Introduction

Shiraz Vanguards of Technology Co, With it’s high quality management system and by employing proficient, well-qualified, competent and skilful experts along with it’s close relationship and mutual cooperation with different international enterprises busy performing activities in IT fields, has achieved this opportunity to be one of the most efficient and eminent centers performing activities in the field of information and communication technology (ICT) throughout Iran as well as middle east countries.

By achieving the latest software and hardware Technologies, this company has reached valuable and precious experiences regarding IT areas and has successfully attracted a wide range of clients and private companies in Iran. Today, by applying these valuable experiences, SVT has entered the competition world of international business competitors.

Our company’s viewpoints for choosing the kind of IT activities is mentioned as follows:

- Performing activities which cause development and motivate innovation in the country
- Accept and follow the projects which are entirely related to the company’s activity background and it’s expertise (in case the project is unique and new)
- Design and production of high-tech systems concerning the new and up-to-date worldwide technologies
- Reaching an appropriate level of international trading system
- Offering consultation services according to the latest international standards

Vanguards Holding

In order to fulfill it’s main objectives in the best way, considering the expertise and high capabilities of the proficient specialists, Shiraz Vanguards of Technology has merged several enterprises active in different technical and professional fields. By direct supervision of SVT, these companies follow related activities under the title of “Vanguards” group.

The execution background of this group is described as follows:
Main Activities of SVT at a Glance:

- **Consultation and Investment**
  - Consultant of enterprise IT projects and make innovative solutions
  - Investment

- **Network Engineering**
  - Designing and implementing fiber optic networks based on Fiber Flow Technology
  - Structural / software design and configuration
  - Project management and management consulting
  - Quality sophisticated network design, launch and support.
  - International security management system (ISMA) consulting

- **Software Engineering**
  - Designing and develop outsource, custom software
  - Web design and e-port
  - Portal design and development

- **Next Generation Network (NGN)**
  - Structural design and configuring next generation telecommunication networks
  - Installation and maintenance of NGN systems
  - Unique right for Hybrid IP Telephony production (PHONIX) in Iran

- **E-Commerce (In Iran)**
  - Producing web application software with the capacity of electronic payment by the electronic cards payable in SHETAB system
  - Offering virtual shop software and other software related to E-Commerce

- **RFID Systems**
  - RFID active and Passive systems’ design and configuration
  - Software and hardware maintenance
  - Producing RFID related software

- **BMS (Building Management System)**
  - Design, installation and performance

- **Security Systems**
  - Designing and performing all kinds of security systems such as finger touch sensors
  - Producing network security software with the capability of being connected to the sensors.
  - Designing and installing all kinds of security networks and IP cameras
consultation and investment

SVT Co. is a creditable consultant as well as pioneer business partner concerning investments in the fields of information and communication technology. This company undertakes several duties such as consultation, introduction, leadership, support, coordination and local / foreign investment management in IT related areas; Also, by appointing proficient experts has played an important role in developing Iran IT fields.

objectives and plans

The main objectives in the field of investment are mentioned as follows:

- Introducing SVT as a creditable business partner
- Profitable investment in association with private sector
- Introducing SVT as a qualified and experienced consultant in IT areas
- Offering modern knowledge regarding information technology to different enterprises
- Making a tight connection between industry and IT
- Improving the feedback of production industries using information technology

under execution projects

• Investment in Shiraz IT tower as the first one in Iran
  SVT has been actively engaged in planning, designing and technical consulting of this national project with the total investment over than 200 milliard rials, and has been successfully the technical manager of the project from the early stages up to now.

• Taking part in investment activities and producing NGN equipments
  By introducing the unique NGN call center under the commercial title "Phonix" For the first time, Iran has been entered to the group of countries benefiting this modern technology.

• Being the consultant of Persian Gulf Complex project (the greatest and newest tourism-recreational center in Iran)
  Shiraz Persian Gulf Complex is located and is under construction with the area of more than 500000 sq.meter at the entrance road of Sepidan city. This center includes 2500 commercial units and a luxurious 7 stars hotel, and an open play ground as well as a close one.

• Being the consultant and executor of IT section of fars export terminal project
  Fars export terminal is a dominant and unique center for exporting goods from Fars province to all around the world. Also, the entrance, import and export of goods is done by special software based on the web. SVT is responsible to design, perform and offer innovative solutions for this terminal.
Computer network consulting services overview

SVT is your partner in technology solution who you can count on it. We blend creative, strategic planning with expert knowledge to tackle the toughest challenges for businesses.

