

The background of the slide features a large, abstract blue graphic at the top, consisting of several overlapping, curved bands that create a sense of motion and depth. The colors range from a bright, vibrant blue to a deeper, more saturated blue. Below this graphic, the word "Inteltec" is written in a large, bold, black, sans-serif font. The overall aesthetic is clean, modern, and professional, typical of a corporate presentation or brochure.

Inteltec

Your Way To Comprehensive ICT Solutions

- Wireless Networks
- Satellite Networks
- Wireline Networks
- IP Networking and Datacenters
- Low Current Systems and Enterprise Solutions

Our Vision

To be a world-class leader in providing lump sum turnkey telecommunication services and solutions

Our Values

Integrity
Mutual Respect
Ingenuity

Our Mission

Focus on offering customers value added services in an environment that is ethical, transparent and mutually beneficial, by building profitable long-term partnerships; and developing qualified resource through continual training and education.

Inteltec at a Glance

Inteltec is a GCC leading company in engineering and implementation of Information and Communication Technology (ICT) Networks and Systems. Since its inception in 1995 in Riyadh, Inteltec gathered a wide experience and in-depth technical expertise that is allowing the company to provide its customers with professional turn key services and solutions in various ICT domains.

Inteltec customers were able to find solutions not only for their immediate needs but also were able to realize their strategic ideas and plans in building network infrastructure (operators) or developing their ongoing business processes from whatever sector they belong to (oil, banks, public authorities) Customers find in Inteltec the perfect partner who is able to analyze all problems and propose the fit solutions technically and economically.

Thanks to its organization's setup and flexibility, Inteltec is always ready to act timely and efficiently supporting its operations with more than 700 employees and logistical facilities spread over the GCC territories.



Quality Assurance

Quality System

Inteltec being an engineering, design and services company, is fully committed to provide high quality and cost effective work and services.

As a company, we apply advanced technology and modern management practices in order to meet our Internal quality goals and our customers' expectations. Every employee at Inteltec performs his or her assigned work duties with the objective of attaining the highest possible level of quality.

Continuous quality improvement is achieved by developing human resources through training and by maintaining team spirit.

Inteltec Quality Management System (IQMS) is implemented throughout the company in compliance with ISO 9001:2000 Quality Management System.

IQMS is adhered to all activities and observed by all company personnel.



Management System

Customer Focus: The company clearly understands identified customers' needs.

Maintaining a balanced response to customers' present and future needs, to preserve issues of "Conformity, dependability, availability, delivery, post realization activities, price, product safety, liability and environmental impact".

Leadership: Leaders at different levels, create unity of purpose and direction of the company.

They are responsible for planning and managing the company's resources to maintain the best efficiency level by optimizing deliverables, time and cost.

Involvement of People: People and their efforts at all levels are the essence of the company.

Their full involvement enables their abilities to be utilized for the benefit of the company.



Our Group

The Group

The Group comprises of three main subsidiaries Saudi Inteltec, Inteltec Emirates and Skyband.

Saudi Inteltec was founded in 1995, while Inteltec Emirates was established in 2006 both companies mainly provide turnkey ICT projects to vendors like Nokia Siemens Networks, Ericsson, Huawei, etc... and operators like Etisalat, Du, Mobily, STC, Zain along with large corporations and financial institutions, that trust Inteltec to implement their complex state of the art technology solutions.

Skyband is one of the first VSAT service providers in Kingdom of Saudi Arabia under the license received from Communication and Information Technology Commission (CITC) for setting up VSAT Services, Network Operation Center and Data Center Managed Services in the Kingdom of Saudi Arabia. Skyband uses the latest in satellite and VSAT communication technologies for data, voice and video transmission. Its network allows High-speed, Reliable, Robust, Cost-effective, Scalable, and Secured Communication across the Kingdom and is available to all Industry segments.

Organization

Over the last few years, the GCC ICT market had undergone a radical transformation, brought about by deregulation and market liberalization leading to the introduction of new technologies.

This has resulted in a change of the market landscape; with the newly emerging operators and service providers' diversified requirements.

To properly position itself in this market, Inteltec is structured strategically around a multidisciplinary technical core organization; backed by a well versed highly flexible commercial organization and a support organization distributed through out the Middle East.



www.saudi-inteltec.com

www.skyband.com.sa

www.inteltec.ae

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Our Solutions and Services

What do we Offer?

Inteltec offers innovative solutions for the different segments of ICT sector; by being involved in turnkey solutions for wireline, wireless networks and satellite networks as well as telecom infrastructure of SCADA systems including energy, transportation and public utilities sectors.

The complete package offered by Inteltec to customers covers the whole cycle of a project; from planning and design, procurement, supply of materials and equipment, construction to final testing and commissioning up to operations startup.

Moreover, Inteltec offers full managed services to customers in order to operate and maintain their networks efficiently and economically.

3-Wireline Networks

Complete technological solutions for optical transport networks, fiber optic backbones, metropolitan networks, copper and FTTx networks.

4- IP Networking

Packaged end-to-end solutions for IP multi-service networks bringing technologies such as MPLS, VPN, IPTV and VoIP to Datacenters, Access Networks, Enterprise Networks and Security/Control Systems.

5- Low Current Systems and Enterprise Solutions

Offering a wide range of low current solutions including CCTV, Safety and Intrusion Systems, Access Control, Road control and airport management systems (Flight Information display, gate scheduling, luggage management)

Fields of Activities

1- Wireless Networks

Partial or complete turnkey wireless telecom projects or services to licensed operators / service providers and corporate end users, in order to establish or enhance their network infrastructure.

2- Satellite Network

Deployment of the latest in satellite and VSAT communication technologies for data, voice and video transmission; allowing instant, reliable, cost-effective and secure communication anywhere in the region and beyond.



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Chapter1 Wireless Network

Introduction:

Inteltec delivers partial or complete turnkey wireless telecom projects or services to licensed operators and service providers and corporate end users, to establish or enhance their network infrastructure.

We can provide a full range of engineering, project roll-out management, operation & maintenance services that include:

- Project planning / RF, transmission, civil and structural engineering
- Site acquisition, zoning and permissions
- Construction management
- Site construction including furnishing of environmental facilities
- Tower and antenna installation
- Telecom installation, commissioning, testing and integration of all network elements, from core to access including transport
- Network parameter setting
- Site on air verification
- Network audits, bench marking and drive testing
- Network optimization
- Network acceptance
- Field services maintenance
- OSS support including performance alarm and configuration management
- NMS operation.

