



COMPANY PROFILE

@techcrowd



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ABOUT US

Tech Crowd FZE is an IT & Telecommunications Solutions Provider. Tech Crowd provides IT & Telecommunications solutions to various industries including Energy, Oil and Gas, Utilities, Government, Banking and Finance and Health Care. Tech Crowd offers a wide range of solutions to suit various applications and requirements involving the following:

- IT, Networking & Security Solutions (including Servers, Storage, Video, Voice, Data & Specialized Systems).
- Telecommunications Infrastructure Solutions (WAN/LAN, Transmission, Physical Security & Specialized Systems).
- Data Centre Infrastructure Solutions.



Tech Crowd is committed to its customers and intends to be the leading solutions provider providing cost-effective solutions, designed, and supported locally in UAE.

Our Vision

To be the most preferred & most efficient IT solutions provider in the UAE.

Our Mission

To deliver innovative, cost effective and robust IT solutions that provide great value to our customers & help them achieve their business goals.

Core Values

Customer centric approach, honesty, integrity & transparency in all our processes.

Effective People

We have a team that believes in doing their job right. We provide a work atmosphere for our employees that is challenging & rewarding. This in turn, helps us achieve our business goals with ease. We seek to create an environment where people become dynamic, creative and can make a difference by giving them the full freedom in realizing their fullest potential.

Commitment & Ethics

We deliver what we commit to, with the highest standards of personal and corporate ethics.

Encouraging Relationships

We believe in focusing on creating value and trust by understanding the fact that relationship building is a long process, not a shortevent.

Dedication & Ownership

We understand your requirements and deliver high quality services by leveraging the resources and know-how of our business with



Conceptual Engineering & Design

We can initially develop the system concept design in a vendor independent manner to allow for the most advanced and costeffective solutions.

In addition, Tech Crowd provides services to conduct the tendering process or support the client from vendors/bidders' prequalification and invitation phase through issuing the tender and requesting for submitting bids up to bids evaluation and contract award. Whether it's large, complex project or a small upgrade, Tech Crowd delivers a multi-disciplinary approach across different market segments.

Detailed Engineering & Design

Our staff is experienced in all aspects of engineering design and can carry out both basic engineering and detailed engineering design tasks. We have a good understanding of the process requirements and specifications used by most of the main corporations in the region.

Installation, Testing, Commissioning & Maintenance Support

Our staff is experienced in all aspects of system installations, end to end testing and commissioning. We undertake UAT's (User Acceptance Tests) at sites & integrated FAT's (Factory Acceptance Tests) to simulate exact site deployment scenarios. Further, Tech Crowd also offers support & maintenance services for systems already operational, fetching our customers the benefits of preventive maintenance, corrective maintenance, spare parts support & on-call/tech-support based on flexible KPI's.

IT, Networking & Security Solutions

Tech Crowd's IT, Networking & Security portfolio designs & delivers integrated IT/Networking solutions and provides the security in and around them; from wired and wireless infrastructures in your buildings and campuses, up to optical and virtual fiber solutions to link your branches. We help you deliver end-to-end communications, delivering voice, video and data allowing your business users collaborate closely across geographically spread locations; we can help you secure such communications with leading edge products from select partners in the field.



Networking, Routing & Switching

Scale your network performance and reliability with industry leading network services, integrated service modules, powerful wireless solution and validated design guides. Tech Crowd's portfolio of network infrastructure solutions is complete End-to-End solution for router, switches and mobility solutions.

- Routing: Tech Crowd can help deliver world class routing platforms.
- Switching: Tech Crowd portfolio of network switching starts from basic access layer switch to multilayer core switching and high-performance datacenter switches.
- Mobility Solution: Tech Crowd mobility solutions help businesses move beyond bring-your-own-device (BYOD) access to establish a true enterprise mobility strategy. The performance of wired network and mobility of wireless solution are combined to get high performing, easy to use networks.

Unified Collaboration Systems

Tech Crowd unified collaboration solution deliver from basic IP telephony solution for SMB to large enterprises. We deal in unified communications, call-center, presence services, fax solution, call recording and billing solutions and much more to give our client high tech productive environment with freedom for connection from everywhere and any device. Stay connected and productive with messaging, presence, enterprise social, and IP telephony services.

