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<http://www.fibernetworks.co.za>

EXECUTIVE SUMMARY

Company Profile

Introduction

Fibre Utility Networks has been providing Fibre Optic Solutions to various industries across the continent for over 14 years. Initially the primary focus of the company was on installation and fusion splicing of optical fibre, but as demand for total Turnkey Solutions increased so Fibre Utility Networks vision and focus developed.

Fibre Utility Networks is a fibre optic systems company providing solutions to Corporate, Mining and end users in the Telecommunications, CCTV, Access Control as well as Process and Data-Communication industry

Vision

At Fibre Utility Networks we strive to engage in sustainable business practises, as well as anticipate and provide for the needs of our customers, while keeping abreast of the latest trends within the Fibre Optic Industry

Mission

Fibre Utility Networks aims to provide the best possible solution in order to meet our customer's needs, in both technical advice and service provided. We undertake to support our technical teams by providing them with state-of-the-art equipment and relevant training. Our staff is dedicated to provide a service which is based on Honesty, Integrity and Accountability

SERVICES

- Buried and aerial fibre optic cabling installation including all accessories poles and ducting.
- Fusion splicing of single and multimode mode optical fibre.
- OTDR testing and reporting of fibre optic infrastructures.
- Installation of dome joints, splice enclosures, patch panels, outdoor cabinets, kiosks, patch cabling, ruggedized leads and data centre cabinet fit-out.
- Installation and assembly of all copper related network cabling including CAT5/6/7, patch panels and interconnecting cabling.
- Fibre to the home installations, including point to point and PON/GPON terminations and splitters
- Installation and configuration of fibre access switches for point to point applications.
- Installation and configuration of industrial network switches
 - <https://www.ctsystem.com>
 - <http://www.antaira.com>
- Installation and configuration of remote monitoring systems
 - <https://www.nagios.org>
 - <https://www.paessler.com/prtg>
 - SNMP monitoring
- Fabrication and fit-out of portable site control rooms with the following built-in services ready to deploy on site:
 - a. Network/Server cabinet
 - b. Furniture, including operations desk, voip phone, access control station, investigation pc and surveillance monitoring accessories.
 - c. Double, bi-directional turnstile with biometric access control (Controlsoft, Paxton and Sagem)
 - d. Video Wall for camera monitoring.
 - e. Insulation, rubberized flooring and climate control for IT cabinet.
- We are certified for the installation and commissioning of the following access control systems and related hardware:
 - ControlSoft
 - Paxton
 - Sagem
 - Tyco Security Products
 - Customisation and integration to SQL services
- Installation and commissioning of surveillance systems and related hardware
 - Arteco
 - Hikvision IVMS
 - Samsung
 - IndigoVision
 - Ivideon, including cloud services
 - Custom integration to third party systems
- NVR and raid configurations
- Windows server and SQL installations
- SQL database configurations

- Installation, commissioning and software development of internet gateway for remote monitoring and control (Internet of Things)
 - ICPE open platform gateway - <https://www.ctsystem.com/en/product/product.php?fid=31>
 - IBM Watson integration
 - Kalos Inegration - <https://kalosis.com/>
 - Open Remote - <http://www.openremote.com/>
 - PHPoC - <http://www.fibernetworks.co.za/phpoc.html>