We know that a business builds its foundation on information technology and data network. Our services in computer network department’s include network staffing, network consulting and project management. IT managers can also count on our expertise in security and control, compliance, disaster recovery planning and data centre planning.

Our IT consulting firm also specialized in a wide range of information technology solutions for your company, including network management, system assessment, project management, network design, integration and security, application development, risk assessment, contingency planning, compliance consulting, data and many other information technology services and IT operations.

Computer network design and consulting:

SVT computer network consultant, have developed quality solutions for many regulated and critical environment.

Our IT expertise enable us to efficiently develop demanding and sophisticated IT solutions to meet our customer’s business objectives to ensure realistic and easily manageable system.

With our team of skilled, experienced and committed computer network and security consultations, we span a variety of services in order to rapidly identify clients needs and provide solutions that include Desktop, Computer Network and Server Technology, and connectivity from Local Area Network(LAN) to Wide Area Network(WAN) computer infrastructure.

Local and Wide Area Network are two possible ways to configure your network. We evaluate existing methodologies and procedures, and existing management system capabilities based on your needs. With this assessment, we can prioritize network issues, build justifications for necessary improvement and evaluate the network’s capability of handling future growth.
ISO 27001 Consulting

ISO 27001 was published by the international organization for standardization (ISO) on October 2005. Essentially, ISO/IEC 27001 defines an Information Security Management System (ISMS).

ISO/IEC 27001 is a standard setting out the requirement for an Information Security Management System (ISMS). The standard is designed to ensure the selection of adequate and proportionate security controls that protect information assets and give confidence to interested parties including on organization’s customers. It is suitable for several different types of organizational use, including the following:

- Formulation of security requirements and objectives.
- To ensure that security risks are cost effectively managed.
- To ensure compliance with laws and regulations.
- As a process framework for the implementation and management of controls to ensure that the specific security objectives of an organization are met.
- Identification and clarification of existing information security management processes.
- To be used by management to determine the status of information security management activities.
- To be send by internal and external auditors to determine the degree of compliance with the policies, directives and standards adopted by an organization.
- To provide relevant information about information security policy, directives, standards and procedures to trading partners.
- To provide relevant information about information security to customers.

And the objective of the standard is protection of information assets from wide range of threats to ensure business continuity, minimize business damage and maximize return on investments and business opportunities. In short ensure preservations of confidentiality, integrity and availability of your business critical data.

Shiraz Vanguard of Technology (SVT) offerings implementing ISMS in organization requires sufficient ISO 27001 consultants are backed with strong information security domain expertise to help organization achieve compliance accordance to the ISO 27001 standard.

We offer:

- ISMS gap analysis
- ISMS risk assessment
- ISMS awareness training
- ISMS pre audit services
- ISMS regular review
- ISO 27001 certification trainings
Fiber Flow

About the Emtelle

Innovation, experience, expertise

With 20 years' experience, Emtelle's competitive strength lies in strong technological capabilities, in relentless research and development, and in people whose dedication and professionalism are exemplary. In addition, to ensure maximum value for our customers, we have pioneered new technologies to create an integrated management system that streamlines all our operations from supplies and production through to distribution and sales.

In May 2007, Emtelle merged with Dantex, the foremost supplier of HDPE multiduct systems in Scandinavia. This merger reflects the new company's commitment to solidifying its position as a world leader in the provision of ducted network and blown fibre solutions, offering the most wide-ranging line of products and services for organizations building fibre telecommunications access networks.

Directly or indirectly present in all important Fttx markets worldwide the company provides end-to-end passive infrastructure solutions in the Fttx domain. The company is also a leader in the provision of UPVC ducting and HDPE sub ducting. In all these fields, having completed diverse projects for numerous high-profile clients, the company provided exactly the right solutions in the face of often daunting challenges.

With its collective technical expertise, geographical presence and manufacturing capacity, the new company formed by Emtelle and Dantex is primed to deliver unparalleled service to our customers, providing a solid platform for further international growth.

Since 2002 SVT as the official representative of EMTELLE Co. is the first provider of fiber optic network based on fiber flow approach.

