



WAVE 2 WAVE

Connect for Life™

Data Center Zoning

Enterprise | Education | Government | Telecommunications | Service Providers

1-877-223-2296

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Legend

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Topology

3

Architecture: Pod, Zone & Cluster

4

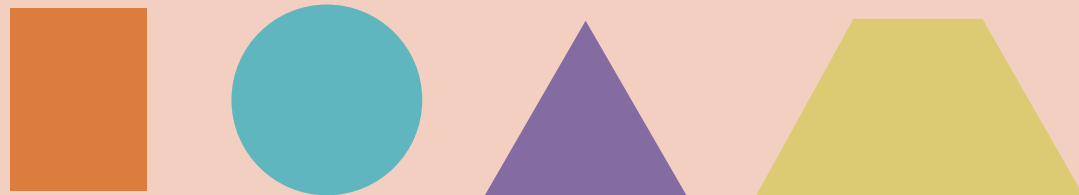
Ultra High Density Interconnect

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Ultra Slim Patching

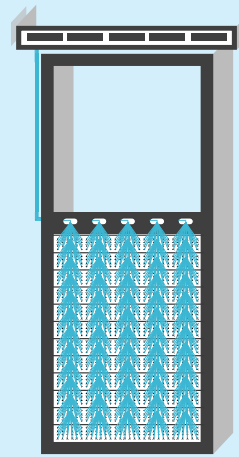
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How to Migrate