SUPPLY OF PRODUCTS

- Single and Multimode Fibre optic cabling. 4-288 Core buried or aerial.
- Blown fibre ducting and machines.
- Fibre optic patch cords – simplex, duplex, multi mode, single mode, SC/ST/LC/APC/OM3/OM4.
- Fibre optic pigtailed in any configuration.
- Dome joints, splice enclosures, patch panels, splitters and any interconnection or splicing related hardware.
- Fibre optic accessories including, visual fault locator, cleaver, tool kits.
- Comway fusion splicer - <http://www.fibernetworks.co.za/fibre.html>
- Deviser OTDR tester - <http://www.fibernetworks.co.za/fibre.html>
- CAT5/6 Network cabling, patch panels and connectors.
- Industrial network switches
 - <https://www.ctsystem.com>
 - <http://www.antaira.com>
- Fibre Switches
 - <https://www.ctsystem.com>
- IOT gateway
 - ICPE open platform gateway - <https://www.ctsystem.com/en/product/product.php?fid=31>
- Arteco Surveillance and monitoring software/hardware
- Custom built NVR to specification – Up to 80TB
- Custom Built Surveillance and monitoring server and desktop hardware up to 16 Core CPU/64GB Ram/Quad HDMI display to 4K resolution
- Surveillance cameras – Hikvision/Samsung or other IP related.
- Aluminium powder coated camera back boxes.
- Camera brackets – Wall and pole mount.
- Access control equipment and software
 - Tyco Security
 - ControlSoft
 - Paxton
 - Sagem
- PHPoC hardware - <http://www.fibernetworks.co.za/phpoc.html>

REFERENCES ACROSS AFRICA

- **Zambia**

- **Client** - First Quantum Mining Limited – Copper Mine
- **Scope** – Installation of 100+ km Aerial fibre with poles and accessories. 8000+ Splices with 1200 inter connections across more than 20 server rooms.
- Natively update 116 Microstation drawings to as built status of site.

- **Sierra Leone**

- **Diamond Mine**
- **Scope** – Installation of cameras and biometric controlled access doors, double turnstile and mobile control room, pre-fabricated in Johannesburg.
- Installation of 4C single mode fibre optic cabling across equipment enclosures on site.
- Project related Microstation drawings, documentation and training manuals.
- On-site training provided to personnel.

- **Angola**

- **Diamond Mine**
- **Scope** – Installation of cameras and biometric controlled access doors, double turnstile and mobile control room, pre-fabricated in Johannesburg.
- Installation of 4C single mode fibre optic cabling across equipment enclosures on site.
- Project related Microstation drawings, documentation and training manuals.
- On-site training provided to personnel.

- **Botswana**

- **Diamond Mine**
- **Scope** – Installation of cameras and biometric controlled mantrap.
- Project related Microstation drawings, documentation and training manuals.
- On-site training provided to personnel.

- **Mali**

- **Scope** – Installation of fibre optic cabling at 2 mines.

- **DRC**

- **Gold Mine**
- **Scope** – Fibre and CCTV installation.

- **Morocco**

- **King Almaha**
- **Scope** – Perimeter fibre installation on game farm.

- **Burundi**

- **United Nations**
- **Scope** – Fibre optic and camera installation.

- **Guinea**

- **Gold Mine**
- **Scope** – Fibre optic installation for surveillance system.

REFERENCES ACROSS SOUTH AFRICA

FTTH PROJECTS

VUMATEL/FIBREHOODS/DARK FIBRE AFRICA

- 1000+ km Fibre to the home installations across Gauteng
 - Ducting
 - Blown fibre
 - Splicing
 - Fibre optic installation
 - HSE and site management

OTHERS

- New Kleinfontein Mine (Pty) Ltd (Gold one, Modder East Operations)
- York International (SA) Inc (Lonmin, MSD)
- Harmony Gold Mine Co Ltd
- Buffelsfontein Mine
- MH Aviation Services (Pty) Ltd
- Honeywell South Africa (Eskom Megawatt Park)
- RR Electronic Security Solutions (Maponeng, Armscor)
- CCTV Security Systems (Gauteng) (Pty) Ltd (Valpre) ABI
- Wright Holdings (MacSteel, Cipla, Barlows)
- Engen, Sasol, BP, Total
- Paramount Logistics
- SAS Institute (Pty) Ltd
- BiC South Africa
- FNB
- SolarWorx
- Atec
- Silverstar Casino
- Time Square Casino
- TicketPro Dome
- Ford SA