MESH NETWORK SYSTEMS

CONNECTING YOU TO A SMARTER WORLD

COMPANY OVERVIEW

Mesh Network Systems (MNS) is a Saudi-based technology and engineering company specializing in IoT, automation, low-current, ICT, and security solutions. We design and deliver integrated smart systems that connect buildings, infrastructure, and industries into a single intelligent ecosystem.

Our mission is to empower clients with innovative, reliable, and scalable technologies that enhance efficiency, safety, and digital transformation across every sector — from smart buildings to industrial control rooms and national infrastructure.

ABOUT US

At Mesh Network Systems, we bring the future of connected technologies to today's environment. We provide comprehensive IoT, Building Automation, and Low Current Solutions that transform facilities into smart, energy-efficient, and secure spaces.
Our services span system integration, control solutions, and digital monitoring — combining innovation with reliability to deliver long-term value for clients in governmental, commercial, and industrial sectors.
Through our continuous R&D and partnerships with leading global brands, we ensure every solution we deploy is intelligent, sustainable, and ready for tomorrow.

IOT AND AUTOMATION

The IoT and Automation Department is the innovation core of Mesh Network Systems, driving the digital transformation of buildings and infrastructure through intelligent control and real-time connectivity. This department delivers end-to-end automation ecosystems that enhance comfort, energy efficiency, and operational visibility — from smart homes to industrial control systems.

HOME AUTOMATION & LIGHTING CONTROL

Smart home solutions for lighting, HVAC, shading, and multimedia control, integrated with mobile apps, voice assistants, and IoT hubs.

SMART BUILDING AUTOMATION

Centralized control for lighting, HVAC, energy, and occupancy systems, optimized for comfort and sustainability.

SCADA & BMS INTEGRATION

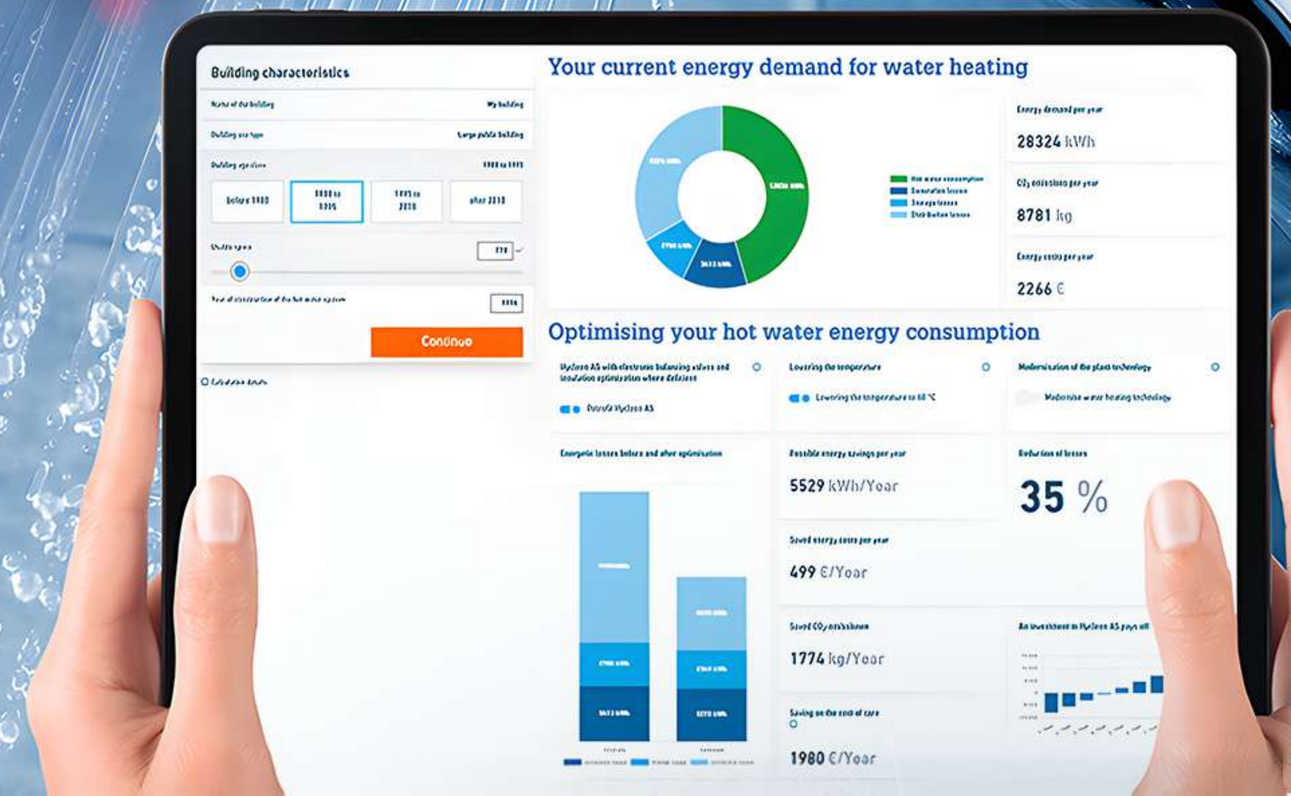
Seamless connection between field devices, sensors, and centralized monitoring systems for real-time analytics and alarms.

