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## Company Profile

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## **1 Data Fundi the Company**

Company Name: Data Fundi (Uganda) Limited  
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Data Fundi Uganda Limited is a limited liability company incorporated in Uganda and situated at the above address. Data Fundi is an IT and Telecom Consulting and Systems Integration Company.

Data Fundi has an aggregate experience base of over 30 years consisting of formal academic (Registered Engineers) and hands-on technical expertise that allows the company to undertake the most involving IT and Telecom activities. Our key personnel come with a rich experience in designing, installing and managing a wide range of data and telecommunications systems. Our adeptness in these fields has seen us managing some of Uganda's most exigent telecomm and Data systems projects. We have provided turnkey solutions for nation-wide broadcasters, Internet Service Providers, GSM companies and business entities requiring nation-wide connectivity.

## **2 Corporate Purposes**

### **2.1 Vision**

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Build Data Fundi into a professionally managed, profitable, self-sustaining and socially responsible enterprise providing leading, globally recognized ICT solutions.

### **2.2 Mission**

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Become a provider of choice for ICT products and services in the East African region through:

- Harnessing business opportunities presented by the global ICT environment
- Developing strong R&D competences
- Providing cutting edge products and services
- Building beneficial strategic alliances
- Visible regional presence

### **2.3 Corporate Objectives**

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1. Ensure that Data Fundi's shareholder value is maximised
2. Build an excellent brand image for the company underpinned by a customer-centric culture
3. Develop competences and provide services in key segments of the ICT sector such as Regulatory practices, Knowledge management, Enterprise solutions, Telecommunications infrastructure rollout support, Systems Integration supported by a vibrant R&D function.
4. Continuously identify and harness business opportunities presented by regional and global ICT initiatives such as Millennium Development Goals (MDGs), NEPAD, etc.
5. Build and maintain good governance structures that assure attainment of company's goals
6. Establish a committed and well motivated workforce
7. Build a strong reputation as a good corporate citizen

### **3 Key areas of operation**

Data Fundi is a value added technical services company with exceptional skills in:

- ICT Consultancy
- Regulatory Consultancy and Support
- ICT Systems Integration
- Infrastructure Rollout
- Develop ICT Solutions
- ICT Technical support

Data Fundi provides a broad range of high value services in each of the aforementioned areas with proven ability to manage people, capital and technology at levels of productivity that meet the most stringent demands of the fast growing information economy.

Data Fundi realizes that the selection of an IT or communications system is often a complicated and challenging task for most organizations. At the inception of its preferred system, every organization grapples with issues such as risk management, compatibility, usability, sustainability and scalability. Data Fundi services come in handy at this level. We work rigorously in concert with the client commencing with requirements gathering thorough requirements analysis, systems design and project implementation. We deliver highly customized systems and continue working with the client during the post-commissioning period providing technical support services which include scaling systems to meet the client's ever growing demands. Data Fundi knows that success in projects can only be achieved by demanding the utmost quality in supplies and professional skills. Data Fundi does this in order to realize complete customer satisfaction and ensure that the customer is always the first beneficiary of every endeavour.

Data Fundi's operations are split in two major divisions namely: Information systems services and telecommunications services.

## **4 The Information Systems Service Portfolio**

In the Information Systems Division, Data Fundi's main business is provision of consultancy services in needs assessment and design of customized Information systems that meet the client's specific requirements. Data Fundi also provides supervision of installation and commissioning works for Local Area Network (LAN) and Wide Area Network (WAN) solutions.

With back-stopping support from our telecommunications division, our IT specialists are able to handle just about any communications challenge that comes with the job. From time to time, various clients make the request for Data Fundi to deploy its vast resources to the physical implementation of customized LAN and WAN solutions. We have a wealthy experience in the implementation of optical fiber connectivity, wireless and cable networks.

### **4.1 The African Development Bank annual meetings 2004**

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Client:	Ministry of Finance, Planning & Economic Development
End User:	Delegates to the ECA/ADB annual meetings, 2004
Project Value:	~USD \$750,000 (IT & Communications component only)
Financier:	The Government of Uganda
Project Manager:	Edward Kasule Musisi

#### **4.1.1 Project Description**

The African Development Bank is a multinational development bank supported by 77 nations from Africa, North and South America, Europe and Asia. The Bank is engaged in promoting the economic development and social progress of its Regional Member Countries in Africa. Governors of the African Development Bank met in Kampala, Uganda, on May 25 and 26, 2004 for the 39th Annual Meeting of the ADB and the 30th Annual Meeting of the African Development Fund (ADF). The Governors are Ministers of Finance and Central Bank Governors or their representatives from the ADB Group's 77 member countries.