1

Wireless Network

RF Planning and Optimization

Utilizing state of the art simulators and planning tools used by highly experienced engineering teams, Inteltec is capable of designing the different radio access technologies GSM, UMTS, WiFi, WiMAX and LTE for metropolitan, rural and indoor environment.

On the other hand Inteltec is specialized in network audit and benchmarking employing dedicated engineers and teams to conduct the needed drive tests and data analysis.



Telecommunication Implementation:

Inteltec implementation activities cover a wide range of technologies and fields:

- Microwave transmission implementation (Point to Point and Point to Multi Point) for the different technologies (PDH, Ethernet, WiMAX, etc....)
- RF antenna system installation (Antennas, Antenna lines, RF equipments)
- RAN Network Implementation, Commissioning and Integration (BTS/NodeB/eNB and BSC/RNC/aGW)
- Core network implementation ,Commissioning and integration (TSCM/MSC/MGW)
- Network acceptance and quality audit
- Field services maintenance
- OSS support including performance alarm and configuration management
- NMS operation.
- DC Power Supply Systems and Solutions

SDH Microwave Link



PDH Circuitry



1

Wireless Network

SDH Microwave Link



NodeB and BTS System



GSM Base Station



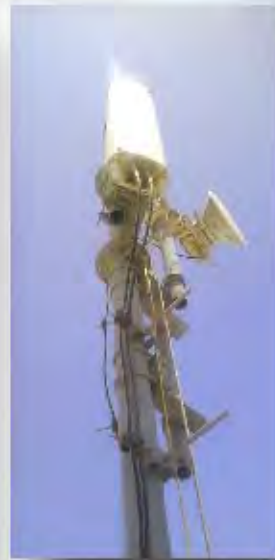
Microwave Indoor Unites



Active Solutions for Indoor Coverage



Lattice Tower 2G/3G Technology



1

Wireless Network



Civil Work:

As a part of our integrated solution Inteltec performs all the related civil work required to construct lattice towers, rooftop sites, monopoles and camouflaged towers, such as:

- 1- Conducting technical site survey and determining the type of site structure to be installed
- 2- Construction of the required tower foundation which varies from dry raft to piling
- 3- Construction of site boundary walls
- 4- Supply and installation of equipment shelter
- 5- Supply and installation of rooftop poles, Monopoles, lattice towers and camouflaged towers.
- 6- Supply and installation of grounding and lightning protection systems
- 7- Performing all the electrical work in conformity with the project specifications

Camouflaged Tower



60m Lattice Tower



1

Wireless
Network

Site Boundary Wall



High Quality Cable Tray



45m Lattice Tower



Pile Foundation



Dry Draft Foundation



Site Acquisition, Zoning and Permissions

Inteltec provides site acquisition (SA) services to telecom operators and other customers (governmental applications' submission and follow up) as a part of its services portfolio and its experienced site acquisition team has acquired an extensive numbers of sites for its customers.

Inteltec's site acquisition service includes the following distinct activities:

- Studying the sites' design milestones based on customer's sites process flow, and reflecting forecasted and actual dates.
- Performing investigation in the market during and after sites' design time to meet with customers requirements.
- Studying the project specification's and its initial issued plan in order to start ranking the candidates plan for each site.
- Performing all initial surveys for all candidates in order to be in conformity with the project objectives.
- Finalizing lease agreements with landlords in order to obtain rooftop GSM sites.
- Obtaining all required NOCs (No Objection Certificates) from the relevant services' departments in order to proceed with sites' permitting process.
- Securing all required approvals and permits for sites' locations from municipalities.
- Solving all problems with landlords, official authorities and any problems which may face other concerned departments.
- Creating communications channels with any sensitive governmental centers

1
Wireless
Network

Safety and Quality of Work

Our people and customers are the most important assets, their safety is of utmost concern to us.

As a telecommunications engineering and services company, Inteltec is well aware that the product's quality and people's safety go hand in hand for continued success.

We endeavor to make all employees aware of safety rules so that each and every one of them understands his ultimate responsibility. Unsafe behavior by any single individual can lead to incidents even in an otherwise safe work environment.

It is our goal to eliminate unsafe working conditions and practices. Inteltec commits to:

- Complying with all official and local safety regulations in all its offices and job sites.
- Taking all necessary actions to quickly isolate and correct unsafe working conditions and/or practices.
- Promoting safety awareness among all employees, and holding each one individually accountable for safety.

Continuous Safety Trainings



Safety First



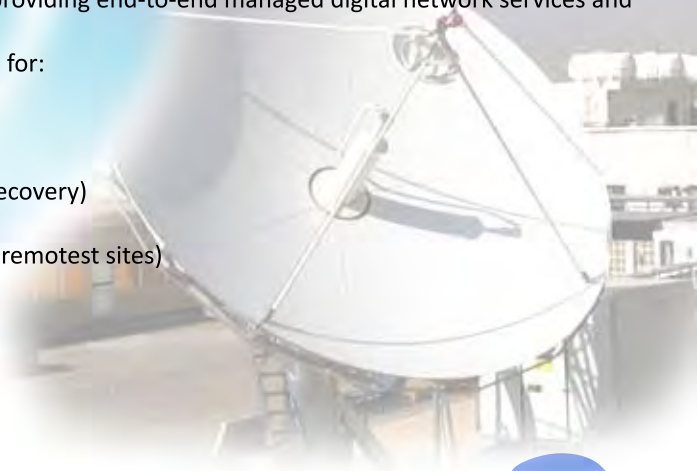
Satellite Networks

Using the latest satellite and VSAT communication technologies for data, voice and video transmission.

The network allows instant, reliable, cost-effective and secure communication anywhere in the region combining an unmatched level of service with globally-tested networking technologies from world leaders in telecommunications like ND Satcom and Intelsat. Inteltec is a licensed VSAT service provider in the Kingdom of Saudi Arabia, providing end-to-end managed digital network services and data center services under the brand name Skyband.

