

# SAVE TIME AND MONEY BY OPTIMIZING YOUR RACK SPACE

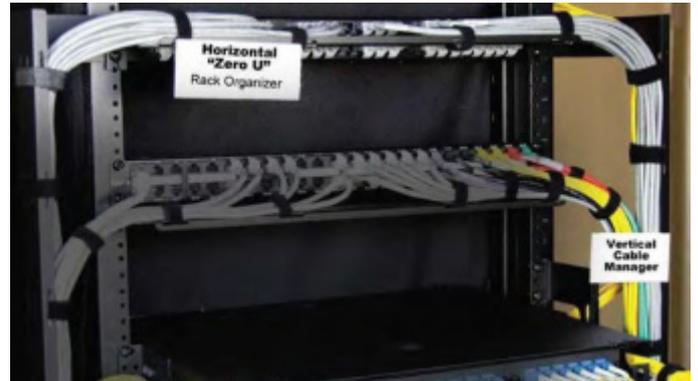
Smart optimization can help you increase rack space and realize significant equipment cost savings - here's how you do it!

## Saving Space Optimizing Rack Configuration

A conventional two-rack configuration consists of one rack used for horizontal cross connects and the other primarily used as a network rack, housing the switch and power source.

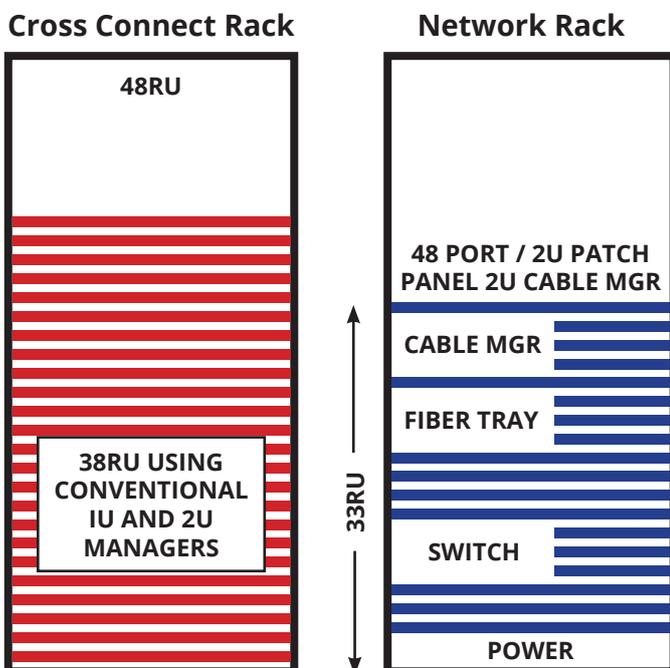
In this configuration, 71RU is used between two racks to provide 480 ports, leaving 19RU of available rack space.

After optimization, only 49RU is occupied.