Next Generation Security Solutions

Tech Crowd's family of security products UTM, next generation firewalls (NGFW), intrusion prevention systems (IPS), web application firewall (WAF), Web Filtering solution, and wireless security delivers high performance and advanced protection from sophisticated threats while simplifying your network. Our diverse product line of complementary solutions enables businesses and governments to consolidate stand-alone products, embrace new technologies and pursue business opportunities while remaining secure.

Servers and Storage

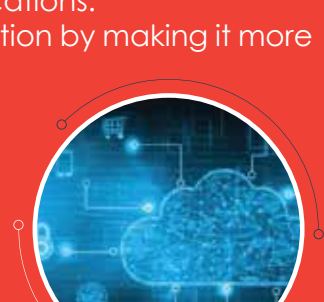
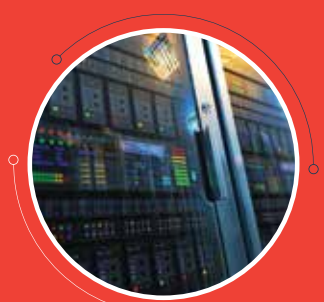
Tech Crowd offers a complete portfolio of servers designed from ground up with new data center trends and reality in mind, offering the foundation for several popular infrastructure-as-a-service (IaaS) offerings, private cloud deployments, and enterprise applications.

Tech Crowd offers a complete portfolio of storage systems, NAS subsystems and content platforms to optimally consolidate your storage infrastructure and give you best-in-class availability and performance to meet the needs of your business applications.

Thereby allowing customers to transform raw data into valuable information by making it more accessible and simpler to manage.

Virtualization

Tech Crowd offers a complete portfolio of hypervisor and virtualization technologies that form the critical foundation of a virtualized infrastructure complete with built-in migration, aggregation, allocation, and availability services. Our designed virtualization platforms deliver all the below aspects:



- Aggregation: Shared Pools of Resources
- Allocation: Elastic Pooling of Resources
- Availability: Flexible, Uniform High Availability
- Storage Management: Integrated for Easier Management

Data Management

Tech Crowd offers a complete portfolio of data management software built from the ground up on a single platform and unifying code base for integrated data and information management. All functions share the same DNA and back-end technologies to deliver the unparalleled advantages and benefits of a truly holistic approach to protecting, managing and accessing data. Our offered solution platforms contain individually licensable modules to Analyze, Replicate, Protect, Archive, and Search your data. And because these modules share a common set of back-end services and advanced capabilities, they effortlessly "talk" to one another through the platform to solve a myriad of problems related to the storage and access of your data and information.



Using market-leading technologies from various manufacturers, Tech Crowd can offer packaged solutions for customers, including:

- Data Center Migration
- Server & Storage Consolidation
- Virtualization
- Private Cloud
- Backup & Recovery/Disaster Management
- Protection & Management of Virtual Machines
- Email Archiving & Enterprise Applications

Telecommunications Solutions

Tech Crowd is experienced in the design, integration, and installation of a range of products and systems including optical and Microwave transmission systems including SDH, PDH, IP Transport, DWDM, CWDM, RF Survey, RF Planning & Optimization, Multiservice IP/MPLS, Passive Optical Networks (PON), XDSL and Digital Microwave Radio.

Tech Crowd is also experienced in supply, installation, testing and commissioning services for fiber optic cables including underground, aerial (ADSS), OPGW, transmission systems and wireless point to point and point to multipoint such as WIFI, WIMAX, MESH and TETRA.

Tech Crowd provides systems and services for Outside Plant (OSP), Power Supply Systems, Solar Power, Shelters, Passive Cooled Shelters and Towers. Tech Crowd is equipped with competitive resources for the timely execution of projects with good quality standards.

