



Technology Telecom Infrastructure Profile

Your Trusted Solutions Provider



About us

ATX Technology Ltd. is a leading Technology Solutions provider, providing strategy, business, Transformation, implementation and operational Solutions for clients managing the business and Technology complexities.

We have grown out of the recognition that a successful business solution must combine technical expertise with keen business skills, Technology and the ability to provide a rapid and focused response.



Background

Because of the varying demands placed on the Market, ATX Technology is specialists in the Provision of turnkey solutions.

We offer solutions in the following areas:

- 1) Power Solutions
- 2) Telecommunications Solutions
- 3) ICT and IT solutions
- 4) Real Estate

Geographical Coverage

ATX Technology is fully established within East Africa and has Branches in Rwanda which is the Head Office and offices in Uganda and Burundi.

Our Contacts:

ATX Technology Ltd

P.O. Box 6632

Kigali-Rwanda

Telephone: +250-788307909

Mail: jntaganzwa@atxtecnology.co.rw or info@atxtecnology.co.rw

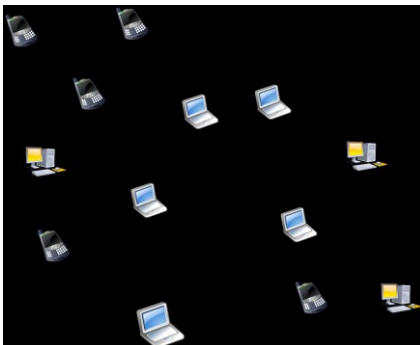
Private: ntaganzwaj@gmail.com

Website: www.atxtecnology.co.rw



TELECOM INFRASTRUCTURE:

ATX Technology offers telecom infrastructure services and products encompassing supply of equipment and infrastructure services for Telecom Network Operator, ISPs, Equipment Vendors, Telecom Service Providers and Utilities. We have a complete portfolio of services to rollout and operate your telecommunications infrastructure including planning, acquisition, network build, operations and maintenance. This enables you to run a leaner and more efficient operation focused on your business and to leave important task of telecom infrastructure to us.



Technologies we support

We provide a range of solutions covering applications in the following areas:

- Cellular networks
- Broadcast networks
- Broadband networks
- Microwave networks
- Fixed Line Networks

The technologies employed to rollout such networks are diverse and constantly evolving. Our ability to innovate and adapt to constantly changing needs of our customer has enabled us to build strong partnerships with both our customers and suppliers. For each technology we provide equipment, products, materials and infrastructure services that encompass the following scope:

- Core Network
- Transmission Network Access Network
- Customer Premise Equipment (CPE)

What We Do

We design and manage the delivery of the best solutions for our customers' requirements. By tailoring our products and services to fit your needs we can ensure that you maximise the efficiency of your rollout and network maintenance.

Professional Services

Network consulting (including planning and design)

Systems integration (including network migration, or “transformation”)

Network optimization

Technical Services

Deployment (including installation and commissioning)

Maintenance (including repair and replacement)

Support (including help desk and troubleshooting)

Training and education

Managed Services

Network outsourcing

Hosted and managed services and applications



ATX Technology Project Management

ATX Technology excels in providing Project Management, Engineering, Inspection, Maintenance and Utility Locating services. We regularly provide cost estimation services and curtail them to our Customers specific needs while utilizing our real world construction experience. This allows you more accurate budget provisioning and planning. Our staff regularly locates and records the as-built documentation of facilities and can provide you these services on a single need basis or can supply you with a long term contract, all of which will provide the proper coordination between the Local One Call Agencies and original requesting parties.

- Cost Estimation and Feasibility Studies Engineering – Survey & CAD
- Permitting – Building, ROW, DOT, RR and Municipalities
- Utility Locating
- Inspection – Quality Control & Guaranteed Installation
- Material Management – Turnkey Purchasing & Logistics
- As-Built Documentation – Final Records with depths and offsets

ATX Technology Fibre Optic Construction

ATX technology specializes in fibre optic network construction and installation. Our highly trained and professional workforce has successfully and timely completed some of the largest FTTH and fibre network construction projects in the country. Our fibre services include:

Project Management:

- Aerial Fibre Construction UG Fibre Construction Fibre Blowing
- Fibre Optic Electronics Installation Microduct Fibre Installation
- Full Documentation and Matrix Engineering of Construction and Testing
- Emergency Fibre Restoration FTTx Construction
- Cell Tower Back Haul Construction
- Complete fibre optic splicing (fusion and/or mechanical)
- Complete testing services, such as end to end, reel testing, and splice loss testing, ORL, power meter/laser source testing and WDM testing



ATX Technology Copper And Coaxial Construction

ATX technology specializes in all aspects of coaxial system construction and maintenance. Our services include:

- Project Management Aerial Construction UG Construction
- Copper & Coaxial System Upgrade System Sweep and Certification Walkout and Design
- Copper & Coaxial Splicing

ATX Technology Telecom OSP Construction

ATX Technology understands the complexity of copper and fibre-optic cable builds in. Whether connecting city to city - Long haul or providing the local loop Access networks within a metropolitan area or campus. Our end-to-end capabilities include everything from the initial design and engineering to all aspects of construction and maintenance of a fibre optic, Copper and Coax network.

New Build

- Routine Maintenance, Exposing,
- Lowering & Forced Relocation.

Decommissioning & Removal

- Cable Installation and Removal of New or Existing Conduits

Telecom OSP Aerial Construction

ATX Technology has experienced linemen, supervisors and quality control personnel. Our construction crews are knowledgeable with various strand configurations, fibre, and coax. to provide all the services to complete our customer's aerial projects.

Pole Installation, Change-out & Transfers

- Pole hardware, Anchor and guy Strand installation.

Fiber, copper, coaxial, cable, placing

- New Overhead Cable Installation through Aerial Conduit, ADSS Located, Strand and Lash.
- Splicing and testing of fibre, copper and coaxial cable

Telecom OSP Underground Construction

ATX Technology provides the necessary construction services required in the installation of all urban utilities. We apply our construction expertise and knowledge to the congested urban utility battlefield all the while exercising exemplified public safety and conscience consideration to environmental needs. Whether it's the installation of water, sanitary sewer, storm sewer, electric, gas or communication lines, we know what it takes to get the job done right.

- Open Trenching and Plowing under the most adverse conditions: Mountains, Rock, Paved areas, Swamps, wetlands, under water, Bridge crossing Road crossing and normal soils.
- Trenchless Construction Directional Drilling & Auger Boring.
- Telecom Pathways, Pipe and Duct Systems including Concrete Vault & Manhole Construction, Street Cabinets, Pedestal Interfaces and Pedestal Guards.
- Cable Placement through Cable Blowing, cable Pulls & Underground-Direct Buried/Conduit and Inner duct.

Paving Restoration

Asphalt removal and replacement Concrete removal and replacement Utility marker post installation



ATX Technology Telecom Equipment Installations:

Wireless Network Infrastructure & RF Equipment Services

ATX Technology provides turnkey Wireless Infrastructure Services and RF Equipment to various Telecom Operators & Equipment Vendors telecom operators, utility, broadcasting and tower companies.

Our offering covers:

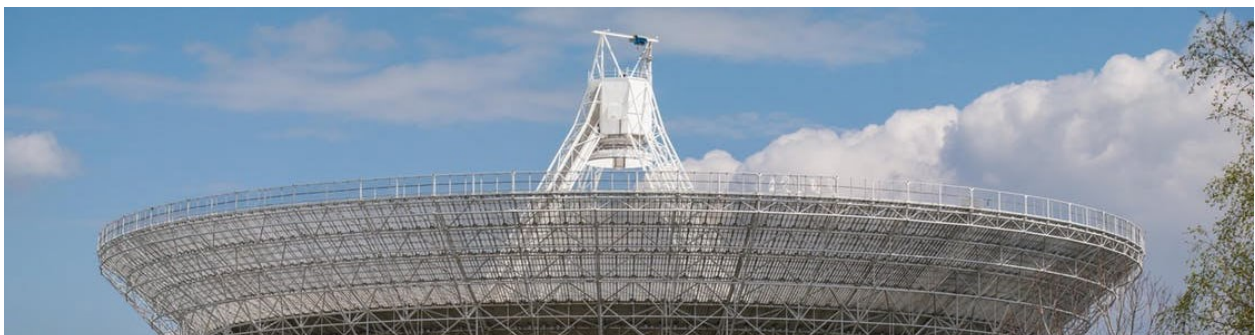
Complete Radio Access Network Planning & Design - Site selection & LOS RF site surveys, donor searches. Signal mediation Wireless Network Rollout, provisioning, and fully managed installations and maintenance.

