Nigeria

Country Profile	
Regulator	Nigerian Communications Commission
Acronym	(NCC)
Website	https://www.ncc.gov.ng/
Twitter	https://www.twitter.com/ngcomcommission
Contact	info@ncc.gov.ng
Ministry	Ministry of Communications & Digital Economy
Acronym	(FmoCDE)
Website	https://www.commtech.gov.ng/
Twitter	https://twitter.com/@FMoCDENigeria
Contact	info@commtech.gov.ng

National Policy

The Nigerian National Broadband Plan 2020-2025, published in April of 2020 is the latest articulation of the Nigerian government's broadband strategy. The document articulates the government's plan to deliver data download speeds across Nigeria of a minimum 25Mbps in urban areas, and 10Mbps in rural areas, with effective coverage available to at least 90% of the population by 2025 at a price not more than N390 per 1GB of data (i.e. 2% of median income or 1% of minimum wage)[1]. It was developed by the Ministry of Communications and Digital Economy which has overall responsibility for the strategic development of ICTs in Nigeria.

Operator Licensing

Nigeria has three broad types of operator licenses, an Individual License, Class License, and Unified License. It is worth noting that while the NCC uses the same terms (Individual and Class Licenses) as the South African regulator, for example, they do not mean the same thing. In South Africa, an Individual License denotes a license that is national in scope and a Class License refers to a smaller geographic region In contrast, an Individual License in Nigeria refers to a license to carry out a specific activity whereas a Class License refers to activities that are common to all operators. In this context an Individual License is contrasted with a Unified License which permits the operator to offer a range of services under a single license.

The list of possible licenses can appear intimidatingly complex but many of the licenses below represent legacy licenses which are no longer actively applied. For example, an internet service provider like Tizeti has a *Internet Services License* and *Private Network Links (Regional Operator) License* whereas a national mobile network operator like MTN has a *Unified Access Service License* and an *International Submarine Cable Infrastructure & Landing Station Services License*.

Individual License

"An Individual Licence is a type of authorization in which the terms, conditions and obligations, scope and limitations are specific to the service being provided. Process of licensing can take the form of

Auction, ""First Come First Served"", ""Beauty Contest"" or a standard administrative procedure, etc."

- Internet Services
- Non-Commercial Closed User Group
- Sales & Installation
- Unified Access Service Licence
- International Data Access
- International Gateway
- Interconnect Exchange
- Metropolitan (Fibre) Cable Network
- National Carrier
- National Long Distance Communications (NLDO)
- Public Mobile Communications - Trunk Radio Services
- International Submarine Cable Infrastructure & Landing Station Services
- Value Added Services - Aggregator
- Value Added Services (VAS)
- Call Center Services (CCS)
- Call Directory Services (CDS)
- Content Services Using Shortcodes (SNC)
- Prepaid Calling Services (PPC)
- Special Number Services (SNS)
- Infrastructure Sharing & Collocation Services
- Automated Vehicular Tracking Service
- Open Access Fibre Infrastructure Network (INFRACOs)
- Wholesale Wireless Access Service
- Private Network Links (PNL) (Telephony Services- Fixed/Wireless)
- Local Exchange Operator

Class License

A Class Licence is a type of general authorization in which the terms and conditions/obligations are common to all license holders. Requires only registration with the Commission for applicants to commence operation.

- Sales & Installation
- Repairs & Maintenance of Telecoms Facilities
- Cabling Services
- TeleCenter/Cyber Café
- Public Payphone Services

Unified License

A Unified Licence is an authorization that allows the licensee to provide a basket of services under a single license. For example, under a Unified License, the licensee may be allowed to provide Mobile and Fixed telephony services, National Long Distance, Gateway services under one license, it can be Regional or National Services.

Full list of license types and licensees.

Technical and Administrative Requirements

Individual License Application Requirements

Application form for ₦1,000.00 payable to Nigerian Communications Commission

All license applications require the following: *

- Certificate of Incorporation.
- Tax Clearance Certificate.
- Certified true copy of Articles & Memorandum of Association.
- Certified true copy of form CO7 (particulars of Directors)
- Feasibility report of proposed service applied for (where applicable).
- 3 Passport photographs of authorized representative.
- Passport photographs of Directors of the company

Enquiries should be made to the Commission for the appropriate amount before payment.

On submission of the form, a non-refundable administrative charge; which is 5% of the relevant license fee is due.

