

ArcBest | Vaux

Maximizing Trailer Utilization and
**Reducing Transportation
Costs by 50%**

with Vaux Freight Movement System

Cutting Costs

WHILE INCREASING CAPACITY



UNIQUE OPERATIONS

A major global technology manufacturer operated a closed-loop shuttle run between multiple locations in Texas and Massachusetts. Their operation relied on a third-party transportation provider to move high-value servers packed in specialized crates.



SPECIALIZED HANDLING

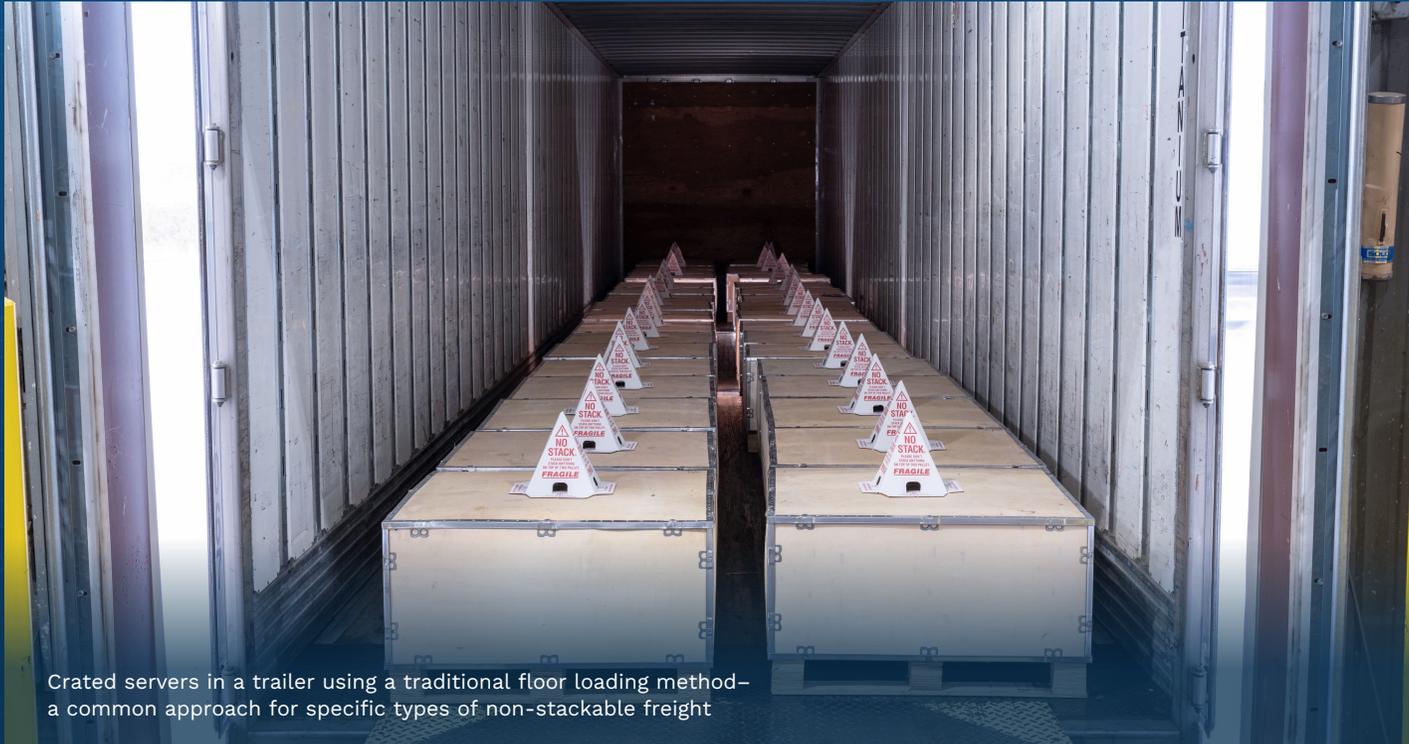
Because the freight is fragile, they ran into limitations with how it could be loaded and moved. The process created operational and cost challenges the customer could no longer ignore.



THE CHALLENGE: Excessive costs and low trailer capacity

The customer's logistics model relied on floor-loading all server crates because vibration and shifting during transit made stacking impossible. While necessary to protect the product, this approach significantly limited operations in the substantial ways.

With rising transportation costs and no viable way to stack crates safely, the customer needed a solution that could increase unit count without compromising freight integrity.



Crated servers in a trailer using a traditional floor loading method—a common approach for specific types of non-stackable freight

This traditional approach caused:



Rising Transportation Costs

Fewer trips per trailer meant higher round-trip expense.



Safety Constraints

Servers are extremely delicate, so even the risk of minimal vibration made traditional stacking unsafe.



Inefficient Capacity

Only 34 units fit in each trailer, leaving substantial space unused.

THE ARCBEST SOLUTION:

Reimagined load configuration for greater efficiency

To address these constraints, the customer deployed the **Vaux Freight Movement System**, using two 92" **Vaux Mobile Platforms** (MP) and six decking tables per MP. This configuration enabled fully optimized loads, replacing inefficient floor-loading with a precise solution that allowed crates to be safely stacked and securely transported.

The Vaux decking system created a stable, vibration-controlled environment — something traditional stacking lacked.

The customer could now:



Stack crates without compromising product safety



Load significantly more units per trailer



Reduce daily shuttle runs and cut transportation spending

This unique MP setup was specifically engineered to maximize vertical space, making it an ideal fit for the customer's fragile, high-value freight



Server crates stacked on Vaux Mobile Platforms equipped with decking tables – more than doubling trailer utilization

THE RESULTS:

Increased productivity at a lower cost

Partnering with ArcBest and incorporating Vaux added value for the customer by reducing daily freight spend, improving operational efficiency and limiting risk through safe freight handling.

The customer reported a smooth rollout that involved collaborative implementation, thorough training and responsive support tailored to specific operational needs. Plus, the flexible configuration of the 92" MP model supported occasional roll-door trailer use cases.



8
Trailers Per
Day Eliminated



+2x
Increase in
Units Per Trailer



~50%
Reduction in
Transportation
Spend

Experience Meaningful **IMPROVEMENTS** You Can Build On

Are you looking for more cost-effective solutions to improve your supply chain? Want to move more freight with fewer trailers without compromising safety?

Discover how the Vaux Freight Movement System can transform your operation. Speak with our helpful experts today!

Learn more at arcb.com/vaux