INDUSTRIAL IOT SOLUTIONS

Predictive maintenance, remote asset management, and industrial process automation through sensors and edge controllers.

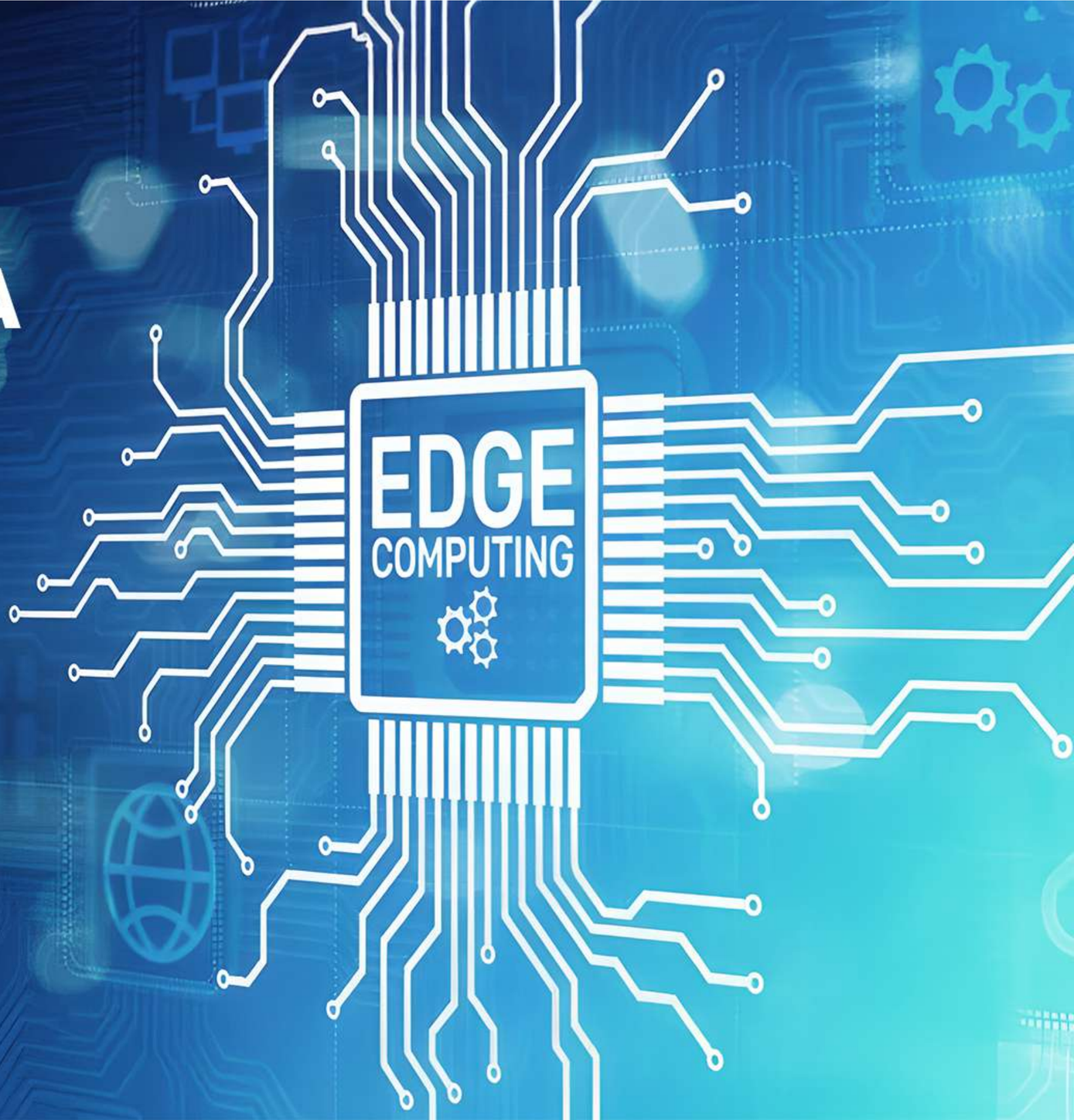
SMART UTILITIES & ENERGY EFFICIENCY

IoT-based systems for water and energy monitoring aligned with Saudi Vision 2030



CLOUD & EDGE DATA MANAGEMENT

Hybrid data infrastructure supporting AI analytics, control optimization, and secure communication.



CORE EXPERTISE

- IoT gateways, PLCs, and automation controllers (e.g., Siemens, Milesight, Schneider, ABB)
- Smart lighting and environmental control systems
