



SERVER ROOM **INFRASTRUCTURE SERVICES**

ALMOND TRADING ENTERPRISES is a leading supplier of products, equipment and Server Room Infrastructure Services to various clients and leading IT Companies viz Bhawan IT, Khimji IT, IITC, Nasma Tel, OCS Infotech, Baabood , Intertech, IMTAC, MHD Infotech, Jawad Sultan, Bishara Establishment, Seven seas Infotech and many more in Sultanate of Oman.

Our Server Room Infrastructure Products and Services are:

1. FirePro – Automatic Fire Extinguishing Aerosol System

New Technology in Automatic fire extinguishing Aerosol system have been designed for extinguishing both early stage fire, advanced fully developed fires and for the protection of Equipment, building and premises against fires by means of automatic fire extinguishing.

FirePro products are certified and listed by Underwriters Laboratories in the USA and Canada, as well as the British Standards Institute and KIWA in Europe. FirePro generators are manufactured with a certified shelf life of 15years, they are environmentally and ecologically friendly, non-toxic and non-corrosive, with Zero Ozone Depletion Factor & Zero Global Warming Potential.

FirePro Products extinguishes the Fire by Inhibiting the Chemical chain reaction in combustion on a molecular level. It removes the flame free radicals and extinguishes the fire at the source itself. It extinguishes fire not by oxygen depletion or cooling, as suggested by the traditional triangle of fire, but by interrupting the chemical chain reactions occurring in the flame

Website: <http://firepro.info/>

2. ZETA –Aspiration Smoke Detection System (VESDA)

The FyreSense Aspirating Smoke Detection System uses fans to draw air from the protected area via pipes and sampling holes. The air is then passed through a high sensitivity detector. FyreSense has many advantages over ceiling mounted point detectors, such as;

- Higher sensitivity
- Lower installation and maintenance costs
- The detectors can be situated away from harsh environments
- The air can be filtered or heated before reaching the detectors
- Easier to maintain in areas such as Data rooms, ceiling voids or under floor boards
- Ideal for use where aesthetics are important or where the application must be vandal proof
- Better performance where there are high ceilings, high air speeds or smoke stratification

<http://www.zetaalarmssystems.com/fire-alarm-systems>

3. Unitile – Raised Access Floors

Raised Access Floors create a plenum space, where high concentrations of power /data cabling and other mechanical services are concealed between the floor slab and the raised access floor. These under floor services remain easily accessible due to the modular design of raised access floor system, thus reducing reconfiguration costs and time of the distribution of critical services.



SERVER ROOM INFRASTRUCTURE SERVICES

It comprises of modular floor panels laid in a horizontal grid supported by height adjustable vertical pedestals to provide an under floor space and Stringer for connecting pedestals together to provide lateral strength.

UNITILE products have proved their mettle as they successfully meet the rigorous standards of quality that comply with the strictest testing procedures. United Group conducts all tests of international levels that examine the entire systems using under structure rather than only the panels manufactured.

UNITILE Solid fill (USF) Cementitious Panels : USF Cementitious panels measure 600mm X 600mm Panels are resistance welded before being filled with a lightweight cementitious infill. Each panel has hemispherical reinforcing pockets on the underside to enhance structural strength. USF panels are non-combustible and are coated with electrostatic epoxy paint.

UNITILE Wood core (UWC) Panels : UWC panels are 600 x 600mm square with a high-density chipboard core fully bonded and encapsulated within a casing of corrosion-resistant galvanized steel. The panels are engineered to fine dimensional tolerances for modular control, accurate alignment of grids and inter-changeability of panels and also for prevention of creep.

UNITILE Calcium Sulphate Panels : Calcium Sulphate Floor Panels are manufactured from 1,650 Kg fibre reinforced Calcium Sulphate which forms the core of the panel. The panel top is antistatic HPL laminated with the bottom being epoxy painted / GI (Galvanized) laminated. The edges of the panel are protected with a PVC edge band.

