# OPTICAL DISTRIBUTION FRAMES - BENEFIT SHEET

>>> The Problem

From central offices and head ends to mobile switching centers and data centers, increasing demand for bandwidth is driving higher fiber counts, especially in the access layer. Network managers are under pressure to increase optical density while keeping their fiber cabling manageable and adaptable to change at the lowest possible cost. For decades, network managers relied on standard rack panels to manage their fiber terminations and connectivity, but these systems were not designed to support today's fiber rich optical networks. As a result, data centers must overhaul their fiber racks every few years, and central office facilities continue to layer on new fiber so as not to disturb the existing live network. In either case, managing the fiber infrastructure is becoming increasingly difficult.
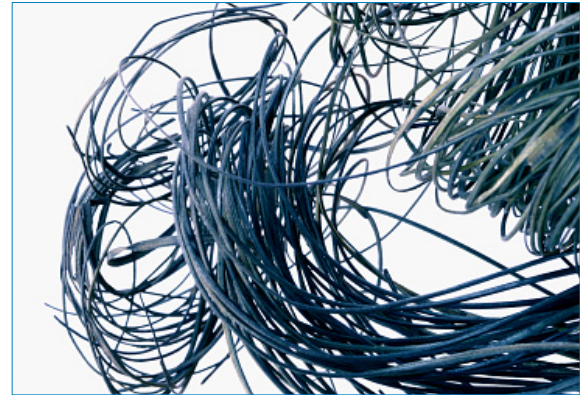
- **CABLING CHAOS:** As the port count has increased, from a few hundred to several thousand, the cabling network has grown into a sprawling mass. This dramatic increase in the amount of fiber in the network has made moves, adds and changes far more difficult.

- **INABILITY TO ADAPT:** Throughput speeds are increasing, standards are evolving and more services and networks are being interconnected or converged. To keep pace, managers rip and replace or build on top, all while trying to meet their SLAs and keep their networks up to date.

- **TOTAL COST OF OWNERSHIP:** Considering the cost to manage and frequently upgrade the fiber network, the cost of mistakes and downtime, and the cost to deploy additional patching systems every few years, standard rack panels are a significant long-term threat to overall profitability.

>>> The Solution - CommScope Optical Distribution Frames

CommScope optical distribution frames provide a **long-term solution** for managing your growing fiber density.
Unlike standard rack panels, they are **modular and agile,** specifically designed for today's **fast changing, fiber-dense environments.**

Recommended for facilities with more than 2,000 ports, CommScope ODFs are ideal for:

- SERVICE PROVIDER CENTRAL OFFICES

- MSO HEAD-ENDS

- MOBILE SWITCHING CENTERS

- CLOUD AND MULTI-TENANT DATA CENTERS

COMMSCOPE OPTICAL DISTRIBUTION FRAMES DELIVER

>>> Manageable Fiber Density

Innovative frame design delivers the highest possible fiber density while the logical management system keeps all fibers identifiable and accessible for more rapid installations, turn-ups and maintenance.

- Locate and trace individual fibers along easy-to-follow cable routing paths
- Complete moves, adds and changes quicker and more accurately with ample room to work
- Consolidate and save with a single fixed patch cord length for all in-rack and panel connections
- Manage cross-connects as well as inter-connects
- Perform advanced splicing, management and storage from a single location
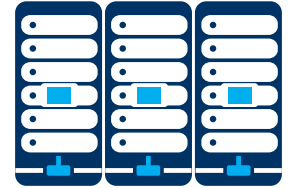
>>> Long-Term Agility

Be prepared for future changes while getting more value from your current fiber network.
Modular design means long-term agility.

- Increase throughput speeds or add services by simply swapping connectivity cassettes or modules
- Support the any-to-any demands of today's leaf and spine architecture
- Enable service providers to add splitters and wave division multiplexing (WDM)
- Deploy LC and SC adapter packs, as well as cabled, MPO and Value Added Modules (VAMs) in the same chassis
- Pay as you grow, not before, without overprovisioning
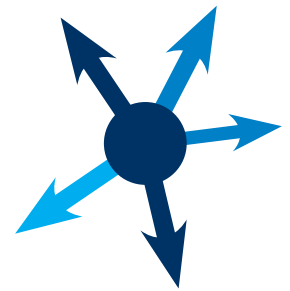
>>> Lower Total Cost of Ownership

The net effect of modular agility and better cable management—lower total cost of ownership.
Defer CapEx by maximizing fiber density and port utilization

- Use standard cable lengths to helps reduce ordering and inventory costs
- Decrease the cost to troubleshoot issues, install or reroute fibers
- Reduce mean-time-to-repair and the costs associated with downtime
- Eliminate the need to rip and replace cabling within the facility every few years
- Increase the lifespan of your fiber frame from 24-36 months to 10-15 years

COMMSCOPE®

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Visit our website or contact your local CommScope representative for more information.