- Voice and mobile integration (Alexa, Google Home, KNX, Modbus, BACnet)
- Real-time dashboards and energy optimization
- Cyber-secure communication and device management

VALUE PROPOSITION

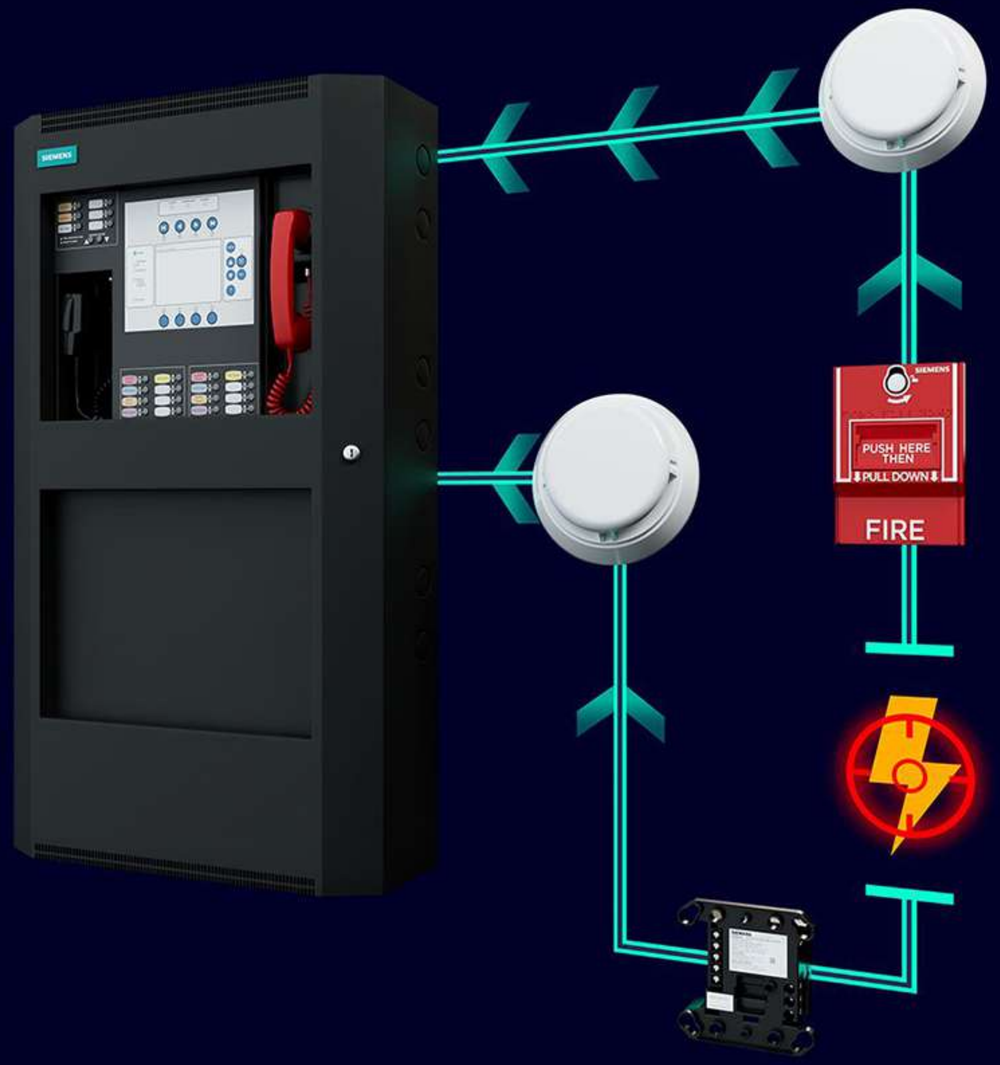
By combining IoT, automation, and intelligent lighting control, the department delivers smart, energy-efficient, and user-centric environments. From villas and offices to industrial control rooms, MNS empowers clients with systems that adapt intelligently, operate efficiently, and enhance everyday comfort and productivity.

