

Vice-Chairman of ITU-T FG IPTV

ITU-D/ITU-T Seminar on Standardization and Development of NGN for Arab Region

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1. Direction from definition



## **Definition of NGN**

## **Next Generation Network (NGN):**

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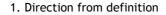
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a packet-based network able to provide telecommunication services and able to make use of multiple broadband, QoS-enabled transport technologies and in which service-related functions are independent from underlying transport-related technologies.

It enables unfettered access for users to networks and to competing service providers and/or services of their choice. It supports **generalized mobility** which will allow consistent and ubiquitous provision of services to users.

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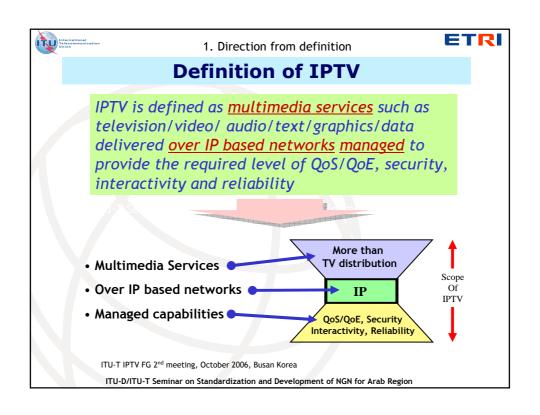


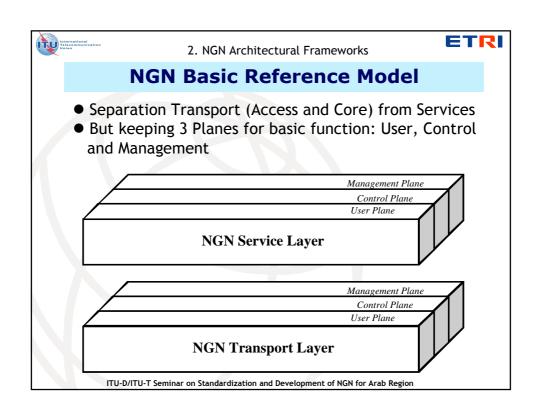


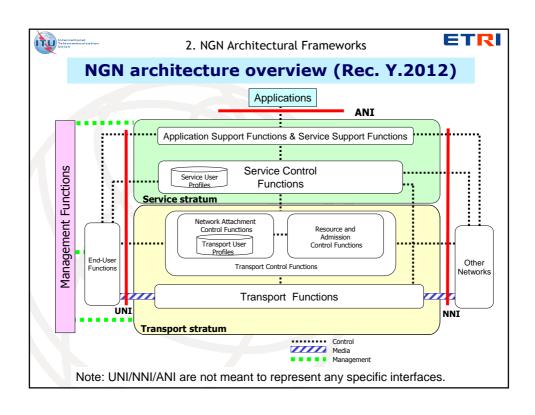
## **Key Principles of NGN**

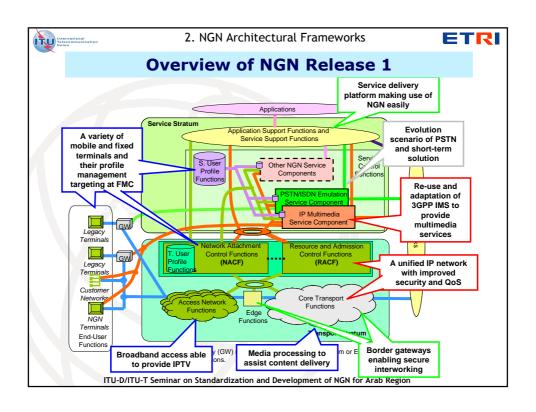
- Open architecture: open to support service creation, service updating, and incorporation of service logic provision by third parties and also support "Distributed control" as well as enhanced security and protection.
- Independent provisioning: service provision process should be separated from network operation by using distributed, open control mechanism to promote competition.
- Multiplicity: The NGN functional architecture shall offer the configuration flexibility needed to support multiple access technologies.

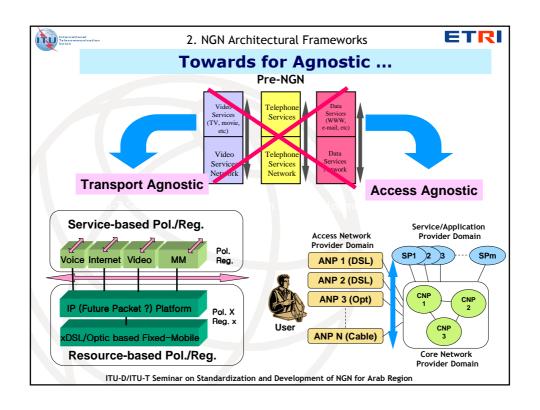
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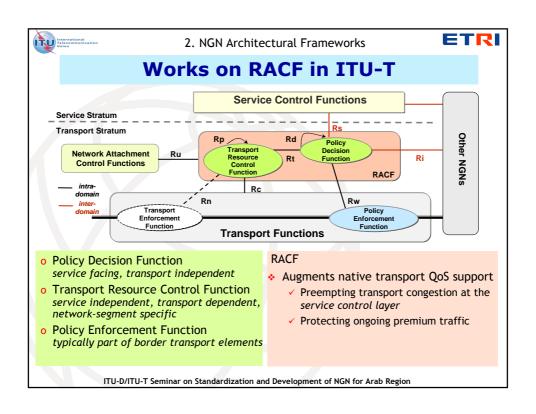














2. NGN Architectural Frameworks



## **High Level Requirements of NACF**

- Dynamic provision of IP address and other user equipment configuration parameters (e.g. using DHCP).
- User authentication, prior or during the IP address allocation procedure.
- Authorization of network access, based on user profile.
- Access network configuration, based on user profile.
- Location management.

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