Contents

■ Rack



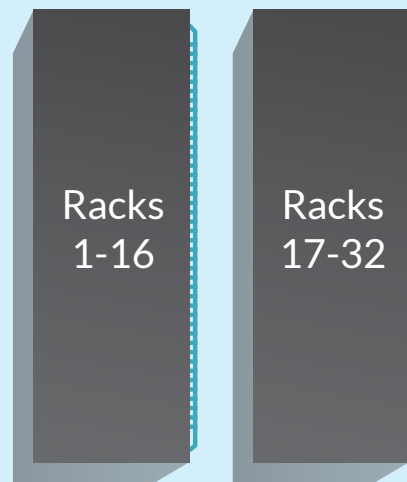
45-50 U

▲ Cluster



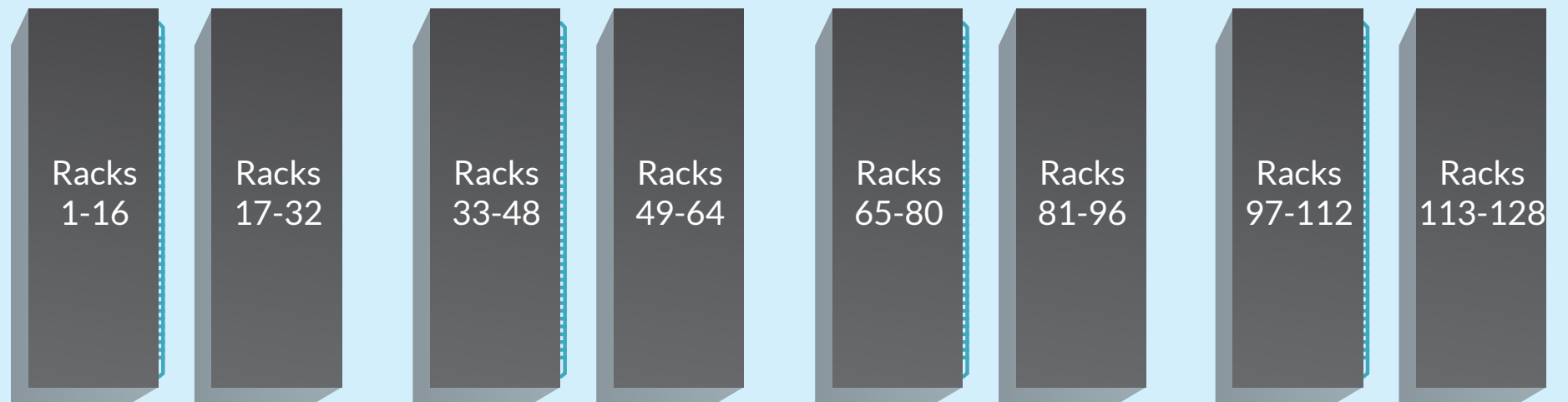
3-4 Zones

● Pod



20-32 Racks

▲ Zone

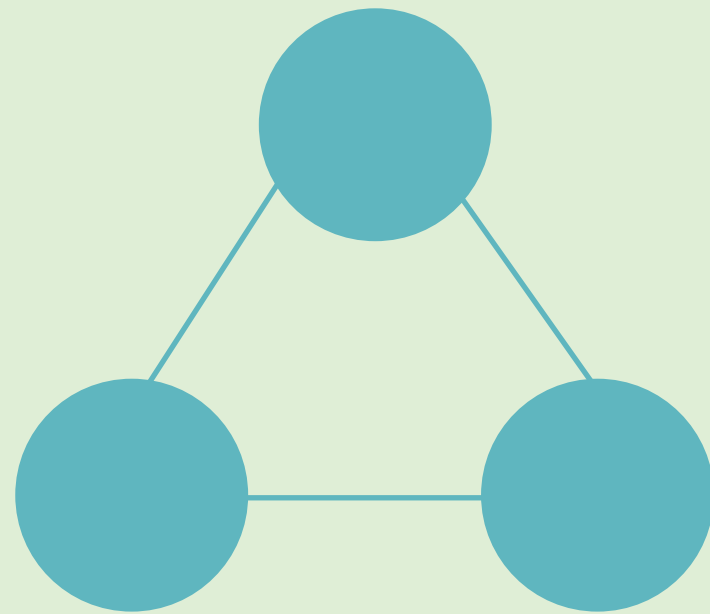


3-4 Pods

¹ Legend

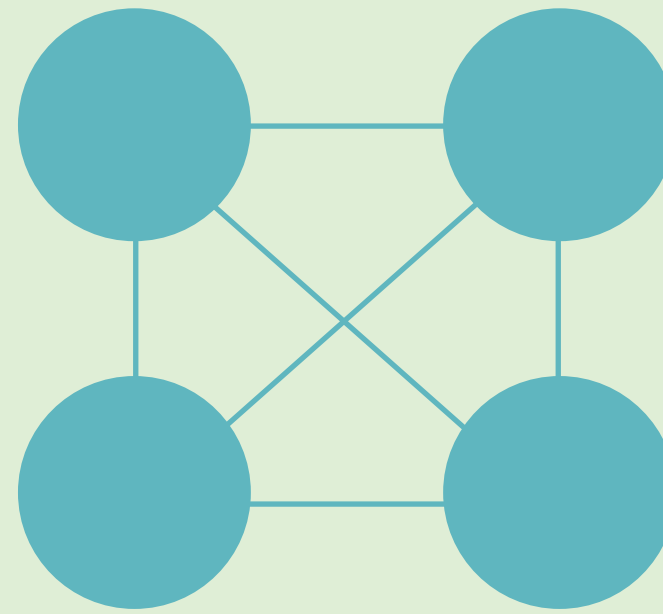
- Rack
- ▲ Cluster
- Pod
- ▲ Zone

Elegant



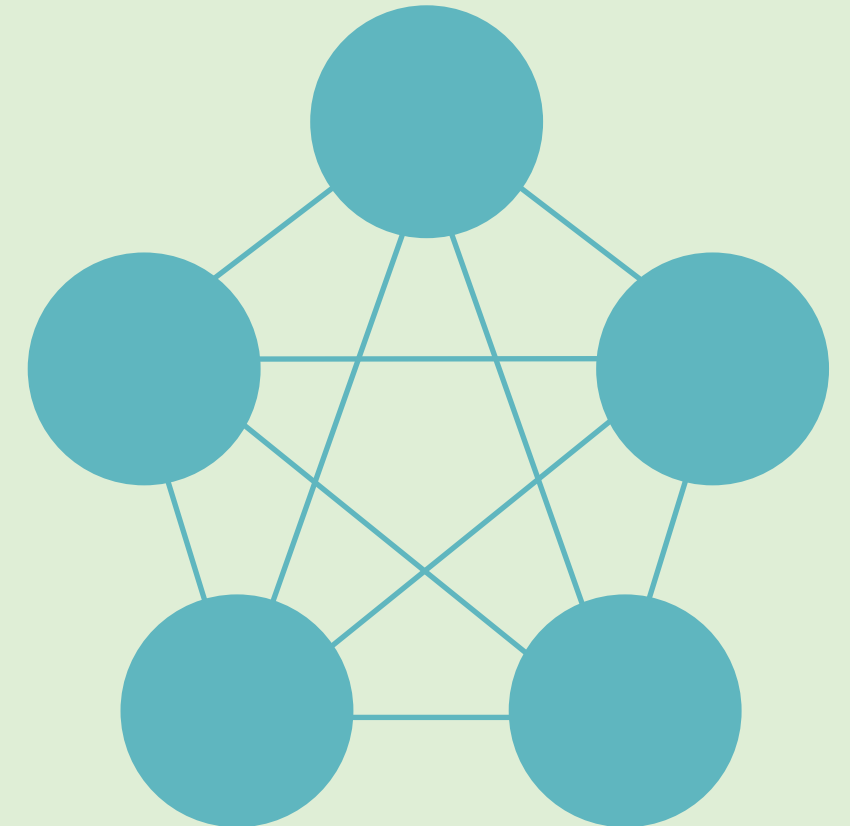
A clean structure that provides direct backbone connection from any Pod/Zone/Cluster to any Pod/Zone/Cluster with one level redundancy.

