UNIK 4230
Seminar Topics

Abul Kaosher
abul.kaosher@nsn.com

Nokia Siemens Networks

UNIK4230: Seminar Topics for Students

1. Smart WLAN
2. Multiscreen TV
3. Mobile wireless security
4. Cloud Computing in Mobile Communications
5. Should CSP compete or cooperate with OTT?
6. IPv6 and Dual Stack in Mobile wireless communications
7. Wireless LAN (WLAN)
8. Bluetooth Technology
9. Global Positioning System (GPS)

Time: 20 min (presentation: 15 min, Q&A: 5 min)

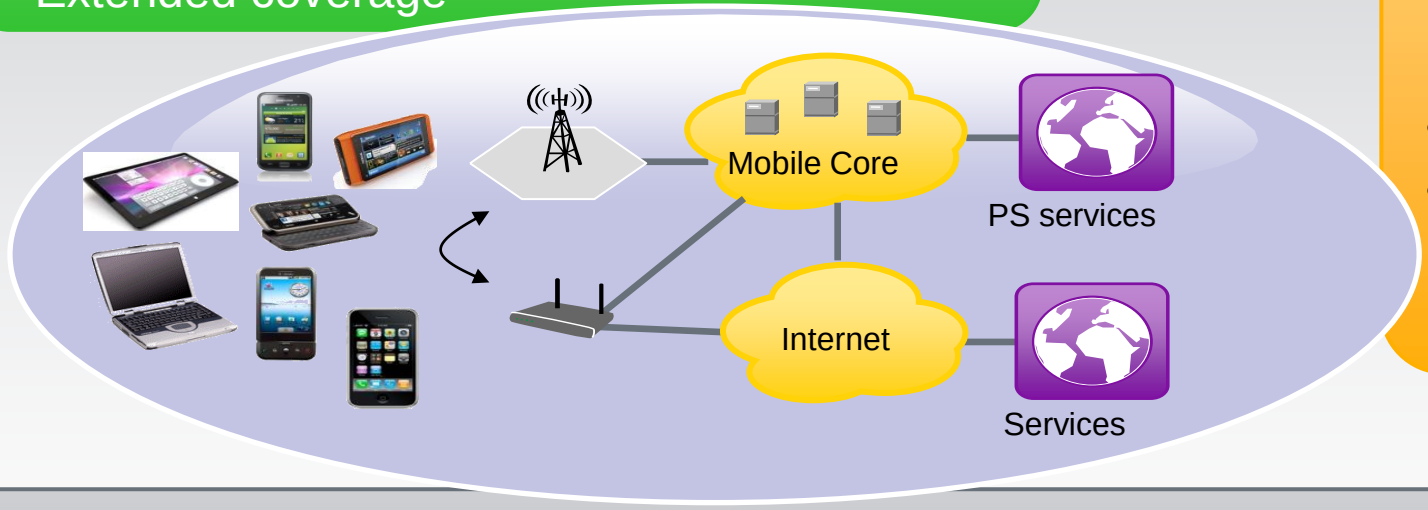
Date: 12th April

Nokia Siemens Networks

1. Smart WLAN Connectivity solution turns Wi-Fi networks into seamless extensions of mobile network

End user benefits

- Faster data connections
- Wi-Fi is as easy to use and secure as 3G
- Extended coverage



Operator benefits

- Carry larger volumes of traffic and support a higher number of end users
- High performance indoor coverage and capacity by leveraging Wi-Fi
- Increased customer satisfaction
- Retain position in traffic value chain and control over user experience for Wi-Fi access

- 3GPP standards based solution ensuring compatibility to large number of devices and easier integration in multi-vendor networks
- Overlay solution compatible with 2G/3G/HSPA/LTE and existing Wi-Fi