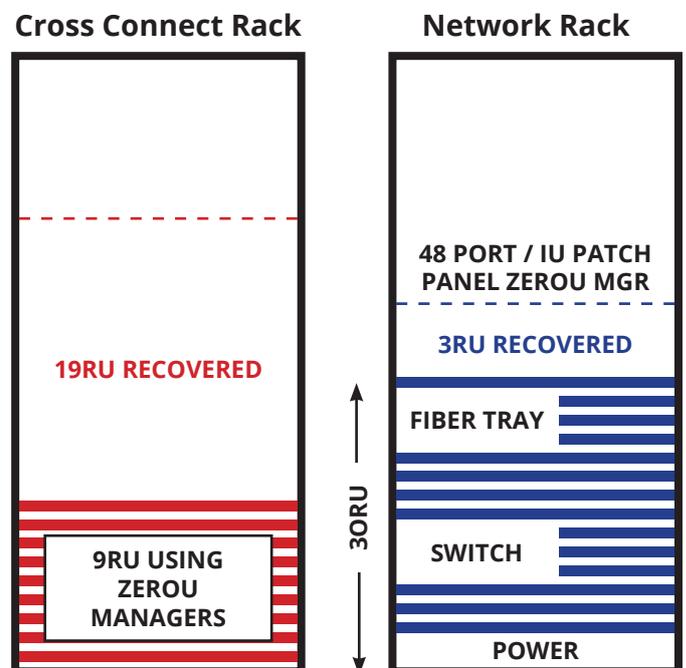


*Horizontal "ZeroU" RackOrganizer® and Vertical Cable Manager*

### Before



### After



### How it's done:

Substitute 1RU and 2RU horizontal cable managers with "ZeroU" RackOrganizers® and substitute 24-AWG patch cords with 28-AWG (skinny patch cords)

# COST SAVINGS THROUGH RACK AND CABLE OPTIMIZATION

Having seen the concept in general terms, let's apply equipment costs to show you how much you can save on your refit or next installation of a typical 2 rack system

## Rack Refits

After removing (10) 2RU horizontal managers and replacing each with a "ZeroU" RackOrganizer® you have freed up 20RU space in this rack or cabinet.

Your cost for the (10) "ZeroU" RackOrganizers® is \$211.00.

You have now freed up enough space on this rack for another 432 ports.

Install your next (9) 2RU patch panels and (10) "ZeroU" RackOrganizers® in this same rack.

By spending \$422.00 you have eliminated the need for a \$1600.00 to \$3000.00 cabinet for your next system. You have also gained the footprint of a rack in your datacenter because you now are occupying only 3 racks instead of 4.

Repeat this process a few more times and you can see the savings stack up!

Take it one step further and replace bulky space hogging vertical cable managers with 4" wide vertical managers and now you are able to place more racks in a row. You will have created an organized and efficient cable management system which contributes to a positive ISO audit.

## New installations

More space recovered using HD patch panels (1U) and 28-AWG (skinny) patch cords.

Using 28-AWG patch cabling, which are 36% skinnier, increases rack utilization and opens more available space in the same rack layout. 28-AWG cabling allows you to use high-density patch panels - 48 ports in 1RU rather than occupying 2RU - thereby cutting in half the RU space needed for patch panels.

So 18RU, rather than 36RU, are occupied for 864 ports. This same rack using 28AWG patch cords and A'n D Cable "ZeroU" RackOrganizers® with 1RU 48 port patch panels will hold another 864 ports.



*Vertical Cable Manager*

# OUTCOME

Every 4 systems now require only 5 cabinets or racks instead of 8

Note: Patch cord considerations when using 28-AWG cords.

TIA-568-C specifies a maximum 100-meter length channel for copper cabling, which comprises 90 meters of permanent link cabling (typically solid cable) and a total of 10 meters of patch cabling. If you use 28-AWG patch cabling, you must adhere to a de-rating factor that reduces the maximum channel length achievable.

- If your goal is to maintain the 90-meter permanent link, a total of 6 meters of 28-AWG patch cord can be used, for a 96-meter channel length
- If your goal is to maintain 10 meters of total patch length, then the maximum permanent-link length must be adjusted to 83 meters, for a maximum channel length of 93 meters

## RackOrganizer® features:

- A'n D Cable's "ZeroU" RackOrganizer® mounts in the same U space as the active device so it does not use ANY extra rack space
- Our RackOrganizer® is designed to be mounted up or down, depending on the port access desired by the technician
- Our RackOrganizer® comes in 5 depths - 2.8", 3.8", infinitely adjustable from 5" to 9", 10" and 12"



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## A`n D Cable Products - Your Unfair Advantage

A veteran and minority-owned company with over 25 years experience in the industry, A`n D Cable Products offers the "Zero U" Horizontal RackOrganizer® to revolutionize your rack space. Eliminate the hanging cable curtain that complicates troubleshooting and prevents heat dissipation. Our products are ideal for both broadband head end builds and retrofits.

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