



ASIA-PACIFIC TELECOMMUNITY
1st Meeting of SATRC Working Group on Policy,
Regulation and Services in SAP-IV
22 – 23 October 2012, Tehran, Islamic Rep. of Iran

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Communication Regulatory Authority of Iran

**DETAIL OF THE WORK ITEM ON “APPLICATION AND SERVICES IN
BROADBAND NETWORK”**

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RAPPORTEUR REPORT ON WORK ITEM
“Application and Services in Broadband Network”

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Background and purpose

- SATRC members are according a very high priority for promoting BB services and enhancing their application in various sectors of economy,
- considerable amount of work is required to be done for promoting BB expansion in the countries specially in rural areas. It is important to study :
 - the issues involving BB as an universal service.
 - means for BB expansion,
 - cooperation and competition framework involving multi stake holders,
 - promoting Local contents,
 - consumer protection and QoS in BB environment,
 - Regulation of application service providers, especially social network,
 - Infrastructure sharing Regional internet network.

scope

In view of the broad range of issues involved, It is necessary to study the key issues of current important first. The scope of study could include:

- BB universal service
- BB expansion in rural areas
- Resource mobilisation for BB expansion
- QoS in BB
- Mobile BB delivery
- Infrastructure sharing

What is FTTX?

- The Application of PON technology for providing broadband connectivity in the access network to homes, multiple – occupancy units, and small business commonly is called Fiber to the x.
- FTTB: fiber to the business
- FTTC: fiber to the curb
- FTTH: fiber to the home
- FTTN: fiber to the neighborhood
- FTTO: fiber to the Office
- FTTP: fiber to the pemises
- FTTU: fiber to the user

Questionnaire on FTTX

General Questions		ANSWER	
A.1	Have your country ever given any license for FTTx?	Yes	No
A.2	How much percentage of cables are fiber?		
A.3	Are the Network Licenses being granted in your country according to the different classes (Core, access, content, ...)?	Yes	No
A.4	Are ICT Licenses being granted service based or technology based?		
A.5	Is there any plan for migration the ICT licenses to NGN model in your country? (if yes: what kind of policy and if no: what is the reason)	Yes	No
<i>If yes (Follow B.1-B.12 and then C.1 - C.4)</i>			
B.1	Which year has the license been granted?		
B.2	Does the license owner have another ICT license?		
B.3	How many license owner are there and What is the name of them?		
B.4	To which parts of FTTx has the license been granted (Home, Office, Building, Curb)?(all, some or one of them)		
B.5	What are the access network that you considered the most influencing to decide on if the access network should be evolved or not?	Service and application Technology and industry progress Traffic volume Internet and fixed phone penetration Security and management Others (please describe)	
B.6	What type of information is helpful to consider and decide the access network evolution?	Technology reference Existing evolution example Others (please describe)	

Questionnaire on FTTX

B.7	Which part has the license granted (regulator, ICT Ministry or other parts)?	Regulator ICT Ministry others (please describe)	
B.8	What was your country method for giving the license (auction or another way)		
B.9	What was the incentive method for investor of FTTx?	Financial supporting Technical Supporting Tax discounting Others (please describe)	
B.10	What obstacles and difficulties do you have face to implement it?		
B.11	What is the role of your country regulatory in the process?	Consultant research Granting License others (please describe)	
B.12	Which related standards are adopted standards (including technical, accounting, management and security standards)?		
<i>License characters C.1-C.4</i>			
C.1	Is there any protection period for license owner? How long is it?		
C.2	How much does the license fee (in US\$)?		
C.3	How much is revenue sharing (in US\$)?		
C.4	How much time is the period of the license?		
<i>If no(Follow D.1-D2)</i>			
D.1	Is there any plan and policy for developing FTTx in your country? (if yes: what kind of policy and if no: what is the reason)	Yes	No
D.2	Is there any fiber wire in your country?	Yes	No

IRAN (Islamic Republic of) response to the questionnaire (continue)

