

# Evolution to NGN

## Parlay/OSA architecture

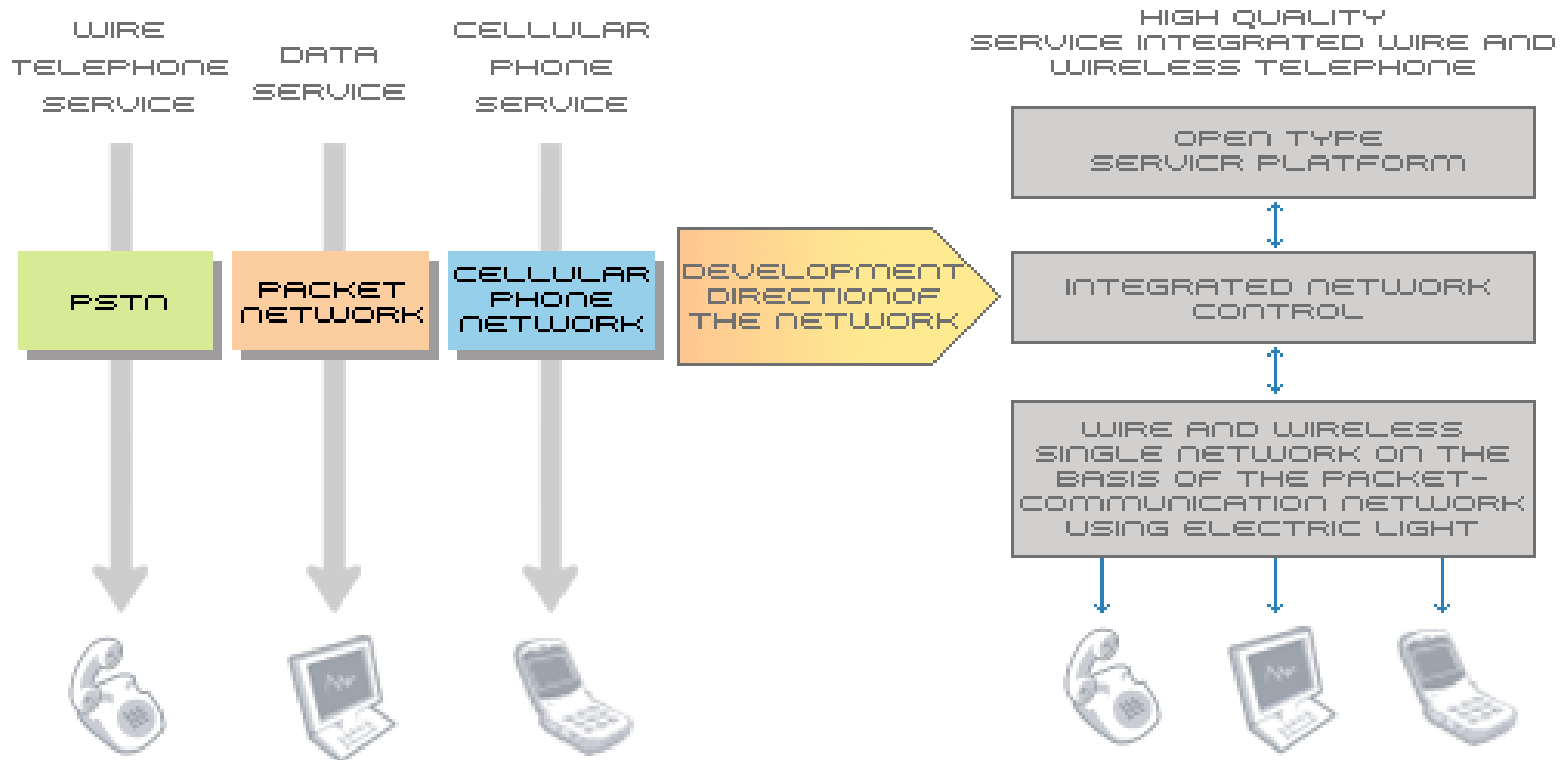
Albert KAMGA ([albert.kamga@ties.itu.int](mailto:albert.kamga@ties.itu.int))

Ministry of Posts & Telecommunications  
Yaoundé - Cameroon

# Contents

- ✓ Introduction
- ✓ Overview of parlay/OSA (genesis and evolution);
- ✓ Logical architecture of Parlay/OSA;
- ✓ Benefits (operators, applications developers and users).
- ✓ Conclusion

# INTRODUCTION



# Overview of parlay/OSA

- ✓ Standardization of the NGN service model is based on Parlay/OSA (Open Service Access) structure.
- ✓ The Parlay Group was founded by BT, Microsoft, Nortel, Siemens and Ulticom in 1998 to develop APIs (Application Programming Interfaces);

