



# Company Profile

## **OSINT TECH LTD.**

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Dhaka-1212, Bangladesh

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Email: [mustafa@osint-tech.com](mailto:mustafa@osint-tech.com)

Mobile: +8801755629251

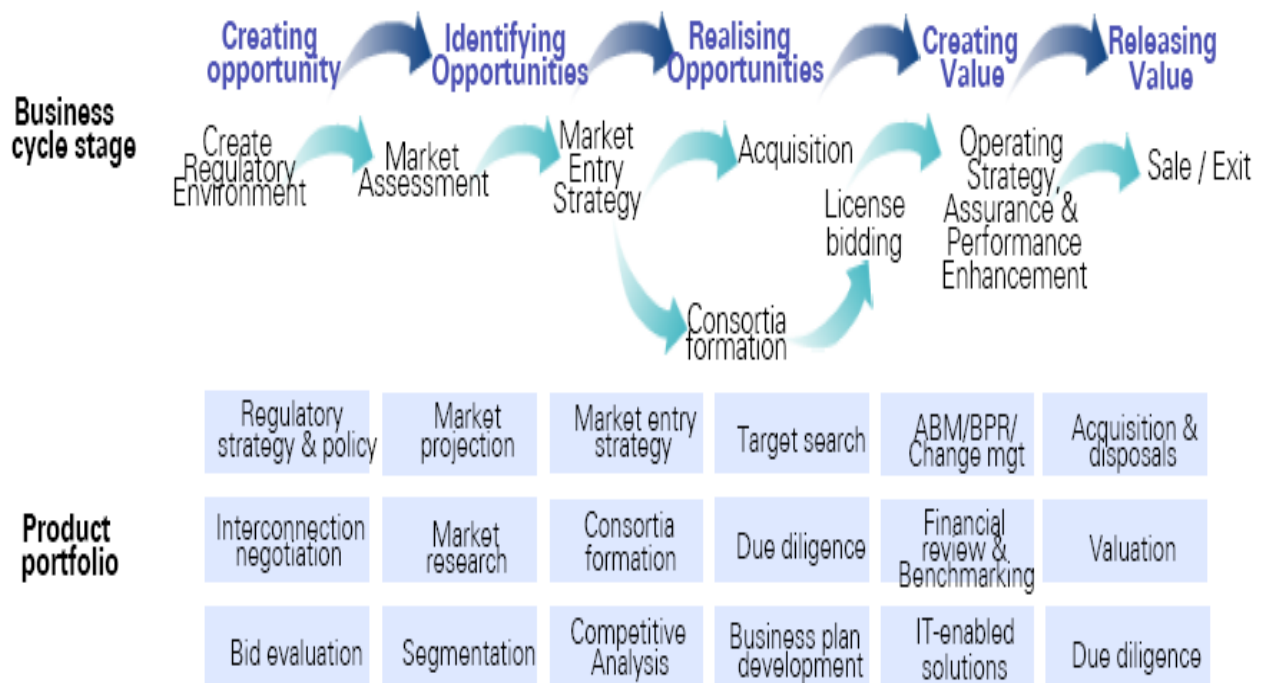
Web: <http://www.osint-tech.com/>

## About OSINT TECH LTD.

OSINT Tech, is a Bangladesh Based Tech Company providing solutions on Public Safety, National Security and Actionable Intelligence.

We offer end to end Global Surveillance, CyberSecurity, Communications, AI, Big Data, DFS and System Integration through long-term partnerships with a large number of global vendors around the world.

So far we have represented as a Local Partner/Agent for Verint Systems from USA, Almaz Antey (S-400) from Russia, ROHDE & SCHWARZ from Germany, ROSTEC Russia, MSM Group from Slovak Republic, Tecore from USA, Czechoslovak Group from Czechoslovak, Mainbase from Sweden, Protei from Russia, SCL Group of UK, Swissqual of Switzerland, Telcobridges from Canada, Sensetime from China, Peter Service of Russia, Speech Technology Center of Russia, SIGOS of Germany, Tech Mahindra, Aircom International, Capana Nordic, Open Mind Network, Frost and Sullivan, KPMG, Inmarsat, Avanti PLC, Nera Networks and many more.





# Working for Safer Digital Bangladesh



**OSINT Tech Ltd, is a Bangladesh Based Tech Company providing solutions on Public Safety, National Security and Actionable Intelligence.**

**We offer end to end solution for Global Surveillance, CyberSecurity, Communications, AI, Big Data, DFS and System Integration through long-term partnerships with a large number of global vendors around the world.**

**So far we have represented, as a Local Partner/Agent/Reseller, Verint Systems from USA, Almaz Antey (S-400) from Russia, ROHDE & SCHWARZ from Germany, ROSTEC from Russia, MSM Group from Slovak Republic, Tecore from USA, Aarenet from Switzerland, Czechoslovak Group from Czechoslovakia, Skyhook from USA, Mainbase from Sweden, Protei from Russia, SCL Group of UK, Swissqual of Switzerland, Telcobridges from Canada, Sensetime from China, Peter Service of Russia, Speech Technology Center of Russia, SIGOS of Germany, Tech Mahindra, Aircom International, Capana Nordic, Open Mind Network, Frost and Sullivan, KPMG, Inmarsat, Avanti PLC, Nera Networks and many more.**



**Metadata Drives All We Do**

[www.osint-tech.com](http://www.osint-tech.com)

## Management Profiles



**Lt Col Md. Rajibul Islam (R)**

Chairman

Experienced top management professional with a demonstrated history of working in the international trade and development industry. Skilled in Negotiation, Budgeting, Business Planning, Operations Management, and Analytical Skills. Strong business professional with MBA & PGD focused on Marketing, Human Resource and Business Strategy from University of Malaya, KL, Malaysia.