General Questions		ANSWER
A.1	Have your country ever given any license for FTTx?	Yes <input checked="" type="checkbox"/> (but in the phase of selecting operator) No <input type="checkbox"/>
A.2	How much percentage of cables are fiber?	
A.3	Are the Network Licenses being granted in your country according to the different classes (Core, access, content...)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
A.4	Are ICT Licenses being granted service based or technology based?	Most of ICT licenses are granted technology based.
A.5	Is there any plan for migration the ICT licenses to NGN model in your country? (if yes: what kind of policy and if no: what is the reason)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Many studies and researches are done in this issue and according the recently policy, the licenses will be granted NGN Model
<i>Uses (Follow B.1-B.12 and then C.1 - C.4)</i>		
B.1	Which year has the license been granted?	The license will be given this year.
B.2	Does the license owner have another ICT license?	No
B.3	How many license owners are there and What is the name of them?	The license will be granted to one operator. After finishing granting procedures, the license owner will be identified.
B.4	To which parts of FTTx has the license been granted (Home, Office, Building, Curb)?(all, some or one of them)	All of them
B.5	What are the access networks that you considered the most influencing to decide on if the access network should be evolved or not?	Service and application Technology and industry progress <input checked="" type="checkbox"/> Traffic volume Internet and fixed phone penetration Security and management <input checked="" type="checkbox"/> Others (please describe)

IRAN (Islamic Republic of) response to the questionnaire

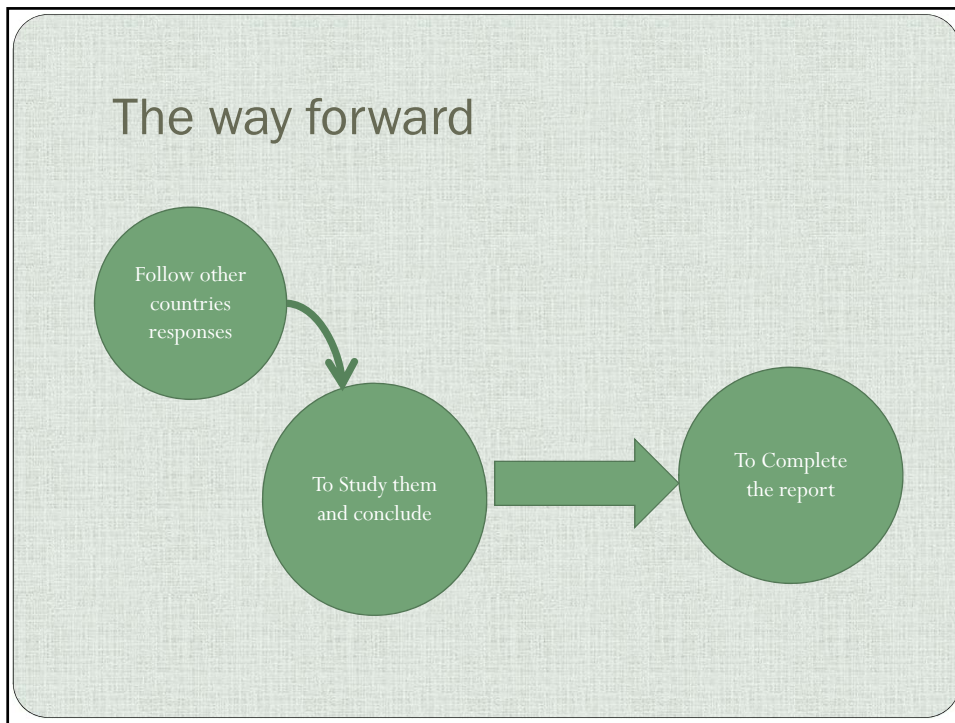
B.6	What type of information is helpful to consider and decide the access network evolution?	Technology reference <input checked="" type="checkbox"/> Existing evolution example <input checked="" type="checkbox"/> Others (please describe)
B.7	Which part has the license granted (regulator, ICT Ministry or other parts)?	Regulator <input checked="" type="checkbox"/> ICT Ministry Others (please describe)
B.8	What was your country method for giving the license (auction or another way)?	Inviting volunteers and choosing the best
B.9	What was the incentive method for investor of FTTx?	Financial supporting Technical Supporting <input checked="" type="checkbox"/> Tax discounting Others (please describe)
B.10	What obstacles and difficulties do you have face to implement it?	Choosing the best operator for granting license.
B.11	What is the role of your country regulatory in the process?	Consultant research Granting License <input checked="" type="checkbox"/> Others (please describe)
B.12	Which related standards are adopted standards (including technical, accounting, management and security standards)?	Not special standard
<i>License characters C.1 - C.4</i>		
C.1	Is there any protection period for license owner? How long is it?	Yes 4 years
C.2	How much does the license fee (in US\$)?	18.3 million \$
C.3	How much is revenue sharing (in US\$)?	In addition to 5% of yearly revenue, there are some fixed amounts for each year.
C.4	How much time is the period of the license?	10 years
<i>If not (Follow D.1-D2)</i>		
D.1	Is there any plan and policy for developing FTTx in your country? (if yes: what kind of policy and if no: what is the reason)	Yes No
D.2	Is there any fiber wire in your country?	Yes No