# Overview of parlay/OSA

- ✓ The international standardization effort for the NGN network model and its functional architecture is led by the ITU-T, MSF (Multiservice Switching Forum), IETF, and 3GPP (3rd Generation Partnership Project);

# Overview of parlay/OSA

- ✓ **AIM:** enable network carriers, software providers, and 3rd party service providers to develop applications for various Internet, wired network, and wireless network services

# Logical architecture of Parlay/OSA

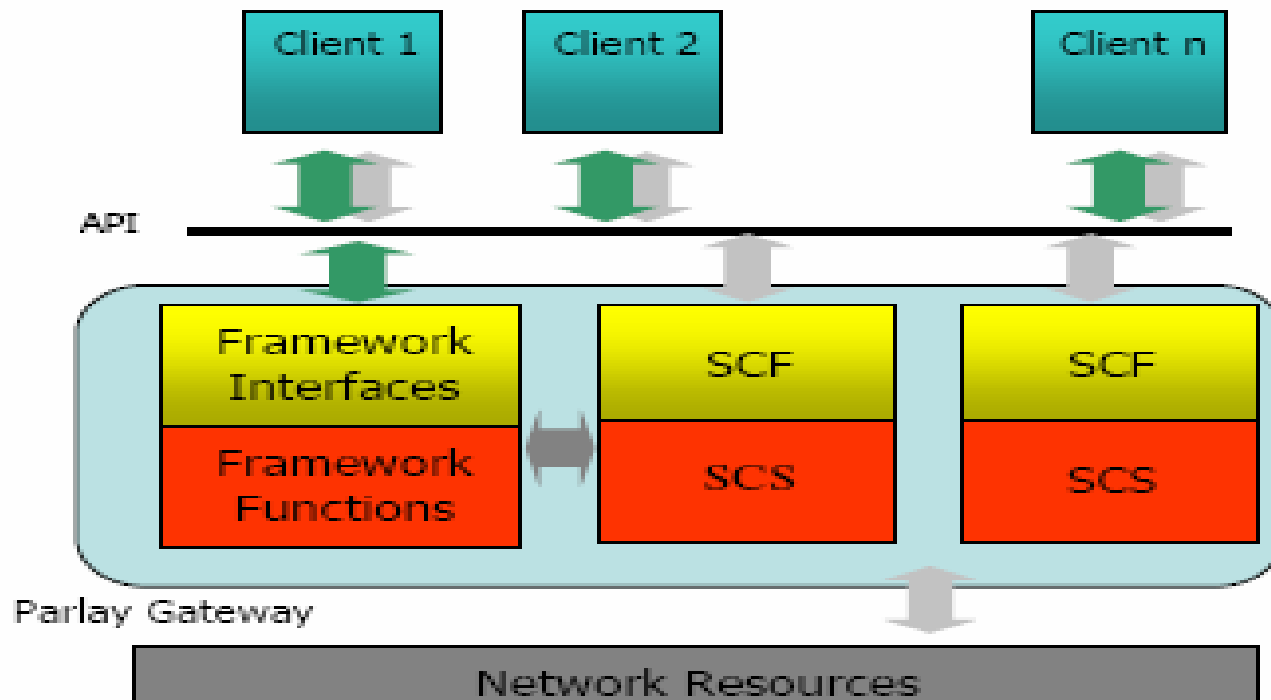


Figure 1. The Parlay/OSA Architecture

# Logical architecture of Parlay/OSA

- ✓ a set of **Client Applications** accessing the network resources;
- ✓ a set of **Service Interfaces**, or **Service Capability Features** (SCFs), that represent interfaces for controlling the network capabilities provided by network resources (e.g., controlling the routing of voice calls, sending/receiving SMSs, locating a terminal, etc.);
- ✓ a **Framework**, that provides a modular and “controlled” access to the SCFs;
- ✓ **Network Resources**, in the telecommunication network, implementing the network capabilities.



# Benefits for end users

- ✓ Users can benefit from various types of new services and a wide variety of service choice offered by a number of service providers.

# Benefits for networks carriers

- ✓ Network carriers can offer a variety of new services in a timely manner in response to the rapidly changing demand of users through partnerships with third-party service developers and service providers, which will bring them revenue from increased network traffic. Furthermore, the high portability of service logic is another advantage since service logic does not have to change when there is network improvement.

# Benefits for service providers and developers

- ✓ Service providers and developers can expect additional revenue through new business models.
- ✓ Better delay for the implementation of new services or applications

# CONCLUSION

- ✓ NGN Parlay OSA good for everyone (users, operators)
- ✓ Necessity to adapt regulation
- ✓ Standardization on the way (ITU-T SG13)
- ✓ Important to Africa to participate

**THANKS FOR LISTENING**

# Q&A

