



## ITU SURVEY ON TARIFF POLICIES 2017

### Instructions

It is recommended to use the online version of this survey available on the ITU ICT EYE website at [www.itu.int/ITU-D/icteye/](http://www.itu.int/ITU-D/icteye/). In this website you will also find the results from the 2016 survey. If for some reason you are unable to fill in the survey on line, then feel free to use this file.

You will find two types of data entry in this survey:

- Several possible replies  
 Only one possible reply

This questionnaire is addressed to National Regulatory Authorities only, and should be uploaded in to the ICT Eye at: [www.itu.int/net4/ITU-D/icteye/Login.aspx](http://www.itu.int/net4/ITU-D/icteye/Login.aspx) no later **than 15 December 2017**.

For any questions or login information please contact:

*Regulatory and Market Environment Division (RME)*  
*Telecommunication Development Bureau (BDT)*  
**Phone: +41 22 730 6350 - Fax: +41 22 730 5484**  
**E-mail: [tariffs@itu.int](mailto:tariffs@itu.int)**

Thank you for your cooperation.

Country:

Date of response:

### Section 1: Contact Information

#### Person completing the questionnaire

Mr/Ms.:

Family name:

First name:

Title:

Organization:

Address:

City:

WEB Address:

Telephone:

Fax:

E-mail:

No	Question	Possible answers	
<b>Section 2: Telecommunication services</b>			
2.1	<b>Retail Telecommunication Services</b> Please indicate which <u>retail</u> telecommunication services provided in your country are subject to price control* and which are not?	With price control	Without price control
2.1.1	Fixed Communications:	1. Access to network (monthly line rental/ subscription fee) <input type="checkbox"/> 2. Local voice services <input type="checkbox"/> 3. National long distance voice services <input type="checkbox"/> 4. International voice services <input type="checkbox"/> 5. IP telephony <input type="checkbox"/> 6. Internet access (Internet connection) & data services <input type="checkbox"/> 7. Provision of links (leased lines) <input type="checkbox"/> 8. Carrier Pre-Selection (CPS) <input type="checkbox"/> 9. Carrier Selection (CS) <input type="checkbox"/> 10. Other, please specify: <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2.1.2	Mobile Communications	11. Access to network (monthly subscription fee) <input type="checkbox"/> 12. Voice services <input type="checkbox"/> 13. SMS <input type="checkbox"/> 14. National roaming (voice, sms) <input type="checkbox"/> 15. International roaming (voice, sms) <input type="checkbox"/> 16. Internet access (Internet connection) & data services <input type="checkbox"/> 17. Data roaming (Internet connection) <input type="checkbox"/> 18. IP telephony <input type="checkbox"/> 19. Mobile calling cards <input type="checkbox"/> 20. Carrier Pre-Selection (CPS) <input type="checkbox"/> 21. Carrier Selection (CS) <input type="checkbox"/> 22. Other, please specify: <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2.1.3	Broadcasting services	23. IPTV <input type="checkbox"/> 24. Mobile TV <input type="checkbox"/> 25. Terrestrial TV <input type="checkbox"/> 26. Cable TV <input type="checkbox"/> 27. Satellite TV <input type="checkbox"/> 28. Other, please specify: <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2.1.4	OTT Content Services	29. Over-the-Top Voice and Messaging <input type="checkbox"/> 30. Over-the-Top Video <input type="checkbox"/> 31. Other, please specify <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

\*Price regulation means any type of regulatory action or control on a price, including price caps, ceilings and baskets, price approval and notification schemes or arrangements (including for limited special offers).



		Price ceiling set by the State	Cost orientation (cost models)	Bench-marking of tariffs	Retail minus approach	Rate of return regulation	Price Cap	Other
	Advanced Retail services*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Please specify:
	Advanced Wholesale services**	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Please specify:
	Traditional Retail services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Please specify:
	Traditional Wholesale services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Please specify:

**Question 3.3:** Which concept do you use as the basis for calculating telecommunication service tariffs?

Type of Service	Top-down (TD) or Bottom-up (BU)	Fully Distributed Costs (FDC)	Long Run Incremental Costs (LRIC)	Other
Advanced Wholesale services**	<input type="checkbox"/> TD <input type="checkbox"/> BU <input type="checkbox"/> Hybrid	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> Hybrid	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC	
Traditional Wholesale services	<input type="checkbox"/> TD <input type="checkbox"/> BU <input type="checkbox"/> Hybrid	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> Hybrid	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC	
Advanced Retail services*	<input type="checkbox"/> TD <input type="checkbox"/> BU <input type="checkbox"/> Hybrid	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> Hybrid	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC	
Traditional Retail services	<input type="checkbox"/> TD <input type="checkbox"/> BU <input type="checkbox"/> Hybrid	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> Hybrid	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC	

\*Advanced retail services mean services based on NGN/IP networks

\*\* Advanced wholesale services mean services based on NGN/IP networks.