Pakistan Response

- A1. Have your country ever given any license for FTTx? Yes
- A.2: How much percentage of cables are fiber?
 - Total of 20,500 KMs of Optical Fiber has been laid down by the operators. Further classification is as under:
 - PTCL = 5,500 KM
 - Wateen = 5,500 KM
 - Multinet =4,500 KM
 - Link Direct= 5,000 KM
- A.4: Are ICT Licenses being granted service based or technology based? Service based

Pakistan Response (continue)

- B.3: How many license owners are there and What is the name of them?
 - 4 , PTCL , Wateen, Multinet, Link Direct
- B.9 What was the incentive method for investor of FTTx?
 - **Broadband Policy** was issued by Government of Pakistan, Ministry of Information Technology, IT and Telecommunication Division on December 22, 2004. The Broadband Policy **proposes the strategy of increasing the choice** of technologies (DSL, Cable & FTTx, Wireless, Satellite) to encourage the affordable, 'always on,' broadband high speed internet service in the corporate/ commercial and residential sectors across Pakistan.
 - Pakistan Telecommunication Company **Limited having License** to Establish Maintain and Operate Telecom Services in Pakistan (Operator) is providing the Voice/ Broadband Internet Services by using FTTx Technology.



Thank you

	General Questions	ANSWER
A.1	Have your country ever given any license for FTTx?	Yes ■ (but in the phase of selecting operator) No
A.2	How much percentage of cables are fiber?	
A.3	Are the Network Licenses being granted in your country according to the different classes (Core, access, content ,...)?	Yes No■
A.4	Are ICT Licenses being granted service based or technology based?	Most of ICT licenses are granted technology based.
A.5	Is there any plan for migration the ICT licenses to NGN model in your country? (if yes: what kind of policy and if no: what is the reason)	Yes ■ No Many studies and researches are done in this Issue and according the recently policy, the licenses will be granted NGN Model

<i>If yes (Follow B.1-B.12 and then C.1 - C.4)</i>		
B.1	Which year has the license been granted?	The license will be given this year.
B.2	Does the license owner have another ICT license?	No
B.3	How many license owners are there and What is the name of them?	The license will be granted to one operator. After finishing granting procedures, the license owner will be identified.
B.4	To which parts of FTTx has the license been granted (Home, Office, Building, Curb)?(all, some or one of them)	All of them
B.5	What are the access networks that you considered the most influencing to decide on if the access network should be evolved or not?	Service and application Technology and industry progress ■ Traffic volume Internet and fixed phone penetration Security and management ■ Others (please describe)

B.7	Which part has the license granted (regulator, ICT Ministry or other parts)?	Regulator ICT Ministry others (please describe)
B.8	What was your country method for giving the license (auction or another way)	
B.9	What was the incentive method for investor of FTTx?	Financial supporting Technical Supporting Tax discounting Others (please describe)
B.10	What obstacles and difficulties do you have face to implement it?	
B.11	What is the role of your country regulatory in the process?	Consultant research Granting License others (please describe)
B.12	Which related standards are adopted standards (including technical, accounting, management and security standards)?	

License characters <u>C.1 – C.4</u>		
C.1	Is there any protection period for license owner? How long is it?	
C.2	How much does the license fee (in U.S\$)?	
C.3	How much is revenue sharing (in U.S\$)??	
C.4	How much time is the period of the license?	
<u>If no(Follow D.1-D2)</u>		
D.1	Is there any plan and policy for developing FTTx in your country? (if yes: what kind of policy and if no: what is the reason)	Yes No
D.2	Is there any fiber wire in your country?	Yes No