For the second year in a row, the meetings were organized back to back by the Bank and the Economic Commission for Africa (ECA), bringing together all of the region's Finance Ministers and Central Bank Governors for what has been billed as Africa's most important economic gathering of the year. Also represented were ministerial delegations from the 24 non-regional members of the ADB. The events which lasted a total of two weeks attracted over 2500 local and international delegates.

#### **4.1.2 Scope of work**

In May 2004, Governors of the African Development Bank met in Kampala, Uganda, for the 39th Annual Meeting of the ADB and the 30th Annual Meeting of the African Development Fund (ADF). For the second year in a row, the meetings were organized back to back by the Bank and the Economic Commission for Africa (ECA), bringing together all of the region's Finance Ministers and Central Bank Governors for what has been billed as Africa's most important economic gathering of the year. Half a year before the meetings, the ADB Group and the ECA dispatched a joint delegation to key African countries to ascertain these countries' state of preparedness to host the ECA/ADB Annual Meetings 2004. Data Fundi, working with the Government of Uganda met and interacted with the delegation to assess the IT and communications requirements for the conference. At the close of the mission, Data Fundi proposed and presented a system design that would deliver Private voice, data, Video conferencing and Internet services to any location in

Uganda that served as the main venue for the meetings. The strength of this IT and Communication systems solution was key in the decision to award Uganda the bid to host the 2004 annual meetings of the ADB and ECA.

Following Uganda's successful bid to host the ECA/ADB Annual Meetings, the Government of Uganda contracted Data Fundi as consultants to advise on the best way to ensure that IT and communications services for the meetings are provided in an efficient and cost effective manner.

Our engineers supervised the installation and commissioning of information systems ensuring that contractors followed the most stringent installation standards for structured cabling, optical fibre, microwave wireless, desktop applications and workstation peripherals. We set minimum standards for National Operators to provide telecom and Internet services. We monitored quality of service and conducted all service providers through rigorous continuous performance improvement exercises to guarantee satisfaction for Conference delegates. Data Fundi engineers supervised the installation of a versatile IP-based video conferencing facility and carried out meticulous testing to ensure flawless operation.

In November 2003, the ADB group and the ECA dispatched a joint delegation to key African countries to ascertain these countries' state of preparedness to host the ECA/ADB annual meetings 2004. Data Fundi, working with the Government of Uganda met and interacted with the delegation to clearly assess the IT and communications requirements for the conference. At the close of the mission, Data Fundi proposed and presented a system design that would deliver Private voice, data, Video conferencing and Internet services to any location in Uganda that served as the main venue for the meetings. Based on this and other presentations in the areas of accommodation, transport and conference facilities, Uganda was awarded the bid to host the 2004 annual meetings of the ADB and ECA.

Following Uganda's successful bid to host the ECA/ADB Annual Meetings, The Government of Uganda through its line ministry, The Ministry of Finance, Planning and Economic Development (MoFPED) contracted Data Fundi as consultants to perform the following tasks:

- Advise on the status and availability of conference facilities in terms of Information Technology and Communications systems at the main conference venue.
- Assist in refining the detailed specifications of IT and communications requirements.
- Assist in the procurement process for IT and communications equipment.
- Advise on the best way to ensure that IT and communications services for the meetings are provided in an efficient and cost effective manner.
- Work together with the Government of Uganda, ADB and ECA counterparts during the preparations of the meetings
- Provide advice, assistance and services in any other IT and communications issues as may be deemed relevant and crucial.

Our engineers oversaw the installation and commissioning of a 200 workstation LAN ensuring that contractors followed the most stringent installation standards for structured cabling, optical fiber, microwave wireless, desktop applications and workstation peripherals. We also supervised the installation and commissioning of a 350 terminal private voice network complete with fax and external trunk capacity. We set minimum standards for the Internet service, monitored quality of service and conducted all service providers through rigorous continuous performance improvement exercises to guarantee satisfaction for conference delegates. Implementation of Internet hotspots was closely supervised by our engineers who rigorously tested and continuously monitored performance of wireless routers and network interfaces at three major public access locations on the premises. Data Fundi engineers supervised the installation of a versatile IP-based video conferencing facility and carried out meticulous testing to ensure flawless operation. Data Fundi engineers inspected the existing power system and suggested improvements

including backup, redundancy and contingency options that ensured availability of sufficient power to run the systems through the conference duration. At the close of the conference, Data Fundi managed the equipment recovery exercise accounting for all pieces of equipment deployed at the main conference venue.