3.4	Does the cost model depend on cost accounting data?	<input type="radio"/> Yes <input type="radio"/> No	
3.5	Is Accounting Separation applied in your country?	<input type="radio"/> 1. In place <input type="radio"/> 2. Planned <input type="radio"/> 3. No plans for the time being	
		<b>Fixed services</b>	<b>Mobile Services</b>
3.6	How do operators charge retail prices for voice services to final customers?	<input type="radio"/> by second <input type="radio"/> by minute <input type="radio"/> Other, please specify: _____	<input type="radio"/> by second <input type="radio"/> by minute <input type="radio"/> Other, please specify: _____
3.6.1	There is any regulatory requirement to apply retail charges in a specific way (by second or by minute)?	<input type="radio"/> Yes <input type="radio"/> No Please specify: _____	<input type="radio"/> Yes <input type="radio"/> No Please specify: _____

\* Advanced Services refer to, between others, IP telephony, Internet access (Internet connection) & data services, provision of data links (leased lines), IPTV, Mobile TV etc.

#### Section 4: Tariff rebalancing of fixed telephony services

- Several possible replies  
 Only one possible reply

4.1	Has your country implemented tariff rebalancing?	<input type="radio"/> 1. Yes <input type="radio"/> 2. No If not, why? <input type="radio"/> 3. Planned
4.2	What is the time-period given to fixed line operators for absorbing the access deficit (tariff rebalancing)?	<input type="radio"/> 1. Less than three years <input type="radio"/> 2. Between three and seven years <input type="radio"/> 3. Over seven years <input type="radio"/> 4. Not determined

### Section 5: Interconnection

Question 5.1 - Interconnection – Which approach do you apply for costing regulated interconnection prices?

Type of Service	Benchmarking	Fully Distributed Costs (Current Cost Accounting CCA, Historical Cost Accounting HCA, Hybrid H)	LRIC Cost Model	Other, please specify	None
Fixed origination	<input type="checkbox"/>	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> H	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC		<input type="checkbox"/>
Fixed termination	<input type="checkbox"/>	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> H	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC		<input type="checkbox"/>
Mobile origination	<input type="checkbox"/>	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> H	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC		<input type="checkbox"/>
Mobile termination	<input type="checkbox"/>	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> H	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC		<input type="checkbox"/>
National transit	<input type="checkbox"/>	<input type="checkbox"/> CCA <input type="checkbox"/> HCA <input type="checkbox"/> H	<input type="checkbox"/> LRIC <input type="checkbox"/> Pure LRIC <input type="checkbox"/> LRIC+ <input type="checkbox"/> LRAIC		<input type="checkbox"/>
5.2	Are time bands still applied in your country?	<input type="radio"/> Yes <input type="radio"/> No			
5.2.1	If yes, how many time bands are used for charging purposes?	<input type="radio"/> 1. One <input type="radio"/> 2. Two <input type="radio"/> 3. Three <input type="radio"/> 4. More than three			
5.3	How many different geographic tariff zones are there in your country?	<input type="radio"/> 1. One <input type="radio"/> 2. Two <input type="radio"/> 3. Three <input type="radio"/> 4. More than three			
5.4	What kind of interconnection charging principle has been adopted by your country?	<input type="radio"/> 1. Symmetric <input type="radio"/> 2. Asymmetric			
5.4.1	If asymmetric, on what basis is asymmetry decided? (E.g. number of subscribers, revenues, universal access policy, etc.)	Please specify:			