The offered VSAT solutions are very reliable and cost-effective, ideally suited for:

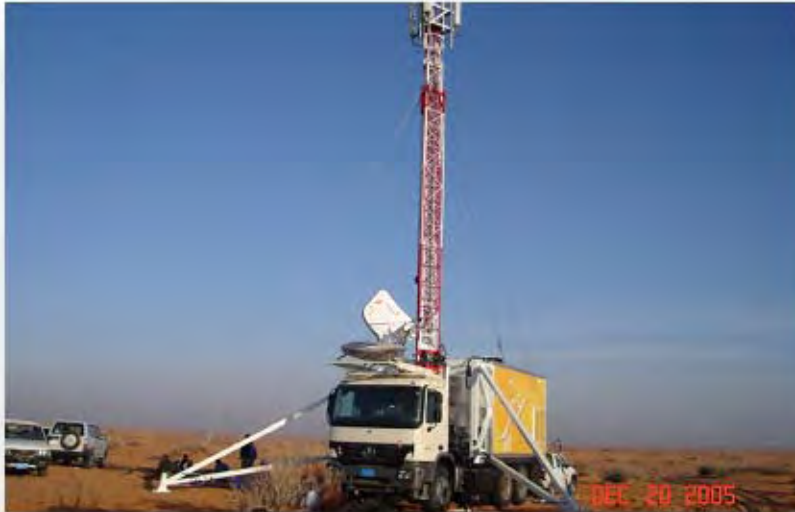
- Corporate communication (voice, video, data and internet)
- Manufacturing and distribution (online connectivity for ERP)
- Banks (for ATMs, core banking, credit card authentication and disaster recovery)
- Engineering and projects (pick-and-move solutions)
- Oil and petroleum exploration (auto-tracking VSATs, connectivity at the remotest sites)
- Internet, intranet and extranet services
- Government, defense and aviation (most secure connectivity media)
- Media and Education (eLearning)
- Telemedicine
- Business continuity planning
- Village Public Telephony
- GSM/UMTS operators (both RAN and Core network Backhauling)



2

Satellite Networks

Cell on Wheels



One of our Hub stations in KSA



GSM Backhauling Link



Our Satellite Network Operation Center



Our datacenter from outside



2

Satellite Networks

ATM machine backhauled by VSAT



Part of our datacenter from inside



Wireline Networks

Inteltec's broad experience spanning a decade has made the company a benchmark for customers aiming to effectively realize, extend, evolve or manage wireline networks infrastructures.

We bring to our customers tailored solutions based on proven and sound innovative techniques that secure the highest levels of quality and return on investment. We look for customers' full satisfaction, in terms of efficiency, optimized usage and economy.

We propose technological solutions for optical transport networks, fiber optic trunks, metropolitan networks, copper and FTTx networks. These are delivered as an LSTK solution, including all its development phases:

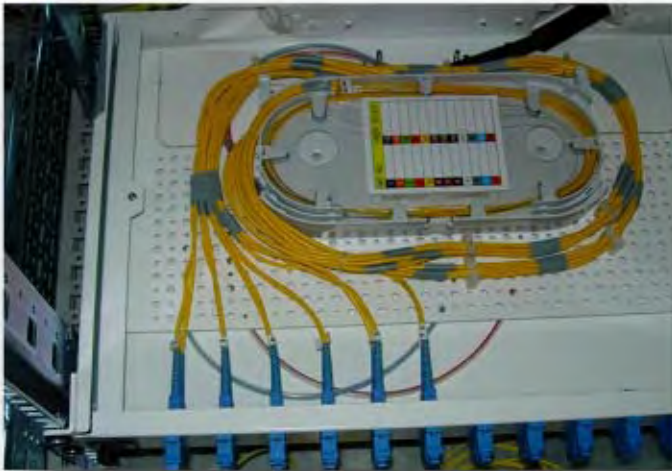
- Feasibility studies and analysis
- Network planning and design
- Site Acquisition, Zoning and Permissions
- System engineering and project management
- Network construction
- Testing, commissioning and integration
- Operation management services

Our main activities in this field include:

- 1- Transmission network planning (SDH, ATM and IP)
- 2- Add Drop Multiplexers Installation and configuration (Tellabs, Cisco, etc...)
- 3- Optical fiber network installation, testing and integration
- 4- FTTx Network realization
- 5- Enterprise optical solutions



Optical Distribution Frame and Splicing



Tellabs ADM



3 Wireline Networks

Optical Fiber Cable Tray and accessories



IP Networks

Inteltec can design, deploy and upgrade networks of any bandwidth that meets your needs today, tomorrow and in the future. Good network design must recognise the requirements for business and technical goals, including availability, resilience, scalability, affordability, security, and manageability.

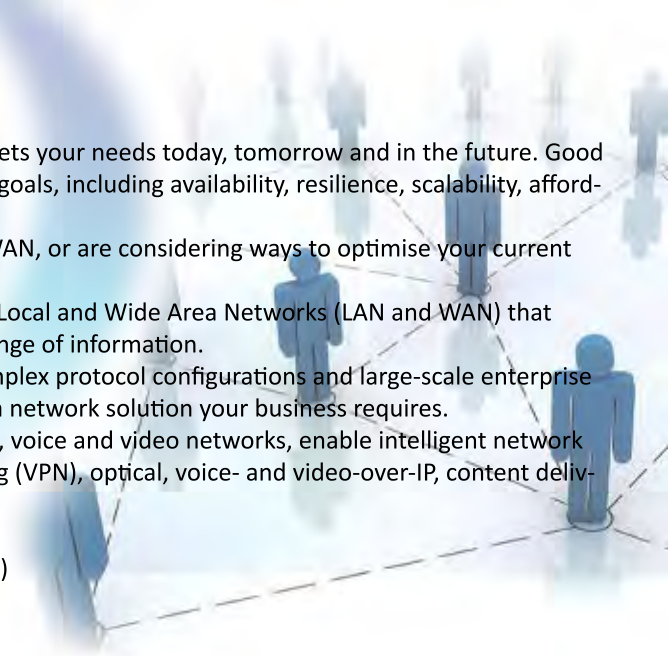
Whether you are looking to build a LAN/WAN, re-design your current LAN/WAN, or are considering ways to optimise your current LAN/WAN infrastructure, Inteltec can help.

Inteltec enables businesses to be successful by designing and implementing Local and Wide Area Networks (LAN and WAN) that maximise the potential of voice and data technologies to facilitate the exchange of information.