SAFETY AND SECURITY SOLUTIONS

The Safety & Security Solutions Department at Mesh Network Systems is dedicated to delivering comprehensive, intelligent protection systems that safeguard people, assets, and operations. Through advanced integration and adherence to international standards, the department provides reliable, future-ready systems for buildings, industrial facilities, and control environments.

FIRE DETECTION & ALARM SYSTEMS

Design, supply, installation, and commissioning of addressable and conventional systems compliant with NFPA and Saudi Civil Defense standards.



CCTV & VIDEO SURVEILLANCE
Deployment of high-definition IP camera systems, video analytics, and centralized video management platforms.
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ACCESS CONTROL & SMART DOOR LOCK SYSTEMS

Integration of RFID, biometric, and IoT-based smart door locks (Dormakaba, Axis, Hikvision, etc.) to secure and monitor entry points.

- Intrusion Detection & Perimeter Security – Intelligent sensors, motion detection, and integrated alarm management for maximum protection.

INTRUSION DETECTION & PERIMETER SECURITY

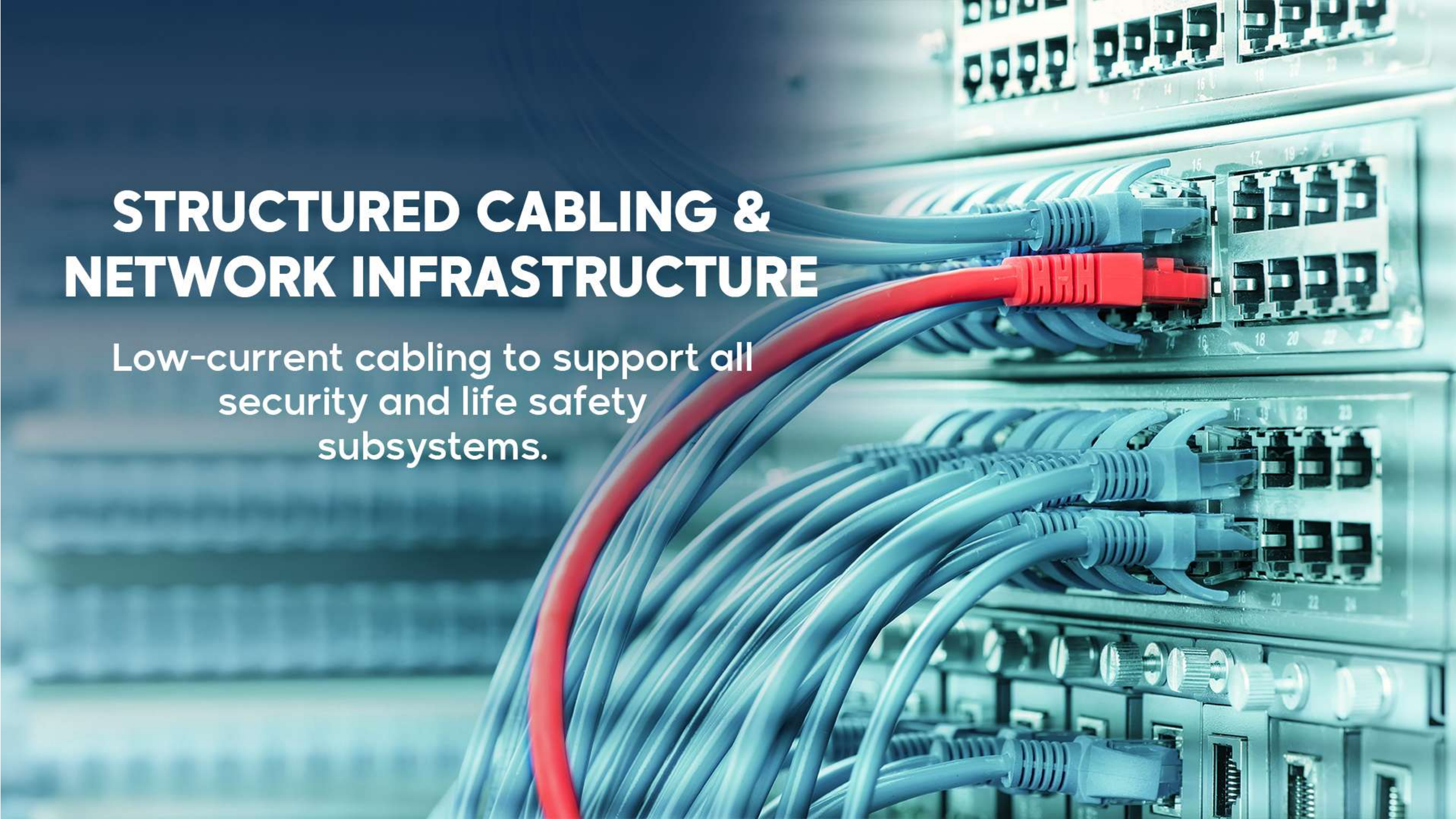
Intelligent sensors, motion detection, and integrated alarm management for maximum protection.