Full details of licensing administrative requirements can be found at https://ncc.gov.ng/licensing-regulation/licensing/licensing-procedures

Licensing Fees

Using the two examples above of the ISP Tizeti and the MNO MTN, fees break down as follows:

Operator	License	Term	Fee (₦)	Fee ($)
Tizeti	Internet Services License	5 yrs	500,000	~1300
	Private Network Links (Regional Operator) License (National?)	10 yrs	44,600,000	~116,000
MTN	Unified Access Service License	15 yrs	negotiated	
	International Submarine Cable Infrastructure & Landing Station Services License.	20 yrs	~80,545,800	210,000

Full list of license fees and terms.

Access to Spectrum

Technical and Administrative Requirements

Licensed

Spectrum for IMT frequencies is typically assigned via auction in Nigeria. NCC maintains information on past, current, and upcoming spectrum auctions.

The following table lists the IMT frequencies that have been assignment to operators. Where the data is expressed with the prefix 2X, it refers to FDD spectrum assignment which requires paired uplink and downlink frequencies. Thus 2×10 would refer to 10MHz uplink and 10MHz downlink spectrum.

Operator	700 MHz	800 MHz	900 MHz	1800 MHz	2100 MHz	2300 MHz	2600 MHz	3500MHz
9mobile			2X5	2X15	2X10			
Airtel			2X5	2X15	2X10			
Bitflux						30		
Glo Mobile	2X10		2X5	2X15	2X10			
MTN	2X10	2X10	2X5	2X15	2X10		2X30	30
Smile		2X10						
Spectranet						20		
Swift						20		
ntel			2X5	2X15				

CSV Export

PtP Networks

License-Exempt

Operators deploying networks using License Exempt frequencies are obliged to submit details of each deployment to NCC, including the following information:

- Equipment Serial Number
- Operators Name
- Frequency Band (GHz)
- Exact Frequency Range (GHz)
- Type Of Service (e.g Internet Service,Backhaul Datalink, etc)
- Deployed Architecture (P-P,P-MP)
- States Of Deployment
- Coverage Distance (meters)
- Site Co-ordinates (Decimal Degrees)
- Site Address
- Peak TX Power (dBm)
- Max. EIRP (dBm)
- Contact Person
- Contact Person Telephone
- Contact Person Email

NCC provides a downloadable spreadsheet template for this purpose.

<todo>Confirm whether there is compliance with this requirement in practice</todo>

Power Output Limits

Frequency	Power Limit (EIRP)	Power Spectral Density (mW/Mhz)
2.4GHz		
2400 – 2483.5 MHz	100mW	

Frequency	Power Limit (EIRP)	Power Spectral Density (mW/Mhz)
5GHz		
5150-5250 MHz	N/A	
5250-5350 MHz	1W (WRC=200mW)	50
5470-5725 MHz	4W	
5725-5800 MHz	4W (1W TX)	50

The 5.4 GHz band is designated for unshared, coordinated and protected use of WAS The 5.3 and 5.725 –5.8 GHz bands are designated for the shared, uncoordinated and unprotected use of wireless access systems.

For more information, see

Regulatory Guidelines For Deployment Of Broadband Services On The 5.2-5.9GHz Band[2] and

Guidelines On The Use Of Short Range Devices In Nigeria[3]

<todo>Confirm licensing procedure for 5470-5725 MHz</todo>

Secondary Use

Access Networks

PtP Networks

Spectrum Fees / Costs

Annual

The price of spectrum (excluding microwave frequencies) is calculated on an annual per state basis using the following formula;

```
Spectrum Fee = (U) × (B) × (K1) × (K2) per State
```

Where;

- U = Unit Price: This varies according to Licensing Region/Tier of the State in which the applicant seeks to operate.
- B = Assigned Bandwidth (Spectrum Size) in MHz
- K1 = Band Factor
- K2 = Tenure Duration Factor

Duplex/Simplex. For simplex channel, unit price per State will be half of equivalent duplex channel.

<todo>Add example calculation here</todo>

Microwave Fees

Microwave frequencies are not priced on State basis. Unit price is uniform throughout the Federation and subject to review, from time to time. The fee for microwave frequencies is calculated using the formula below.

```
Price per Hop = (U) × (F1) × (F2) × (N) per Annum
```

Where;

- U = Unit Price: N18,000
- N = Total Number of RF Channels (for N+1 Systems)
- F1 = Band Factor
- F2 = Bandwidth Factor

All microwave frequencies are subject to renewal by 31st December of every year.