## Ananda Zaman

Director, Operations

An experienced leader in the field of Marketing, Operations, Finance, Media and Public Relations, Ananda Zaman has served Telecom and Banking Industry in Bangladesh and USA. A business professional and a top executive Ananda Zaman is skilled in Marketing, Negotiation, Budgeting, Business/Marketing Planning, Operations Management and Analytical Skills. Educated in Bangladesh and USA he has two MBAs in Marketing and Finance, respectively, from IBA, Bangladesh and St. Cloud State University, USA.



## Mustafa M. Hussain

CEO & MD

Cyber Mass Surveillance Location National Security Public Safety Electronic Warfare Big Data Rohde & Schwarz UAV UGV UUV Intercept Autonomous Weapons Drone Biometrics Jamming ECM RADAR ComInt AI 5G NIB C4ISR Almaz Antey S-400 ROSTEC Behavioural Science Microtargeting Psychographic Profiling Metadata PsyOps InfoOps DisInfo. I hold MSc Engineering Degree in Telecommunications from King's College, University of London. I was also an Assistant Professor of East West University

# Rohde & Schwarz



## Aerospace | Defense | Security

Communications and signal monitoring technology for armed forces and air traffic control, security products for critical infrastructures as well as T&M equipment for R&D applications



## Broadcast & media

Broadcast, post production and T&M equipment for network operators, broadcasters, studios, the film industry and manufacturers of entertainment electronics



## Cybersecurity

Network technology for professional users as well as IT security products to protect communications and information



## Test & measurement

T&M instruments and systems for wireless communications, aerospace and defense, automotive, research and industrial electronics applications



## Rohde & Schwarz COMINT/EW product portfolio

Rohde & Schwarz: Single source for SIGINT and EW systems.



ROHDE & SCHWARZ

## SIGINT (signal intelligence)



COMINT (communications intelligence)

ELINT (electronic intelligence)

## Rohde & Schwarz ELINT systems

provide comprehensive radar signal libraries due to:

- High system sensitivity, allowing long-range coverage
- Efficient analysis software
- Wide frequency ranges for intercepting modern and legacy radars



# SIGOS

## Fraud Detection Traffic Monitoring

### TrafficMonitor for Regulators

Tax Collection, Traffic Monitoring, Fraud Detection. And more.

February 2018



### Mobile Money Monitor for Governments

Tax Collection, Transaction Monitoring, Fraud Detection. And more.

February 2018



## TrafficMonitor for Regulators

Tax Collection, Traffic Monitoring, Fraud Detection. And more.

February 2018



## Mobile Money Monitor for Governments

Tax Collection, Transaction Monitoring, Fraud Detection. And more.

February 2018



### SIGOS in Numbers

Testing is our Competence

- 28+ Years Experience
- 350+ Employees
- Over 480 Mobile Network Operators as Customers
- Partners & Representations in 60+ Locations
- Customers in 150 Countries
- Cooperation with / Member of:



SIGOS  
testing is our competence

### Worldwide Customers: Mobile Operators



# Clients



# Partners



## PRODUCTS

1. Air Defense System from Almaz Antey , Russia
2. Active and Passive Mobile monitoring System and Rogue BTS identification and jamming System with Verint System, USA or ROHDE & SCHWARZ, Germany.
3. Strategic Tactical system of SatPhone monitoring with Verint, USA or ROHDE & SCHWARZ, Germany.
4. Electronic Warfare and Anti Drone (Detection and Jamming) with ROHDE & SCHWARZ, Germany.
5. Deployable Military LTE Network , Tecore USA.
6. Strategic system of Face Recognition Detector with SenseTime, China.
7. Cybersecurity with Verint System, USA or ROHDE & SCHWARZ, Germany.
8. Mobile Money Monitor and Telecom Monitoring Centre (TMC) for Regulator with SIGOS, Germany.
9. Intelligent Traffic Monitoring, Gateway Security Checks with Verint, USA or SenseTime, China.
10. Voice Biometric, Speaker Identification, Speech to Text with Verint System, USA or STC, Russia
11. UAV with Mainbase , Sweden
12. Signal Intelligence and Direction Finders with ROHDE & SCHWARZ, Germany
13. Software Defined Radios M3TR with ROHDE & SCHWARZ, Germany
14. Encrypted Communications with ROHDE & SCHWARZ, Germany
15. Content blocking and filtering System with Protei Russia
16. Data Science and BI , with EBIW USA
17. Strategic Communications for Military with SCL, UK
18. End to end all type of Defense Requirements from Czechoslovak Group from Czechoslovak
19. End to end all type of Defense Requirements from MSM Group from Slovak Republic
20. VSAT HUB solution Hughes, Gilat
21. High power multiband jamming system Backpack and Vehicle from GDS, Germany

