

LUX SMART SYSTEMS

Division Capability Profile

CPM Group's Low Current Systems Division delivers integrated technology solutions across the full spectrum of building intelligence, electronic security, and telecommunications infrastructure. The Division's technical team brings over 30 years of field-proven expertise spanning residential, commercial, hospitality, healthcare, and industrial sectors.

The Division operates under CPM Group's principal-led model — structured to deliver measurably leaner cost structures than institutionally staffed technology firms, with direct accountability at every stage of design, supply, installation, and commissioning.

SERVICE CAPABILITIES

01 | Structured Cabling & Network Infrastructure

▪ LAN /WAN architecture and implementation	▪ High -speed fiber optic cabling
▪ Site -to-site and campus connectivity	▪ Cisco routers, switches, managed hubs
▪ DSL / HDSL / microwave link integration	▪ Proxy , mail & exchange server configuration

02 | Electronic Security & Surveillance

▪ CCTV systems — analogue, HD, and IP cameras	▪ Remote monitoring and internet integration
▪ Intrusion detection & motion sensing	▪ Fire alarm design, supply & commissioning
▪ Advanced network monitoring (24/7)	▪ IDS/IPS and perimeter security

03 | Access Control & Facility Management

▪ Access control hardware & software	▪ Time & attendance systems
▪ Point -of-sale integration	▪ Restricted -access facility configuration
▪ Multi -site centralized control	▪ Biometric and card-based reader systems

04 | Building & Home Automation

▪ Luxury home automation (smartphone control)	▪ Lighting , A/C, heating & shutter management
▪ Audio /video distribution systems	▪ Home theatre integration

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LOW CURRENT DIVISION

GCC | MENA | Levant | Africa | Americas

- **Building** Management System (BMS) integration
- **Remote** monitoring & control over internet

05 | Electromechanical Control & PLC Engineering

- **Custom** PLC design & programming
- **Industrial** gate and barrier automation
- **Revolving** and sliding door control systems
- **Custom** electronic circuit design
- **Third-party** equipment control integration
- **Electrical** design, execution & supervision

06 | Solar Photovoltaic Systems

- **Complete** PV system design & feasibility
- **Residential**, commercial & industrial PV
- **Grid-tied** and off-grid configurations
- **Solar** street lighting
- **System** commissioning & performance testing
- **Ongoing** PV system maintenance programs

07 | Enterprise IT & Cybersecurity

- **Cisco** PIX firewall and ASA deployment
- **IPS/IDS** configuration and monitoring
- **Automated** backup & data protection
- **AI/ML-driven** fault diagnosis and security
- **Virus** removal and data recovery
- **Remote** troubleshooting & support

AFTER-SALES, MAINTENANCE & TECHNICAL SUPPORT

The Division provides structured maintenance programs across all installed systems, including periodic inspections, performance verification, corrective intervention, and guaranteed business continuity through parallel temporary solutions during scheduled maintenance windows.

Software Support	Installation, on-site/remote intervention, virus removal, data recovery
Hardware Support	Labor, spare parts, 24-hour replacement unit provision
Security Maintenance	Fire/intrusion alarm, automation, CCTV, and PV system periodic programs

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TECHNICAL LEADERSHIP

Experience	30+ years in technical sales, installation, maintenance and complex engineering
Legal	Sworn expert to Lebanese courts of justice — electromechanical field
Certifications	Cisco CCNA, CSPFA (Cisco Secure PIX Firewall Advanced), MCNS; SCP Network Security Fundamentals (Parts 1 & 2); AI/ML — IBM Skills Network, Harvard CS50AI, CS50P
AI / ML	Active integration of Machine Learning tools for system diagnostics, predictive maintenance, and advanced security threat analysis

SECTORS SERVED

Hospitality	Healthcare	Education	Real Estate
Infrastructure	Industrial	Government	Private Residential
Retail & Trading	Engineering Offices	Green Buildings	Solar & Energy

DIVISION DIFFERENTIATORS

Principal-Led Delivery No overhead layers. Direct technical accountability from principal engineer at every stage.	AI-Augmented Operations Machine Learning integrated for faster diagnostics, security analytics and predictive maintenance.
Guaranteed Business Continuity Parallel temporary solutions deployed during all maintenance interventions — zero tolerated downtime.	Full-Spectrum Integration End-to-end delivery: design, supply, install, commission and maintain — one partner, one point of accountability.