Good



A clean structure for large scale data center that requires direct link from any Pod/Zone/Cluster to any Pod/Zone/Cluster with multiple level redundancy.

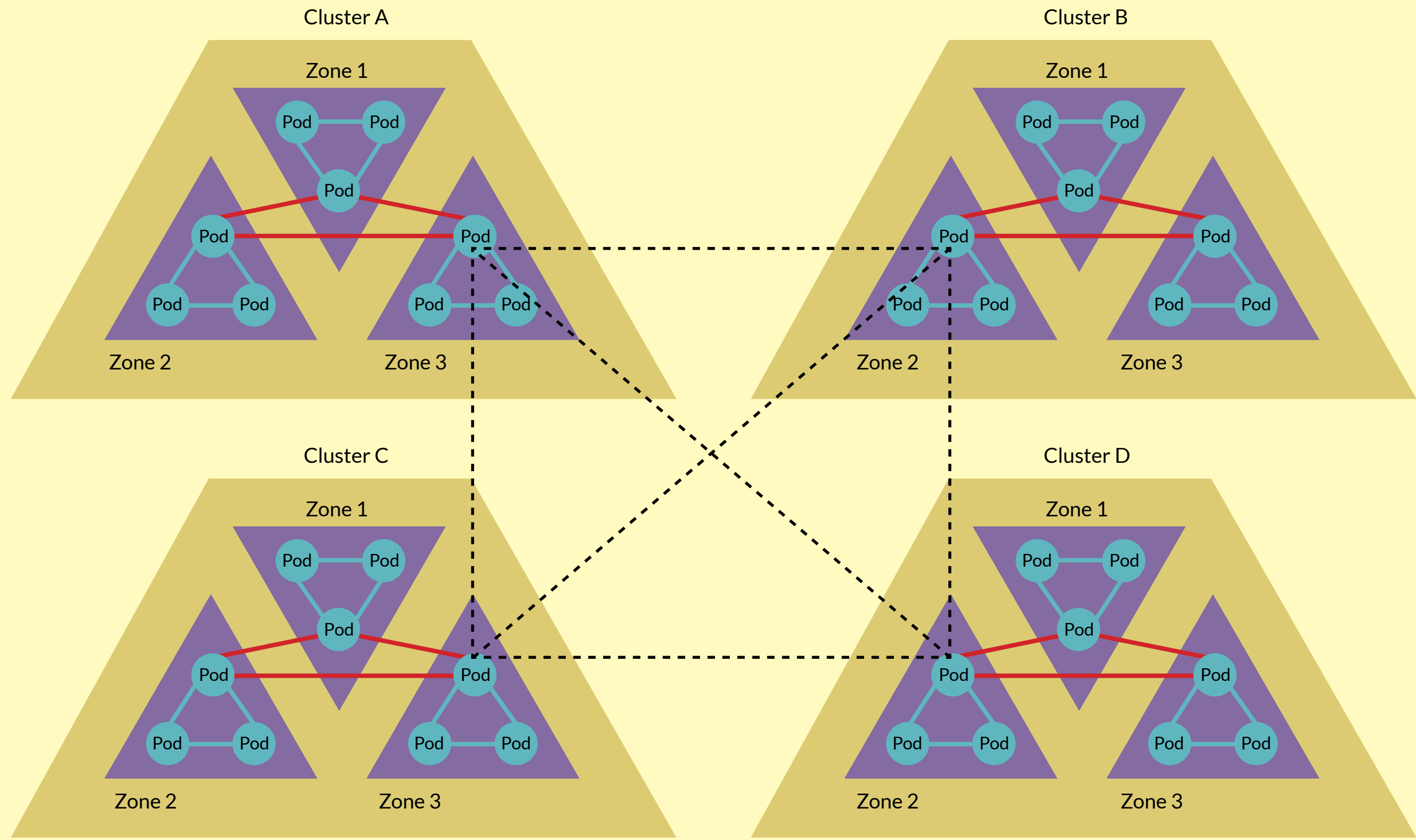
Too Complex



A practically unmanageable structure with too much complexity.