<todo>Add example calculation here</todo>

Full details available at https://ncc.gov.ng/technical-regulation/spectrum/frequency-fees-pricing

Auction

Backhaul

BTRAIN - Backbone Transmission Infrastructure

Over 3,250 km of Fibre Optic Cable running across the six geopolitical regions is being deployed through provision of subsidy to leading fibre and transmission infrastructure companies. The project will create about 83 Points of Presence (PoPs) in towns and cities along the routes thus bringing access to broadband services for an estimated population of 9,229,182.

The BTRAIN project is also serving as an enabler to the realisation of the Nigeria-Niger Joint Commission's desire to facilitate the extension of optic fibre cable connectivity to Niger Republic being one of the landlocked countries.

More detail.

Galaxy Backbone / National Information and Communication Technology Infrastructure Backbone (NICTIB)

Galaxy Backbone's mission is to drive national development through the provision of pervasive ICT infrastructure and services to public institutions, under-served communities and other stakeholders.

Galaxy Backbone built and operates the National Information and Communication Technology Infrastructure Backbone (NICTIB) a cross-country optical fibre backbone. In its first phase, which has been completed, commissioned and covers a distance of 1484 km, the backbone spans 13 states across the South East, South South, North Central and South West of Nigeria with base stations installed in 17 cities.

More detail.

Phase3

Phase3 Telecom is an aerial fiber optic network infrastructure provider, providing connectivity, network management and data storage services to wholesale, enterprise and retail customers across West Africa. Incorporated in 2003, Phase3 currently operate a 6,000km open access, aerial fibre optic network.
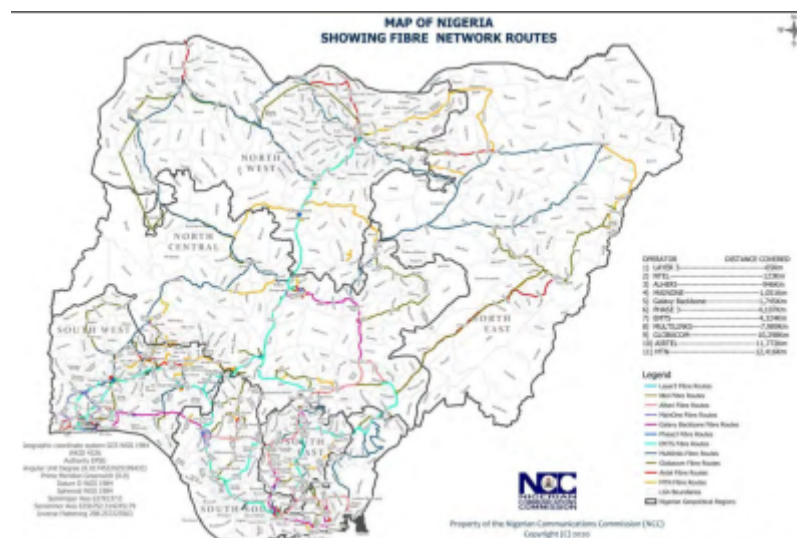
More detail.

MTN

MTN is the largest mobile network operator in Nigeria and operates a substantial national fibre optic network. Map of MTN Fibre Network Map.

National Broadband Plan 2020

The National Broadband Plan 2020-2025 has a map of current fibre optic infrastructure. See below.

Gender

Gender Equality goal in National Broadband Plan 2020 <callout> 100% of Women in National Social Investment Programs have Digital Access. Target up to 5 Million women (Close gender gap from 15% to 10% mobile internet users. A4AI)</callout>

Female Youths in Science and Technology in Nigeria: Undoing Unrecognition through Public Policy [4].

GSMA Connected Women. The Mobile Gender Gap Report 2020 [5]

Universal Service

The Universal Service Provision Fund (USPF) was established to facilitate the achievement of national policy goals for universal access and universal service to information and communication technologies (ICTs) in rural, unserved and underserved areas in Nigeria.

Cooperatives

Cooperatives have existed formally in Nigeria since the 1930s but have an informal history that dates back much further[6]. They have largely existed in the agricultural and finance sector. They are not an unalloyed success with some cooperatives facing challenges of corruption and/or poor management but equally there are many successful Nigerian cooperatives[7][8].

Cooperative Societies in Nigeria are governed by the Nigerian Cooperative Societies Act which provides for the registration of Cooperative Societies. There are several guides online to registering a cooperative in Nigeria. The Co-operative Federation of Nigeria is the umbrella body for cooperatives in Nigeria.

As of August 2020, cooperatives have yet to be introduced into the telecommunications / internet sector although there does not appear to be a barrier to their operation in this sector.

Resources / References

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