## OSINT TECH LTD's Project Highlights

### Completed Telecom Projects

**Grameen Phone** Automated UnAttendant Unmanned End to end testing solution. Biggest benchmarking and QoS monitoring solution in Bangladesh. We have provided solution of benchmarking and QoS monitoring System for GP. This includes benchmarking system and unmanned/ unattended QoS monitoring system with reporting functionality . The QoS tool will be deployed in GP maintenance vehicle (mobile tool) or important strategic location (static tool) throughout the country.

**Robi (AXB)** Provided the equipment and services to carry out the measurements from SwissQual, the Swiss network quality measurement company. The Diversity Benchmark system is being used to simultaneously compare four operators at a time for voice and data quality together with a number of other parameters.

**BTRC, Bangladesh Telecommunication Regulatory Commission** Provided the equipment and services to carry out the measurements from SwissQual, the Swiss network quality measurement company. The Diversity Benchmark system is being used to simultaneously compare six operators at a time for voice and data quality together with a number of other parameters. BRTC, is to publish monthly ratings for mobile network operators from 2012.

**Robi (AXB) AIRCOM IQ** is a multi-vendor solution that automatically analyses and optimises network performance, based on mobile measurement reports.

**Banglalink (Orascom)** Provided the equipment and services to carry out the measurements from SwissQual, The Diversity Benchmark system is being used to simultaneously compare four operators at a time for voice and data

**Banglalink (Orascom)** Benchmarking of Four Top Mobile operator in all the border areas of Bangladesh using Swissqual Benchmarking Tool

**VAS Services** OSINT TECH LTD. has providing BULK SMS Services through Teletalk .

**WTBL (WordTel GSM)** OSINT TECH LTD. team was responsible for all technical work of WorldTel (GSM) PSTN Project. The technical job includes Installation, Testing, Commissioning of MSC, BSC includes (HLR, VLR, ONU), BTS equipments, GSM equipments includes (BTS, antenna, Cables), Microwave equipments includes (Antennas, ODU, IDU). Company is also responsible for site

acquisition, Civil works includes (BTS Room, Pole Construction), Power Connections etc.

**Solar Projects** OSINT TECH LTD.is currently Deploying Solar Systems in Various parts of Dhaka.

**Voicetel ICX** OSINT TECH LTD. was responsible for all technical work of Voicetel ICX Project. The scope includes Installation, Testing, Commissioning Softswitch, Media Gateway, Transmission equipments , Billing System, NOC. Nextivity is also responsible for site acquisition, Civil works includes (Switch Room, PoP Construction), Power Connections etc.

Proof of Concept (PoC) for Bangladesh Telecommunication Regulatory Commission for Illegal VOIP Detection using Machine Learning Artificial Intelligence Big Data . Handled more than 5 Billion CDR.

Implementing Social Media Monitoring Listening and Mass Surveillance Solution for The Government . Using Machine Learning Artificial Intelligence Big Data to monitor Billion Data Points of Social Media and Internet Users

Partnered with FPT Information System for Mass Surveillance Solution for The Government.

We offer CCIE Security, CCIE Voice, CCNA, CCNP, CCNA Security, CCNP Security, CCNA Voice, Linux , Mobile Apps, Web Design Development , MikroTik, Microsoft, Cloud, Virtualization, Telecom, 3G, LTE etc.

OSINT TECH LTD. is a leader among app developing training for this diverse platform. iOS Development, Android Development.



Grameen Phone is using 65 probes and 2 Diversity Bench Marker to ensure QOS



Automatic system to measure Mobile Network Service Quality (Voice, Data, Video, Messaging) based on the SwissQual Diversity platform

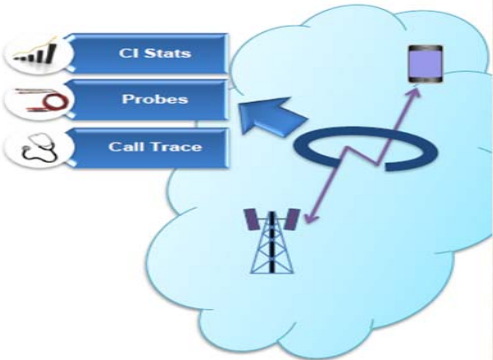
- **Automatic**
  - Fully autonomous system
  - Mobile deployment in taxis, buses, ferries, trains and other vehicles
  - Fix deployment in offices, network sites etc.



Taking Network Quality to Next Level...