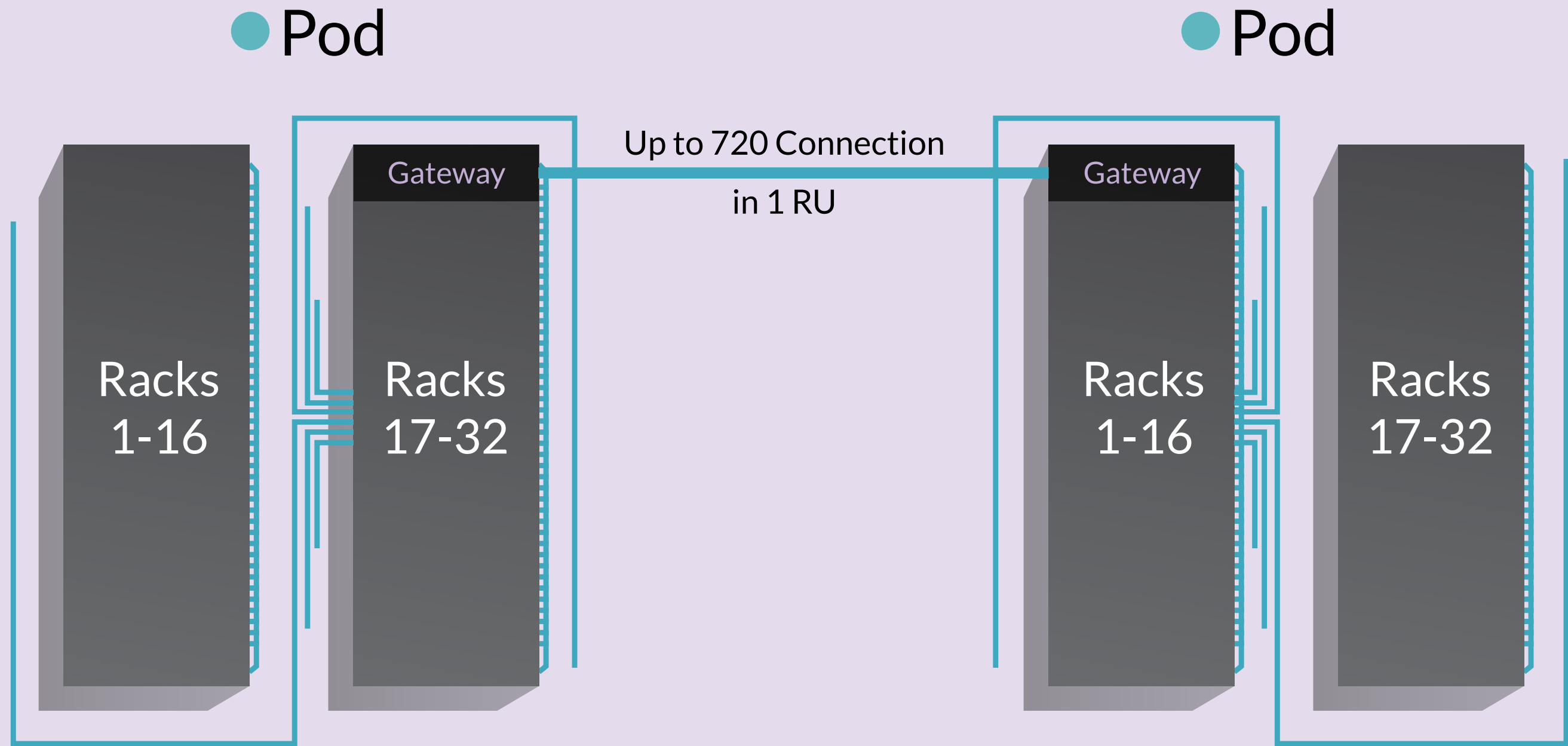
²Topology

It's important to design a large data center architecture that's simple and scalable with redundancy in the backbone interconnects. It's crucial to design a hierarchy that simplifies the data center management, while in the meantime allowing the maximum level of direct interconnect to maintain the highest degree of performance.