5.5	How often are the interconnection charges reviewed?	<input type="radio"/> 1. Quarterly <input type="radio"/> 2. Semi-annually <input type="radio"/> 3. Annually <input type="radio"/> 4. Less frequently. Please specify:
5.5.1	Does this happen within a set Reference Interconnection Offer (RIO) cycle?	<input type="radio"/> Yes <input type="radio"/> No
5.6	Which charging regime for <u>fixed</u> interconnection services is applied in your country?	<input type="radio"/> 1. Calling Party's Network Pays (CPNP) <input type="radio"/> 2. Receiving Party's Network Pays (RPNP) <input type="radio"/> 3. Bill and Keep (Sender keeps all) <input type="radio"/> 4. Other, please specify:
5.7	Which charging regime for <u>mobile</u> interconnection services is applied in your country?	<input type="radio"/> 1. Calling Party's Network Pays (CPNP) <input type="radio"/> 2. Receiving Party's Network Pays (RPNP) <input type="radio"/> 3. Bill and Keep (Sender keeps all) <input type="radio"/> 4. Other, please specify:
<b>Section 5.1: Interconnection Issues – Price of services</b> Please indicate currently applicable prices in local currency for the following services in your country (average rate per minute during peak hours, in local currency, VAT excluded):		
5.1.1	Terminating calls on incumbent's fixed network:	a) Local level b) Single transit (metropolitan) c) Double transit (national)
5.1.2	Terminating calls on other fixed networks:	a) Local level b) Single transit (metropolitan) c) Double transit (national)
5.1.3	Terminating calls on mobile networks:	a) Fixed to mobile b) Mobile to mobile
5.1.4	Please indicate the website, where interconnection prices are publicly available	Website: <u>www.</u>

Section 5.2: Commercial Agreements			
		Domestic/National Services	International Services
5.2.1	Are commercial agreements used in your country?	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
5.2.2	If yes, in what areas are these agreements used?	<input type="radio"/> Interconnection <input type="radio"/> Access <input type="radio"/> Other, please specify	<input type="radio"/> Interconnection <input type="radio"/> Access <input type="radio"/> Other, please specify
5.2.3	If commercial agreements are used is there any form of obligation of reporting or monitoring of such agreements by the regulatory authority?	<input type="checkbox"/> 1. Contract filing requirements <input type="checkbox"/> 2. Service provider reporting requirements (e.g., call volumes, revenues, cost) <input type="checkbox"/> 3. Users or contract party complaints <input type="checkbox"/> 4. Other, please specify:	<input type="checkbox"/> 1. Contract filing requirements <input type="checkbox"/> 2. Service provider reporting requirements (e.g., call volumes, revenues, cost) <input type="checkbox"/> 3. Users or contract party complaints <input type="checkbox"/> 4. Other, please specify:
5.2.4	How are disputes that result from commercial agreements between service providers resolved?	<input type="checkbox"/> 1. Courts <input type="checkbox"/> 2. Regulators <input type="checkbox"/> 3. Arbitration <input type="checkbox"/> 4. Mediation <input type="checkbox"/> 5. Observation of Terms and Conditions <input type="checkbox"/> Other, please specify:	<input type="checkbox"/> 1. Courts <input type="checkbox"/> 2. Regulators <input type="checkbox"/> 3. Arbitration <input type="checkbox"/> 4. Mediation <input type="checkbox"/> 5. Observation of Terms and Conditions <input type="checkbox"/> Other, please specify:
5.2.5	How are consumer complaints resolved?	<input type="checkbox"/> 1. Courts <input type="checkbox"/> 2. Regulators <input type="checkbox"/> 3. Arbitration <input type="checkbox"/> 4. Mediation <input type="checkbox"/> 5. Observation of Terms and Conditions <input type="checkbox"/> Other, please specify:	<input type="checkbox"/> 1. Courts <input type="checkbox"/> 2. Regulators <input type="checkbox"/> 3. Arbitration <input type="checkbox"/> 4. Mediation <input type="checkbox"/> 5. Observation of Terms and Conditions <input type="checkbox"/> Other, please specify:
5.2.6	Are commercial agreements publicly available on the website?	<input type="radio"/> Yes <input type="radio"/> No If yes, please provide the website: www_____	

Section 6: Taxation of telecommunication services			
		Fixed services	Mobile services
6.1	Under which category of VAT (or other tax) are telecommunication services classified in your country? Please indicate the	<input type="radio"/> General goods and services % <input type="radio"/> Luxury goods and services % <input type="radio"/> Low rate tax % <input type="radio"/> High rate tax %	<input type="radio"/> General goods and services % <input type="radio"/> Luxury goods and services % <input type="radio"/> Low rate tax % <input type="radio"/> High rate tax %

	percentage applying.	O Other, please specify: _____ %	O Other, please specify: _____ %
6.1.1	Please indicate the VAT (or other tax) that applies to general goods and services in your country	1. Goods: % 2. Services: % 3. Others: _____ %	

**6.2 Please indicate what type of taxes and % are applied to which type of services in your country:**

Type of Service	VAT	%	Sales Tax	%	Import duties	%	Sector specific taxes	%	Content tax	%
Outgoing international voice services (IDD)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Incoming international voice services	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
National voice services	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
International mobile roaming services	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
National mobile roaming services	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
International calling cards mobile (IDD)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
International calling cards fixed	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Pre-paid mobile top-up cards	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
National Data services	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
International Data services	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Internet services (please specify)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Content Services (please specify)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
OTT content services (please specify)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Others, please specify	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	