From wiring to LAN switching, through internet connectivity to the most complex protocol configurations and large-scale enterprise networks, Inteltec has the experience necessary to design the voice and data network solution your business requires.

Our experienced engineers can help integrate and support security-rich data, voice and video networks, enable intelligent network infrastructures, and leverage new technologies like virtual private networking (VPN), optical, voice- and video-over-IP, content delivery networks, our services include:

- 1- Complete LAN, WAN and Wireless HSPA solutions
- 2- Datacenters Infrastructure (UPS, Power Supply and Environmental Control)
- 3- VoIP Systems and Networks



Ethernet Switches



Enterprise IP Solution



4

IP
Networks

Enterprise LAN Network



DC Power Supply System



Backup Battery System



Datacenters

Inteltec datacenter solution bridges the gap between the complete flexibility you get with do-it-yourself and the convenience of a comprehensive integrated solution. You get to enjoy the high performance of the carefully selected systems with the best prices ever. Thanks for our strong partnership with the IT market leaders and the experienced IT staff we have, that allowed us taking on the responsibilities of design, supply, installation and integration of the entire data center domain starting from environmental control & monitoring, Power supplies, Racks through the IT-infrastructure, Routers, Switches, Servers, ending with making all the components interoperable and tested. In other words, you no longer need to worry about purchasing, deploying, scaling and integrating the physical devices.

By choosing Inteltec you will get:

- 1- The highest performance devices
- 2- The most reasonable prices
- 3- The entire spectrum of Datacenter products
- 4- Experienced deployment
- 5- Greenest technology

Switches, Routers and Servers



Comprehensive Datacenter Environment



4
IP
Networks



Networks



Services



Computing



Storage



Low Current and Enterprise Solutions

Our experience in engineering and installation of network structures has allowed us great new opportunities. We are able to package our regular services with added value applications, namely:

- 1- Video surveillance systems
- 2- Systems for monitoring and managing airport operations and road networks
- 3- Emergency systems
- 4- Safety systems
- 5- Alerting and conferencing solutions
- 6- Enterprise UPS Systems



What's more, implementation of building management systems is a sector where Inteltec has recently joined efforts with international providers. Together, they have quite remarkable experience to execute in the area.

CCTV and Video Over IP



FM200 System



Road Management



5

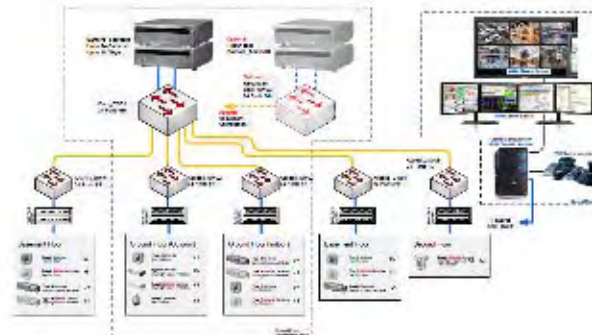
Low Voltage Systems



Integrated Security Design



Enterprise UPS System



Integrated Security Design



Access Control System

Contact Us

Our Offices

Inteltec permanent offices are distributed all over the GCC countries and far beyond:

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Al-Ada Mutkan Networks JV

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Sample of Our Projects 1

Nokia Siemens Networks

GSM-E5 Telecom Implementation / Civil works:

Brief Description of contract:

Our scope of work includes the following:

- Technical site survey for more than 450 GSM Saudi Telecom Sites
- SWAP, Expansion & Collocation of 450 sites with indoor, ultrasite Nokia BTS. This includes installation, commissioning and integration of up to 58 TRX's per site, in addition to the furnishing and installation of 150 telecom shelters in newly acquired sites.
- Network management system staffing
- First line maintenance of the installed network
- E1 tracing in between MSC, BSC and BTS
- Optimization of the network, cell measurement, LOS survey
- Installation commissioning of Nokia Flexihopper Microwave systems
- Complete preparation of the Network Final Design Engineering documentation and the civil EDED
- Use of Nokia management tool called cell tracker.

Nokia Siemens Networks

Hajj 1424H Telecom Implementation for Saudi Telecom Company:

Brief Description of contract:

Our scope of work includes the following:

- Technical site survey for 78 GSM Saudi Telecom Sites
- SWAP, Expansion & Collocation of 128 sites with Nokia Ultrasite BTS, 51 new Microcells with Nokia Metrosite BTS. This includes installation, commissioning and integration of more than 4500 TRXs.
- Network management system staffing
- First line maintenance of the installed network
- E1 tracing in between MSC, BSC and BTS
- E1 connectivity for 206 BTS sites consisting of more than 600 E1s.
- Network optimization of the GSM network, cell measurement...
- Installation and commissioning of 26 Nokia Flexihopper and 19 Nokia Metrohopper MW Systems.
- Installation, commissioning and integration of 18 BSCs and 52 TCSMs.
- Complete preparation of the Network Final Design Engineering documentation and all relevant documentation.
- RF modifications for optimization purposes including addition, replacement and relocation of antennas, changes in tilts and azimuths, etc.
- Use of Nokia management tool called cell tracker.

Nokia Siemens Networks

GSM-E5/6 Operation & Maintenance Support Services:

Our scope of work includes the following:

- Optimization Services – Site Audit, Drive Test, Rigging, Trouble Shooting, Antenna Configuration Changes, Network Assessment.
- First Line Maintenance - Preventive and Event Maintenance activities:
- Inspection of equipment
- Performance measurement verification
- Removal & replacement of faulty units (e.g. plug-in units, mechanical spare parts)
- Function verification in accordance with Maintenance Work Instructions
- Performance & function test such as RFTE test at all sectors on all TRXs, TRX-loop and TRX-TRUA-loop test at all sectors
- Functional test of heat exchanger, smoke detectors, heat-sensors and power supplies, Synchronization check
- Maintenance of Radio relay/Digital Microwave Radio
- Network Planning Services:
- RF Planning for new sites
- Pre-launch Network Optimization
- Transmission planning for new sites
- RF planning for BTS Swap
- TRX expansion

Nokia Siemens Networks

GSM-E6 Telecom Implementation for Saudi Telecom Company:

Brief Description of contract:

Our scope of work includes the following:

- Technical site survey for more than 500 GSM Saudi Telecom Sites
- SWAP, Expansion & Collocation of 500 sites with Nokia Ultrasite BTS and 65 Microcells with Nokia Metrosite BTS. This includes installation, commissioning and integration of more than 3200 TRXs.
- Network management system staffing
- First line maintenance of the installed network
- E1 tracing in between MSC, BSC and BTS.
- Network optimization of the network, cell measurement, LOS survey
- Installation commissioning of more than 150 Nokia Flexihopper and 65 Nokia Metrohopper Microwave Systems.
- Installation, Commissioning and Integration of 11 BSCs and 26 TCSMs.
- Complete preparation of the Network Final Design Engineering documentation, and all relevant documentation.
- Use of Nokia management tool called cell tracker.

mobily

2ND GSM Project KSA - Infrastructure Facilities:

Our scope of work includes the following:

- GSM Shelter – Supply, Installation, Testing & Commissioning of GSM Shelter and related equipment installed inside the shelter.
- Tower, Monopoles & Rooftop Structures - Supply, Erection and Commissioning of Towers, Monopoles, and Rooftop structures including Antenna Mounts & Civil Works.
- Main Distribution Tower size range 50m, 60m and 90m.
- Main Distribution Monopole size range 30m & 35m
- Rooftop structures : 6m & 9m
- Telecom Implementation
- Site Acquisition and Permitting

ERICSSON

2ND GSM Project KSA - Infrastructure Facilities:

Our scope of work includes the following:

- Shelter Furnishing – Furnishing and Supply, Installation, Testing & Commissioning of HVAC, Firefighting, Internal & External Lighting, Electrical Wiring, Cable trunking, BATB and Main Distribution System.
- Site Acquisition - Initial Site Search, MOU Pre-lease, Site Search Completion and Site Handover Final Lease.
- Civil Works - site specific engineering survey and detailed design, supply & installation of rooftop antenna mounts structure, earthing & lighting system, concrete foundations, cable tray system & metering cabinet, supply & installation of complete chain link fencing, water proofing etc.
- Telecom Implementation

ERICSSON

Ethad Etisalat – Telecommunication Shelter Furnishing:

Brief Description of contract:

Saudi Inteltec Scope of Work includes but not limited to the followings:

- Arrange for supply of the followings:
- 1. Procure the FD & FF System.
- 2. Procure HVAC system including necessary controls.
- 3. Furnish the shelter with necessary power cables and cable ladders.
- 4. Provision of necessary lighting indoor and outdoor.
- 5. Supervise the complete shelter assembly.
- Carry out the shop testing.
- Transport the shelter to Western Province.
- Attend Shelter onsite acceptance testing.

STC

Hajj 1424H, 1425H, 1426H, 1427H FLM:

Brief Description of contract:

Our scope of work includes the first line maintenance for AlJawaf network in the Hajj region. This includes Makkah, Mina, Muzdalifah and Atafat. It includes also the mobilization and demobilization of 20 COWs as per the relative Hajj plan. The network consists of 21,100 TRX distributed over:

- BSC, 66
- Macrosites, 911
- Microsites, 325

STC

GSM E5/ E6 – Telecommunication Shelter Supplies:

Brief Description of contract:

As a part of GSME5 and GSME6, Saudi Inteltec supplied 3x3m GSM shelter to various STC contractors. Saudi Inteltec Scope of Work includes but not limited to the followings:

- Arrange for supply of the followings:
- 1. Procure the shelter chassis.
- 2. Procure the DC power Plant.
- 3. Procure the Air-conditioning system including necessary controls.
- 4. Furnish the shelter with necessary power cables and cable ladders.
- 5. Provision of necessary lighting indoor and outdoor.
- 6. Supervise the complete shelter assembly.
- Carry out the shop testing.
- Transport the shelter to Western Province.
- Attend Shelter onsite acceptance testing.

STC

Civil Works under GSM-E5

Hajj 1424H Civil Works under GSM-E6

Our scope of work includes but not limited to the following:

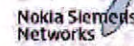
- Technical site survey
- Preparation of necessary engineering design documentation
- Construction of new GSM sites (Greenfield & Rooftop)
- Expansion Works on existing sites by providing the followings:
- 1. Towers and rooftop antenna mounts.
- 2. Cable gantries and cable trays.
- 3. DC power plant consisting of battery strings and rectifiers.
- 4. Air Conditioning upgrade by installing split units.
- Sites testing and commissioning
- Preparation of Operation and Maintenance Manuals.



Connectivity for MSC-BSC and BSC-BTS using 40 E1's via satellite and Digital Cross connects

Our scope of work includes but not limited to the following:

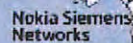
- Design of transmission network over Satellite
- Site Survey for feasibility and locating equipment
- Sourcing of Satellite bandwidth (Two Transponders)
- Rapid Deployment (Within 3 Weeks)
- Erection of VSAT Antennas
- Installation and Configuration of VSAT equipment and Digital Crossconnects
- Testing of link end-to-end.
- Coordination with all parties for testing of link end-to-end
- Operation and Maintenance of networks for the contract period.



GSM-E7 Telecom Implementation for STC :

Our scope of work includes the following:

- Technical site survey for more than 500 GSM Saudi Telecom Sites
- SWAP, Expansion & Collocation of 750 sites with Nokia Ultrasite BTS and 60 Micro-cells with Nokia Metrosite BTS. This includes installation, commissioning and integration of more than 7000 TRXs.
- Redeployment, Dismantling & reinstalling 140 sites with 1680 TRX
- Network management system staffing
- First line maintenance of the installed network
- E1 tracing in between MSC, BSC and BTS.
- Network optimization of the network, cell measurement, LOS survey
- Installation commissioning of more than 600 Nokia Flexihopper and 110 Nokia Metrohopper Microwave Systems.
- Installation, Commissioning and Integration of 15 BSCs and 7 TCSMs.
- Complete preparation of the Network Final Design Engineering documentation, and all relevant documentation.
- Use of Nokia management tool called call tracker



Nokia 3G Trial Implementation for STC & Mobily :

Brief Description of contract:

Our scope of work includes the following:

Saudi Inteltec is a pioneer in the 3G network implementation in the Gulf and the Middle East. Its experience started as early as the first network built in kingdom of Saudi Arabia. Saudi Inteltec built this network for Saudi Telecom Company including the Radio Access Network and the Core Network. Today more than 300 WCDMA Nokia NodeB and four Radio Network Controller (RNC/MGW) installations and integrations were performed for the two mobile operators in KSA, Mobily and Saudi Telecom Company. Saudi Inteltec success factor in this field was the readiness for a complete 3G implementation supporting services including NodeB & feeder line testing, drive testing, ATM switching & IP routing technical support. Saudi Inteltec considerable experience in IP, GSM and PSTN networks was also a plus to integrate the new generation with the existing enterprise."