PUBLIC ADDRESS & VOICE EVACUATION

Emergency communication systems linked to fire and evacuation protocols.

STRUCTURED CABLING & NETWORK INFRASTRUCTURE

Low-current cabling to support all security and life safety subsystems.



EMERGENCY LIGHTING & FIRE SUPPRESSION

Integrated life safety controls for reliable evacuation and firefighting response.

CORE EXPERTISE

- NFPA, SCEC, and Civil Defense compliant designs
- IP-based security architecture and cybersecurity integration
- Centralized control via SCADA and BMS platforms
- Smart locks and access management via IoT and cloud platforms
- Preventive maintenance and life-cycle support

VALUE PROPOSITION

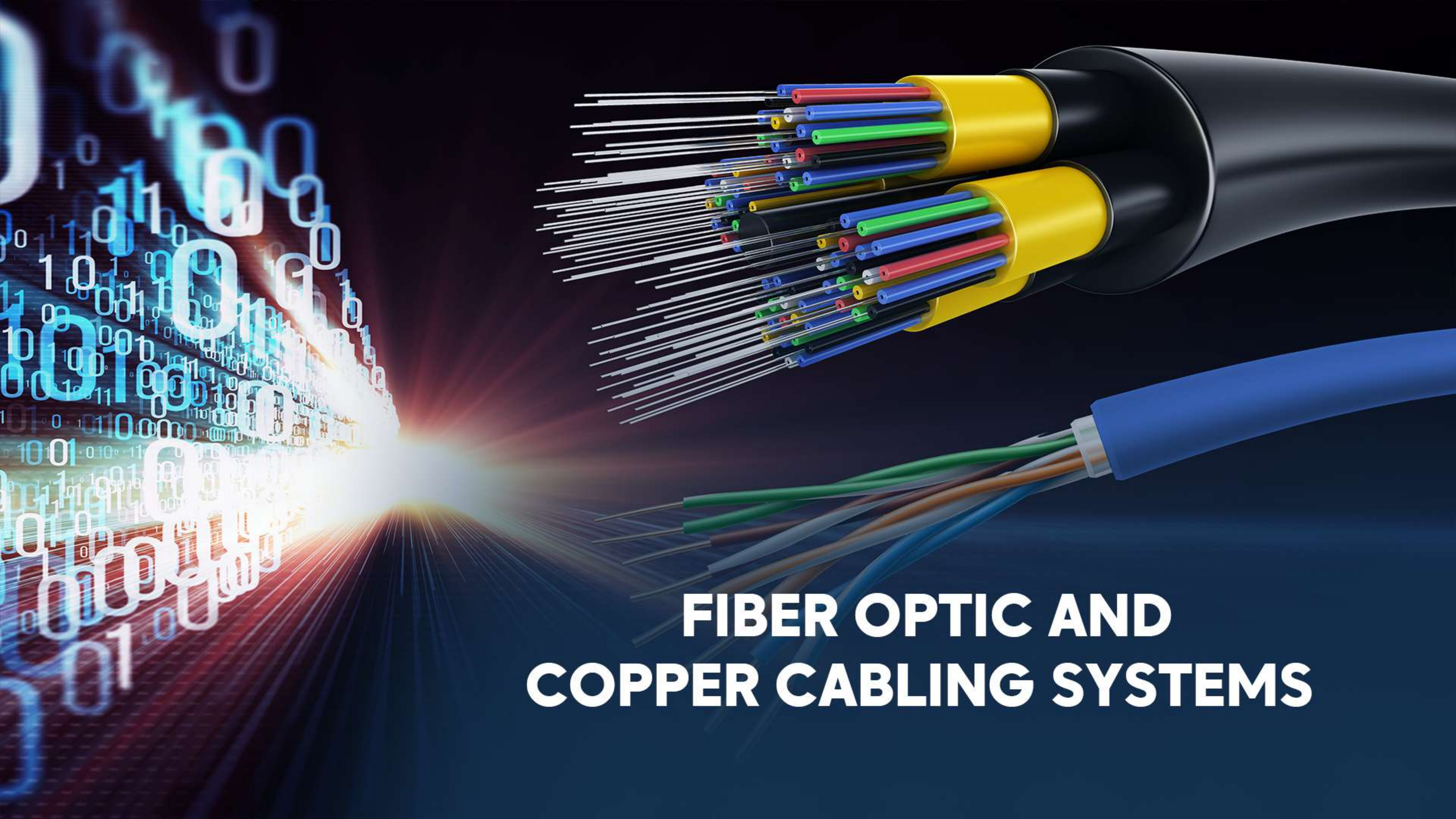
By integrating smart door locks, surveillance, fire, and access control systems, Mesh Network Systems delivers a unified safety ecosystem that ensures maximum protection, operational continuity, and peace of mind. From residential compounds to mission-critical facilities, MNS provides secure, scalable, and intelligent security infrastructure tailored to client needs.