## **4.2 The Uganda District Administrative Network Programme**

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Client:	Ministry of Local Government
End User:	District administration
Project Value:	USD \$325,000
Financier:	The Government of Uganda
Project Manager:	Kato William Bitarabeho

### **4.2.1 Project Description**

The District Administrative Network Programme or District Net was initiated by the Ministry of Local Government (MOLG) in March 2001. The project was aimed at addressing major IT and communications challenges faced by district local governments in the areas of record keeping, financial management, project management, and policy implementation among others. The project was therefore designed to:

- Introduce data and voice communication links between districts and lower local governments.
- Introduce electronic data processing in financial management, data communication, data storage and analysis.

In its pilot phase the project rolled out to 15 sub-counties located in the four regional districts of Kayunga, Lira, Mbale and Mbarara. After a successful pilot project implementation, the MoLG now plans to roll out the project to Uganda's over 900 sub-counties in 56 districts.

### **4.2.2 Scope of work**

In April 2003, Data Fundi designed and presented to the MoLG a system design to improve private voice and data communications in the typical setting of a sub-county in rural Uganda. The design assumed absence of mains power and limited GSM coverage. Our engineers carried out power dimensioning for a solar system that would deliver stable AC power to one desktop computer, a printer and two lighting points for at least 6 hours daily.

In July 2003, Data Fundi was awarded the Ministry of Local Government contract to supply and install telephone systems in four districts and power systems in 15 sub-counties for the District Administrative Network project. Data Fundi supplied, installed and commissioned at each of the four district headquarters, a modern state-of-the-art 32 extension, 8 trunk line digital private telephone network. We also installed at 15 sub-counties a modern solar power system, lighting, desktop computer and deskJet printer. At these sub-counties Data Fundi also supplied and installed modern GSM handsets with data connectivity to the national head office. Remote sites were configured to dial-in and update database records at the resource center in Kampala.



**Fig 1: Installing Solar panels at Kenshunga Sub-county, Mbarara**

## **5 The Telecommunications Services Portfolio**

In the telecommunications services division, Data Fundi's key lines of business are consultancy services, systems design and integration, infrastructure rollout and technical support services. Data Fundi has in its employ, a highly motivated team of installers with a rich experience in erection of towers, installation of antennas, feeders, and lightning protection. Our telecom engineers have trained widely in Microwave Transmission systems, Radio Frequency Spectrum Management, Satellite Communications, Switching, Mobile Communications and Uninterruptible Power systems. Data Fundi has amassed a comprehensive inventory of tools and instruments including Bit error rate testers, Spectrum analyzers, VHF radio sets, Megger Det5/3R Earth tester, Garmin GPS handset, Rigger's kits complete with toolboxes and winches. With this wealth of technical resources, Data Fundi is ready to take on telecom projects of any magnitude. A few of the projects managed by our engineers are listed below:

## **5.1 The NURP Project**

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Client:	Siemens Mobile A/S
End User:	Uganda Telecom Ltd.
Project Value:	Approx \$9.7m
Project Manager:	Edward Kasule Musisi

### **5.1.1 Project Description**

The Uganda government through the Office of the Prime Minister implemented the Northern Uganda Rehabilitation Programme (NURP) as a means to alleviate poverty in Northern Uganda. The programme spans major areas of development including Agriculture, Social services, local governance etc.

### **5.1.2 Scope of work**

The telecommunications sub-sector was implemented in two phases namely NURP I that saw the implementation of a 500Km SDH high capacity microwave link. In this first phase of the project, Data Fundi's main responsibility was to assist main contractors Siemens A/s in the implementation of the 500Km, 8-hop SDH high capacity backbone link that saw the delivery of modern voice and data services in Northern Uganda.

NURP II saw the installation of a 650Km 9-hop SDH microwave link and an additional 17 low capacity PDH hops bringing mobile phone services to various towns and counties in Northern Uganda. Data Fundi was again selected in the just concluded second phase of this project to participate in the installation and commissioning of a In collaboration with the main contractors, Data Fundi assisted in the management of various technical teams that installed and commissioned systems at more than 30 locations in Eastern and Northern. Data Fundi deployed at least 60 installers working in 12 semi-autonomous teams each under the supervision of a qualified telecommunications engineer. The engineers built capacity in their individual teams to install and commission systems at various sites in the shortest possible time and provide regular progress reports to the customer. The project was successfully completed in August 2005 and Data Fundi has been asked to stay on providing technical support to operations.

