

Service Presentation

01 - Aug - 2011

FourSat Kish Co.

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Product

Main Distributes

- Draka Mobile Networks (Feeder & Jumper cables, Finland & China)
- Rosenberger GmbH (Complete Site Solution & Fiber Optic Germany)
- Rosenberger Asia Pacific (Complete Site Solution & Fiber Optic , China)
- FIMO Tec (Complete accessories, China)
- Shoto China (Complete range of Batteries, China)
- Draka Cable Solutions (Complete range of Cables, EU)
- Plymouth Rubber(Complete range of Insulation & Waterproofing Kits, EU)
- Spectrum (Microwave Radio links, China)
- Benning Germany (Power supply solution)
- BSS Boray (Shelter, Tower and etc)
- RFS (Complete Site Solution, Fiber Optic & etc Germany)

Suppliers:

- Kathrien Germany (Antenna & HF components)
- Energys & FIAMM (Batteries EU & China)
- Spinner Germany (Connectors & HF components)

Service

Construction

TI Implementation

Quality Inspection

Maintenance

Optimization

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Services

FourSat Kish co Professional Services offers a wide range of support options to aid you through all phases, along with service delivery value chain:

- § Initial planning and dimensioning
- § Deployment
- § Telecom Implementation
- § Project Management
- § Resources Management



Reduce operation costs



Maintain optimum Quality Of Service



Reduce Time To Market and deliver in time



Improved Business efficiency

Construction

*FourSat Kish co. Service provides optimal and professional site .
Faster rollout saves money and enables faster time to profit.*

SA

- Site Search (3 candidate) in ring.
- Suitable as per design
- Lease / Buy Contract
- Negotiation
- Private candidate
- Governmental – Army, civil aviation, Archaeological permits.

Tower

- Lattice, Monopole
- Mobile site / Palm Tree

Construction

Roof

- Mast / Guide mast tower/pole
- Camouflage

Mechanical

- Shelter / Out door cabinet / cable ladders.
- Precision, comfort air-condition system
- All steel works type.

Electrical

- Grounding / lighting
- Power AC / DC - Genset.

Security

- Fire Alarm / Central Alarm Sys.
- Security door system.

TI Implementation

Telecom Implementation covers all network areas for Operators such as Access, CORE network including, Backbone and IBS systems.

Installation Planning

Ensures Efficient, Fast & Flexible rollout

Installation

Right expertise, personnel and Tools for effective work

Commissioning

Compliance testing with planning data and customer specifications

Integration

Site ready for commercial use

Management and Control

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Quality Inspection

Supervisors verify quality and monitor the installation of your infrastructure.

Site Audit & Quality defect.
Test records.
Concrete test.
Feeder test.
Grounding test.
All measurement.
Customer standards
Safety.

*On site
Activity*

Defining procedures.
In Process report.
Standards in Procedure.
Specification.
Acceptance criteria.
Evolution of work man ship.
Case study.
Common tools.

*In House
Activity*

Maintenance

The objective is to maintain Complete network & to handle malfunctions in order to ensure a continuous operation in network. It comprises both preventive and corrective maintenance.

BTS/Microwave Equipment.
Site Audit.
Power system/battery.
Cooling system.
Trouble Shooting / Alarms.
Repair / replacement.
Generators .
Tower Maintenance

*Primary
Maintenance
activity*

Hotline Alarm Handling
Special project site repair.
Handel fuel process (Genset)
Implement & update
technical procedure.
Coordinate all client request

*Maintenan
ce support
Activity*

Optimization

THE ENERGY TO MAKE YOUR FUTURE

Network quality of service continues to be the Major output in the race for subscribers. You must meet expectations for outstanding performance for every user, on every call.



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Optimization Methodology

HARDWARE ANALYSIS

- Analysis of potential hardware problems in the network not detected by 'normal' fault management methods.