Offering all wireless Technologies: 4G LTE, 3G, CDMA, GSM, HSDPA, EDGE, Wifi, WiMax including:

- BTS Equipment Installation
 - Antenna & RF Feeder Installations O Transmission & Alarm Integration O RF Testing
 - Configuration & Commissioning
- Microwave Link Installation
 - Dish, IDU & ODU Installations O IF & Waveguides cabling
 - Link Panning and Testing
 - Configuration & Commissioning Satellite – VSAT Installation.
 - All Civil works
 - Dish, IDU & ODU Installations
 - Antenna pointing
 - Earth Station Commissioning

Range of RF Equipment Rigging, Replacement, Commissioning Services.

We also offer emergency support, troubleshooting and maintenance.



Critical Power & Cooling Equipment Installation Services

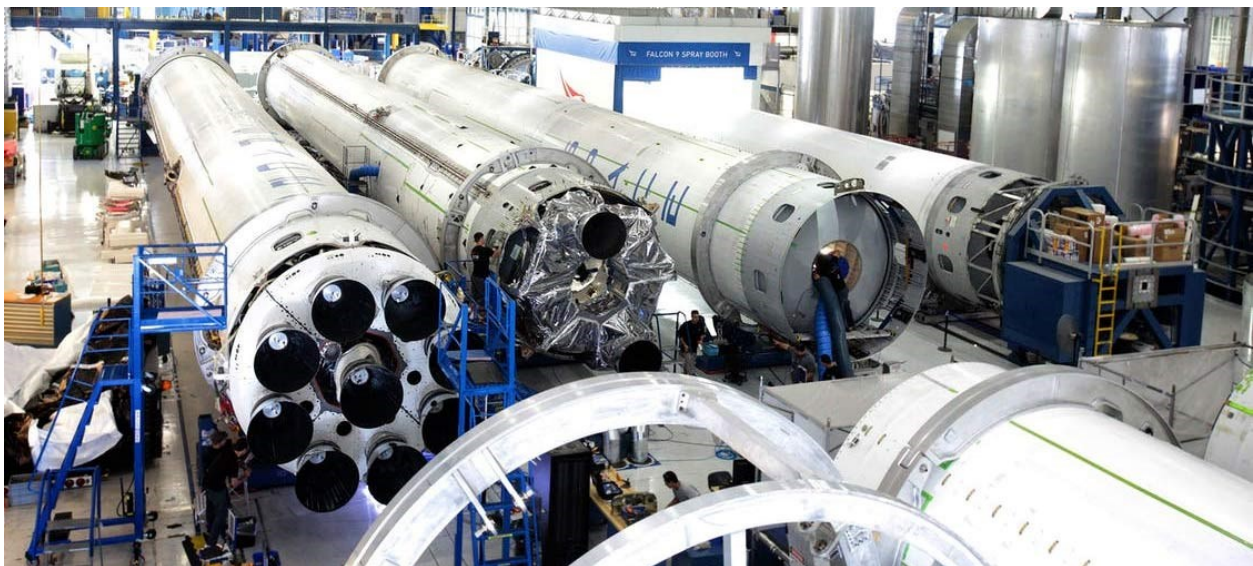
ATX Technology procures and installs critical power and cooling equipment for data centres, computer rooms, telecom sites, switch sites etc. Our focus is on providing our clients with the “best” solution to meet their needs.

Electrical Systems

- Uninterruptible Power Supply (UPS)
- Standby Power Generators
- AC Power Distribution Units (PDU)
- DC Power Electronics & Distribution
- Battery Systems- VRLA, NiCad & Wet Cell

Mechanical Systems

- Computer room air conditioning (CRAC) units
- Wall mounted HVAC units
- Ultrasonic Humidifiers & Water de-ionization



ATX Technology Inside Plant Cabling – Structured Cabling

Structured cabling provides the critical backbone of a communication system. We understand the complex issues involved in planning, installing and maintaining network communication systems. ATX technology provides a commitment that the telecommunications infrastructure, no matter how complex, will be designed, constructed and installed to meet current and future requirements.