# The AIRCOM IQ solution



AIRCOM INTERNAL ONLY - Copyright



|                                                                  |      |
|------------------------------------------------------------------|------|
| <b>Area Benchmarked</b>                                          |      |
| National Highways                                                |      |
| <b>Period (Quarter 01_2011)</b>                                  |      |
| January 1 <sup>st</sup> to March 31 <sup>st</sup> (9 AM to 9 PM) |      |
| <b>Operators</b>                                                 |      |
| Banglalink, Grameenphone, Robi & Airtel                          |      |
| <b>Equipment</b>                                                 |      |
| Ascom Qvoice                                                     |      |
| <b>Analyzer Tool</b>                                             |      |
| Qvoice Presentation                                              |      |
| <b>Total Call Attempts</b>                                       |      |
| Banglalink                                                       | 1286 |
| Grameenphone                                                     | 1262 |
| Robi                                                             | 1287 |
| Airtel                                                           | 1302 |
| <b>Time Frame of each Call</b>                                   |      |
| 100 seconds                                                      |      |
| <b>Total Mileage (KM)</b>                                        |      |
| 2295 (approximate)                                               |      |



Confidential

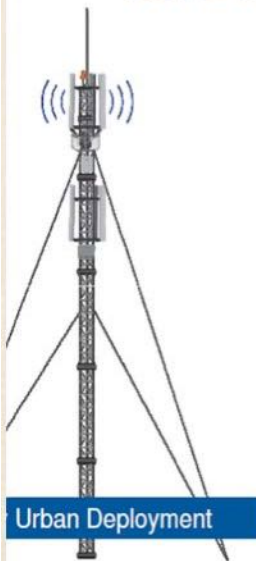
**making a  
difference**



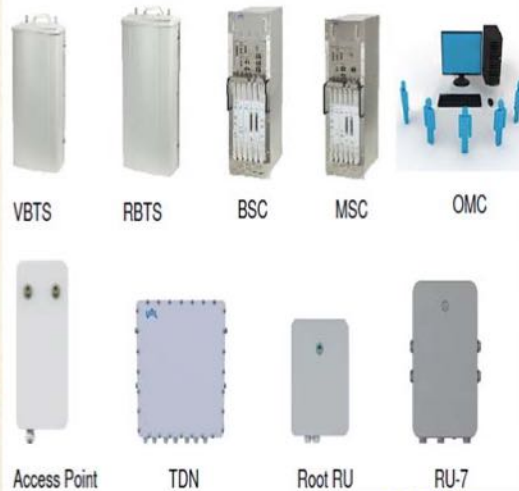
**VNL has re-engineered GSM for better economy**



## VBTS & RBTS Sites

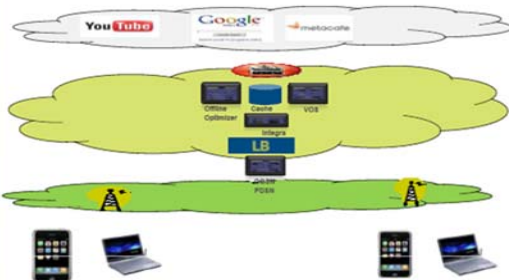
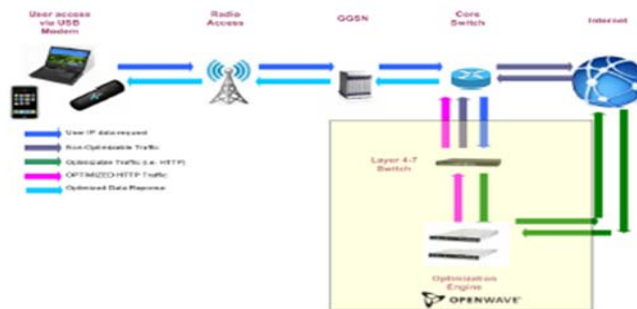


## The WorldGSM™ Portfolio



## CanvasM Technologies Limited ROBI LAB TRIAL PLAN

Project Title: ROBI POC Trial  
 Product(s): Web and Media optimization  
 Customer: ROBI  
 Date: 23<sup>rd</sup> July 2010  
 Trial & Deploy Type: In Network Trial



### 8.1 Project plan

#### 8.1.1 High level project plan

| Phase |                                | Estimated  | Wk1 | Wk2 | Wk3 | Wk4 |
|-------|--------------------------------|------------|-----|-----|-----|-----|
| 0     | Planning/Staging               | 1.5 weeks  |     |     |     |     |
| 0.1   | On-site Logistics Ship/Receive | 1 week     |     |     |     |     |
| 1     | Hardware/OS Setup              | 1.5 day    |     |     |     |     |
| 2     | Lab Preparation                | 1.5 days   |     |     |     |     |
| 3     | Software Install, Basic Config | 1-2 days   |     |     |     |     |
| 4     | Network Config and Integration | 1-2 days   |     |     |     |     |
| 5     | Execute Trial ATP              | 3 days     |     |     |     |     |
| 6     | Review results and Summary     | 2 - 3 days |     |     |     |     |