Tech Crowd's Telecom Portfolio provides end to end solutions that can be broadly categorized as follows:

1) Core Backbone/Transmission Solutions

- DWDM, SDH, GPON, PON Systems
- IP, MPLS, MPLS-TP Systems



2) Last Mile Connectivity Solutions

- Point-to-multipoint wireless broadband, LTE, WiMax
- GSM-R and GPRS
- VHF/UHF Trunked Radio Systems (Analog, MPT & TETRA)
- VHF ground-to-air radio, VHF marine radio
- EPIRB, AIS, SART
- HF-SSB Radio
- RFID based asset tracking Systems
- PA/GA, PA/VA, intercom/paging
- LAN/WAN
- IPBX/PABX telephony, hotline, DECT
- Structured cabling, outside plant cabling (copper and fibre)
- Network monitoring and management systems
- Master/Slave clock systems
- Weather monitoring systems
- Man down and Person On Board Systems
- Industrial IT Infrastructure Systems (ruggedized switches, converters, routers, gateways)
- Vehicle Tracking System (GPRS/GPS based)
- Equipment Racks, Trunking Systems
- Passive Cooled, Active Cooled and Hybrid Cooled Telecom Shelters
- Power Supply Systems (UPS/Battery-Packs/Solar, DG Sets)
- Telecom Towers and Masts (for microwave, CCTV, solar, PAGA etc.)



3) Specialized Solutions

- Digital Power Line Carrier and Teleportation Systems
- Aerial Fiber Optic Systems (OPGW, ADSS, Wire Wrapped Fiber Solutions)
- Pipeline Intrusion Detection and Pipeline Leak Detection Systems (for oil & gas, water, wastewater etc.)
- Distributed Fiber Optic Based Temperature Sensing Systems (for oil & gas, electricity, water)
- GPRS based water and power meters
- Solar Based CCTV Systems
- School Bus Monitoring Systems



Data Centre Infrastructure Solutions

Tech Crowd's Data Center, Site & Power portfolio builds data centers from ground up; from site preparation, insulation panels, electro/mechanical works, life safety & security systems, and in collaboration with the Data Center IT, Networking & Security Department, all the way to networking, computer, storage, and virtualization solutions. We deliver your new infrastructure ready for the installation of your critical business applications and databases, and walk you through to your environmental monitoring and systems management as well as data protection and information management. We can even assist you to certify it according to TIA-942 Tier Level of your choice. Our Integrated Infrastructure products and services include:

- IT & Telecom Cooling - Precision Cooling, Enclosures & Containment Systems
- Power Management – UPS, Power Distribution, PDU, Data Center Electrical Works
- Standby Emergency Power
- Data Center Cabling – Optical Fiber and High-speed Copper
- Environment Monitoring & Data Center Infrastructure Management
- Site Preparation
- Safety & Protection Systems
- Integrated Surveillance & Access Control
- Special / Custom Applications – Mobile / Containerized Data Centers & Telecom Tower Compounds



Special/Custom Applications

Tech Crowd extends this site preparation, power management and power generation expertise to specific applications including containerized data centers, mobile data centers, telecom shelters and tower compounds.

Mobile / Containerized Data Center

The perfect temporary data center to bridge the duration of alterations, expansion measures or relocation, but no less ideally suitable as a permanent IT or server room. The absolute highlight is the innovative direct free cooling, which bring savings of up to 40% on the usual costs for cooling. At the same time, the container guarantees seamless integration of a UPS, fire alarm/extinguisher system, power distribution, raised floor, access control and monitoring functions.

Integrated Surveillance & Access Control

Our partner of choice in surveillance and access control systems in modern building in general and in the data center in particular is Honeywell. Honeywell carries a complete range of products that are tightly integrated among each other and into third-party systems including directory services, barrier systems, etc. Our solution includes:

- CCTV Cameras – dome, PTZ
- Digital Video Recorder and Storage Systems
- Access Control Servers
- Proximity / Biometric / PIN Readers
- Electronic Door Bolts & Locks

Safety & Protection Systems

Fires are a serious risk to businesses. Cable-rack and equipment fires could significantly impact communications and result in failure to deliver basic services to customers, ultimately slashing revenues., and cause immeasurable negative impact on consumer confidence. Due to the density of computer equipment and data in a computer room, the degree of potential damage that could occur from both a fire and conventional fire-extinguishing systems is unacceptable. Tech Crowd has therefore carefully selected our product range and partners for Safety and Protection Systems, covering simple fire suppression to sophisticated fire prevention systems.