ICT SERVICES

The ICT Services Department provides reliable, scalable, and high-performance communication infrastructure essential for modern digital environments. MNS designs and delivers complete ICT solutions covering structured cabling, active network components, and data-center systems.

PASSIVE & ACTIVE NETWORK DESIGN (LAN, WAN, WLAN)

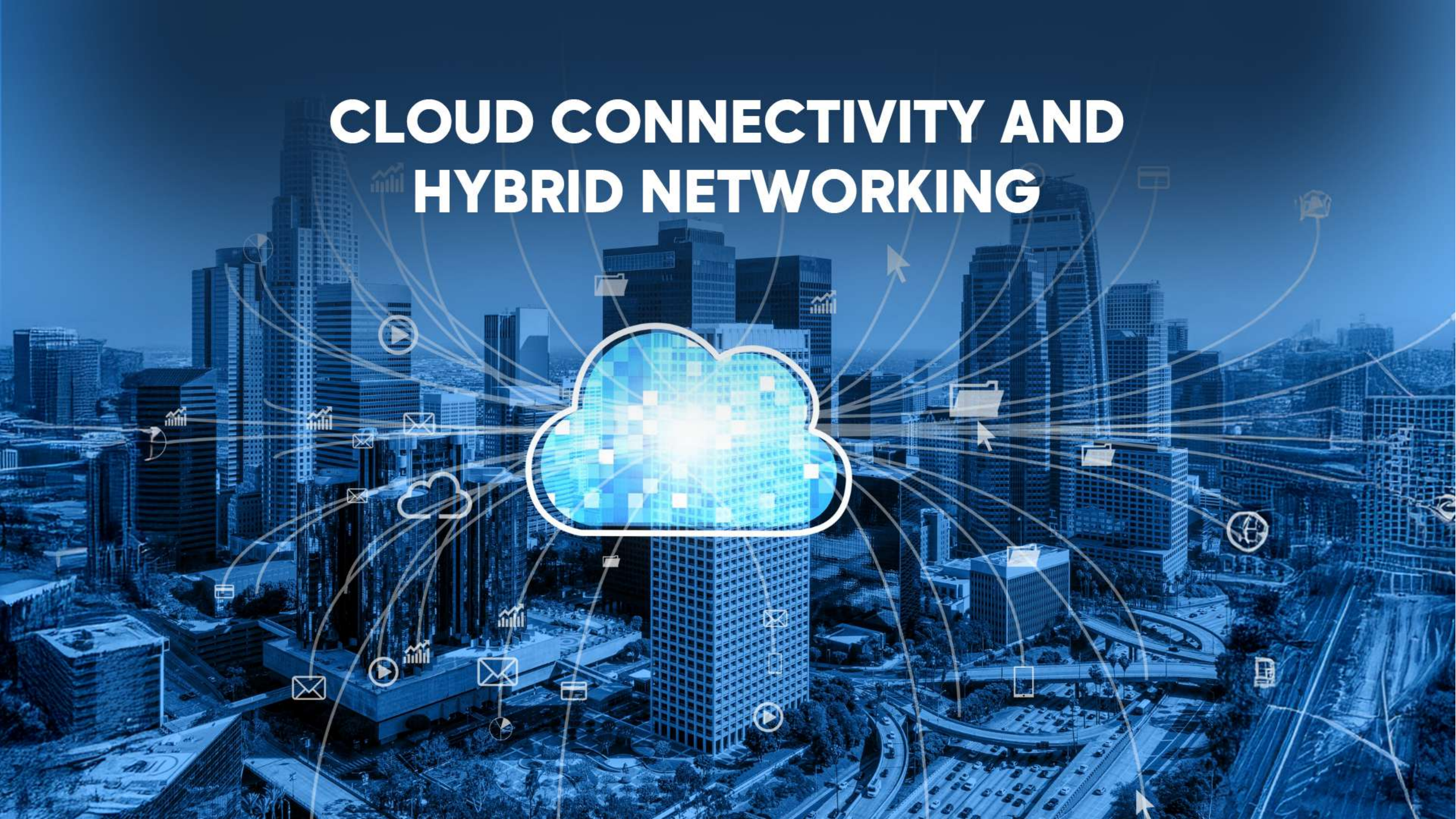
DATA CENTER SETUP
AND SERVER INFRASTRUCTURE


FIBER OPTIC AND
COPPER CABLING SYSTEMS

IP TELEPHONY AND UNIFIED COMMUNICATION

CYBERSECURITY AND NETWORK MONITORING SOLUTIONS

CLOUD CONNECTIVITY AND HYBRID NETWORKING



CORE EXPERTISE

- Certified cabling and switching solutions (Commscope, Cisco, HP, Huawei)
- IT infrastructure audits and maintenance
- Redundant and secure network architecture
- Integration with IoT and BMS systems

VALUE PROPOSITION

Building the digital backbone that connects and sustains all intelligent systems, ensuring secure communication, reliability, and business continuity.

AUDIO-VISUAL AND RADIO-TELECOM SYSTEMS

The Audio-Visual and Radio-Telecom Department delivers immersive communication and broadcasting solutions for government, corporate, and industrial environments. From control rooms to meeting spaces, MNS designs and installs high-performance multimedia and wireless communication systems.