Nokia Siemens Networks

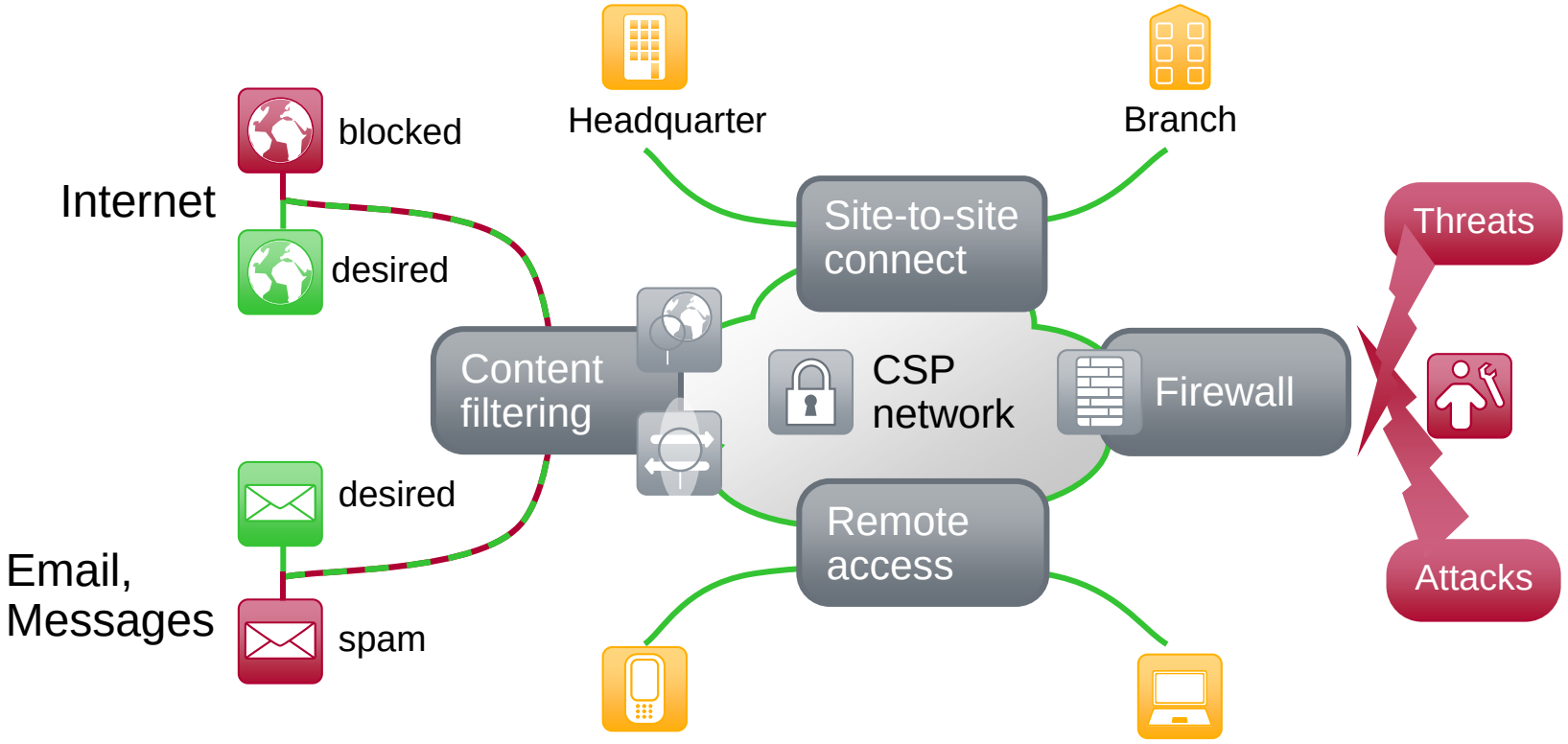
2. Multiscreen TV – A totally new service experience

Any network	Any device	Multiple services	Everywhere
3G/LTE Internet WiFi hot spot Managed IP network Broadcast network	Smart mobile devices Internet PC Home TV STB Game consoles etc.	One subscription, one bill Multiscreen EPG, browsing & interaction Multiscreen live channel viewing Multi-screen VoD catalogue Internet Social networks Variety of applications Blended services	 **My personal media**