PERFORMANCE STATISTICS

- Analysis of performance statistics, with standard graphical information sheet for each cell.
- Analysis of potential hardware problems in the network not detected by 'normal' fault management methods.

DATABASE ANALYSIS

- Investigation of inconsistent default settings.
- Analysis of efficient use of assigned spectrum.
- Correct implementation of features.

CALL TRACE ANALYSIS

- Detects problems with antenna tilts.
- Detects problems with Base Transceiver Subsystem (BTS) output power.

FREQUENCY PLANNING OPTIMIZATION

- Re-definition of handovers and assigned frequencies.

Optimization

1. Optimization can be done from one site to cluster or more site per Cluster.
2. FAT Optimization.
3. Drive Test.
4. Monitoring the network performance.
5. Monitor daily / weekly KPI Improvements.
6. Monitor hard ware problems.
7. SDCCH Congestion / SDCCH Drop.
8. TCH Congestion / TCH Drop.
9. Handover Success rate (HDSR)
10. Site Audit.
11. Material swap for damage of Feeders, jumpers.
12. VSWR Test.

Resource Provider

Local Resource

Expert Resource

Resource Providing service

We Provide Service **with High Competence Resources** in specific areas with requirement from our Customers for below Activities:

1. Engineers.
2. Survey Team.
3. Site Audit Activities.
4. 2G/3G/IBS Site implementation.
5. Telecom Supervision.
6. Testing & commissioning.
7. RF Engineers.
8. DT Engineers (tools).
9. Field Support Team.
10. Resource Provided to few MNC and Local.



Resource providing service

Specialized Resource (Expert)

We are keen to search for experts resources in specific fields from any country.

1. Project Manager.
2. Line Manager.
3. Management Professional.
4. Switching Professional.
5. Optimization Manager.
6. RF Designer .
7. Transmission Designer.
8. Testing & Commissioning.
9. Any specialized fields (Non common)



Support

FourSat Kish co : Easy to operate.

1. *Engineering.*
2. *Designing.*
3. *Implementation.*
4. *Maintenance.*
5. *Ware Housing.*
6. *Case Study.*
7. *Quality.*
8. *Time.*
9. *Cost.*
10. *Flexible.*



Project Details

ZTE Parsian

1) Wimax Project (Turnkey Project SA until Acceptance).

FourSat Kish co was awarded for Region -1 as turnkey project the below activities.

- SSR/TSSR/LEASE /DDR.
- Civil – Foundation/Fence construction etc
Tower, Monopole & Roof top implementation.
- TI – Implementation of BTS/Configuration/Testing (RBS + Transmission).
- Complete Transportation of Material from Ware house to Site.
- Acceptance.

Project Details

ZTE Parsian

2) Wimax Project (Site Quality Supervision).

FourSat Kish co was awarded for Region -8 as Quality Supervision project the below activities.

- Quality Supervision for civil construction.
- Quality Supervision for Tower Implementation.
- Quality Supervision for TI Implementation.
- Check the subcontractor Capability.
- Check the subcontractor Tools.
- Check the subcontractor work man ship.
- Acceptance.

Project Details

ZTE Parsian

3) Tamin Project : Turnkey Project SA until Acceptance.

- FourSat Kish co was in the list of awarding Tamin project (under Negotiation of Regions).

Ericsson

4) LOS Project : WCS Project

FourSat Kish co was awarded for LOS Sites below activities:

- Planning for new sites WCS.
- SSR/TSSR/LEASE /DDR
- Transmission Topology
- Pre lease
- SA/ Lease

Project Details

Huawei

- **Battery Maintenance**

FourSat Kish co was awarded for Batter Maintenance for below activities:

- Battery voltage test
- Charge and Recharge.
- Test done for 48 hrs with dummy loads etc.

MTN

- **Battery Services**

FourSat Kish co was awarded for Batter Maintenance directly for below activities:

- Battery swap.
- Battery testing and Maintenance.



Thank You

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