PROFESSIONAL AUDIO AND VIDEO CONFERENCING SYSTEMS

VIDEO WALL AND COMMAND CENTER VISUALIZATION

DIGITAL SIGNAGE AND INTERACTIVE DISPLAY SYSTEMS

RF, VHF, AND UHF RADIO
COMMUNICATION NETWORKS

PUBLIC ADDRESS AND PAGING SYSTEMS

IPTV AND MEDIA DISTRIBUTION NETWORKS

CORE EXPERTISE

- Integration with control systems and unified platforms
- Acoustic and visual design for meeting rooms and auditoriums
- Wireless coverage planning and antenna systems
- Partnerships with global brands (Bosch, Extron, Infiled, Motorola, etc.)

VALUE PROPOSITION

Delivering seamless communication and visualization systems that enhance collaboration, situational awareness, and operational performance.

OUR GLOBAL PARTNERS

At Mesh Network Systems, we collaborate with leading global technology manufacturers to ensure our solutions meet the highest standards of reliability, innovation, and interoperability. Our partnerships span across IoT, automation, ICT, security, and audio-visual technologies — empowering us to deliver end-to-end smart system integration for every client sector.

dormakaba · Wildix · HIKVISION · ABB · TELTONIKA Networks · ITC Enduring Value

COMMSCOPE · AVIGILON · AXIS COMMUNICATIONS · alhua TECHNOLOGY · INFILED · DELL Technologies · biamp.

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