

+34 602 425 705 | +44 7548 537351 info@mactolife.com mactolife.com

Seamless Connectivity for Homes and Offices

Trusted UK technology partner — now bringing proven Networks, Wi-Fi and CCTV expertise to Spain

About MTL Smart Solutions

Ensuring seamless connectivity and exceptional customer experiences.

MTL Smart Solutions is a UK-founded technology consultancy specialising in enterprise-grade network infrastructure, retrofit Wi-Fi solutions, CCTV, and smart home AV systems — supported by proactive monitoring and long-term support.

Founded by Jamie Alderson, MTL has delivered large-scale network and creative technology projects for commercial, residential, and educational clients, including high-profile international programmes.

Now operating across Spain (Sotogrande / Marbella region), MTL supports developers, estate managers, and property owners in building reliable, scalable, and secure technology foundations for modern living and working environments.

Our Core Services

Seamless Solutions, Designed for Modern Spaces

Enterprise Network Infrastructure — Design and deployment of robust wired and wireless networks, including fibre backbones and secure VLAN segmentation.

Retrofit Wi-Fi for Homes & Villas — High-performance coverage for complex properties — delivered without disruptive rebuilding.

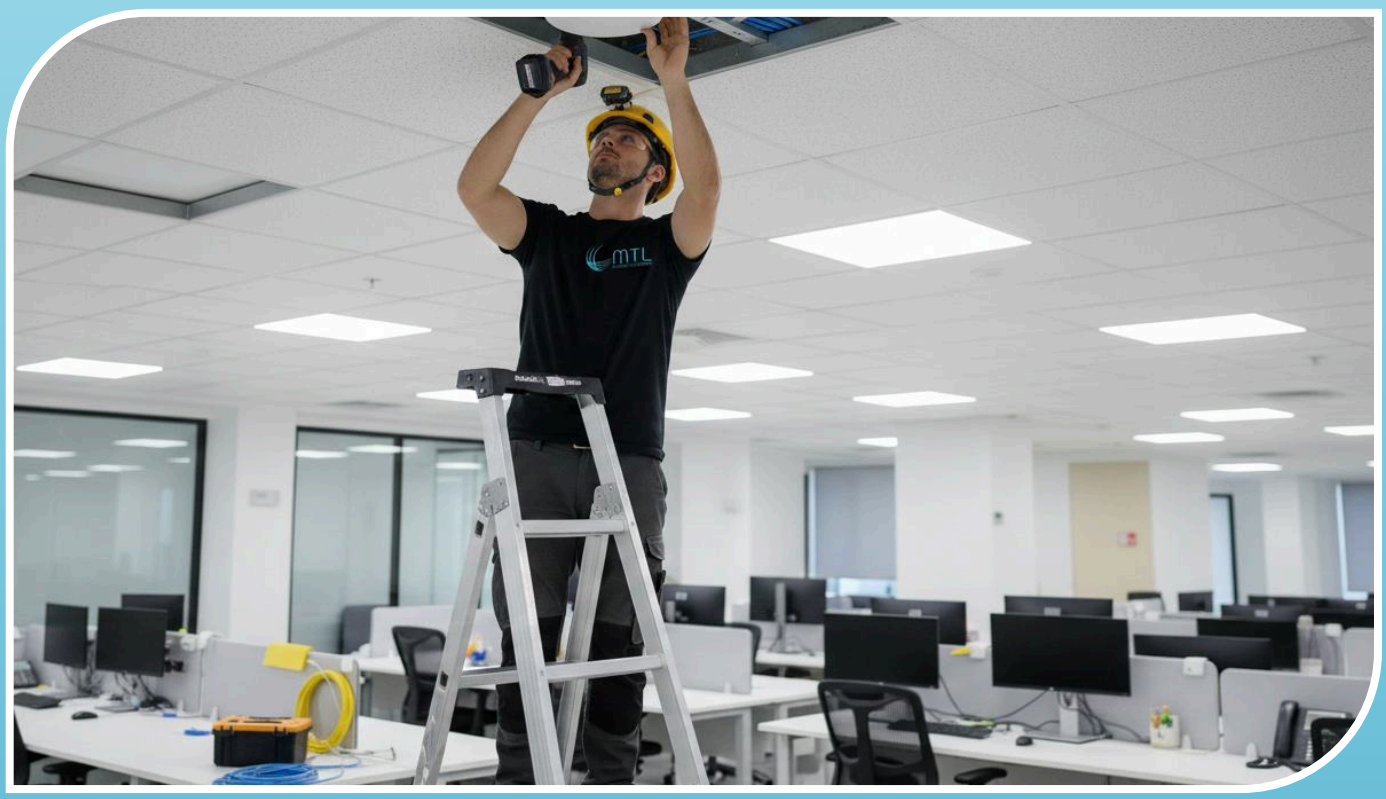
CCTV & Security Systems — Professional surveillance solutions using Hikvision cameras, NVRs, and remote monitoring.