Building Owner

Building owner / Tenant liaison for rout selection.

Permit identification and submission.

Copper & Fibre Backbone

Muti-pair copper

Multimode and single mode fibre optics SC, ST, LC, MTRJ & RG-11 trunks

Voice field layout and cross-connects Core Holes installations and Sleeves

Premise wiring

Station Wire Indoor Cabling Services

Category 3 5e, 5E and 6 for voice and Data Fibre optics to the desktop

Voice and Data Audio and Video RG-6 Coaxial Video Applications Zone distribution

Communication room build-out

Data Network Infrastructure

LAN/WAN engineering Wireless access points Voice over IP System Data centre design

Building Security Integration

Card access control

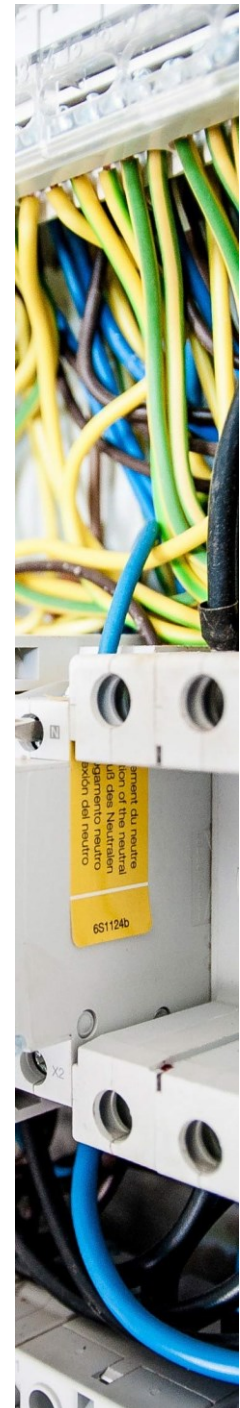
Closed circuit television (CCTV) Alarm monitoring

Fire detection and Suppresion

Testing and Documentation

ODTR Testing

AutoCad and Visio As-built drawings



ATX Technology Site Build

We consistently excel and exceed client expectations on our site development services. From a simple generator installation to a remote multi-tenant communications facility, ATX Technology has the capacity and experience to deliver.

Site Survey & Site Engineering

Site Survey & Site

Engineering Site selection

Structural and Design

Zoning, environmental, FCC, building and permitting

Project Management

Civil Construction Works

Site Preparation & Development:

Typically include site clearing and grubbing; rough grading of drainage swells; and development of erosion control measures.

Excavation:

Also followed by the subsequent

Backfilling and soils compaction activities

Earthwork Construction:

Movement of dirt on civil construction projects

Soil and Sludge Stabilization:

In-situ soil and sludge.

Concrete Work

Structural reinforced concrete is one of the most common building materials used in the construction industry today and can be classified as either precast or cast-in-place.



Equipment rooms and shelters

Equipment housing to protect against theft and vandalism and the weather is required throughout your network. ATX Technology is able to work with your building layouts and finishes to provide you with customised:

Prefabricated Equipment Shelters

Brick built equipment & Generator rooms Outdoor Shelters & Equipment Pads.

Steel Structure - Tower Erection and Painting

ATX Technology has experienced teams including Tower foundation civil works, Tower erection & painting, Remedial work: Replacement of damaged or rust-affected members, paint stripping & repainting, guy and insulator replacements, and repair work to the foundation is carried out after site visits and evaluations have taken place

- Mono Poles Guyed towers
- Self-supporting towers Lattice structures & Tubular masts
- Lightning, Earthing & grounding, design installation
- Steel Structure Foundation-



Case Studies



Electrical and Air-conditioning systems

Power and cooling system installation at new Warid switching center.

ATX Technology was contracted by Huawei to install all the switching, air conditioning and power equipment for the new Warid switching center. This involved installation of all IN, MSC and BSC cabinets, 2x100KVA Generators, UPS Systems, Air conditioners, Raised floor, Battery banks and switch power system cabling at their new switching center in Bugolobi.



