CATALYST
SOLUTIONS

YOUR TECHNOLOGY. OUR SOLUTION.

ENTERPRISE IT INFRASTRUCTURE & MANAGED SERVICES

Comprehensive corporate profile presenting turnkey IT hardware distribution, structured enterprise networking, advanced IP surveillance, unified VoIP communications, and mission-critical IT support contracts.

Catalyst Solutions
Corporate Technology Systems Provider
Serving Commercial, Enterprise & Hospitality Sectors

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1. CORPORATE OVERVIEW & EXECUTIVE SUMMARY

Building high-performance, resilient, and future-proof digital infrastructure

Catalyst Solutions is a full-spectrum Information Technology infrastructure and managed service provider. In an era where digital connectivity, operational uptime, and secure data access dictate business survival and growth, we serve as the vital link between enterprise goals and technological execution. We supply genuine hardware, engineer high-throughput corporate networks, safeguard commercial facilities with intelligent surveillance, deploy multi-branch VoIP telephone exchanges, and deliver 24/7 proactive technical maintenance.

99.9%	100%	< 2 Hrs	360°
UPTIME ARCHITECTURE	GENUINE OEM SOURCING	EMERGENCY SLA RESPONSE	TURNKEY COVERAGE

STRATEGIC PURPOSE

Our Mission

To eliminate operational friction for businesses by designing, implementing, and supporting robust IT and security ecosystems. We enable organizations to focus entirely on their core commercial objectives while their underlying technology operates seamlessly and securely.

FUTURE ROADMAP

Our Vision

To be the most recognized and dependable enterprise technology integration partner across Pakistan and regional business hubs, known for engineering excellence, rapid problem resolution, and transformative client partnerships.

CORE PHILOSOPHY

Quality & Authenticity

We take a strict zero-tolerance approach toward grey-market or substandard hardware. Every piece of equipment—from an enterprise server to structured network cabling—is sourced directly through authorized OEM channels with full manufacturer warranties.

VALUE DRIVERS

Why Partner With Us?

- **Single-Vendor Accountability:** One partner for hardware, networking, VoIP, and security.
- **Engineered for Scale:** Modular architectures that expand as your headcount grows.
- **Certified Engineering:** CCNA and vendor-certified technicians on staff.

OUR END-TO-END ENGAGEMENT MODEL

PHASE	ACTIONABLE SCOPE	DELIVERABLES & OUTPUT
1. Discovery & Audit	On-site survey, network topology analysis, load calculation	Detailed infrastructure audit report and risk assessment matrix
2. Solution Design	Hardware sizing, network schema design, bill of quantities (BOQ)	Transparent commercial proposal, timeline & SLA specifications

PHASE	ACTIONABLE SCOPE	DELIVERABLES & OUTPUT
3. Deployment	Structured cabling, rack mounting, switch/ firewall configuration	Fully labeled, tested, and certified turnkey operational deployment
4. Managed AMC	24/7 monitoring, patch management, rapid on-site troubleshooting	Guaranteed uptime, quarterly preventive visits & executive reports

2. IT HARDWARE DISTRIBUTION & ENTERPRISE NETWORKING

High-reliability computing assets and carrier-grade connectivity solutions

HARDWARE SOLUTIONS

IT Hardware & Workstations

We provide enterprise procurement for corporate workstations, high-compute servers, and user fleets:

- **Corporate Laptops & Desktops:** Business-grade fleets (Dell Latitude/OptiPlex, HP EliteBook/ ProDesk, Lenovo ThinkPad) optimized for productivity and durability.
- **All-in-One (AIO) Systems:** Space-saving, elegant desktop systems for executive cabins, front desks, and collaborative spaces.
- **Workstations for High Compute:** Specialized CAD, graphic rendering, financial analysis, and software engineering rigs.
- **Enterprise Server Racks:** Rackmount (1U/2U/ 4U) & Tower servers (Dell PowerEdge, HPE ProLiant) engineered for virtualization and high-availability databases.
- **Storage Solutions:** Network Attached Storage (NAS - Synology, QNAP), SAN arrays, high-speed enterprise NVMe SSD arrays.
- **Power Backup & UPS:** Online rackmount UPS systems (APC, Eaton) preventing brownout failures and data loss.

