Ukrainian Numbering, Naming and Addressing Operation Center

Development of administration and management on NP and IMEI-codes systems as personalized of subscriber's services

> ITU Regional Workshop for Europe and CIS on Digital Future Powered by 4G/5G

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Convergence paradigm on 4G/5G networks



5 aspects:

1) Access

- 2) Interaction & Interconnection
- 3) NNA
- 4) Services
- 5) Rates and Tariffs

Forming the basis of a convergent environment in which (1) **any user** in (2) **any time** and in (3) **any place**, using (4) **any own identifier** (s) and (5) **own device** (s), can receive from (6) **any chosen operator** the necessary (7) **service "here and now"**

Regulation and consumer protection in a converging environment, Report ITU-D, March 2013





Relevant and necessary features of the NGN to support of the USN ⁴ applications and services

- Open service environment
- Differentiated QoS and data prioritization
- Connectivity
- Location management



Main drivers for development on 4G/5G networks

> Authentication, Authorization, Accounting and charging









Properties of the 4G/5G Networks

- Full-support USN applications and services
- Multistakeholders and multi-user trusting environment within network structures
- Easy connectivity of any elements right up to the IoT networks elements
- Personalization of the Services (PSP)
- Technologically independent maintenance identification of the digital objects and services ("IMEI")
- Identifiers' and Services' Portability (MNP -> PSP)
- Security
- Scalability of the Network and Subject Solutions

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Thanks! Questions?

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