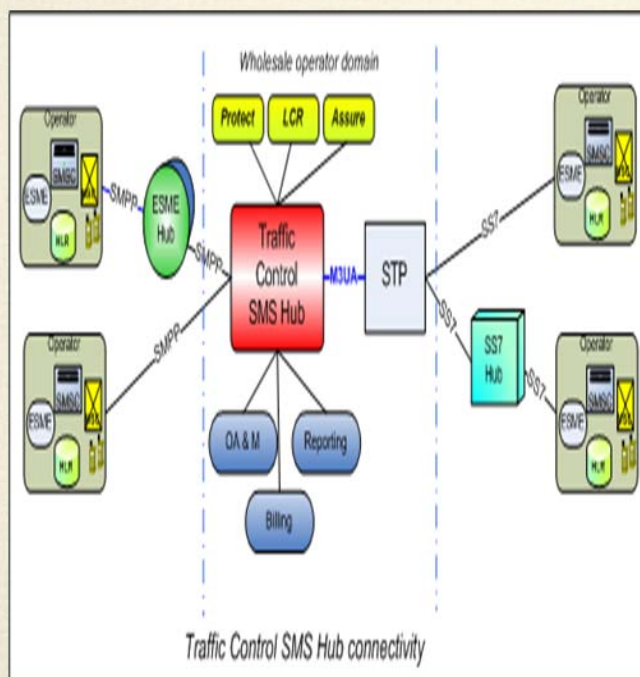
NEXAIVITY  
Connecting Bangladesh

## Tech Mahindra Data Optimization Web and Media Compression

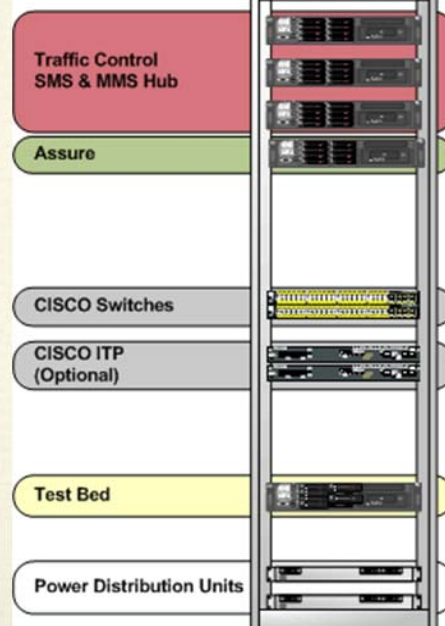
openmind  
messaging experts

## SMS/MMS Routing Through ICX/IGW Operators

NEXAIVITY  
Connecting Bangladesh



### BTRAC Hardware



TELECOM

# Expression Of Interest for Selection of Consultancy services for BANGABANDHU-1 Satellite

21st December 2010



C/M/S/ Cameron McKenna



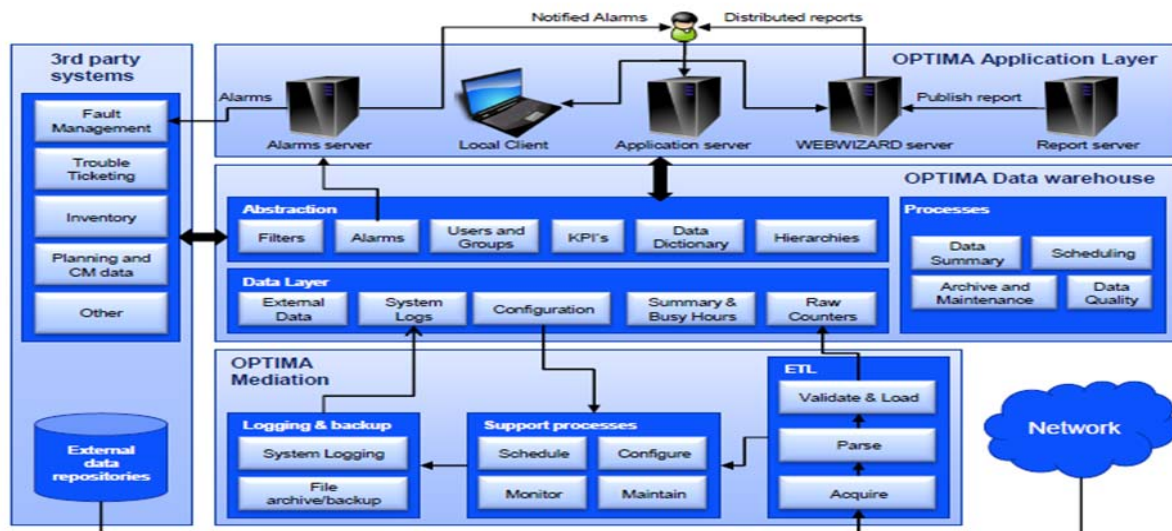
Consortium Expertise



## Performance Management System

### OPTIMA Architecture

Collect, Store, Process, Analyse, Distribute





## Business Proposal

**Tech Mahindra Technical Response  
For  
Implementation of Automatic Device  
Management Platform**



BHARTI AIRTEL



"As the critical platform for controlling the mobile device, MFORMATION SERVICE MANAGER will be essential in helping us optimize the user experience and deliver seamless, intuitive services to both our business and consumer subscribers."