6.3	What types of taxes and duties apply to the telecommunications sector in your country?	1. Sales taxes: <input type="checkbox"/> Yes <input type="checkbox"/> No - On equipment <input type="checkbox"/> Yes <input type="checkbox"/> No - On handsets <input type="checkbox"/> Yes <input type="checkbox"/> No 2. Import duties: <input type="checkbox"/> Yes <input type="checkbox"/> No - On equipment <input type="checkbox"/> Yes <input type="checkbox"/> No - On handsets <input type="checkbox"/> Yes <input type="checkbox"/> No 3. Sector Specific taxes <input type="checkbox"/> Yes <input type="checkbox"/> No 4. Corporate taxes <input type="checkbox"/> Yes <input type="checkbox"/> No 5. Value-added taxes <input type="checkbox"/> Yes <input type="checkbox"/> No 6. Property taxes <input type="checkbox"/> Yes <input type="checkbox"/> No 7. Ownership fee <input type="checkbox"/> Yes <input type="checkbox"/> No 8. Spectrum or license fee subject to VAT? <input type="checkbox"/> Yes <input type="checkbox"/> No 9. Content Tax (e.g. Video-streaming) <input type="checkbox"/> Yes <input type="checkbox"/> No Other, Please specify: _____
	Who along the telecommunication value chain is subject to taxes in your country?	1. Operators / services providers <input type="checkbox"/> Yes <input type="checkbox"/> No 2. ISPs <input type="checkbox"/> Yes <input type="checkbox"/> No 3. Consumers <input type="checkbox"/> Yes <input type="checkbox"/> No 4. OTT Content Players* <input type="checkbox"/> Yes <input type="checkbox"/> No 5. Applications Developers <input type="checkbox"/> Yes <input type="checkbox"/> No 6. E-commerce providers <input type="checkbox"/> Yes <input type="checkbox"/> No 7. Equipment manufacturers (network equipment, handsets etc.) <input type="checkbox"/> Yes <input type="checkbox"/> No 8. Operators <input type="checkbox"/> Yes <input type="checkbox"/> No 9. Consumers <input type="checkbox"/> Yes <input type="checkbox"/> No
6.4.1	Are foreign service providers treated differently in terms of taxation in your country?	<input type="checkbox"/> Yes – If yes, please explain how? <input type="checkbox"/> No – If not, please explain why?

\*OTT content players include OTT voice, video and messaging services.

Question 6.5: Please indicate who pays what type of taxes, including %:

Type of Actor	VAT		Sales Tax		Import duties		Sector specific taxes		Property Tax		Ownership fees		Corporate Tax		Content tax		Spectrum or licensing fee subject to VAT?		Environmental tax	
		%		%		%		%		%		%		%		%		%		%
Operators	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Consumers	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
ISPs	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
OTT / Content Players*	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Applications Developers	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
E-commerce providers	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Equipment manufacturers (network equipment, handsets etc.)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

\*OTT content players include OTT voice, video and messaging services.

- Several possible replies  
 Only one possible reply

Section 7: Next Generation Networks (NGN)				
7.1	Is any operator in your country planning or currently introducing an NGN system?	<input type="radio"/> Yes <input type="radio"/> No		
7.1.1	If yes, who?	<input type="checkbox"/> Incumbent operator <input type="checkbox"/> New entrant <input type="checkbox"/> Other, please specify		
7.1.2	If yes, at what stage are they?	<input type="checkbox"/> 1. Feasibility study <input type="checkbox"/> 2. Planning <input type="checkbox"/> 3. Introduction <input type="checkbox"/> 4. Implementation <input type="checkbox"/> 5. Completed <input type="checkbox"/> 6. No plans to introduce and NGN system in a short run <input type="checkbox"/> 7. Other, please specify		
7.2	What regulations, if any, govern the use of NGN networks?		<b>Voice Service</b>	<b>Data Service</b>
		1. Regulatory arrangements subject to universal service obligations.	<input type="checkbox"/>	<input type="checkbox"/>
		2. Regulatory interconnection arrangements with networks using switching circuits.	<input type="checkbox"/>	<input type="checkbox"/>
		3. Banning of offer of services based on IP.	<input type="checkbox"/>	<input type="checkbox"/>
		4. No regulatory arrangements defined at present.	<input type="checkbox"/>	<input type="checkbox"/>
	5. Other, please specify:			
7.3	What sources of finance could be used to deploy NGN networks?	<input type="checkbox"/> 1. Operators funds <input type="checkbox"/> 2. State subsidization <input type="checkbox"/> 3. Joint venture (private sector and public sector) <input type="checkbox"/> 4. Financed by a financial institutions or private bank <input type="checkbox"/> 5. Special telecommunications development funds <input type="checkbox"/> 6. PPPs <input type="checkbox"/> 7. Community funding <input type="checkbox"/> 8. Crowd funding <input type="checkbox"/> 9. Other, please explain:		
7.4	Please indicate the method currently in use or that you plan to use in the future to determine the tariff for NGN Services	<input type="checkbox"/> Use the existing cost models <input type="checkbox"/> Adapt the existing cost models to cater for new technologies		

