IT INFRASTRUCTURE & NETWORKING WIFI UPGRADE.

Atlantis The Palm Hotel Resort - Dubai UAE.

The Project

Atlantis The Palm - one of the world's most iconic luxury resorts, spanning 46 hectares (460,000 m²).

I led the successful delivery of a large-scale IT infrastructure and Wi-Fi network transformation across the entire resort.

This wasn't just a technology refresh, it was a full-scale modernisation of a mission-critical digital environment, designed to support thousands of guests and staff daily.

Project value: AED 10 million (~USD 375,000)

Case study

Key deliverables:

- Deployment of 3,000+ enterprise-grade Wi-Fi access points
- Installation of 1800+ managed network switches
- Design and implementation of multiple MDF & IDF environments
- End-to-end upgrade of legacy network infrastructure

The outcome:

Seamless, high-density connectivity across one of the most demanding hospitality environments in the region.

The Scope

- Decommission legacy Cisco Wi-Fi and switching infrastructure
- Full migration to Hewlett Packard Enterprise Aruba Networks ecosystem
- Deployment of Aruba Wi-Fi access points and switches
- Implementation of Aruba Central for centralised cloud-based control
- Leadership of a 20+ member multi-vendor delivery team
- Direct client stakeholder management, reporting, and governance

The Brands Used

- HPe Aruba Central Cloud Controller
- HPe Aruba Indoor & outdoor WIFI access points
- HPe Aruba enterprise network switches
- High grade cat6 cables & fibre optics

The Challenges

This project came with real-world complexity, not just technical, but operational:

- Extreme environmental conditions
  High temperatures impacting outdoor deployment and hardware performance
- Scale and coverage
  46 hectares of mixed-use luxury space - rooms, public areas, outdoor zones
- Live environment constraints
  Zero disruption tolerance in a 24/7 hospitality operation
- Multi-vendor coordination
  Managing suppliers with varied capabilities and delivery standards

Outdoor water park zonal marking - with the team

Overcoming The Challenges

- Phased deployment strategy
  Carefully planned rollout to minimise disruption to guests and operations
- Strict governance & reporting cadence
  Daily tracking, risk management, and stakeholder alignment
- Standardisation of delivery
  Clear technical baselines and installation standards across all vendors
- Hands-on leadership
  Bridging the gap between technical execution and business expectations
- Environmental planning
  Adjusted deployment schedules and methods to account for heat and site conditions

The Outcome

- Resort-wide high-performance Wi-Fi coverage
- Improved network reliability and scalability
- Centralised visibility and control via cloud management
- Future-ready infrastructure to support digital guest experiences
- Enhanced operational efficiency for IT teams

The Conclusion

This project is a clear example of what effective IT leadership looks like in practice:

Not just deploying technology - but aligning infrastructure with business experience at scale.

In environments like luxury hospitality, connectivity is no longer a backend function.
It is part of the guest experience itself.

And getting it right requires more than technical skill - it requires ownership, coordination, and execution under pressure.

The Client

Names : Atlantis The Palm Hotel Resort
Sector : Hospitality

Address:
Dubai Palm Island
Dubai, United Arab Emirates

Project completion Date

The month of October 2025

For more information & contact details

Email : aktar@aktarmumin.com
Website : aktarmumin.com
Dubai | United Arab Emirates

Aktar Mumin Consultancy - Simplifying Technology