Smart Home & AV Integration — Cinema rooms with Dolby Atmos sound, whole-home audio, and intelligent automation solutions.

Managed Support & Monitoring — Proactive network health checks, remote management, and preventative maintenance.

Seamless Technology. Designed Properly

Technology should work quietly, reliably, and without compromise.



MTL designs, delivers, and maintains enterprise-grade network infrastructure that underpins reliable, future-ready technology in modern buildings. By planning connectivity at the infrastructure stage, we enable Wi-Fi, CCTV, smart home, and AV systems to perform seamlessly — without compromising architectural intent or design integrity.

With experience across complex residential and commercial projects in the UK and Spain, MTL delivers discreet, scalable solutions built to perform long after project completion. Founded in the UK and now operating internationally, we bring proven expertise from high-value residential and mission-critical commercial environments worldwide.

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Case Study | Trinity Estates

Trinity Estates - Rathbone Market CCTV Overhaul | 2025

Challenge

The site was operating on aging CCTV and network infrastructure spread across eight mixed-use buildings. Of the 50 cameras installed, only 19 were operational, leaving significant gaps in coverage and reliability. The multi-level underground car park was particularly under-protected, with coverage limited to just five cameras, creating clear security and operational risks across the estate.

Solution

- Designed and delivered a new, resilient network infrastructure throughout the underground car park to support 22 additional CCTV cameras.
- Implemented new fibre backbone links to provide high-capacity, future-proof connectivity across the site.
- Upgraded to enterprise-grade Ruijie PoE switching, purpose-built to support high-density CCTV and network resilience.
- Deployed over 80 Hikvision cameras and dual NVRs, providing secure, centralised recording with over 50TB of storage.
- Introduced VLAN segmentation to enhance network security, performance, and system isolation.
- Implemented a managed services model, enabling proactive monitoring, rapid fault resolution, and ongoing system reliability.

Outcome

Following MTL's upgrade, Rathbone Market now benefits from a fully integrated, secure surveillance and network platform delivering reliable, full-coverage monitoring across all areas of the site. The system incorporates hybrid colour night-vision technology and is supported by proactive monitoring and maintenance to ensure maximum uptime. Crucially, for the first time, the entire installation is supported by comprehensive system documentation and a complete handover pack, providing long-term clarity, accountability, and ease of management for the client



Case Study | Saudi Music Hub

المركز السعودي للموسيقى
SAUDI MUSIC HUB

Ministry of Culture
Saudi Music Hubs | 2024

Challenge

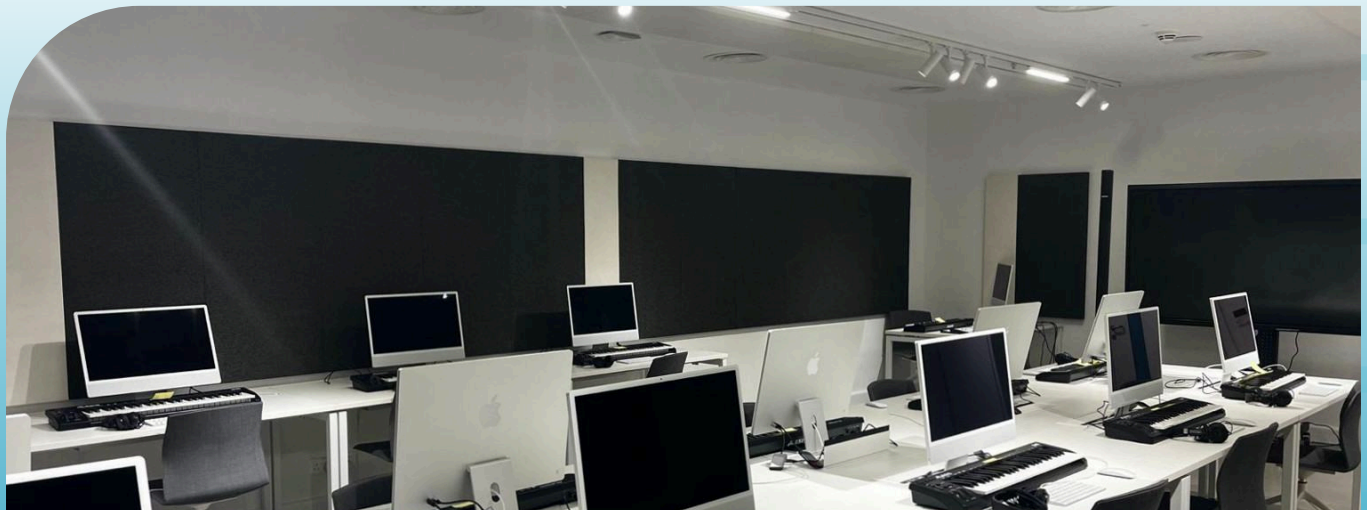
The Saudi Music Commission required the deployment of a large-scale, professional creative technology platform across multiple Saudi Music Hubs in Riyadh, Jeddah, and Al Khobar. This included configuring over 200 Mac workstations running latency-sensitive music production, DJ, and creative software, while stabilising unreliable Wi-Fi and network infrastructure across the sites.