## **5.2 The Gabon Treasury WAN Project**

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Client:	Internet Gabon
End User:	National Treasury of The Republic of Gabon
Project Value:	Approx €5.7m
Project Manager:	Kato William Bitarabeho

### **5.2.1 Project Description**

The Gabonese government through the National treasury conceived this project as a means to implement E-governance. The national treasury was tasked with providing a national backbone on which all other government organizations with nationwide operations would ride to facilitate efficient delivery of services to the remote towns and prefectures

### **5.2.2 Scope of work**

In December 2002, Data Fundi was asked to provide one experienced engineer to serve as Project Manager for the Wide Area Network project under the treasury of the Republic of Gabon. Our engineer flew to Libreville where he installed and commissioned one 3.5m Intelsat-approved, telecommunications-grade satellite antenna at the Libreville head office complete with C-band feed, LNA, 20W radio earth station equipment, routers, voice and data systems. This provided the uplink to three other remote stations operating off 2.4m antenna systems configured with specific in-routes to the central site in Libreville. The Client had special training requirements to be effected by the Project Manager. Three skilled technicians were trained on VSAT systems installation and were able to complete remote sites' installation. The project manager then flew to three remote sites where he installed and commissioned the VSAT earth stations, routers and LAN equipment. The Project Manager configured the WAN to efficiently deliver private voice and data services. The project is now complete with interactive voice and data communication among 7 remote sites and one central site. The following photographs illustrate some of the works undertaken under the Project Manager's supervision.



**Fig 2: Commissioning VSAT station at Oyem - Gabon**

### **5.3 The MOH/STIP Project**

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Client:	Ministry of Health
End User:	Ministry of Information
Project Value:	USD \$5m
Financier:	World Bank
Main Contractor:	Ashford International
Project Manager:	Edward Kasule Musisi

#### **5.3.1 Project Description**

The Government of Uganda under the Sexually Transmitted Infections Programme (STIP) of the Ministry of Health (MoH) required the efficient delivery of vital information on HIV/AIDS and other STI's to citizens dwelling in remote towns and villages. The Government of Uganda through its line ministry, the MoH contracted a US-based firm to supply and Install FM Sound Transmitters and Sound/TV Satellite systems to achieve this goal. The project was designed to provide considerable coverage of rural Uganda providing a platform for doctors, patients and other stakeholders to freely interact with the rural population. The effort was targeted at combating the spread of HIV/AIDS in the rural population that forms the core of Uganda's productive force. Our engineer Edward Kasule Musisi was hired by Ashford International from out of Atlanta, USA to serve as Construction Manager on this project.

#### **5.3.2 Scope of work**

The construction manager supervised the installation and commissioning of one 9.3 m Intelsat-approved, telecommunications-grade satellite antenna at Kampala complete with C-band feed, LNA, HPA, sound and TV encoders, amplifiers and automatic tracking. This provided the Uplink that would be received by up to 22 remote stations. The facility was also equipped with a downlink to be used for monitoring the transmissions and later for Programme contribution from upcountry. Eight 4.5m VSAT antennas complete with C-band feed, LNA, DVB receivers for FM sound program and video distribution. Ten 1000KW FM transmitters: Arua, Moyo, Kotido, Moroto, Kitgum, Hoima, Masaka, Lira, Soroti, Masindi. Six of the transmitter's sites were new undeveloped sites so the scope included the design and construction of tower bases, procurement and erection of towers. The rest of the sites were semi developed and the scope included refurbishment of the towers and power systems and the installation of new transmitting equipment as well as VSAT antennas for reception of sound and TV programs. The project is currently at about 80% completion. All the equipment has been delivered to site. The uplink installation is complete and ready for testing/commissioning. Installation of 6 FM transmitters is complete and four of these have been tested and ready to go on air. All the tower bases are completed. Two new towers have been erected. Four VSAT antennas have been installed and tested. The following photographs illustrate some of the works undertaken under Edward's supervision.