Turnkey Civil works

ATX Technology is currently executing a contract to complete turnkey civil works for 10 fifty meter free standing towers. This covers tower foundation, erection and painting, fence installation, site compound and apron, generator installation and site earthing. This service has also been provided for 60 sites of Airtel Rwanda.



RF Installation and Civil works Frame Contracts

Frame contract for installation of BTS sites
ATX Technology is entering the second year of an annually renewable frame contract to carry out RF Fiber Optics and switch site installations for Huawei. ATX Technology has carried out extensive installation works

RF and electrical



Civil and electro-mechanical works for Uganda telecom

ATX Technology was contracted to do all civil and electromechanical works for 20 guyed towers, excluding tower erection. This covered BTS and generator slabs, generator installations, tower painting, site earthing, fence and compound.

Microwave and BTS network rollout for i-TEL

i-TEL is a new operator currently rolling out their network. ATX Technology was contracted to carry out civil and electromechanical works as well as BTS and microwave installations for 38 sites.



Maintenance SLA

Outside plant SLA for Optical fiber network
ATX Technology was contracted to install a fiber optic ring within Kampala. We are now currently providing Warid telecom with a comprehensive support level agreement covering both routine and emergency maintenance activities.



Wimax BST Installation

MTN Uganda- ATX Technology has installed over 40 Wimax BSTs for MTNs ongoing Wimax rollout. In addition we have been providing emergency response to callouts for ODU swaps and antenna changes as and when required.

MTN Rwanda- In 2012 ATX Technology has installed an ADSL Network in the Umucyo 300 house Real Estate in Kagugu.

under this contract including MTN, Tigo equipment installations and FOC

Have directly installed 12 GPON Sites (Fiber Connectivity to various Institution)

Tigo Rwanda

ATX Technology has done site Acquisition, Technical site Surveys for 100 sites

Powered the Initial MSC site in Gikondo, later moved to Nyarutaram

Have done Site maintenance, Refuelling, Generator Maintenance etc.

Contact CTO TIGO: Mr. Kasati Jameson
Tel: 0722123005

Airtel Rwanda:

ATX Technology conducted site Survey and Audit for 60 sites, provided As Built drawings and rectification Budgets

ATX Technology has done site rectification for the 60 sites of Airtel Rwanda including site infrastructure, civil foundations, site cleaning, plastering works, painting works, Site earthing audit and installation, Generator Installations

Installation of antenna brackets, lightening arrestors, rectifiers etc.

Painting of Towers, Site Fumigation Fences.

We represent major Industrial Paint manufacturers like Jotun

Contact: Juvenal Ukwigize Acting CTO Rwanda Towers
Tel: 0731000190

Why ATX Technology

The right support: We deliver services based on a common infrastructure that ensure:

- You have the right level of support based on flexible service level agreements that match your business needs and patterns of usage.
- You receive fast and responsive support from a single point of contact.

Strong alliance relationships: ATX Technology has maintained strong alliances with some of the world's leading technology providers including Huawei, Microsoft, Cisco, Novell Suse and Dell.

Contracted by Huawei, ATX Technology have implemented over 300 km fiber network (Gitrama-Huye, Kayonza-Rusumo, Ruhengeri-Gisenyi)

ATX Technology has installed MTNs Rings 1,2 and 3

ATX Technology is providing FOC Managed services for MTN in the area of Kigali-Gisenyi
In the year 207/2008, we provided network planning, Drive Test and Optimization for 160 Sites of MTN

List of major customers

The following are our major customers with ongoing projects:

- Warid Telecom
- Orange Uganda
- Uganda Telecom
- Huawei
- iTEL
- Alcatel

Over the past two years, elsewhere, we have also carried out projects with:

- Huawei Mauritius (Equipment installation)
- Ericsson (RBS, Microwave, Optimization)
- Celtel (Equipment Installation)
- Rwandatel (Equipment Installation, GPON)
- MTN Cameroon (Optimization)
- MTN Guinea (Optimization)
- MTN Swaziland (Optimization)



ATX Technology Ltd

P.O. Box 6632

Kigali-Rwanda

Telephone: +250-788307909

Mail: jntaganzwa@atxtecnology.co.rw

or info@atxtechnology.co.rw

Website: www.atxtechnology.co.rw