INFRASTRUCTURE

Structured Networking & Wi-Fi

Carrier-grade network design ensuring zero latency spikes, robust isolation, and maximum bandwidth:

- **Core Routing & Switching:** Cisco Catalyst, Mikrotik Cloud Router, Aruba & Ubiquiti managed switches (Layer 2 & Layer 3 PoE+).
- **High-Density Wi-Fi 6:** Enterprise Wireless Access Points (Ubiquiti UniFi, Cisco Meraki, Aruba) with seamless roaming, RF isolation, and captive portals.
- **Structured Cabling Infrastructure:** Certified Cat6 / Cat6A UTP/STP and Single-mode/Multi-mode Fiber Optic deployment.
- **Server Room & Rack Architecture:** Professional cable dressing, 42U/24U server rack integration, patch panels, and temperature airflow optimization.
- **VLAN & Traffic Segmentation:** Dedicated subnets for corporate staff, guest Wi-Fi, CCTV, VoIP, and sensitive financial servers.
- **Next-Gen Firewalls (NGFW):** Fortinet FortiGate, Sophos XG, pfSense for deep packet inspection, IPS/IDS, and secure site-to-site IPsec VPNs.

HARDWARE & NETWORK SIZING STANDARD

DEPLOYMENT TIER	RECOMMENDED HARDWARE SUITE	NETWORK ARCHITECTURE
Small Office (10-30 Users)	Core i5/i7 Commercial Desktops, Synology NAS for central backup, 3kVA Online UPS.	Gigabit PoE+ Managed Switch, Dual-band Wi-Fi 6 APs, Cloud VPN Router.
Mid-Enterprise (30-150 Users)	Dedicated 2U Virtualization Server (VMware/ Proxmox), NVMe Storage Arrays, AIO Desktops.	10GbE SFP+ Core Switch, Stacked Access Switches, Next-Gen Firewall, Multi-SSID Wi-Fi.
Large Commercial / Campus	Multi-node Server Cluster, High-Availability SAN, Redundant Power Modules.	Redundant Fiber Ring Backbone, Distributed IDF/MDF Racks, SD-WAN Multi-ISP failover.

Standardization Guarantee: Every network cable run executed by Catalyst Solutions is fluked, labeled systematically at both ends, and documented in a comprehensive network diagram provided upon handover.

3. CCTV SURVEILLANCE & UNIFIED VOIP TELEPHONY

Securing physical premises and streamlining enterprise multi-channel voice

PHYSICAL SECURITY

IP Surveillance & Access Systems

Intelligent security ecosystems protecting commercial assets, staff, and customer premises:

- **AI-Powered IP Cameras:** 4K Ultra-HD Bullet, Dome, and PTZ cameras (Hikvision, Dahua, Uniview) with smart human/vehicle detection and night color vision.
- **Network Video Recorders (NVR):** Centralized 16/32/64-channel NVR arrays configured with RAID 1/5/10 for fail-safe 30-to-90-day archive retention.
- **Perimeter & ANPR:** Automatic Number Plate Recognition (ANPR) for parking facilities and tripwire perimeter boundary alerts.
- **Biometric Access Control:** Facial recognition terminals, biometric fingerprint scanners, and contactless RFID badge gates for staff attendance & server room security.
- **Time & Attendance Systems:** Integrated HR software synchronization for payroll and shift management reporting.
- **Command Center & Mobile View:** Multi-monitor centralized security control room setups with low-latency remote mobile viewing.

TELEPHONY & VOICE

Enterprise VoIP & Intercom Solutions

Modernize your corporate communication infrastructure with crystal-clear, zero-toll VoIP:

- **IP-PBX Telephone Exchanges:** On-premises and cloud PBX servers (Grandstream, Yeastar, 3CX, FreePBX) supporting thousands of extensions.
- **Executive IP Desk Phones:** Multi-line Gigabit color display IP phones with HD audio, Bluetooth headset support, and speed dial banks.
- **Multi-Branch Extension Dialing:** Connect geographically distant branches, warehouses, and headquarters via secure VPN trunking with zero internal call costs.
- **Interactive Voice Response (IVR):** Multi-level automated attendant, department call queuing, voicemail-to-email, and call recording archives.
- **Commercial IP Intercoms:** Video door phone stations, barrier gate intercoms, and public address (PA) broadcast amplifiers for apartments and factories.
- **Softphone Mobility:** Mobile and PC softphone integration enabling staff to answer desk extensions anywhere in the world.

SECURITY & VOICE SYSTEM INTEGRATION MATRIX

SYSTEM FEATURE	CATALYST SOLUTIONS STANDARD	BUSINESS ADVANTAGE
Surveillance Retention	RAID-protected surveillance-grade hard drives (WD Purple / Seagate SkyHawk)	Zero frame loss, protected against drive failures with instant email alert.
Access Control Audit	Encrypted biometric logs with timestamped door sensor triggers	Prevents unauthorized physical entry to sensitive IT and cash handling areas.
Voice Redundancy	Dual SIP trunk failover (Primary Fiber ISP + Secondary 4G LTE Gateway)	Guaranteed incoming customer inquiries even during primary Internet outages.