Telecom Equipment & Accessories – Bashair Telecom Company, Sudan:

Brief Description of contract:

Our scope of work includes the following:

- Technical site survey for 2nd GSM Telecom Sites
- Supply of Shelter Furnishing Accessories and tools & Telecom Modems
- Supply of Telecom Testing Equipment



3rd GSM Operator (KSA) - Infrastructure facilities

Our scope of work includes the following:

- Supply, Installation, Commissioning and Testing of infrastructure and environment facilities including related Civil Works in the main MTC Core buildings:
- Raised Flooring System
- Precision Air-conditioning System
- Precision Power Center
- Fire Protection System
- Site Monitoring System
- Hoisting Crane
- UPS & Generator Backup Power system
- Up gradation of electrical supplies
- Rooftop Heavy Duty Telecom Tower erection.
- Furnishing of Network Operating Center including design, furniture, electrical, audio/video system, access system



3rd GSM Operator (KSA) - Infrastructure facilities

Our scope of work includes the following:

- Site Acquisition - Initial Site Search, MOU Pre-lease, Site Search Completion and Site Handover Final Lease.
- Civil Works - site specific engineering survey and detailed design, supply & installation of rooftop antenna mounts structure, earthing & lightning system, concrete foundations, cable tray system & metering cabinet, supply & installation of complete chain link fencing, water proofing etc.
- Telecom Implementation
- Core Networks;
- Installation of Core Sites at various locations which includes the below:
- Preparation, furnishing of the Core rooms based on the approved designs.
- Supply and Installation of the power resources which includes the UPS power, DC rectifiers, and Generators.
- Supply and Installation of the Precision HVAC systems with Fire fighting equipment based on the approved designs.
- Installation services for the equipments such as MSS, HLR,CDS, BSC, RNC, TCSM, SGCN,VAS AND IN Equipment.
- Implementation of the new flexi 2G BTS's and 3G Nodes in central, western and southern areas of the kingdom.
- Implementation of the MW equipments in Core sites and at the BTS Sites.
- Installation of the BTS indoor solutions system.



Civil & Installation (Roads & Villages) GSM coverage Phase 4

Our scope of work includes but not limited to the following:

- Technical site survey
- Preparation of necessary engineering design documentation
- Construction of new GSM sites (Greenfield & Rooftop)
- Expansion Works on existing sites by providing the followings:
 1. Towers and rooftop antenna mounts.
 2. Cable gantries and cable trays.
 3. DC power plant consisting of battery strings and rectifiers.
 4. Air Conditioning upgrade by installing split units.
- Sites testing and commissioning
- Preparation of Operation and Maintenance Manuals.

Some of Our Projects 2



2nd GSM Project KSA - Infrastructure Facilities:

Our scope of work includes the following:

- Site Acquisition - Initial Site Search, MOU Pre-lease, Site Search Completion and Site Handover Final Lease.
- Civil Works - site specific engineering survey and detailed design, supply & installation of rooftop antenna mounts structure, earthing & lightning system, concrete foundations, cable tray system & metering cabinet, supply & installation of complete chain link fencing, water proofing etc.
- MW & BSS Telecom Implementation

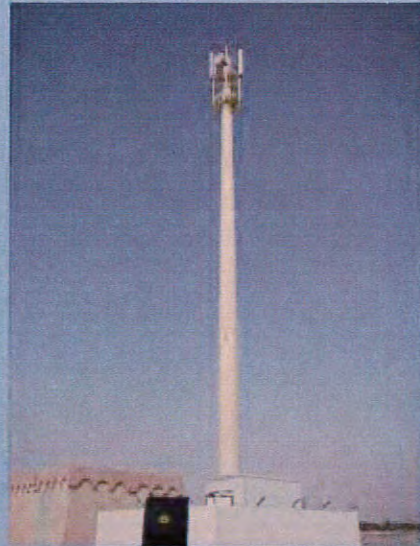


3rd GSM Operator (KSA) - Infrastructure facilities

Our scope of work includes the following:

- Supply, Installation, Testing and Commissioning of :
 - 110 units of Ground Rapid Deployment Units – comprised of a 40 Meter Tower and Shelter with all components built on a galvanized chassis.
 - The shelter is designed to provide a dust free airtight environment. It is equipped with HVAC, Internal & External Lighting, Electrical Wiring, Generator, Fuel Tank and Fire Detection, Lighting Protection System.
 - The 40 Meter mast is supported by guyed wires and the design and analysis are as per ECI standard BS 6399.
 - Operate and maintain the GRD units for the contract period.

Our Projects in UAE



GSM/UMTS Site built completely by Inteltec
One of over than 300 Similar sites in Abu Dhabi



Camouflage Communication Tower
One of many others built in VIP areas



Satellite Communication Earth Station
Used to backhaul du GSM Network



One of 32 Towers supplied and installed by Inteltec in the western region



Yas Island Buildings
In-Building GSM Coverage



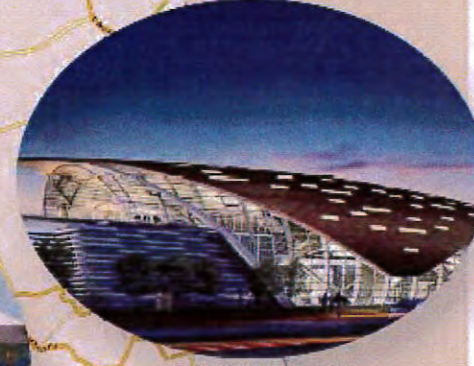
Baynounah Hotel
In-Building GSM Coverage