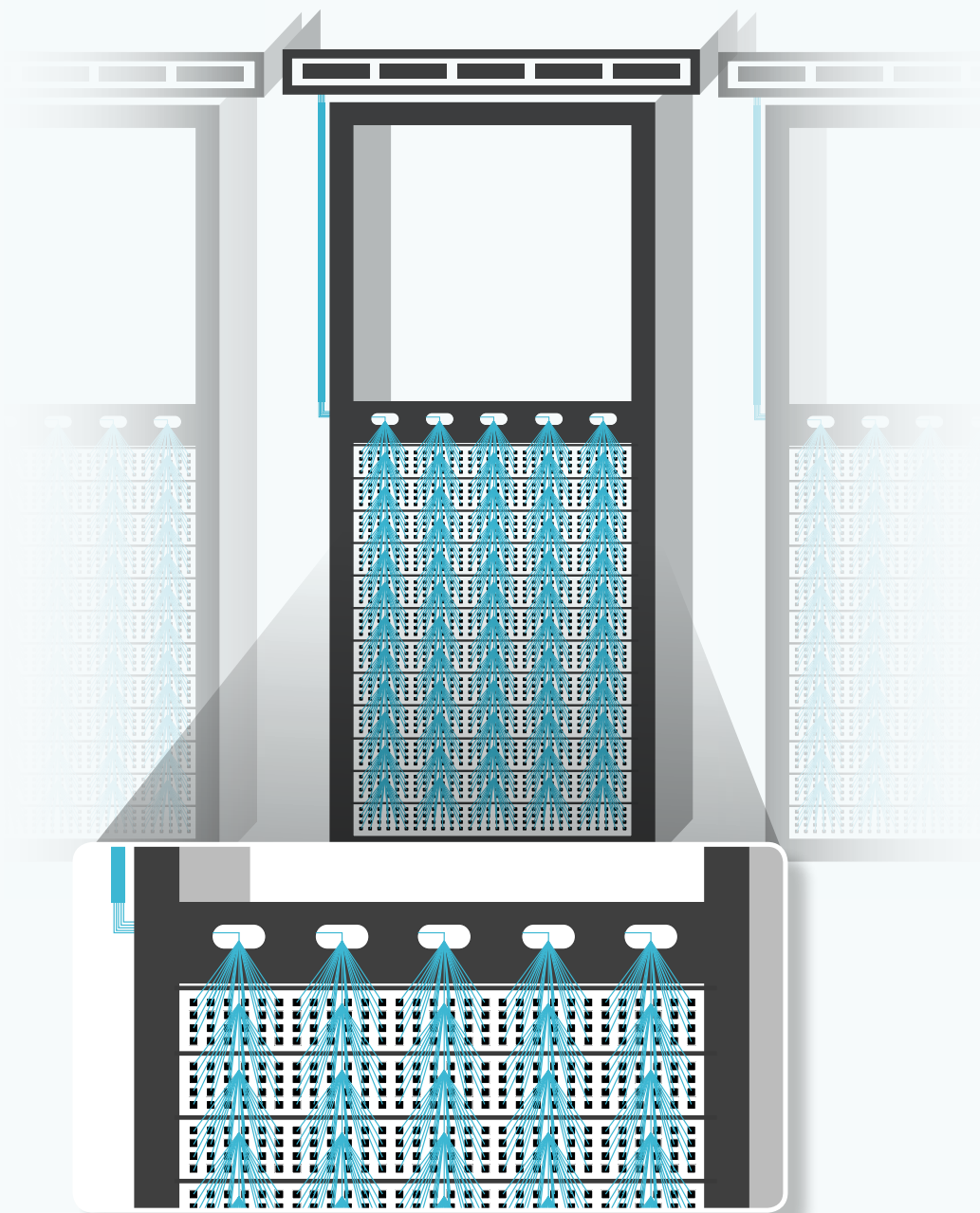
³ Architecture: Pod, Zone & Cluster

A typical architecture with clusters can host 1,500 racks or more with a simple and elegant backbone any to any interconnects as illustrated above. Smaller data centers can stay within 2 level hierarchy with Pods and Zones, or simply at the Pod level.

