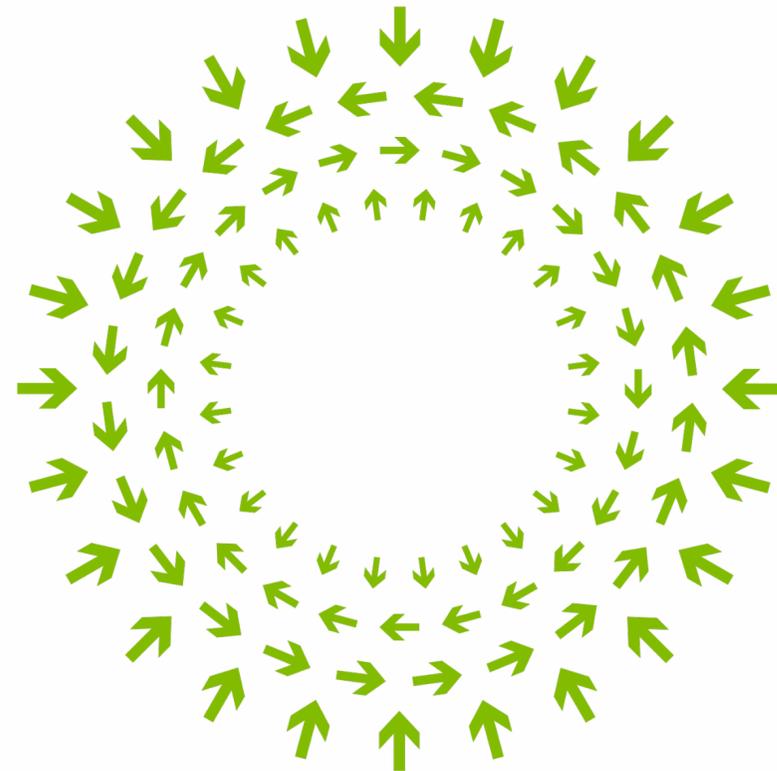


Open Fiber Distribution Hub (FDH)

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Earl Pope
Principal – System Architect
AT&T