		<input type="checkbox"/> Develop new cost models <input type="checkbox"/> Rely on operators' cost models <input type="checkbox"/> Other, please specify
7.5	What cost model is used (or planned) to calculate costs/ tariffs of NGN Services?	<input type="radio"/> 1. Fully distributed historical cost model <input type="radio"/> 2. Long run incremental cost model <input type="radio"/> 3. Other, please specify: <input type="radio"/> 4. None
7.6	How are the new services over NGN priced and offered (or planned to be offered) in your country?	<input type="checkbox"/> As an integrate package <input type="checkbox"/> On a flat rate <input type="checkbox"/> As separate services <input type="checkbox"/> Other, please specify
7.7	Approximately what percentage of the core infrastructure network is Legacy versus NGN based:	<b>Legacy - NGN</b> <input checked="" type="checkbox"/> 100% - 0% <input type="checkbox"/> 75% - 25% <input type="checkbox"/> 50% - 50% <input type="checkbox"/> 25% - 75% <input type="checkbox"/> 0% - 100%
7.8	Approximately, how much traffic is Legacy versus NGN based?	<b>Legacy - NGN</b> <input checked="" type="checkbox"/> 100% - 0% <input type="checkbox"/> 75% - 25% <input type="checkbox"/> 50% - 50% <input type="checkbox"/> 25% - 75% <input type="checkbox"/> 0% - 100%

**Section 8: Infrastructure Sharing**

		<u>Mobile</u>	<u>Fixed</u>
8.1	Is infrastructure sharing practiced in your country in the mobile sector and/ or in the fixed sector?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Both Remarks:	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Both Remarks:
8.1.1	If yes, is infrastructure sharing based on commercial agreements or based on a regulatory mandate?	<input type="radio"/> Commercial agreements <input type="radio"/> Regulation <input type="radio"/> Both Remarks:	<input type="radio"/> Commercial agreements <input type="radio"/> Regulation <input type="radio"/> Both Remarks:
8.1.2	If yes, is infrastructure sharing mainly active or passive or both?	<input type="radio"/> Active sharing <input type="radio"/> Passive sharing <input type="radio"/> Both Remarks:	<input type="radio"/> Active sharing <input type="radio"/> Passive sharing <input type="radio"/> Both Remarks:

8.2	Do you mandate national roaming in your country?	<input type="radio"/> Yes <input type="radio"/> No Remarks: If no, have mobile operators entered into national roaming agreements commercially? <input type="radio"/> Yes <input type="radio"/> No
8.3	Is infrastructure sharing also pursued in cooperation with municipalities?	<input type="radio"/> Yes <input type="radio"/> No Remarks:
8.4	Does the infrastructure sharing contribute to lower prices for end-users?	<input type="checkbox"/> 1. Yes If YES, please indicate how much (%) <input type="checkbox"/> 2. No If NO, please indicate reasons: <input type="checkbox"/> 3. No data available
8.5	Is there a regulatory obligation to map all the existing infrastructure?	<input type="radio"/> Yes <input type="radio"/> No Remarks:
8.6	Please indicate the website, where regulatory obligation on infrastructure sharing is publicly available	<u>www.</u>

### Section 9: Access to International Facilities (International Connectivity)

9.1	Does your country have access to international connectivity?	<input type="radio"/> Yes <input type="radio"/> No
9.1.1	If NO, please indicate reasons:	
9.1.2	If yes, by which modes?	<input type="checkbox"/> Submarine cable <input type="checkbox"/> Satellite <input type="checkbox"/> Fibre <input type="checkbox"/> Other, please specify:
9.2	How many international landing stations do you have in your country? Please indicate the number of points per type.	<input type="checkbox"/> Submarine cable, please specify number: <input type="checkbox"/> Satellite, please specify number: <input type="checkbox"/> Fibre, please specify number: <input type="checkbox"/> Other, please specify:
9.3	Who has control over the landing points in your country?	<input type="checkbox"/> Incumbent operator <input type="checkbox"/> Government <input type="checkbox"/> Private and Public Partnership (PPP) <input type="checkbox"/> Consortium of alternative operators <input type="checkbox"/> Other, please specify:

9.4	Do you have a national policy or regulation that mandates or regulates access to international facilities / landing points in your country?	<input type="radio"/> Yes <input type="radio"/> No
9.4.1	If NO, please indicate reasons:	
9.4.2	If yes, does this policy / regulation include an open access mandate?  9.4.2.1 If NO, please indicate reasons:	<input type="radio"/> Yes <input type="radio"/> No
9.4.3	If yes, does this policy / regulation promote competition to achieve a reduction in international connectivity costs?	<input type="radio"/> Yes - If YES, please indicate reasons: <input type="radio"/> No - If NO, please indicate reasons:
9.4.4	If yes, in which markets?	<input type="checkbox"/> National Internet Backbone <input type="checkbox"/> International Internet Backbone <input type="checkbox"/> Domestic Internet backhaul <input type="checkbox"/> Other, please specify:
9.5	Is Recommendation ITU-T D.50* International Internet Connectivity (Rev. Johannesburg, 2008) being applied in your country?	<input type="radio"/> Yes <input type="radio"/> No  If NO, please indicate reasons:
*this recommendation is available at: <a href="http://www.itu.int/ITU-T/recommendations/index_sg.aspx?sg=3">http://www.itu.int/ITU-T/recommendations/index_sg.aspx?sg=3</a>		
9.6	What is the type of connection to access international transit in your country?	<input type="checkbox"/> National Gateway <input type="checkbox"/> By using IP hub Tier 1 <input type="checkbox"/> By using IP hub Tier 2 <input type="checkbox"/> By using IP hub Tier 3 <input type="checkbox"/> By using IP transit <input type="checkbox"/> Both by using IP hub and IP transit <input type="checkbox"/> Direct national connection to international Internet <input type="checkbox"/> Other, please specify:
9.7	Please indicate the <u>average wholesale cost</u> per month, per 2 megabit of an International transit originating from your country to any other country:	<input type="checkbox"/> Less than USD20 per megabit per month <input type="checkbox"/> USD20 - USD40 per megabit per month <input type="checkbox"/> USD40 - USD60 per megabit per month <input type="checkbox"/> USD60 - USD80 per megabit per month <input type="checkbox"/> Above USD80 per megabit per month
9.8	What is the portion of cost of access to international Internet connection in the retail Internet access price in your country?	<input type="radio"/> Above 50% <input type="radio"/> 26% - 50% <input type="radio"/> 10% - 25%

		<input type="radio"/> Less than 10%
9.9	What steps have you taken to optimize the cost of your International Internet Connections?	<input type="radio"/> Implementation of an Internet Exchange Point (IXP) <input type="radio"/> Hosting of most frequently visited web sites (e.g. search engines, Data Centers, Content delivery network (CDN), Cache Servers, etc.) <input type="radio"/> Encourage the development of local content <input type="radio"/> Other, please specify:
9.10	There are Internet Exchanges Points (IXP) in your country?	<input type="radio"/> Yes <input type="radio"/> No
9.10.1	If NO, please indicate reasons:	
9.10.2	If yes, how many?	
9.11	How many Internet Service Providers there are in your country?	

Section 10: Broadband services pricing								
10.1	Please indicate which broadband services provided in your country are subject to price control and which are not? If subject to price control, in each case please nominate the type of price regulation that is applied:							
		With price control	Without price control	Cost based	Ceiling pricing	Indexed	Benchmarks	Other (please specify)
	1. Retail fixed broadband access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2. Retail fixed broadband services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3. Retail fixed broadband applications, including content*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4. Wholesale fixed broadband access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5. Bitstream access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	6. WS DSL access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	7. Unbundled local loop (ULL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	8. Wholesale fixed broadband services offered to retail service providers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	9. Retail mobile broadband access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	10. Retail mobile broadband services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	11. Retail mobile broadband application including content*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	12. Wholesale mobile broadband access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	13. Wholesale mobile broadband services offered to retail service providers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>* It refers to over-the-top (OTT) broadband services, such as IPTV, VoIP or data that exceeds any download cap.</i>							
10.2	If <b>cost based</b> is applied, please indicate the cost standard that is applied?	<input type="radio"/> Fully distributed costs (FDC) based on Historic Cost Accounting (HCA) <input type="radio"/> FDC based on Current Cost Accounting (CCA) <input type="radio"/> LRIC <input type="radio"/> Other, please specify:						
10.3	What aspects of the broadband service affect the retail and wholesale prices for fixed and mobile broadband services in	<input type="checkbox"/> Average download capacity <input type="checkbox"/> Minimum download capacity						