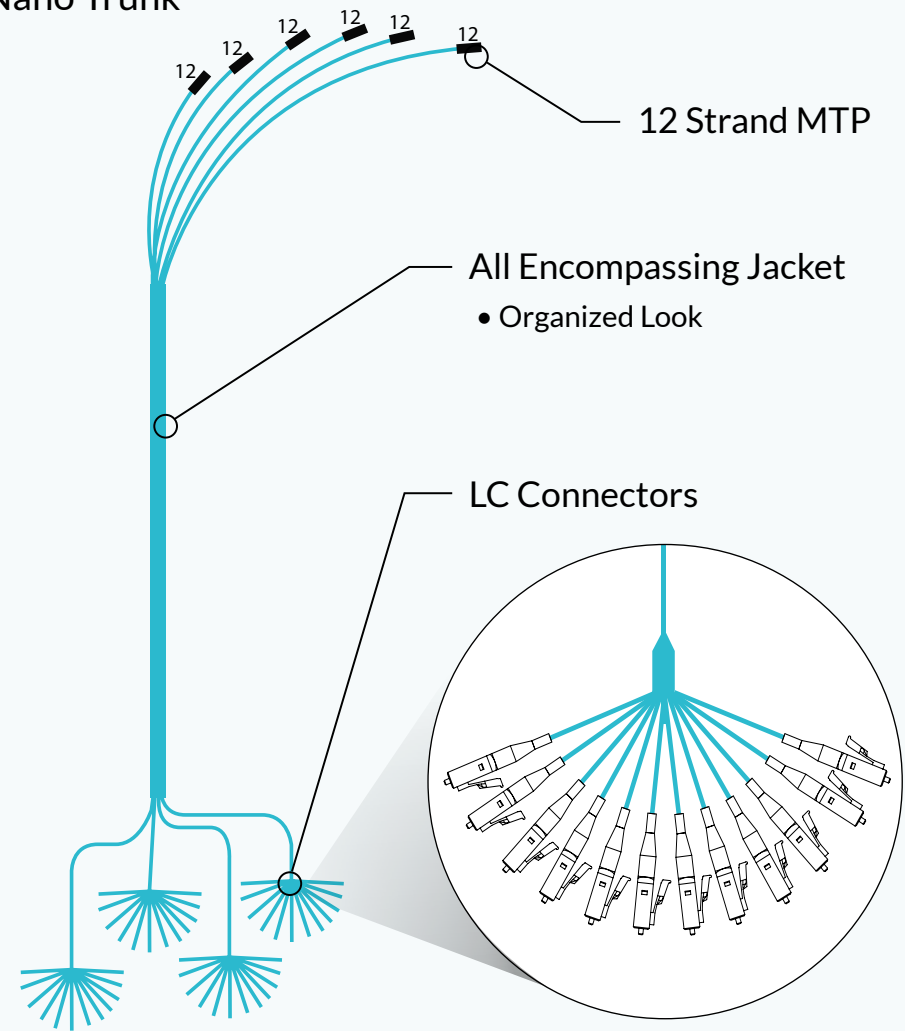


⁴Ultra High Density Interconnect

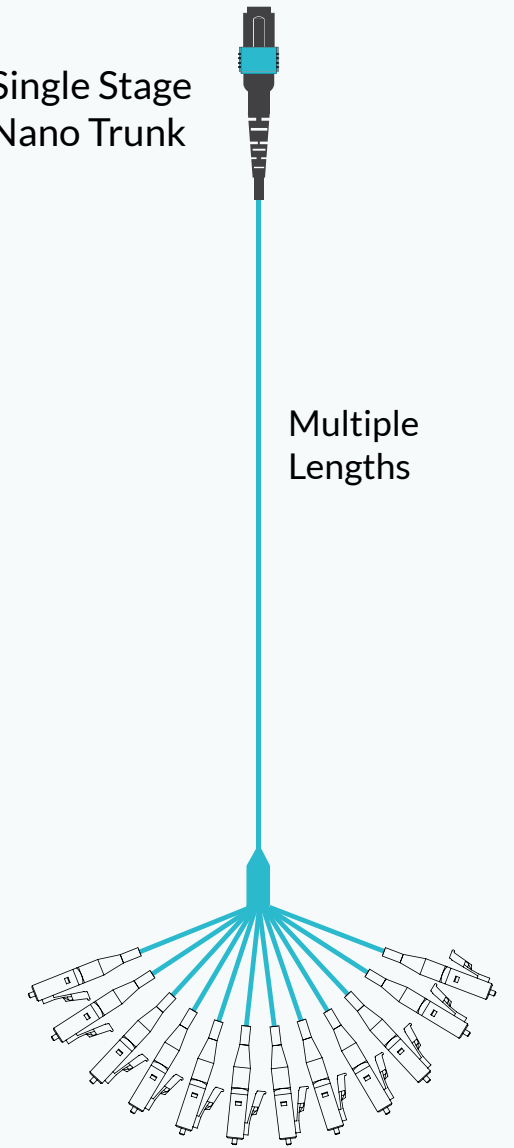
Nano Trunk Implementation



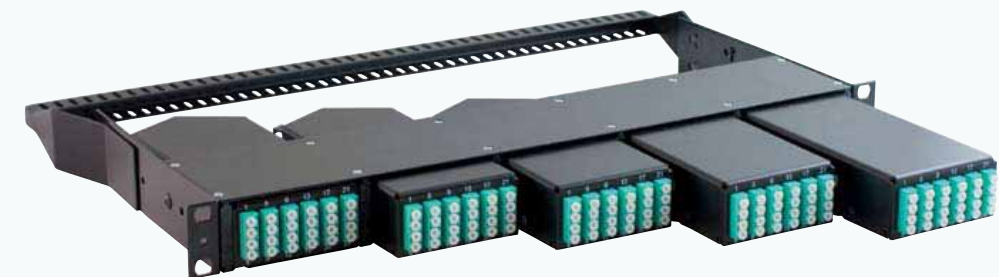
Double Trunk Stage Nano Trunk



Single Stage Nano Trunk

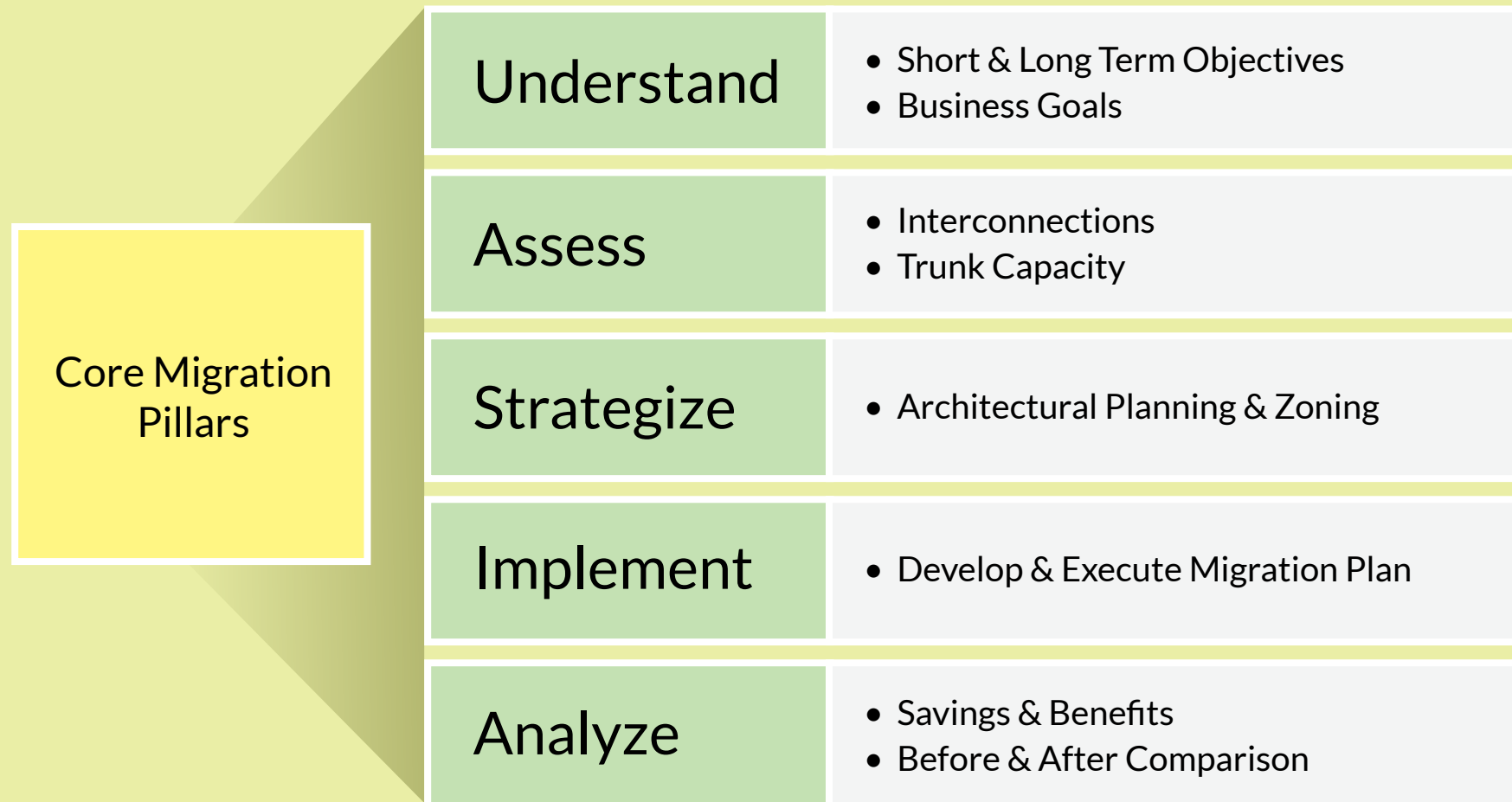


Ultra 5



⁵ Ultra Slim Patching

- Custom Lengths to Reduce Slack
- Increased Air-Flow Improves Longevity of Cables
- Custom Cable ID System (Labels & Barcodes)



Challenges

The many data center cases, customers have to maintain live traffic while migrating to the new architecture. The downtime and disruption have to be zero or very low, which prevents many data center managers from moving to the advanced architecture. As more equipment is installed, especially with higher density blades coming to the market each year, the data center is becoming more and more unmanageable and chaotic. The efficiency in the day to day operations starts to degrade exponentially as the complexity increases. It is critical to act NOW, rather than deferring the issues to a later time, which results more waste of company's budget and resources.

Solutions

Wave-2-Wave's data center architecture removes the complexity and confusion from data center manager's mind, and creates an end to end streamlined structure in today's ever growing environment. The architecture is highly scalable and easy to manage.