Solution

- Delivered a coordinated, multi-site rollout of professional music production and creative environments across Saudi Music Hubs.
- Installed and configured over 20 specialist music production suites using industry-standard platforms including Logic Pro, Ableton Live, Pro Tools, Serato, Traktor, and professional VST environments.
- Deployed and optimised over 200 Apple Mac workstations, including shared storage strategies to support collaborative project workflows.
- Diagnosed and resolved complex Wi-Fi and network performance issues to achieve stable, low-latency operation suitable for real-time audio production.
- Delivered structured training to local technical teams to ensure long-term operational independence.
- Designed and implemented a two-year proactive support and device management programme using Kandji MDM, enabling remote monitoring, security enforcement, and seamless system updates.

Outcome

The Saudi Music Hubs now operate as high-performance, professionally managed creative labs, providing students and artists with reliable, low-latency production environments. Predictable uptime, centralised management, and remote support ensure long-term sustainability and operational resilience across all sites.



Case Study | THB

THB
Wi-Fi and Cloud Migration | 2023

Challenge

THB required a fast, reliable, and secure Wi-Fi environment while migrating away from aging on-premise servers to an Azure-based cloud solution, which were limiting scalability, resilience, and operational efficiency.

Solution

- Delivered a site-wide Wi-Fi redesign to provide fast, secure, and reliable connectivity across the organisation.
- Planned and executed a full company-wide migration to Microsoft 365, including Azure Active Directory and SharePoint.
- Migrated and reconfigured all staff email accounts and office 365 shared resources, with minimal downtime and business disruption.
- Delivered structured staff training, alongside a staged cut-over and proactive post-migration support to ensure a smooth transition.

Outcome

THB now operates on a modern, secure, cloud-based platform with high-performance Wi-Fi, centralised shared resources, and improved resilience. The migration removed the reliance on legacy on-premise systems and VPN access, enabling seamless, secure collaboration across the business with minimal disruption during the transition.



Latest Projects in Spain



Premium WiFi Coverage — Estepona | November 2025

Challenge

A high-end interior design renovation combined two apartments into a single luxury residence. With walls already closed and decoration underway, the property required full Wi-Fi coverage—but any conventional solution would have required reopening finished surfaces, compromising timelines, budget, and design integrity.

Solution

- Infrastructure study to identify viable cabling routes through existing conduits.
- Installation of Cat 6 structured cabling throughout the property without opening walls or affecting finishes.
- Five Ruijie Wi-Fi 7 access points, designed using floor plans and coverage mapping for complete connectivity in all rooms.
- PoE switching integrated into a built-in wardrobe: zero visual impact and easy access for maintenance.
- Installation completed in a single day, coordinated with the ongoing interior design work.

Outcome

The residence now boasts enterprise-grade wireless coverage throughout, without compromising the finishes or interior design concept. The successful delivery generated numerous direct referrals from the interior design team.



Modernization of Rural Infrastructure — Sotogrande | January 2026

Challenge

A large rural estate required a complete technological upgrade, with no existing data cabling and a complex layout encompassing the main building, outdoor areas, and outbuildings. The client needed Wi-Fi coverage throughout the estate, electric vehicle connectivity, and integration with solar batteries and Starlink—all with minimal structural intervention.

Solution

- Comprehensive study and design of a scalable infrastructure plan for the main building, exterior areas, and outbuildings.
- Installation of exterior Cat 6 cabling, routed along facades to avoid internal construction work.
- Multiple Ruijie Wi-Fi 7 access points for reliable indoor and outdoor coverage.
- Installation of Starlink with a Ruijie managed router and dedicated cabling for electric vehicle charger and solar battery management.
- All exterior infrastructure implemented according to enterprise-grade weatherproofing standards.

Outcome

The property now operates with a fully integrated technology platform, featuring connectivity throughout the entire property, electric vehicle charging, and solar integration. Modernized without invasive construction and ready for future home automation upgrades—the installation was completed in a single day, without incident.

Trusted Global Partners

Built on Proven Enterprise Platforms - Every MTL installation is built on proven, enterprise-grade platforms selected for reliability, security, and long-term support.

As partners with leading enterprise technology manufacturers — including our status as a Ruijie Networks Silver Partner — MTL ensures the infrastructure underpinning connected systems remains stable, scalable, and future-ready over time.

Network Infrastructure · Wi Fi Deployment · CCTV & Security · Smart Home & AV · Managed Support · Technology Consulting


MTL
SMART SOLUTIONS
Your Trusted Technology Partner in Spain
Reliable, scalable networks and smart technology for modern properties
Partner with MTL Smart Solutions to design technology foundations that add long term value to your developments and managed properties
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