Fire Suppression

Tech Crowd's fire suppression solutions are designed on a fixed pipe and nozzle arrangement using a pre-engineered concept, providing protection for Class A, B and C type fires. NOVEC 1230 System designed to extinguish fires involving flammable liquids., gases and electrical equipment. NOVEC 1230 extinguishes fires by a combination of physical and chemical means. It does not significantly deplete the oxygen content in the room and tests have shown it to be less toxic than Halon 1301. Safety and Protection Systems, covering simple fire suppression to sophisticated fire prevention systems.



FM200 System

is another Halon 1301 replacement agent with zero ozone depletion potential (ODP) suitable for total flooding. Clean Agent HFC227ea System is an effective total flooding agent suitable for use on Class A surface burning fires, Class B flammable liquids fires and fires on electrical equipment. On a weight of agent basis FM200 System is a very effective gaseous extinguishing agent. The FM200 System extinguishing concentration for normal heptane (cup burner method) is approximately 5.8% by volume. The minimum design concentration for total flooding applications is 7% in accordance with NFPA 2001.

Fire Prevention - Preventing the Ignition Process

Fire Prevention and Suppression System comes with a fire-preventative norm baric hypoxic environment that provides the ultimate solution for the fire safety problem in computer rooms. The system works efficiently by providing effluent ventilation of the protected facility with hypoxic (oxygen depleted) air produced by special generators just from ambient air. This creates a comfortable human-breathable atmosphere inside a facility, in which nothing can ignite or burn. This environment corresponds in partial pressure of oxygen to the altitude of 9,000', is completely safe for people. This environment can be used as an alternative, which enhances the conventional fire-safety means without interfering with their performance, or even providing synergistic fire-safety effect. There is no need to remove an existing sprinkler system from your premises, simply because it will never be activated. Physically preventing the ignition process, the system reduces risk (as well as the fire-extinguishment related damage risk) virtually to zero.

Site Preparation

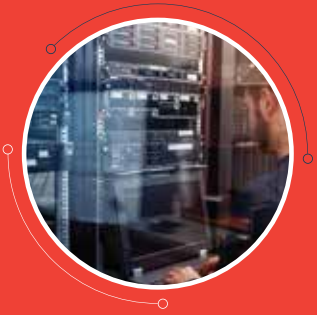
The Data Center site preparation pertains to civil works that delivers the following:

- Fire-rated partition / insulation system
- Fire-rated door
- Raised flooring and ramp
- False ceiling
- Lighting system

Tech Crowd designs the solution for each customer according to their requirements, complying with industry standards, local regulations and vendor's best practices. Tech Crowd helps its customers from site selection all the way to post-installation assessment. As the basic elements forming the data center build, we carefully select our partners in this portfolio including compliance with ISO manufacturing processes, safety accreditations and conformance to environmental codes and regulations.

Environment Monitoring & Data Center Infrastructure Management/ Environment Monitoring

Tech Crowd's Data Center portfolio is not complete without environment monitoring and alarm system that is flexible and support complete features of environment monitoring and security management concept for preventive protection and to guard against follow-on costs. At the same time, it offers consolidation point for connecting to facility management. Our sensors and monitors include the following as a minimum:



- Water Leak
- Power
- Temperature
- Humidity
- Fire

Management

Tech Crowd provides Data Center Infrastructure Management (DCIM) platform for all components in a data center infrastructure, from power supply and power distribution, to cooling, through to the security system. The DCIM provides:

- Energy optimization in the data center
- Simple project management
- Automatic detection of Rittal components
- Increased security and reliability of the data center
- Incorporation of building control system components
- Linking of the physical data center infrastructure into a network management system
- Linking and monitoring of all IT devices via SNMP protocol



Data Center Cabling

Optical Fiber and High-speed Copper Cabling Systems Often overlooked in many data center and SAN projects, the cabling inside the data center is a critical component in the successful delivery, operation and maintenance of the IT systems. In particular scalability, moves, adds and changes (MACs), availability of key product information and the ability to get the product in the shortest possible time is critical. Our partners, Corning Cable Systems are market leaders in this field. Corning pre-terminated optical fiber and highspeed copper (Cat 6A and above) cabling systems designed to dramatically streamline the process of deploying an optical / highspeed copper networking infrastructure in the data center. This innovative, value-added system significantly reduces installation time and cost. Modular, pre-terminated components of the system are simple to configure and can be installed, connected and operational in a fraction of the time when compared to using conventional, field-terminated methods. The system's polarity-maintaining modular components guarantee compatibility, flexibility and excellent system performance for all optical configurations. The universal wired modular components make networking moves, adds and changes simple, fast and easy to complete with minimum disruption to neighboring areas.