UNITILE ACCESSORIES

<p style="text-align: center;">UNITILE Perforated panel with 27% Air flow</p>		<p style="text-align: center;">UNITILE Grating panel with 46% Air flow</p>	
<p style="text-align: center;">UNITILE Special Perforated panel with 55% Air flow</p>		<p style="text-align: center;">UNITILE Aluminum damper with perforated / grated Panels</p>	
<p style="text-align: center;">UNITILE Brush Grommet</p>		<p style="text-align: center;">UNITILE Panel Lifter</p>	
<p style="text-align: center;">Stringer Cap / stringer (One panel required 04 Each)</p>		<p style="text-align: center;">Pedestals Pedestal Cap Stringer Screws (As one set)</p>	



SERVER ROOM INFRASTRUCTURE SERVICES

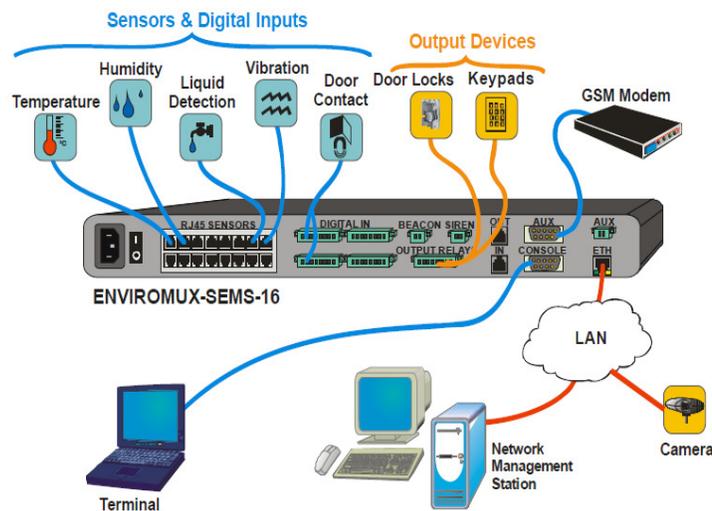
4. ZETA – Fire Alarm Systems and Emergency systems

Zeta product range incorporates conventional & analogue addressable fire detection systems, fire fighting telephone systems, voice evacuation systems, carbon monoxide & combustible gas detection systems and Emergency systems

Website: <http://www.zetaalarmsystems.com/>

5. NTI's Server Environment Monitoring System

The ENVIROMUX Server Environment Monitoring System monitors critical environmental conditions, such as Temperature, Humidity, Liquid / Water presence, Motion, Intrusion, and Vibration. When a sensor goes out of range of a configurable threshold, the system will notify you via email, LEDs, Alarm Beacon, Siren, Web page, Network Management (SNMP), Voice Phone Calls (via Automatic Voice Dialer System), and SMS messages (via GSM modem).



6. PREVENEX – Never a Fire Hypoxic Fire Prevention

The fire ignition threshold of air is 16.2% oxygen. By constantly maintaining a hypoxic state of air in the prevention area of 14-16% oxygen, ignition of class A, B, and C fires can be prevented. The chart also shows that human blood oxygen saturation levels remain in a safe range. No fire, no smoke, no damage.

Hypoxic fire prevention has eliminated the need for fire suppression. Traditional means of suppression like water and chemical agents often caused as much damage to assets as the fire itself. With Prevenex's hypoxic solution, there is no water, no chemicals and no damage. Prevenex's revolutionary hypoxic fire prevention method removes a small portion of the oxygen before the fire ever ignites. This completely eliminates the chance of fire and the need for fire suppression. The benefits are obvious - no fire, smoke, water, or chemical damage, and no risk to human life.

Website: <http://prevenex.com/>



SERVER ROOM INFRASTRUCTURE SERVICES

7. **Electrical Installations**

Electrical wiring / Installations in general refers to insulated conductors used to carry electricity in building, **Server rooms and /or associated devices, equipment** within specific national and international electric codes and standards. The power supply installations comprise all installations for the generating, conversion, storage and distribution of electrical energy.