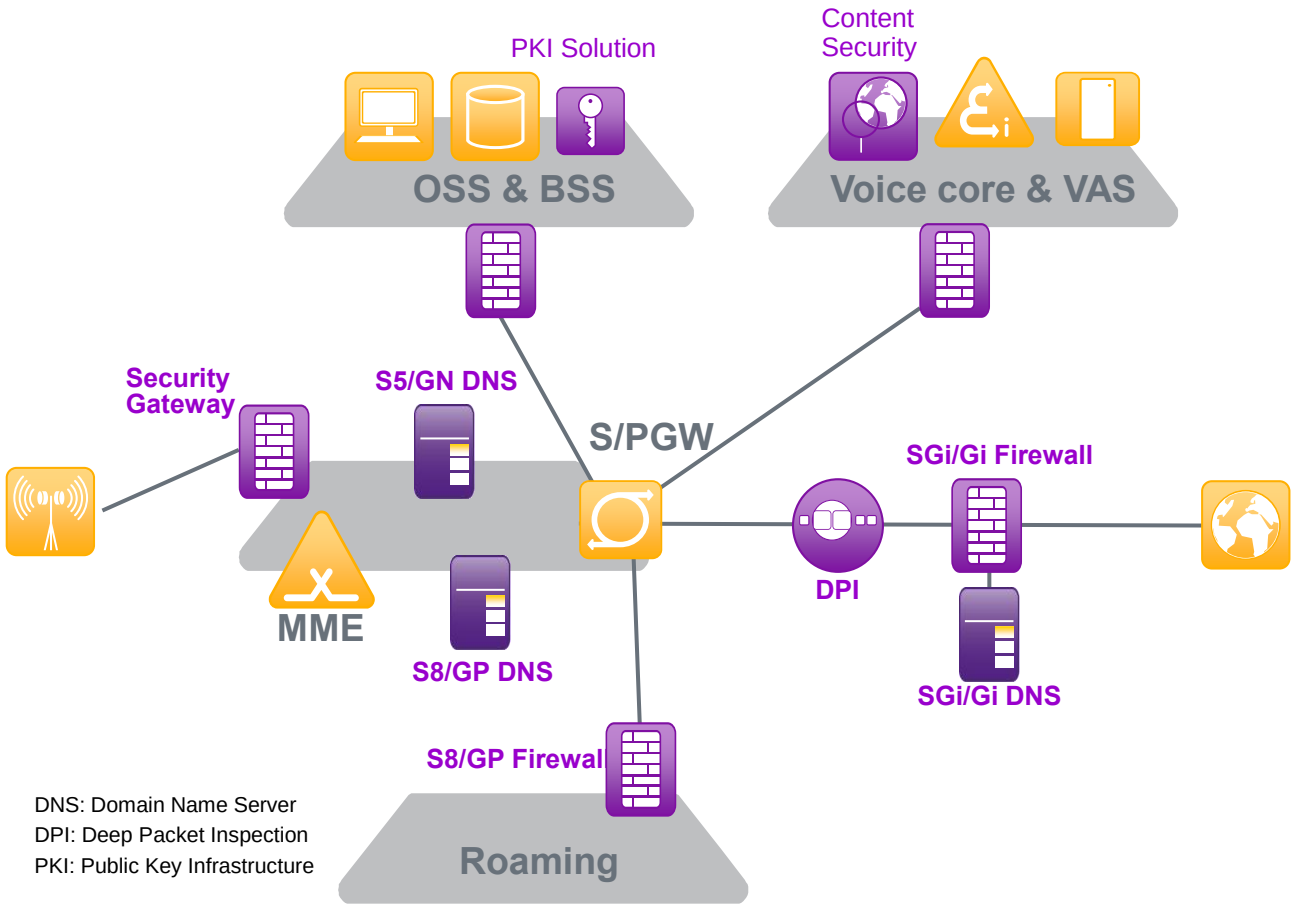
One Media Delivery Solution

Nokia Siemens Networks

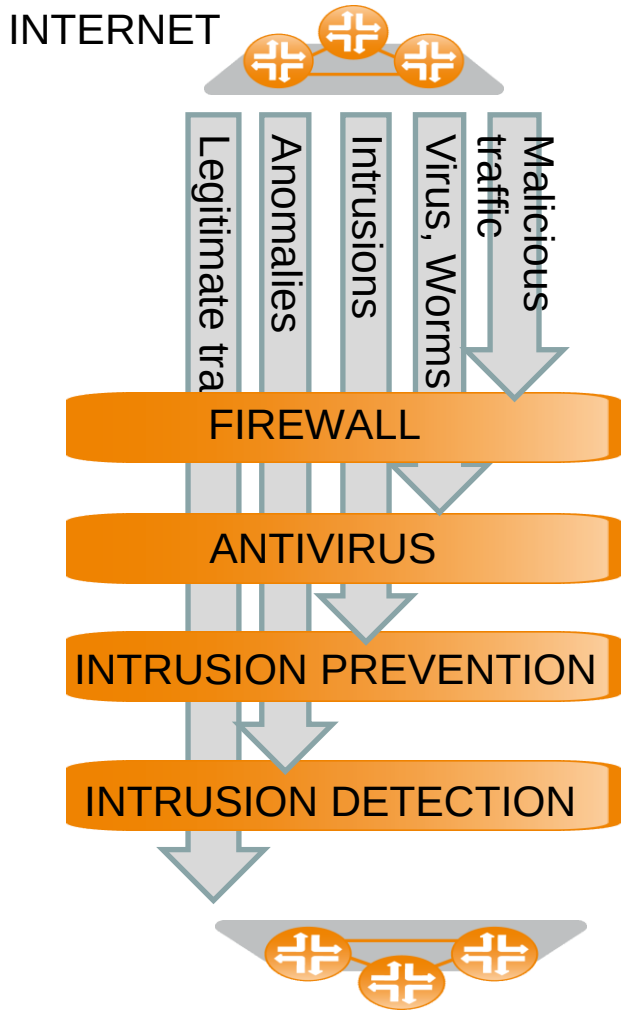
3. Mobile wireless security



3. Safeguard against Security Threats



DNS: Domain Name Server
DPI: Deep Packet Inspection
PKI: Public Key Infrastructure