Benefits

- Saves up to 50% of the cabling materials
- Improves the operations efficiency by up to 75%
- Addresses the growing challenges in today's mission critical data center environment
- Meets customers' application specific needs

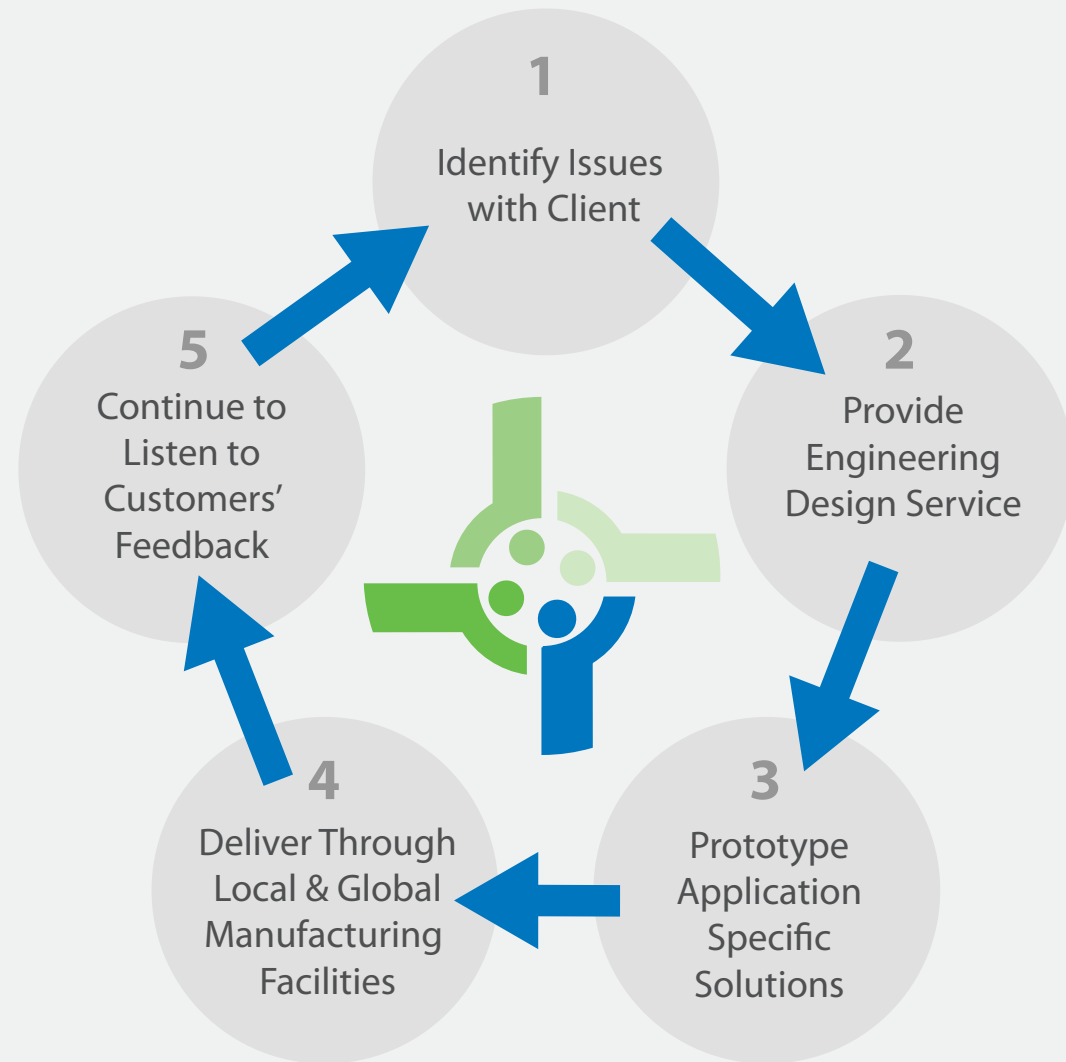
6 How to Migrate

Being a direct manufacturer with local face to face services, Wave-2-Wave provides the most innovative products and solutions cost effectively in the industry.


Connectivity Life Cycle

▶ Continuous Engagement Cycle

A Step-by-Step Process



▶ Why Choose Wave-2-Wave Solution?

We Provided Value Added Services With Our Products		Distribution Competitor	Manufacturing Competitor
Understanding Customer's Challenges/Environment	✓		
Face to Face Engineering Service (No Charge)	✓		
Design and Prototype	✓		
Standard Solutions	✓	✓	✓
Application Specific Solutions	✓		
Local & Global Manufacturing Capabilities	✓	✓	
Fast Lead Time	✓		
Customer Service	✓		✓



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