	your country?	<input type="checkbox"/> Upload average capacity <input type="checkbox"/> Upload minimum capacity <input type="checkbox"/> Contract duration <input type="checkbox"/> Download caps (Limits or caps on the amount of data that may be downloaded) <input type="checkbox"/> Separate prices for services and applications – including content <input type="checkbox"/> Other, please specify:	
10.4	Are operators allowed to bundle the supply of <b>retail broadband access products</b> (e.g. line rental) with other retail telecommunications services (such as telephone calls)?	<input type="radio"/> Yes <input type="radio"/> No  If YES, please explain any restrictions or rules that apply to such bundling	
10.5	Question moved to Section 12.		
10.6	Is the provision of broadband service part of the universal service or universal access scheme in your country?	<input type="radio"/> Yes <input type="radio"/> No  If NO, please indicate reasons:	
10.7	Are <b>fixed broadband</b> service providers at retail or wholesale levels required to adopt uniform or national pricing?	<input type="radio"/> Yes <input type="radio"/> No  If NO, please indicate reasons:	
10.8	Are <b>mobile broadband</b> service providers at retail or wholesale levels required to adopt uniform or national pricing?	<input type="radio"/> Yes <input type="radio"/> No  If NO, please indicate reasons:	
10.9	Are service providers allowed to offer geographically differentiated broadband services in terms of price and terms and conditions?	<input type="radio"/> Yes <input type="radio"/> No  If YES, please indicate how they do so:	
<b>Section 11: International Mobile Roaming</b>			
11.1	What International Mobile Roaming (IMR) services are available in your country?	<input type="checkbox"/> Inbound and outbound voice calls <input type="checkbox"/> Inbound and outbound SMS <input type="checkbox"/> Data (e.g., Internet, MMS, email, mobile browsing, mobile TV) <input type="checkbox"/> Others, please specify:	
11.2	Are IMR services part of the mobile package in your country?	<input type="radio"/> Yes <input type="radio"/> No	
11.2.1	If yes, are they opt-in or opt-out?	<input type="radio"/> opt-in <input type="radio"/> opt-out	
		<b>Retail Services</b>	<b>Wholesale services</b>
11.3	Is your National Regulatory Authority collecting tariff/rates data on IMR for	<input type="checkbox"/> a) Voice	<input type="checkbox"/> a) Voice

	the following services/variables:	<input type="checkbox"/> b) SMS <input type="checkbox"/> c) Data (e.g. Internet, MMS, email, mobile browsing, mobile TV) <input type="checkbox"/> d) Packages <input type="checkbox"/> e) Retail Costs <input type="checkbox"/> Other, please specify:	<input type="checkbox"/> b) SMS <input type="checkbox"/> c) Data (e.g. Internet, MMS, email, mobile browsing, mobile TV) <input type="checkbox"/> d) Packages <input type="checkbox"/> e) Roaming Overhead Costs (Agreements, testing etc.) <input type="checkbox"/> f) IOTs <input type="checkbox"/> Other, please specify:
11.3.1	If yes, is this data publicly available on the website?	<input type="radio"/> Yes, please provide the website: _____ <input type="radio"/> No	
11.4	What is the general trend of the IMR retail price over the past three years in your country?	<b>Voice</b> <input type="checkbox"/> a) Increasing <input type="checkbox"/> b) Decreasing <input type="checkbox"/> c) Stable <b>SMS</b> <input type="checkbox"/> a) Increasing <input type="checkbox"/> b) Decreasing <input type="checkbox"/> c) Stable <b>Data</b> <input type="checkbox"/> a) Increasing <input type="checkbox"/> b) Decreasing <input type="checkbox"/> c) Stable	
11.5	Are <u>retail prices</u> of IMR regulated in your country?	<input type="radio"/> Yes <input type="radio"/> No If yes, what kind of regulatory practice is applied? <input type="checkbox"/> 1. Price Cap <input type="checkbox"/> 2. Ex ante obligations on operators designated as having significant market power <input type="checkbox"/> 3. Benchmarking of tariffs <input type="checkbox"/> 4. Transparency measures (e.g. tariff or bill-shock information) <input type="checkbox"/> 5. Others, please specify:	
11.6	Is there regulation on the <u>wholesale price</u> of IMR in your country?	<input type="radio"/> Yes <input type="radio"/> No If yes, what kind of regulatory practice is applied? <input type="checkbox"/> Price Cap <input type="checkbox"/> Ex ante obligations on operators designated as having significant market power <input type="checkbox"/> Benchmarking of tariffs <input type="checkbox"/> Others, please specify:	