4. CSPs play a central role in the cloud computing boom

$60 Billion market already and growing fast with over 20% CAGR

New revenues

Focused cloud solution portfolio

Internal cost efficiency

Privacy, Security and Quality of service differentiation

Professional & managed services

Telecom products & applications

SME / enterprise applications

Consumer applications

M2M vertical applications

Telecom platform as a service (PaaS)

Private cloud

Hybrid cloud

Public cloud

Telecom mobile/ wireline network(s)

Cloud service management

5. Transformation of Mobile Industry: CSP and OTT

Consumers and enterprises

Content, developer community and revenue flow

Connectivity and basic VAS

Voice, SMS, Internet access, SIM distribution

CSPs

XaaS providers: Apps, content and services

Nokia Siemens Networks

6. IPv4 is Full

Image from zinyaw.files.wordpress.com

Nokia Siemens Networks

Federal IPv6 Transition Timeline

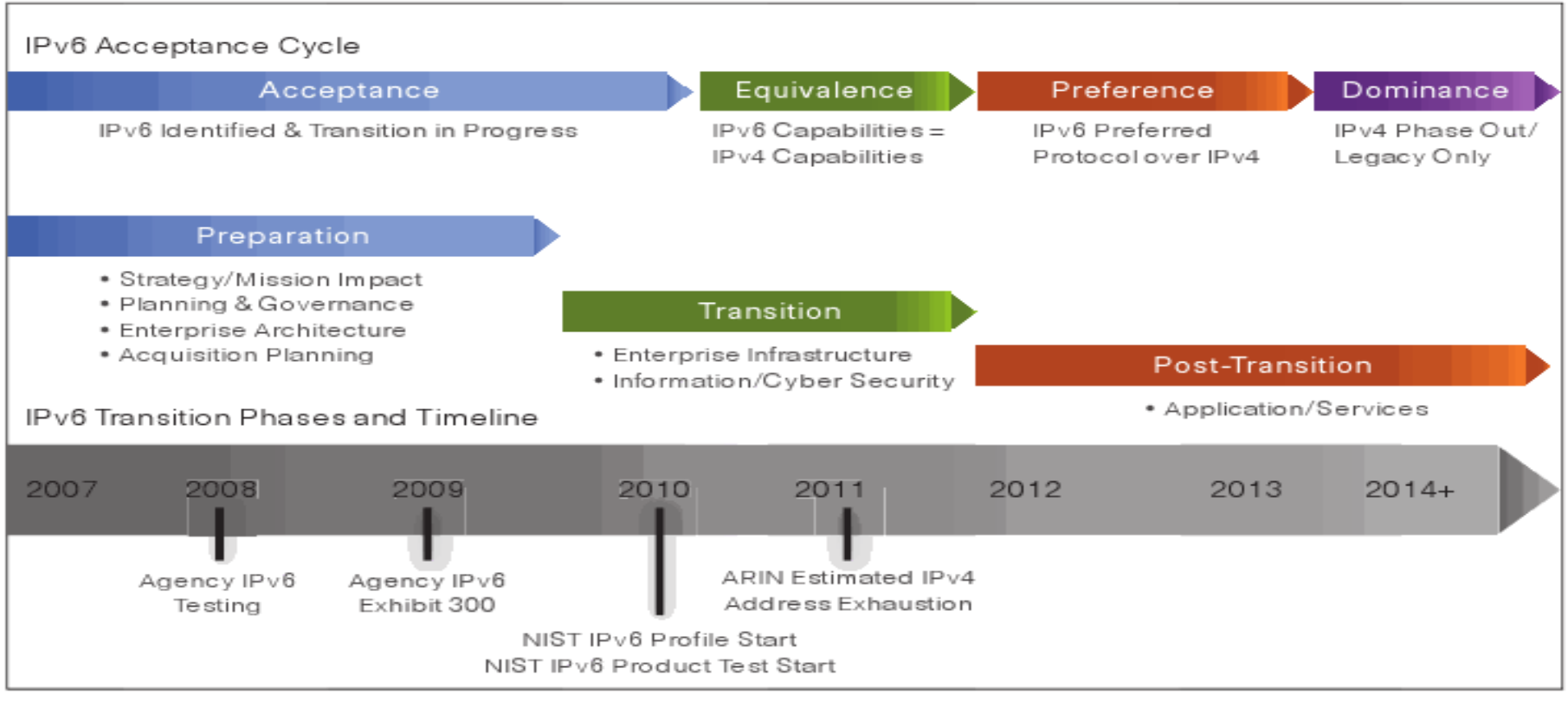


Figure 2: Federal IPv6 Transition Phases and Timelines

From Cisco (link Defcon-talk 2)

Nokia Siemens Networks