Design and Installation of Fiber Optic Network (Fiber Flow)

In fiber flow method, several tubes with different covers, dependent on environmental conditions, are used. This method of installing fiber optic cables relies on the flow of compressed air easing the fiber all the way to its destination. The remained micro tubes will be used to upgrade the network in the future.

Features Fiber Flow Tubes

The tubes are equipped with protective covers which are extremely resistant to heat, humidity, acidic substances, physical strike, sun rays and etc. Since the main layer is consisted of UPVC, it's length of life is estimated to be more than 100 years.

Fiber Flow Characteristics

- It is not necessary to place manhole during installation period
It is possible to use both kinds of fibers:

- Single mode, Multimode

- It is possible to put tubes in a low depth from the surface without making any infrastructural operations
- The speed of implementing this method is 10 times more than traditional ways
- In each blowing, fiber is released 3 km away

**Advantages of Fiber Flow**

- High speed operation
- Reduced initial and long-term costs
- Resistant to environmental conditions
- Resistant to physical damage
- Able to be upgraded
- Easy to maintain
- The system is modular
- The system can be developed and upgraded in shortest period of time at lowest price
- The fiber can be replaced with any other needed kind in the future
- Much less fiber splicing
- Elimination of dead fiber
- The possibility to repair damaged points at lowest time
- Occupying less space
- Less manpower
- Less amount of fiber
18th September 2007

Sahand System Networking Company
Shiraz-Moalem Street 2th Alley, No.44,
P.O. Box 71865-43867
Iran

Attn: Mr. Mojtaba Jobrani

Re: Representation and Support

To Whom It May Concern,

Emtelle will support the sales, marketing and product proposals made by Shiraz Vanguards of Technology in projects concerning Emtelle fibreFLow™ blown fibre product range relating to tenders or regular commercial enquiries.

Emtelle will offer support of but not limited to:
- Efficient and cost effective design assistance of a blown fibre Network Design to meet customer needs.
- Full product support training to chosen partners and end customers.
- On site visits and technical briefing support as requested.

Shiraz Vanguards of Technology have commercial and technical support of Emtelle for all projects they wish to enter into in the Iran market.

We are pleased to extend our strong support to Shiraz Vanguards of Technology.

Yours sincerely,

Stephen G. Foster
Managing Director – Asia Pacific

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Company No. 59251-P
Software Engineering:

Our Company is an emerging in high-end application development and product engineering offshore outsourcing services with global delivery capabilities. We help our client improve business effectiveness and maximize ROI by applying the engineering excellence. SVT history of working closely with large industry to solve critical problems and deliver complex projects has given us deep business domain knowledge.

Our development capabilities span multiple domain and multiple technologies including RUP process, object oriented, methodology, rational rose design, UML, configuration management with rational ClearCase following latest standards for project management, test, documentation and coding but not limited to application development on the Microsoft.net framework, PHP or Java.

Our services:

- Application software development
- Software architecture services
- Performance engineering
- Software quality insurance
- IT infrastructure management
- Product engineering
- Embedded systems development
- IT strategy consulting
- Software process consulting
- Data security consulting
NGN Call Systems

Benefiting the latest global technologies, our experts have introduced high-tech NGN telephone center for the first time in Iran, and offer it to market under the commercial title: Phonix; and has been successfully installed in several popular institutes and organizations.

NGN systems, including IP telephony technology and modern network systems, provide users with vast range of modern facilities and effective services. High quality video call system might be regarded as one of the main features of this system. Also, various full automatic facilities and automation services caused it to be considered as a time/cost saving strategy in organization.

The installation of NGN call center is managed in several processes mentioned below:

- Analyses and design of telecommunication network based on IP connection network (fiber optic, LAN, WAN, ...)
- Analyses and design of hybrid telecommunication network as needed
- Providing the list of equipments
- Supplying NGN telecommunication equipments and auxiliary units
- Center installation, activation and configuration
- Design and implementing redundancy mechanism for telecommunication systems
- Design and implementing visual connection and video call systems
- Design and implementing HD (High Definition) video conferencing hosting domain
5-6 Building Management System (BMS)

5-6-1 the advantages of applying BMS are:

- Reducing energy consumption about 15 to 58 percent
- Reducing water consumption
- Reducing oil consumption
- Reducing the charges of maintaining fuel
- Guaranty the correct and precise operation of different building systems by using an intelligent integrated management system which will cause a great saving in time, money and energy

5-6-2 Features of an Intelligent Building

There are several features and capabilities of an intelligent building some of which are mentioned as follows:

- Intelligent adjustment of temperature and internal humidity
- The capability of schematization and arranging the controlling equipments dependent on users requirements
- Intelligent adjustment of heat or cold degree concerning the number of present people

5-6-3 BMS System Includes These Parts:

- Heating and cooling systems
- Lighting systems
- Security and fire systems
- Controlling access and security systems
- Elevator
- Building energy management system
- Data network system
- Communication and cabling
- Video and voice services, internet and etc.