			Retail	Wholesale
11.7	<p>If there is no regulation in place, do you consider that there is a need to regulate the retail or wholesale prices of IMR services?</p> <p><i>(Please only tick one response for retail and one for wholesale services)</i></p>	1. There is no need to regulate as industry self-regulation is sufficient. Please explain:	<input type="radio"/>	<input type="radio"/>
		2. There is a need for price regulation. Please explain:	<input type="radio"/>	<input type="radio"/>
		3. There is a need to regulate through other means. Please explain:	<input type="radio"/>	<input type="radio"/>
		4. Others comments, please explain:	<input type="radio"/>	<input type="radio"/>
11.8	<p>Have your country's operators taken any measures to reduce the risk of bill shock?</p>	<p><input type="radio"/> <b>Yes</b></p> <p>If yes, what kind of measures has been applied? (Please tick all that apply):</p> <p><input type="checkbox"/> Home operator sends text messages to inform his customers of their roaming tariffs when they arrive in another country</p> <p><input type="checkbox"/> Mobile operators in the visited country to send SMS with roaming tariffs information to visiting customer (according to roaming agreement between home operator and operators in the visited country)</p> <p><input type="checkbox"/> Home operator sends alert SMS to the user informing that he/she is reaching the agreed roaming spending limit</p> <p><input type="checkbox"/> Suspending service when usage exceeds the spending limit fixed</p> <p><input type="checkbox"/> Other, please specify:</p> <p><input type="radio"/> <b>No</b></p> <p>If not, what kind of measures would you suggest?</p> <p>Measures:</p>		
<p><i>* Bill shock issue arises when users are not aware of the total roaming prices until the final bill is received and this is more prevalent among postpaid roamers.</i></p>				
11.9	<p>Are you aware of any self-regulatory measures or commercial offers offered by industry?</p>	<p><input type="checkbox"/> Website for price comparison</p> <p><input type="checkbox"/> Bilateral agreements to reduce IoT</p> <p><input type="checkbox"/> commercial activities / promotions</p> <p><input type="checkbox"/> regional cooperation / agreements</p> <p><input type="checkbox"/> Other, please specify</p>		
11.10	<p>Have you or are you as a Regulator engaged in bilateral or multilateral cooperation / activities with other countries / Regulators to tackle Roaming at the Regional Level?</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p>If yes, please specify?</p>		

Section 12: Bundled services		
12.1	Are operators allowed to bundle the supply of <b>retail broadband products</b> with the supply of other types of retail communications services (such as telephone calls with data service or subscription of television)?	<input type="radio"/> Yes <input type="radio"/> No If YES, please explain any restrictions or rules that apply to such bundling
12.2	Are there regulations (restrictions) in your country on Zero rating <sup>1</sup> of OTT services?	<input type="radio"/> Yes <input type="radio"/> No If YES, please elaborate and provide the website where available: _____
12.3	How is your administration approaching bundled retail services?	<input type="checkbox"/> Applying costing methodologies per bundle services <input type="checkbox"/> Applying costing methodologies per unit costs <input type="checkbox"/> Benchmarking the different operators/service providers Other(s), please specify:
12.4	How does your administration determine that the pricing of bundled services is fair (at reasonable cost) and is non –discriminatory?	Please specify: _____
12.5	Do you know what methodology/approach operators are applying to price bundled retail services?	<input type="checkbox"/> LRIC methodologies <input type="checkbox"/> FDC <input type="checkbox"/> Hybrid (LRIC-FDC) <input type="checkbox"/> Regulatory accounting <input type="checkbox"/> Benchmarking (competitors offers) <input type="checkbox"/> Separated prices <input type="checkbox"/> Commercial approach Other(s), please specify: _____
12.6	Do you have a public website addressed to consumers to make available informed comparisons between different offers price bundles per operators?	<input type="radio"/> Yes <input type="radio"/> No If YES, please provide the website: _____
<p>* This is the practice of mobile network operators (MNO), mobile virtual network operators (MVNO), and Internet service providers (ISP) not to charge end customers for data used by specific applications or internet services mainly OTTs through their network, in limited or metered data plans.</p>		