**Fig 3: Tower base construction**



**Fig 4: Tower Construction**



**Fig 5: Complete Tower**



**Fig 6: 9.3m antenna installation at uplink site in Kampala**

## **5.4 The UCC RCDF Project**

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Client:	Uganda Communications Commission -Rural Communications Development Fund (RCDF)
End User:	Beneficiaries of the RCDF
Project Value:	USD \$500,000
Financier:	World Bank
Project Consultant:	Edward Kasule Musisi

### **5.4.1 Project Description**

Uganda is a landlocked country covering an area of 235,885Sq. Km with a population of 25Million people most of who are living in rural areas. Prior to 1996, Uganda's communications infrastructure was among the least developed, not only in Africa, but also in the whole world. At the end of 1996 Uganda had 45,145 fixed lines which translate in a tele-density of 0.21 per hundred people. Recognizing the fact that a well developed communications infrastructure plays a vital role in the development of a country, the Government of Uganda pronounced a Telecommunications Policy in 1996 which was aimed at reforming and restructuring the communications sector as one of the strategies for promoting and bringing about rapid development in the sector. This above policy resulted into the enactment of the Uganda Communications Act in 1997, which not only provided for the restructuring of the communications sector in Uganda but established a legal framework for the development of the sector. This led to the establishment in 1998 of the Uganda Communications Commission as an independent regulator. Pursuant to its objective to develop and improve rural communications services, and as spelt out by the Uganda Communications Act of 1997, the UCC setup the Rural Communications Development Fund (RCDF) to act as a means of intervention to ensure that basic communication services of acceptable quality are accessible, at affordable prices, and at reasonable distances, by all people in Uganda!

Through the RCDF, the UCC provides subsidy financing to qualifying private sector companies to set up telecommunications and IT projects in disadvantaged rural areas. The projects are implemented under Subsidy Financing Agreements between the UCC and the respective subsidy beneficiaries. Following a process of competitive bidding by individual consultants for the assignment, the UCC selected our Mr. Edward Kasule Musisi to be Technical Auditor of the Projects. The role of the Technical Auditor is to verify that projects are implemented in accordance with the respective Subsidy Financing Agreements.

### **5.4.2 Scope of work**

The projects fall in the following areas: Internet Points of Presence, public payphones, Internet Cafes, vanguard ICT Training Institutions and IT Content Development. Projects qualifying for UCC subsidies are typically located in disadvantaged districts. During 2003, the Technical Auditor audited projects in districts including Arua, Kasese, Mbale, Mbarara, Nakasongola, Masindi, Hoima, Luwero, Gulu, Pallisa, Busia, etc... The UCC is implementing a new line of subsidies in the year 2004 covering a much wider scope and has once again selected our Mr. Edward Kasule Musisi to serve as Technical Auditor.

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<sup>1</sup> The RCDF Policy: <http://www.ucc.co.ug/rcdf/about.html>

## **6 Other projects executed under our engineers' supervision**

- Installation and commissioning of Private voice and data network for Centenary Rural Development Bank Kabale Branch. 35 data points, 12 voice points complete with centralized UPS power with 15 outlets. Project value estimated at US \$25,000.
- Installation and commissioning of Private voice and data network for Unophone (U) Ltd at new premises on Kanjyoka Street. 15 data points, 12 voice points complete with centralized UPS power with 15 outlets. Project value estimated at US \$10,000.
- Installation of 3 remote VSAT earth stations for MTN Uganda with project value estimated at US \$100,000 in the year 2002.
- Installation of 3.7m VSAT antenna system for MTN with project value estimated at US \$30,000 in Kampala in the year 2001.
- Installation and commissioning of a wireless MAN for ISP Dehezi International estimated at US \$20,000 in Kampala in the year 2001.
- Installation and commissioning of 3.8m antenna system for One2net ISP estimated at US \$80,000 in Kampala in the year 2001.
- Installation and commissioning of 3.8m antenna system for USAN-Lebanon ISP estimated at US \$30,000 in Beirut in the year 2001.
- Installation and commissioning of Satellite earth station for Telecommunications services worth US \$80,000 in Bujumbura in the year 2000.
- Installation and commissioning of VSAT system for Telenor-Norway estimated at US \$60,000 in Luanda, Angola in the year 1999.
- Installation of HF communication system for the Uganda Government estimated at US \$200,000 in various parts of Uganda in the year 1993.
- Planning and supervision of the KBO microwave radio system for Uganda Posts and Telecom Corporation in the years 1990-1991.
- Installation and commissioning of 3.8m Patriot antenna with IPsec DVB System for Uganda Telecomm Ltd. at telephone House Kampala with project value estimated at US \$10,000 in the year 2002.