Tech Crowd ensures that:

- All cables will be laid on proper cable tray as per TIA-942 standards
- The routing of all copper and fiber cabling will be in a different containment (suspended) in order to avoid any interference with the power cabling.
- Patch panel and cables labeling follows ANSI/ TIA/EIA 606-A Standard
- All cabling will be terminated as per ANSI/TIA/EIA 606-A Standard and the supplier practice with proper and comprehensive labeling scheme
- A certified testing result will be submitted for all installed cabling works

Standby Emergency Power

For any application where mission-critical operations require an uninterrupted supply of power, emergency standby power is a must. High-availability of power translates to success in many industries, whether this power is used to meet uptime requirements of data centers and telecom cell sites, supporting life-saving procedures in health centers or ensuring continuous operations of critical financial transactions. Tech Crowd's partners for standby power systems provide integrated and sustainable solutions. Our generator systems are powered by Cummins or Perkins, delivering continuous energy to maximize success, minimize risk, and comply with life and safety codes.



Our Portfolio Includes:

- Diesel generator sets from 4 kW to 2.7 MW
- Automatic Transfer switches from 20 amps to 3,000 amps
- Sound-attenuated enclosures
- Integrated smart technology digital controls
- Reserve fuel tank and piping systems
- Site preparation and build

Power Management

Tech Crowd's power management solution includes:

- Uninterruptible Power Supplies (UPS),
- Power Distribution Racks (PDR) and
- Power Distribution Units (PDU)



Data Center Electrical Works

Tech Crowd is providing the following solutions for the Data Center electrical cabling and containment systems:

- Electrical Cabling - Data Center Feed
- Generator Set to Automatic Transfer Switch (ATS) Panel
- Main Utility Room to ATS
- Electrical Cabling - Inside Data Center
- ATS Panel to Sub-Main Distribution Box (SMDB)
- SMDB to non-IT load
- SMDB to UPS
- UPS to Load DB
- Load DB to Rack Power Distribution Unit (PDU)
- All required electrical cable containment e.g. GI frames mounted under the Raised Flooring
- All electrical cables installed on electrical cable containment
- All electrical sockets to be fitted in cable tray with holder
- All sockets installed within Data Center shall be industry standard and IP 65 rated
- All existing power outlets above the Raised Floor will be relocated under it
- Electrical Ground / Earth



IT Cooling (Precision Cooling)

Tech Crowd's portfolio of IT and Telecom Cooling solutions encompass single server rack requirements, small computer rooms and telecom shelters to large enterprise applications spanning one or more data centers.

Our high efficiency data center cooling systems offers more cooling for less power and ensures stable environment and improved availability.

Our technology partners, offer in-rack, in-row, suite-based or traditional room-based cooling using either Chilled Water (CW) or Direct exchange (DX) or a combination of both to deliver the required capacity and availability.



Enclosures & Containment Systems

Tech Crowd's IT enclosures and containment systems range from single network/server rack for small computer rooms all the way to multiple racks tightly integrated to Precision Cooling solutions used in medium to large data centers.




Our technology partners offer multi-functional rack enclosures designed around customer feedback from around the world. These enclosures are built to meet current IT market trends and applications catering for high density computing and networking as well as broadcast and audio-video. Designed with cooling, power distribution, cable management and environmental monitoring in mind, our rack enclosures provide a reliable rack-mounting environment for mission-critical equipment.



TECHCROWD F.Z.E.

@techcrowd



 (+971) 67011555
(+971) 543037079

 gm@tech-crowd.net

 CR No: 29918

 1st Floor, Business Centre-1302596,
Ajman Free Zone-B1, Sheikh Rashid
Bin Saeed Al Maktoum Street, Ajman,
United Arab Emirates.