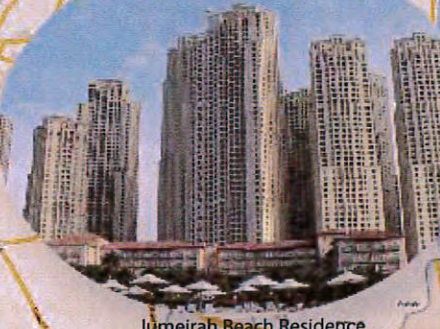
Sheikh Khalifa Energy Complex
In-Building GSM Coverage



Marina Mall one of more than 75
In-Building Covered by Inteltec



Dubai Metro Stations
In-Building GSM Coverage



Jumeirah Beach Residence
In-Building GSM Coverage



2nd Operator in the UAE (Abu Dhabi du network):

- Our scope of work includes the following:
- Leasing and Technical site survey for more than 300 Sites
 - Design, construction and telecom implementation for more than 300 sites
 - Network optimization of the IBS network, cell measurement
 - Installation and commissioning of more than 500 Microwave Systems.
 - Complete preparation of the Network Final Design Engineering documentation, and all relevant documentation.
 - Use of Nokia management tool called EPM



Western Region Civil Work Project:

- Our scope of work includes the following:
- Technical site survey acquisition for more than 32 Sites
 - Design and construction for more than 32 sites
 - Supply of 60 meter towers
 - Supply and furnishing of equipment shelters



In-building Solution Wireless network

- Our scope of work includes the following:
- Telecom installation and commissioning of active DAS in-building GSM/UMTS solution for JBR buildings in Dubai
 - RF optimization and testing for du coverage



Indoor GSM/UMTS Coverage for Abu Dhabi

- Our scope of work includes the following:
- 1- RF planning and optimization:
 - a. Conduct the technical site survey
 - b. Conduct the needed simulation tests
 - c. Link Budget Calculations
 - e. BSC/RNC Data fill
 - f. conduct the needed RF tests and reporting
 - 2- Telecom implementation
 - a. Installation of the BTS/NodeB
 - b. Installation of the Microwave links
 - c. Distributed antenna system Installation both active and passive
 - d. Site integration and testing



GSM Backhauling VSAT Network

- Our scope of work includes the following:
- 1- Equipments Supply and installation
 - 2- Provide the needed satellite bandwidth
 - 3- 24 hours Network Operation Center



National Petroleum Construction Co. (Abu Dhabi) NPCC:

Brief Description of contract:
Engineering, Construction and furnishing of Communication Shelter for Abu Safah GOSP-1 as per Saudi Aramco Specification. The scope of work also includes In-Process Inspection, Final Testing and Commissioning.



Supply, Operate and Maintain 20 GRD (Ground Rapid Deployed Site):

- Our scope of work includes the following:
- Supply 20 GRD fully furnished, equipped with 35 meter towers, 30 KVA Generators
 - Install the GRDs in the allocated positions
 - Relocate the GRDs to new positions when needed



Supply and Installation of Camouflaged GSM Towers

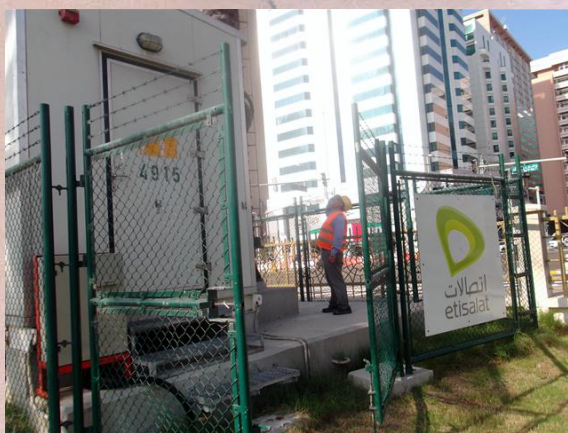
- Our scope of work includes the following:
- Supply Camouflaged Tower
 - Installation Civil work

One of 20 GRDs installed, operated and Maintained by Inteltec

Our Projects in UAE



Monopole in Western region



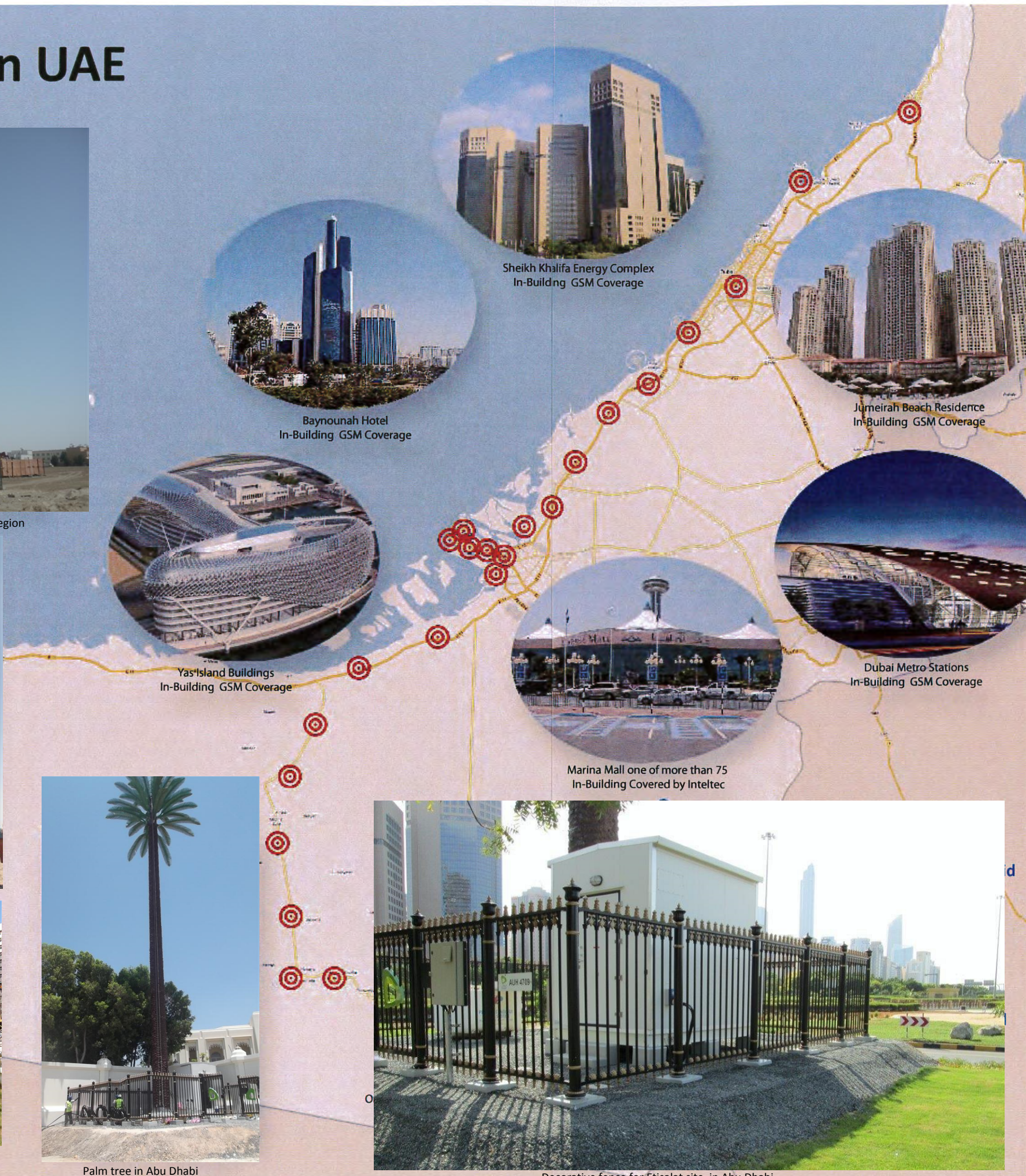
Monopole site with fence link in Abu Dhabi