SmartTrust DP™



Tech Mahindra\_ for ADMP with Mformation and SmartTrust

# Service Portfolio

OSINT TECH LTD., is a leading End to End Global Telecommunications Solutions Provider and System Integrator with long-term partnerships with a large number of global vendors around the world. We are local Partner for Rohde & Schwarz, FPT Information System, Swissqual, Aircom International, Tech Mahindra, VNL, RedHat, Cisco, VMware, Microsoft, Oracle, Mikrotik, Capana Nordic, Elitecore, Ditech Networks, Xius-BCGI, Nortel Networks, VNL, Frost and Sullivan, KPMG, Inmarsat, Avanti PLC, Abiba Systems, Nortel Networks, Openwave, M-formation, Avaya, and Nera Networks

## **Project Management:**

- Turnkey Project Management Telecom, ICT and Power Sector.
- Task/scope based Project Management

## **Engineering Solution, Products and Services:**

- Installation & Commissioning of all equipment related to
- GSM,LTE,3G,4G – BTS, BSC, MSC, GPRS
- CDMA Cell Sites BTS, BSC, MSC, GPRS
- Optical
- Micro Wave
- Switches
- Network integration
- Testing & Commissioning
- Customer Support Management

### **Operation & Maintenance:**

- Telecom Cell and Tx Sites
- Optical Fiber Networks

### **RF Engineering Services:**

- RF Survey & Cell
- Network optimization
- Network Audit
- Network Benchmarking

### **Power Systems:**

Supply and installation of power systems, including Rectifiers, Industrial Batteries ,UPS Systems, Solar Panels and DG sets including associated electrical works.

Power sector is one of our core businesses. Some of our key services in the power sector are included but not limited to the followings:

- AC / DC Power System, design, install and commissioning.
- Alternative Power System. Maintenance and troubleshooting.
- Backup Power System. Such as UPS, IPS etc.
- Control/ Protection System design& install.
- Design & Develop cost effective Automation & Monitoring system.
- Solar Solution

### **VAS Value Added Services:**

- Value Added Services
- Software Solutions

- Network Solutions
- We are connected with all the operator of Bangladesh for value added service. We are connected with **Grameenphone, Robi, Citycell, Teletalk, Banglalink** and **Airtel** . We have developed WAP solution, SMS based service, Multimedia service, IVR,CMS for this operators.
- ERP Solution for Pharmaceutical company ,ERP for Textile Industry IVR Solution, Mobile Software Solution , SMS based Yellow Page , Bulk SMS platform and SMS HSC result for all mobile operators.
- Our Current Projects are: SMAIL for TeleTalk. SMS HSC result WAP site for Comfort Socks. FCG for Ericsson IN. IVR for BTCL Mobile Wallet Mobile Money order Solution (MMOS). School Management System

### **Optical Fiber Networks:**

- Building of Optical Fiber Cable Networks
- Route Survey, Design, Row permissions
- Trenching and associated Civil works,
- Horizontal Directional Drilling & Boring works
- Supply, Installation & Commissioning of HDPE, GI, RCC, DWC & PVC Pipes, Cables (OF & Cu), Splice Closures, FMS
- Optical network equipment, Electronic route markers, RCC markers, Chambers, Manholes, Handholes, Splicing of Cables, Earthing and Link Testing
- Operation & Maintenance of OFC equipments & Cables.

### **Engineering Construction & Projects:**

- Layout design & construction of Equipment Room & DG Room

- Installation of Air Conditioners, Fire Safety systems, Access Control systems, Electrical systems etc.
- Design & manufacture of Microwave Towers
- Design and construction of foundations for rooftop and ground based Towers
- Installation & Painting of Towers
- Site Design Documentation

### **Grounding Systems:**

Follow Six Point Protection Plan for Lightning, Surge Protection and Grounding developed by ERICO.

### **Site Acquisition:**

- Site pre qualification
- Site selection from candidates

### **Managed Service:**

- Provision of Experienced Consultants & Technical Manpower with GSM//Telecom Expertise
- Currently Providing Outsourced Manpower To 4 GSM Service Providers in the Region Apart From Many Other Large Govt/Private Institutions
- Extensive Expert Manpower in GSM Systems, Siemens, Ericsson, Alcatel,Nortel & Nokia.
- Experienced Transmission And Telecom Design and Implementation Consultants Available at a Short Notice.
- Project And Quality Management Professionals

## **Our Support:**

With multiple office locations and diversely qualified staff, Cloud Systems Limited can accommodate multiple project commitments and offer a broad range of experience and expertise. As a progressive business, Cloud Systems Limited is able to pass on to its clients such benefits as rapid response time and a daily preoccupation with the delivery of high quality products and services.

- We have experienced team who are working in power system design, installation and maintenance for more than seven years in different industrial sectors including Telecommunications and also renewable energy development in different projects of UN organization for last ten years.
- We have experienced team who worked on Telecommunication NSS, RNP, BSS, IN, VAS, Billing.
- We have experienced Software Development team to develop quality software for enterprise solutions and high skilled Network professional who worked in different ISP's for several years

We are strongly committed to support you during your urgency at any time for 24X7 hours.

