MULTI-TENANT COLOCATION

Colocation Provider Achieves ANSI/TIA-942 Rated-3 with Integrated Infrastructure

A growing colocation provider built their flagship facility using Halden racks, security caging, and containment systems to meet Tier III requirements and maximize revenue per square meter.

THE CHALLENGE

The client was building a new 800-rack colocation facility targeting enterprise customers with strict compliance requirements. They needed infrastructure that would achieve ANSI/TIA-942 Rated-3 certification while maximizing sellable space. Each tenant required physical isolation with their own security perimeter, plus efficient cooling to support high-density deployments.

PROJECT SCOPE

Industry
Colocation / Data Center Services

Location
Cebu City, Philippines

Facility Size
2,500 sqm raised floor

Total Capacity
794 racks across 24 tenant cages

PRODUCTS DEPLOYED

- **HR-45-8-12** Server Racks (794 units)
- **SecureSpace Caging** — 24 custom tenant enclosures
- **AirLogic CAC** — Cold aisle containment in all aisles
- Card reader access control integration
- Fire suppression compatible panels

KEY RESULTS

Rated-3 TIA-942 Certification	**43%** Cooling Cost Reduction
1.55 PUE Achieved	**24** Isolated Tenant Cages

> "Working with a single vendor for racks, caging, and containment eliminated coordination headaches. The custom caging fit our floor plan exactly—no wasted space, no awkward gaps."
>
> — Facility Director

WHY HALDEN

- Single vendor for all physical infrastructure
- Custom caging maximized sellable square meters
- Containment achieved PUE targets for certification
- Security features met enterprise compliance needs

INFRASTRUCTURE BREAKDOWN

HR-45 Server Racks

794 units, 800mm wide, 1200mm deep. High airflow doors.

SecureSpace Caging

24 custom enclosures, solid lower panels, mesh top section.

AirLogic Containment

Cold aisle in all rows, fire-rated drop-away panels.

Access Control

Card reader on each cage, audit trail, tenant management.

CERTIFICATION REQUIREMENTS MET

TIA-942 Requirement	Solution
Physical Access Control	SecureSpace caging + card readers
Cooling Redundancy	Containment enables N+1
Fire Suppression	Drop-away panels for agent dispersal
Cable Management	HR Series integrated cable trays
Environmental Monitoring	Sensors in each containment zone

TENANT MIX

Large Enterprise (6 cages): Financial services, BPO headquarters. Solid panel caging for compliance.

Mid-Market (12 cages): Tech companies, e-commerce. Mesh caging for visibility.

Startup/SMB (6 cages): Shared facilities with metered power. Smaller custom enclosures.

REVENUE IMPACT

Metric	Value
Sellable Racks	794 (100% utilization)
Average Power/Rack	8-15kW supported
Premium for Caged Space	+35% vs. open floor
Tenant Retention	96% after 2 years

BUSINESS BENEFITS

✓ **Maximized revenue** — Custom caging used every sqm of sellable space

✓ **Premium pricing** — Isolated cages command 35% higher rates

✓ **Faster tenant onboarding** — Pre-built infrastructure, just add equipment

✓ **Lower operating costs** — 43% cooling savings vs. industry average

✓ **Certification achieved** — TIA-942 Rated-3 on first audit

✓ **Tenant satisfaction** — No complaints about security or cooling

Building or Expanding a Colocation Facility?

Halden provides complete infrastructure solutions—racks, caging, and containment—engineered to maximize your sellable space and meet certification requirements. Contact us for a facility consultation.