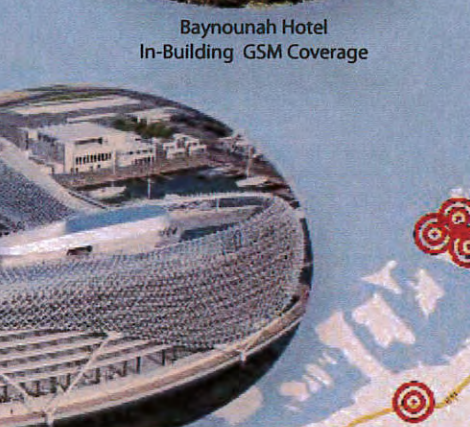
Palm tree in Abu Dhabi



Decorative fence for Etisalat site in Abu Dhabi



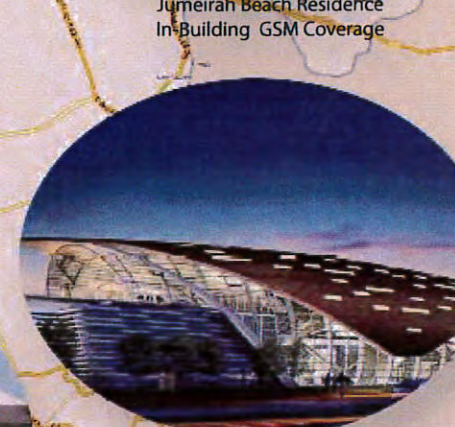
Sheikh Khalifa Energy Complex
In-Building GSM Coverage



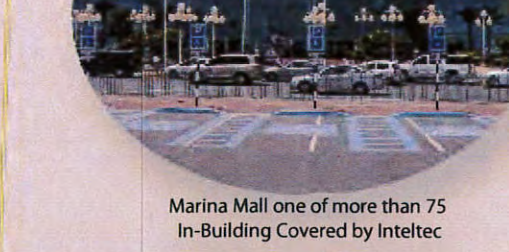
Baynounah Hotel
In-Building GSM Coverage



Yas Island Buildings
In-Building GSM Coverage



Jumeirah Beach Residence
In-Building GSM Coverage



Marina Mall one of more than 75
In-Building Covered by Inteltec



Dubai Metro Stations
In-Building GSM Coverage



Turn Key solution for site implementation over all UAE 2012 and 2013

Our scope includes:

- Sites survey and acquisition for more than 700 sites
- design and permitting for more than 400 sites
- Sites material supply (tower, shelter, antenna system, etc...)
- Civil Work rollout different typologies and structure. (GF,RT,palm Tree,RDM, RDP,COW,Tower)
- Telecoms implementation and integration
- Swap , expansion, upgrade and renovation of Etisalat existing sites
- Microwave radio link installation and commissioning



Turn Key solution for site implementation scope 2013

Our scope includes:

- Sites survey and acquisition for more than 100 sites
- design and permitting for more than 66 sites
- Sites material supply (tower, shelter, installation material)
- Civil Work rollout different typologies and structure. (GF,RT,palm Tree,RDM, RDP,COW,Tower)
- Telecoms implementation and integration
- Microwave radio link installation and commissioning
- VSAT installation , integration and operations



MOTOROLA Turn Key solution for site implementation in Abu Dhabi 2011/2012

Our scope includes:

- Sites survey and design for more than 29 sites
- Sites material supply and implementation
- Telecoms implementation
- Microwave radio link installation and commissioning
- Network Operations and Maintenance



Turn Key solution for du scope 2010 and 2012 over all UAE

Our scope includes:

- Sites survey and acquisition for more than 100 sites
- design and permitting for more than 66 sites
- Sites material supply (tower, shelter, installation material)
- Civil Work rollout different typologies and structure. (GF,RT,palm Tree,RDM, RDP,COW,Tower)
- Telecoms implementation and integration
- Microwave radio link installation and commissioning
- VSAT installation , integration and operations



Railway project - Stage 1

Our scope includes:

- Supply and installation of all telecom towers (30m , 40m , 50m , 60 m)
- Complete earthing and gantry post systems for sites
- supply, pulling, testing, splicing and termination for 600 KM fiber optic cable.
- Pulling over 600 KM signaling cable.
- Complete BMS system installation (PAVA, CCTV, Access control, Master clock, Wi-Fi, Telephony system , VRS)
- Telecoms implementation for MSN and GSM-R BTS



DOT / new VMware and VSphere DURING 2013

Our scope includes:

- System Design for the new VMWARE and VSPHERE elements
- Hardware supply for the complete solution
- Full Solution implementation and integration
- Operations and maintenance



Inteltec

Your Way To The Comprehensive Telecom



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