaptors
 - Interoperability / Interchangeability Proof of Concept
 - Add LGX Form Factor Splitter Modules provided by other suppliers