## Project Management

| Service Provider      | Scope                                                                                                                                                                                                                                                                                                                                                                                                                                             | Vendor | Number of Sites              |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------|
| WTBL<br>(WordTel GSM) | Cloud Systems Limited is responsible for all technical job of WorldTel (GSM) PSTN Project. The technical job includes Installation, Testing, Commissioning of MSC, BSC includes (HLR, VLR, ONU), BTS equipments, GSM equipments includes (BTS, antenna, Cables), Microwave equipments includes (Antennas, ODU, IDU). Company is also responsible for site acquisition, Civil works includes (BTS Room, Pole Construction), Power Connections etc. | ZTE    | 100 Sites<br>(all the Sites) |
| CityCell              | CDMA PLMN                                                                                                                                                                                                                                                                                                                                                                                                                                         | Huawei | 30 sites                     |
| Orascom Telecom Ltd   | GSM PLMN                                                                                                                                                                                                                                                                                                                                                                                                                                          | Huawei | 20 sites                     |
| AKTEL GSM operator    | GSM PLMN                                                                                                                                                                                                                                                                                                                                                                                                                                          | Huawei | 50 Sites                     |

## MW Access Installation & Commissioning for

| Service Provider                                    | Technology                        | Vendor  | Number of Hops           |
|-----------------------------------------------------|-----------------------------------|---------|--------------------------|
| WTBL<br>(WordTel GSM)                               | GSM PSTN                          | ZTE     | 100 Hops (all the Sites) |
| CityCell (PBTL)                                     | CDMA PLMN                         | Huawei  | 30 Hops                  |
| Orascom Telecom Ltd                                 | GSM PLMN                          | Huawei  | 20 Hops                  |
| Jalalabad Gas Transmission and Distribution Project | Gas Transmission and Distribution | ZTE     | 10 Hops                  |
| AKTEL GSM operator                                  | GSM PLMN                          | Huawei  | 50 Hops                  |
| Teletalk, BTTB                                      | GSM PLMN                          | Siemens | 20 sites                 |

## Installation / Commissioning of GSM – BTS for

| Service Provider      | Technology | Vendor | Number of Sites              |
|-----------------------|------------|--------|------------------------------|
| WTBL<br>(WordTel GSM) | GSM PSTN   | ZTE    | 100 Sites<br>(all the Sites) |

|                     |           |         |          |
|---------------------|-----------|---------|----------|
| CityCell (PBTL)     | CDMA PLMN | Huawei  | 30 sites |
| Orascom Telecom Ltd | GSM PLMN  | Huawei  | 20 sites |
| AKTEL GSM operator  | GSM PLMN  | Huawei  | 50 Sites |
| Teletalk, BTTB      | GSM PLMN  | Siemens | 20 sites |

## Optical Fiber Networks

| Service Provider   | Scope                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Vendor               | Size   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|
| AKTEL GSM operator | Supply, installation, testing and commissioning of optical transmission link from Mohakhali office to Uttara BSC. The scope of work includes supply of OFC cable Manhole, Hanhole, ducts, DDF, VDF etc. for AKTEL GSM operator                                                                                                                                                                                                                                | Nortel<br>Corning    | 10Km   |
| Square Informatix  | Supply, installation & commissioning of PDH, SDH equipments, Regenerator, Add/Drop multiplexer equipments. Company is also responsible for Link Calculation, Fiber specification and Site preparation.                                                                                                                                                                                                                                                        | Alcatel<br>Utstarcom | 300 Km |
| BTTB               | Route Survey, Design, Row permissions, Trenching and associated Civil works, Horizontal Directional Drilling & Boring works, Supply, Installation & Commissioning of HDPE, GI, RCC, DWC & PVC Pipes, Cables (OF & Cu), Splice Closures, FMS, Optical network equipment, Electronic route markers, RCC markers, Chambers, Manholes, Handholes, Splicing of Cables, Earthing and Link Testing, As Built and Operation & Maintenance of OFC equipments & Cables. | Nortel               | 100km  |

## Switch Installation for

| Service Provider | Technology | Vendor | Number of Sites |
|------------------|------------|--------|-----------------|
| Grameen Phone    | GSM PSTN   | Nortel | 10 Sites        |
| WTBL             | GSM PSTN   | ZTE    | All the Sites   |

|                    |          |        |          |
|--------------------|----------|--------|----------|
| (WordTel GSM)      |          |        |          |
| AKTEL GSM operator | GSM PLMN | Huawei | 50 Sites |

## Installaiton & Integration of MUX Equipment for

| Service Provider | Nature of job              | Vendor  | Number of Sites |
|------------------|----------------------------|---------|-----------------|
| Grameen Phone 1  | PCM Multiplexing equipment | Telllab | 20 Sites        |
| Grameen Phone 2  | PCM Multiplexing equipment | Siemens | 15 sites        |

