

USE CASE

A leading manufacturing enterprise enhances its global IT resilience through CypressTel's data center migration and hybrid connectivity solutions — achieving seamless business continuity, scalability, and security across its global operations.



OBJECTIVES

To execute a seamless, zero-downtime data center migration while enhancing global network resilience — ensuring uninterrupted connectivity, optimized performance, simplified management, and a scalable hybrid-cloud foundation for future growth.

SOLUTIONS

CypressTel delivered a comprehensive, end-to-end solution that integrates data center migration, hybrid cloud connectivity, and SD-WAN technologies. The design combined dedicated cross-connects, dual power and cabling setups, and intelligent routing to ensure a seamless transition, zero downtime, and continuous global network performance.

BUSINESS CHALLENGES

- The existing Verizon data hall at iTech Tower was scheduled for closure, requiring immediate relocation.
- Over 60 servers and network devices across seven 3 kVA racks needed migration.
- Complex cabling and dual power feed reconfiguration were essential to maintain performance and compliance.
- Global automotive operations demanded uninterrupted access to mission-critical systems.

COMPANY OVERVIEW

The client is a leading automotive manufacturing enterprise with operations and distribution branches across multiple regions worldwide. Its hybrid IT environment includes several public and private clouds — Alibaba Cloud for operations in China and Asia, AWS for branches in Europe and the US, and a private cloud hosted in a China IDC facility.

AT A GLANCE

Industry

Manufacturing

Challenges

- Urgent data-center relocation
- Complex multi-rack environment
- Zero-downtime requirement

Solution

Data Center + Hybrid Connectivity

Benefits

- Zero service interruption
- Enhanced resilience
- Future-ready infrastructure

SOLUTION DEPLOYMENT

To ensure a smooth, zero-downtime transition, CypressTel followed a structured five-phase deployment plan — from early preparation to post-migration optimization. Each phase was meticulously executed by certified engineers to guarantee precision, reliability, and business continuity.

Pre-Migration Planning

CypressTel conducted detailed joint workshops to define migration phases, risk mitigation strategies, and fallback plans. A comprehensive migration matrix mapped every dependency to ensure a controlled and predictable transition.

Data Hall Preparation

The new facility was provisioned one month in advance, including rack installation, structured cabling, redundant power feeds, and environmental testing to confirm load stability and readiness.

Rehearsal and Validation

A full dry-run migration was performed to simulate the entire process, validating cabling layouts, device sequencing, and system dependencies. The rehearsal helped fine-tune timing and coordination for the live cutover.

Final Cutover Execution

During a planned weekend window, systems were powered down, relocated, and recommissioned at the new data hall. All services were restored within 12 hours — achieving a zero-downtime migration with full service integrity.

Post-Migration Audit

After cutover, CypressTel's engineering team conducted end-to-end validation, confirming optimal performance, redundancy, and environmental stability. Continuous monitoring ensured post-migration reliability and improved operational visibility.

KEY BENEFITS

Zero Business Disruption

Seamless migration completed within 12 hours, ensuring uninterrupted global operations and zero data loss.

Enhanced Infrastructure Resilience

Redundant cabling and dual power feeds improved fault tolerance and long-term reliability.

Optimized Performance and Scalability

Upgraded connectivity and architecture enabled faster data transmission and easier expansion for future needs.

Centralized Visibility and Control

Integrated SD-WAN management simplified network monitoring, policy control, and post-migration operations.

WHY CYPRESSTEL?

CypressTel combines deep expertise in data center migration, hybrid cloud connectivity, and SD-WAN orchestration to help global enterprises modernize infrastructure with confidence.

Our proven zero-downtime approach, carrier-neutral connectivity, and 24x7 project execution ensure business continuity and long-term operational stability for mission-critical environments.



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