SERVER ROOM **INFRASTRUCTURE SERVICES**

Electrical Installations we are extended but not limited to the following

- UPS Installation
- Installation of PDU
- Earthing and Bonding
- PDU Power monitoring
- Energy Management system
- Supply of Power measurement products
- Supply and Installation of Light Fixtures.
- Power distribution through Industrial Sockets
- Supply and Installation Electrical cabling
- Supply and Installation of Cable Trays and Trunking
- Design and Installation of Panel Boards/Distribution boards

8. Fire Dampers

Fire dampers are designed to operate as an integral part of engineered smoke management system for building controls, and are used in walls, ceilings and floors. They are suitable for both dynamic and static systems. Fire Dampers are required by the International Uniform Building Code to maintain the required fire resistance rating of walls, partitions, and floors when they are penetrated by air ducts or other ventilation openings. Fire Dampers are tested and certified by various international authorities such as UL, AMCA, CERT, AIRE and have been classified for fire & safety applications

The Dampers can stand up to the toughest and most demanding environments and can be custom-built to meet the exact needs of virtually any ventilation or process application.

Website: <http://beteccad.com/>

9. Server Rack Level Access Control Solution

Data is under constant threat, and physical security is the crucial part of protecting that information. Our patent-pending solutions provide perfect security at access points throughout your enterprise, from the building's entrance to the server cabinet doors in the data center. Compatibility with enterprise systems ensures that your investments are elegantly maximized. And while our customers have never experienced a single security breach through db technology, unauthorized access attempts – including those under duress – trigger alerts for immediate response for the highest level of security. And with an indisputable audit trail, you'll have an ironclad record of all activity to maintain compliance.

Stopping access control at the data center door provides no protection against insider theft. That's why every data privacy rule and regulation – PCI DSS, HIPAA, FISMA and more – considers the protection of physical assets to be as important as protecting the data stored or processed in those assets. The db Server Rack Family delivers the highest level of compliance with an indisputable audit trail covering all server cabinet access. When paired with db Nexus, that audit trail covers the entire enterprise.

Website: <http://www.digitus-biometrics.com/products/>



SERVER ROOM **INFRASTRUCTURE SERVICES**

10. Data Loggers

ONSET data logging enable you in getting accurate and reliable data from different source and to track the data continuously by data loggers, external sensors, software and accessories etc. The four main types of data loggers are stand-alone data loggers, web-based data logging systems, wireless data nodes, and Bluetooth Low Energy (BLE) data loggers.

Data logger is an electronic instrument that records measurements at set intervals over a period of time. Depending on the particular data logger, measurements can include: air temperature, relative humidity, AC/DC current and voltage, differential pressure, time-of-use (lights, motors, etc.), light intensity, water temperature, water level, dissolved oxygen, soil moisture, rainfall, wind speed and direction, leaf wetness, pulse signals, room occupancy, plug load, and many more.

Website: <http://www.onsetcomp.com/products>

11. Supply & Installation of Dehumidifiers

We do supply and installation of dehumidifier in Server room, Telecom rooms, ware houses etc.

A dehumidifier is for removing moisture content from the air. As you can imagine, the accumulation of moisture results in water. So a dehumidifier is removing water from the air. Hence the capacity of a dehumidifier is defined in terms of removal of water. So the water removal can be measured in terms of the litter per hour or pint per hour. This defines how many litters of water can be removed by the dehumidifier per hour and per day. So if you have a high humidity and want to reduce drastically, you will need higher capacity of water removal in terms of the litter per hour. Similarly, if you have a huge warehouse it will require a huge amount of water to be removed from the air. Hence it will need a very high capacity of removal per hour. As an example, a small bedroom may require a capacity of 20 liter per day which is equal to 0.83 liter per hour to reduce humidity from 75% to 65%. However a warehouse of 100 sq. mtr may require a capacity of 200 liter per day to reduce humidity from 75% to 65%.

12. Civil Works

- Fire Proof Partition works
- Fire Proof doors
- Masonry works
- False ceiling
- Wall Painting
- Dust Free cleaning
- Epoxy painting

13. Integration of various equipment & systems

14. CCTV

15. Access Control Systems