4. MANAGED IT SUPPORT (AMC) & INDUSTRY SPECIALIZATIONS

Proactive maintenance, rapid emergency dispatch, and vertical expertise

PREVENTIVE & SLA SUPPORT

Annual Maintenance Contracts (AMC)

Eliminate unpredictable IT downtime with our structured corporate SLA plans:

- **Dedicated Helpdesk & Remote Assistance:** Instant remote screen-share resolution for workstation software, email, and OS errors.
- **Guaranteed On-Site Dispatch:** Rapid response within 2 hours for critical server, switch, or firewall failures.
- **Preventive Maintenance Audits:** Monthly scheduled hardware physical cleaning, fan checks, firmware updates, and power inspection.
- **Automated Data Backup & Disaster Recovery:** Scheduled 3-2-1 backup policies for critical file servers, accounting databases, and NAS drives.
- **Vendor Management:** We coordinate directly with ISPs, software providers, and OEMs so you have one point of contact.

DOMAIN EXPERIENCE

Industry-Specific Solutions

- **Corporate Offices & Tech Firms:** Turnkey IT fit-outs, high-speed Wi-Fi 6, server rooms, secure file sharing, and remote work VPNs.
- **Hotels & Hospitality:** High-density guest Wi-Fi with bandwidth throttling, IP-PBX room extensions, keycard door locks, and perimeter CCTV.
- **Apartment Buildings & Real Estate:** Multi-tenant video intercoms, boom barrier RFID vehicle access, and building-wide security monitoring.
- **Factories & Industrial Plants:** Ruggedized industrial switches, long-distance fiber-optic links, outdoor PTZ cameras, and PA broadcast systems.
- **Retail Stores & Supermarkets:** POS terminal networks, barcode printer setups, inventory NAS, and customer count analytics.

MANAGED IT SERVICE LEVEL AGREEMENT (SLA) TIERS

SERVICE METRIC	STANDARD BUSINESS AMC	ENTERPRISE 24/7 AMC	CUSTOM PROJECT SUPPORT
Coverage Hours	Mon–Sat (9:00 AM – 7:00 PM)	24 Hours / 7 Days a Week	As per Project Contract
Remote Response	Under 30 Minutes	Under 15 Minutes	Immediate Helpdesk
On-Site Emergency	Within 2–4 Hours	Within 1–2 Hours	Dedicated Resident Engineer
Scheduled Maintenance	Monthly Physical & Remote Audit	Bi-Weekly Intensive Health Checks	Weekly Continuous Maintenance

5. TECHNOLOGY ECOSYSTEM & ENGAGEMENT ENGAGEMENT

World-class technology brand alliances and immediate commercial contact

Authorized Sourcing & OEM Brand Alliances

Catalyst Solutions integrates and distributes products from world-leading hardware, networking, and security manufacturers. We ensure complete warranty backing, genuine spare parts, and compliant firmware deployment.

Computing & Servers	Routing & Switching	Surveillance & Security	VoIP & Telephony
Dell • HP • Lenovo • Intel • Kingston	Cisco • Mikrotik • Ubiquiti • Aruba	Hikvision • Dahua • Uniview • ZKTeco	Grandstream • Yeastar • Fanvil • Yealink

WHY ENTERPRISES CHOOSE CATALYST SOLUTIONS

CORE ADVANTAGE	THE CATALYST SOLUTIONS COMMITMENT
Turnkey Peace of Mind	You avoid juggling multiple subcontractors. From running copper and fiber lines to configuring domain servers and training office staff, we manage the entire project lifecycle.
Cost Optimization	Direct relationships with equipment distributors ensure that you receive the most competitive pricing on bulk hardware procurement without intermediary markups.
Engineered for Zero Downtime	Every topology is drafted with redundancy in mind—dual power supplies, automatic link failover, RAID disk arrays, and offsite automated backups.
Transparent Commercials	Comprehensive BOQ line items with explicit part numbers, clear warranty documentation, and no hidden maintenance clauses.

LET'S BUILD YOUR DIGITAL INFRASTRUCTURE

Whether you are establishing a new office, upgrading an outdated network, enhancing building security, or seeking a dependable Managed IT Support partner, Catalyst Solutions is ready to assist.

Motto: **Your Technology. Our Solution.**

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RECENT BUSINESS ASSOCIATIONS

Companies and organizations we have recently worked with / supported

Al-Jadeed Properties

MS

HK

Libermann International

The Avenair

Aerion

Vital Group

US Apparel & Textiles

KeenClaim

State Life

Hyundai

WT Enterprises