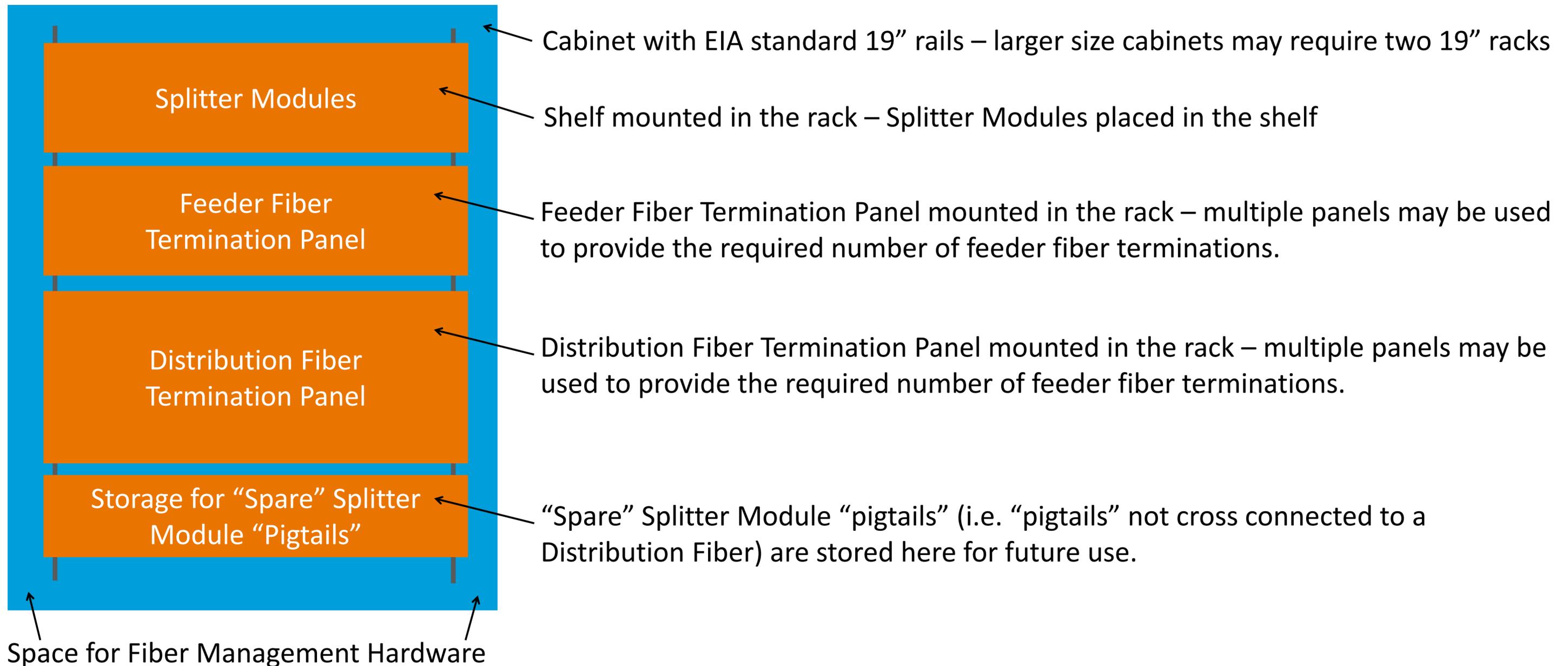
Objectives

- The need for Deep Fiber Deployments is intensifying
 - Fiber To The Home
 - Fiber To The Business
 - Fiber to small cells
- The Fiber Distribution Hub (FDH) is a key part of the Optical Distribution Network (ODN) for Passive Optical Networks (PON) with centralized (or single stage) splitter designs
- Current FDH designs are proprietary
- Benefits of an Open FDH
 - Interoperability – proprietary designs require sourcing all FDH components from a single supplier
 - Modularity – design relies on bundling interoperable components rather than a monolith design
 - Flexibility – design modifications are accomplished by changing the component bundle

Major Features

- The Fiber Distribution Hub (FDH) is an Outside Plant cabinet deployed for Passive Optical Networks (PON).
- Houses the Optical Splitters
 - Optical Splitters are packaged in Splitter Modules
 - Splitter Modules are placed in shelves or drawers in FDH
 - Splitter Modules include fiber “pigtailed”
- Interface Point between the Feeder Fibers from the Telco Central Office (CO) and the Distribution Fibers placed in the neighborhood.
 - Termination Panels with pre-terminated fiber cable tails for Feeder and Distribution Fibers
- Provides Fiber Management
 - Storage Area for Splitter Module “pigtailed” not cross-connected to Distribution Fibers
 - Space and Hardware to allow fiber jumper and Splitter Module “pigtail” routing within the FDH
 - Direct connection of Feeder Fiber to Distribution Fiber

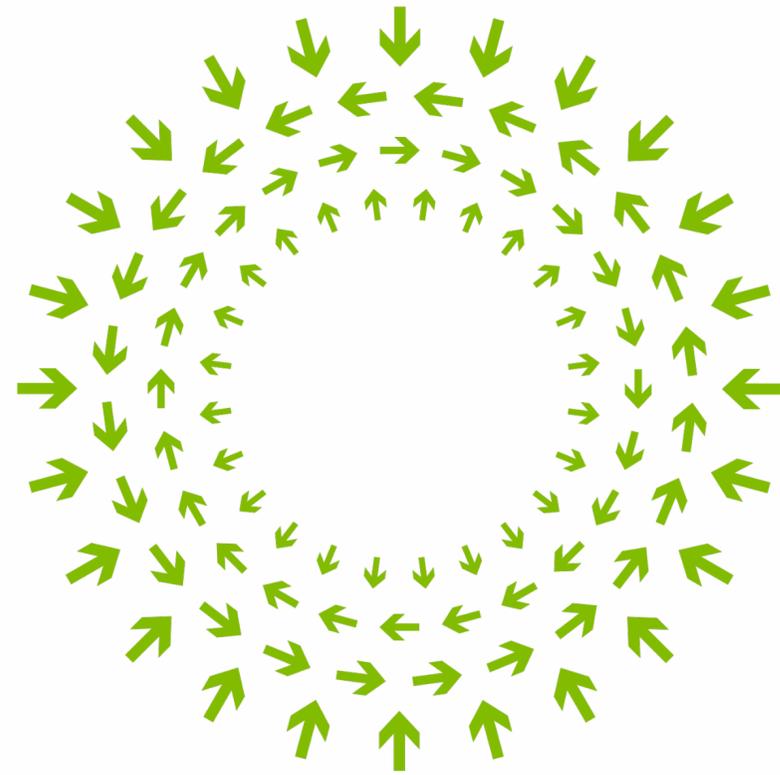
High-Level Architecture



- Pad Mount, Pole Mount, Wall Mount Option are required.
- Various FDH sizes are required.

Next Steps

- Input from the OCP Telco Project
- Draft Specification for Open FDH Design



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