Cost saving evaluation:

To have a precise examination of BMS system, the statistical data related to chain hotels in Dubai is mentioned as follow:

Project specifications:

The research results of 6 chain hotels with different dimensions equipped with BMS system with total investment of 4,640,000 derhams is estimated as below:

- Energy saving: 1,840,000 derhams
- Electric energy saving: 11/48 mwh
- Water saving: 6/220/000 gallon
- Reduced co2 spread: 1/63 tons
- Capital return time: 2/52 years
- Total energy cost saving: 21/3 percent

Access Controlling and RFID Systems

SVT offers several alternative approaches regarding RFID systems. Concerning software and hardware aspects, this company provides various solutions for system’s design, installation and implementation.

Some of the features and applications of this system are mentioned below:

Applications of RFID System

- Personnel Traffic Controlling

Increasing traffic controlling security, eliminating raw in front of entrance gates, making reports and software adjustments are the main priorities of using this system. In opposite to contact cards, RFID non-contact cards have less depreciation and can not be copied because of high security standards in them. The main parts of the system includes reader, controller, card and central software. The controllers are capable to store data up to thousands of records; In case the central computer does not work properly or is blocked, RFID system will continue working at 'stand alone' function. Also, at urgent situations, the alarming signal can be received through the software.

- Car Traffic Controlling

The security and preciseness in controlling traffic is the basic advantage of this system. These systems identify the cars while moving (no need to stop), and will prevent forming raw of cars in front of entrance as well as exit gates of big parking lots. For applying this feature, the RFID tag is placed on the car glass then the reader of entrance gate identifies the tag and sends the ID to related software. Through this system, not only the access of different cars to gates is controlled, but also it is possible for the user to make any necessary report. RFID tag
may be used with or without battery. The priority of no-battery tags is their unlimited life, since there is no need to change the tag anymore.

- **Automatic Collection of Charges**
  The elimination of heavy traffic at entrance charging gates of highways may increase the transportation of more cars as a result will lead to more income gained by these transitions. Also, by purchasing the special tags, drivers would pay less charges and consequently will lead to a long-term remarkable cost saving. RFID technology provides users with all the mentioned effective services.

- **Tracing Wagons**
- **Warehouse Management System**

Identifying large number of goods simultaneously, placing them in the storage and preventing them to be stolen are the dominant capabilities of RFID technology. Of course, it should be noted that warehouse is rather a complex and hard place for RFID to be installed, because tag and reader are affected by locative conditions as well as goods on which they should be pasted. Tracing goods may be done at goods level, carton level or pallet level. Dependent on the kind of goods tracing level, the passing speed of goods from gates, width of gates and ....various kinds of RFID tags and readers may be applied.

- **Tracing Properties and Documents**

Providing the list of properties at exact intervals (for example every year) is a time consuming process that needs extra preciseness and attention. By using RFID technology this is done with high accuracy in a short period of time. In this method, some readers in the form of gate are used at each entrance or exit limits. Therefore, entrance and exit of properties to/from each unit is recorded automatically. Also, manual readers can be used to up-to-date the list of properties.

Not only this technology helps finding documents more quickly and easier, but also protects important documents from being stolen. In this function, some tags in the form of little stickers are pasted on the documents or in books. In case the document is moved illegally, the system starts alarming. Also, manual readers can be used to up-to-date the list of documents and books.

- **Enclosure Management System**

RFID system has provided this facility to manage personnel and machineries at large areas. RFID functions in this field include tracing machineries, containers and personnel at the harbor. Also, tracing loaded trucks, detecting the correct attachment of container to the truck, managing machineries and vehicles at airport and similar cases are the effective facilities of RFID technology.

- **Tracing Containers**

To prevent loosing containers at the harbor area and avoid accident or strike and also provide the security of machines, RFID technology is suggested as the best solution.