## Operation & Maintenance Telecom Cell Sites

| Service Provider      | Technology | Vendor | Number of Sites              |
|-----------------------|------------|--------|------------------------------|
| WTBL<br>(WordTel GSM) | GSM PSTN   | ZTE    | 100 Sites<br>(all the Sites) |
| CityCell (PBTL)       | CDMA PLMN  | Huawei | 30 sites                     |
| Orascom Telecom Ltd   | GSM PLMN   | Huawei | 20 sites                     |
| AKTEL GSM operator    | GSM PLMN   | Huawei | 50 Sites                     |

## LoS Survey & Link Engineering for

| Service Provider      | Technology | Vendor | Number of Sites              |
|-----------------------|------------|--------|------------------------------|
| WTBL<br>(WordTel GSM) | GSM PSTN   | ZTE    | 100 Sites<br>(all the Sites) |
| CityCell (PBTL)       | CDMA PLMN  | Huawei | 30 sites                     |
| Orascom Telecom Ltd   | GSM PLMN   | Huawei | 20 sites                     |
| AKTEL GSM operator    | GSM PLMN   | Huawei | 50 Sites                     |
| RanksTEL              | CDMA PSTN  | ZTE    | 100 Sites<br>(all the Sites) |
| AKTEL GSM operator    | GSM PLMN   | Huawei | 50 Sites                     |

## Optical Equipment for

| Service Provider | Scope | Vendor | Size |
|------------------|-------|--------|------|
|------------------|-------|--------|------|

|                    |                                                                                                                                                                                                                                |                   |        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|
| AKTEL GSM operator | Supply, installation, testing and commissioning of optical transmission link from Mohakhali office to Uttara BSC. The scope of work includes supply of OFC cable Manhole, Hanhole, ducts, DDF, VDF etc. for AKTEL GSM operator | Nortel Corning    | 10Km   |
| Square Informatix  | Supply, installation & commissioning of PDH, SDH equipments, Regenerator, Add/Drop multiplexer equipments. Company is also responsible for Link Calculation, Fiber specification and Site preparation.                         | Alcatel Utstarcom | 300 Km |

### **Installation / Commissioning of CDMA - Cell Sites for**

| <b>Service Provider</b> | <b>Technology</b> | <b>Vendor</b> | <b>Number of Sites</b>       |
|-------------------------|-------------------|---------------|------------------------------|
| CityCell (PBTL)         | CDMA PLMN         | Huawei        | 30 sites                     |
| RanksTEL                | CDMA PSTN         | ZTE           | 100 Sites<br>(all the Sites) |

### **Installaiton / Commissioning of FSO for**

| <b>Service Provider</b> | <b>Technology</b> | <b>Vendor</b> | <b>Number of Sites</b> |
|-------------------------|-------------------|---------------|------------------------|
| AKTEL GSM operator      | GSM PLMN          | Redline       | 4 Sites                |

**Layout design & construction of Equipment Room & DG Room, installation of Air Conditioners, Fire Safety systems, Access Control and Electrical systems etc. for:**

| <b>Service Provider</b> | <b>Technology</b> | <b>Vendor</b> | <b>Number of Sites</b> |
|-------------------------|-------------------|---------------|------------------------|
| WTBL                    | GSM PSTN          | ZTE           | 100 Sites              |

|                     |           |         |                 |
|---------------------|-----------|---------|-----------------|
| (WordTel GSM)       |           |         | (all the Sites) |
| CityCell (PBTL)     | CDMA PLMN | Huawei  | 30 sites        |
| Orascom Telecom Ltd | GSM PLMN  | Huawei  | 20 sites        |
| AKTEL GSM operator  | GSM PLMN  | Huawei  | 50 Sites        |
| Teletalk, BTTB      | GSM PLMN  | Siemens | 20 sites        |

## **Design of Microwave Towers, construction of foundations for rooftop and ground based Towers, Installation & Painting for:**

| <b>Service Provider</b> | <b>Technology</b> | <b>Vendor</b> | <b>Number of Sites</b>       |
|-------------------------|-------------------|---------------|------------------------------|
| WTBL (WordTel GSM)      | GSM PSTN          | ZTE           | 100 Sites<br>(all the Sites) |
| CityCell (PBTL)         | CDMA PLMN         | Huawei        | 30 sites                     |
| Orascom Telecom Ltd     | GSM PLMN          | Huawei        | 20 sites                     |
| AKTEL GSM operator      | GSM PLMN          | Huawei        | 50 Sites                     |
| Teletalk, BTTB          | GSM PLMN          | Siemens       | 20 sites                     |

## **Electrification of Cell Sites for**

| <b>Service Provider</b> | <b>Technology</b> | <b>Vendor</b> | <b>Number of Sites</b>       |
|-------------------------|-------------------|---------------|------------------------------|
| WTBL<br>(WordTel GSM)   | GSM PSTN          | ZTE           | 100 Sites<br>(all the Sites) |
| CityCell (PBTL)         | CDMA PLMN         | Huawei        | 30 sites                     |
| Orascom Telecom Ltd     | GSM PLMN          | Huawei        | 20 sites                     |
| AKTEL GSM operator      | GSM PLMN          | Huawei        | 50 Sites                     |

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