- Installation and commissioning of 3-terminal VSAT WAN for Bwana Mukubwa mines at Ndola Zambia for private data and Internet services. Project value estimated at US \$100,000, executed in 2002.
- Installation and Commissioning of 3.8m Prodelin antenna SCPC system for DATCO – Bukavu, Democratic Republic of Congo. Commissioning of ISP servers, routers and VoIP wireless access equipment. System used by kivu-online.com ISP for Internet services and VoIP applications. Project estimated at US \$150,000 executed in March 2002.
- Commissioning of 4.5m Andrews antenna SCPC link for SpaceNet (U) Ltd ISP. Re-commissioning of ISP equipment executed in August 2001 estimated at US \$20,000.
- Installation and Commissioning of Eleven sites, 2.4m antenna Gillat VSAT systems for the SchoolNet Uganda project. Systems installed complete with 24hr autonomy power backup and 10 workstation Labs delivering 128Kbps data throughput to the Internet Backbone estimated at US \$250,000 and implemented in August 2000.
- Installation and Commissioning of 3.8m Prodelin antenna, Gemini VSAT system for Citibank (U) Ltd. Private data system implemented in May 2000 estimated at US \$50,000.
- Installation and Commissioning of 2 VSAT terminals for Barclays Bank (U) Ltd. 2.4m antenna with Hughes PES systems delivering 256Kbps private data to regional offices in Harare. Implemented in March 2000 estimated at US \$100,000.
- Installation and Commissioning of 7 VSAT terminals for the Uganda Revenue Authority. 2.4m antenna with Hughes PES systems, 5W radio, up linking to the GulfSat network delivering 256Kbps Private Voice and Data to Revenue Inland and Border ports nationwide. Setup Mail and Internet servers, LANs at each site. Implementation in October 1999 estimated at US \$450,000.

## **7 Key Management**

### **7.1 Edward Kasule Musisi- Managing Director**

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In addition to being a top notch hands-on RF engineer, Edward has a long and rich experience in project management, with international exposure. Edward is currently engaged as the Uganda Communications Commission (UCC) Technical Auditor for the Rural Communications Development Fund (RCDF). Edward is evaluating and monitoring investments in the fields of Internet PoPs in 45 districts, web content for all of Uganda's districts, public pay phones all under the \$10m RCDF project.

In November 1999 Edward has hired by Teledenmark in Blantyre Malawi to serve as Radio Regulatory Advisor for the Malawi Communications Regulatory Agency under a DANIDA technical assistance project. Edward assisted in organization development, recruitment and training of staff. Edward has served in several companies and organizations in prominent positions as detailed in his resume.

### **7.2 William Kato Bitarabeho- Director Engineering & Operations**

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William, our director for Engineering and Operations is a hands-on engineer with many projects to his credit. He has a rare combination of both IT and RF skills. William is frequently outsourced by companies in East Africa to do projects as far a field as Gabon and Zambia. William comes with over 6 years experience in installation and management of Voice and Data networks. William has been actively involved in the setup of five Internet Service Providers in the East African region.

In February 2000 William was engaged to setup internet services at Wilken AFSAT in Kampala. William rolled out Kampala's first commercial wireless MAN comprising six base station sites and over 150 client nodes. William managed clients' LANs installing and configuring over 80 Linux and Windows NT servers. He continued to provide E-commerce solutions to clients and suggested products that increased company revenues by over 33% in 12 months. William managed AFSAT's satellite earth station at the then UDB towers on Hannington road together with a high priority group of corporate clients owning over 30 satellite earth stations countrywide inclusive of the Uganda Revenue Authority which had seven terminals at the time.

William also managed the Kivu online project in Bukavu, Eastern DRC in March 2002 installing a 3.8m antenna satellite earth station, configuring routers and system servers, the breeze access voice and data wireless access system and installing a wireless MAN of 7 base stations and over 30 customer sites.

William Bitarabeho was in May 2001 hired by Global Electro-Comm. International, Inc., based in Dallas- Texas as the in-country project engineer supporting local business interests and performing business development. He designed and prototyped the Global Electro-Comm Uganda ISP offering, Global Online, installed a 3.8m antenna earth station, routers and system servers.

William holds a Bachelor of Science degree in Electrical engineering, from Makerere University William is also a wireless systems certified engineer with Alvarion based in Tel-Aviv Israel.