



Remove Complexities to Expedite Networking Designs Within Multicore



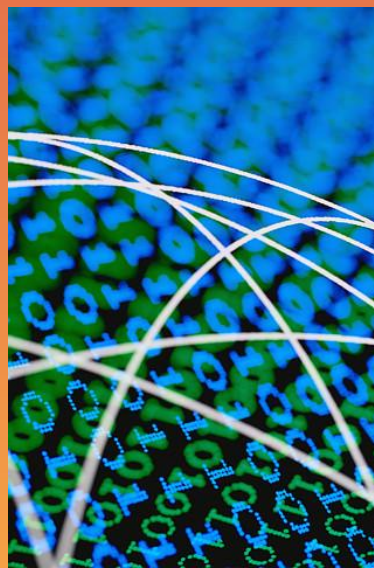
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Requirements For Next Generation Networks



Billions of Devices

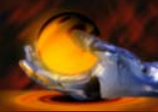


Green Computing



New Generation of Internet Services

All are driving the need for multicore-based platforms to maximize performance possibilities



Advanced Services Require Leading Technologies

ADVANCED SERVICES

WiMAX, LTE,
UTM, DPI,
IPTV, ToIP,
etc...



LEADING TECHNOLOGIES

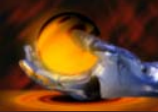
All IP – IP Convergence

Multicore

Linux

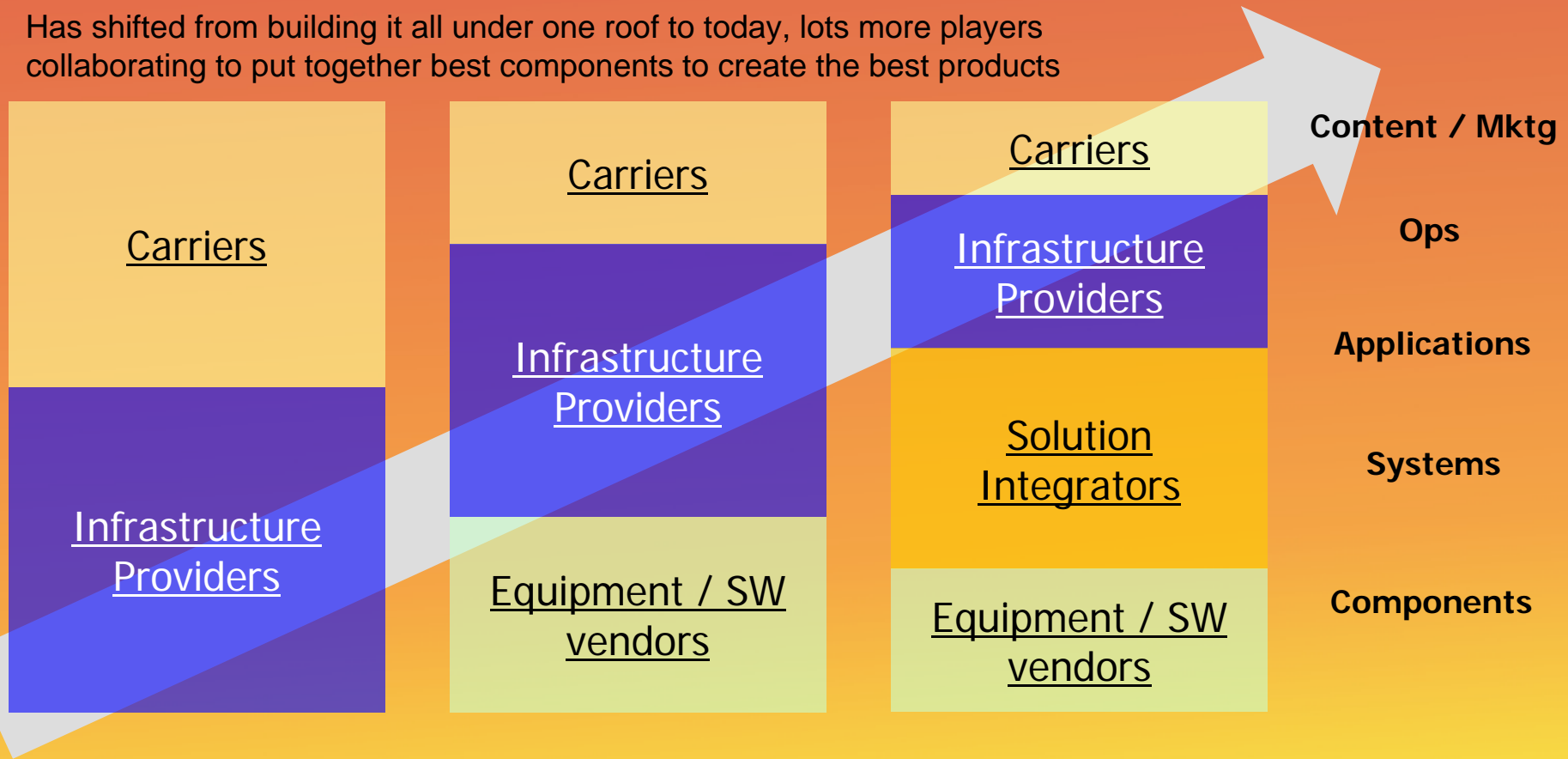
Standard-Based Architectures
(ATCA, Blade Center...)

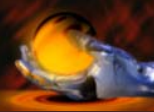
More SW Intelligence in the
Network



NGN Market Evolution

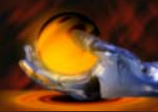
Has shifted from building it all under one roof to today, lots more players collaborating to put together best components to create the best products



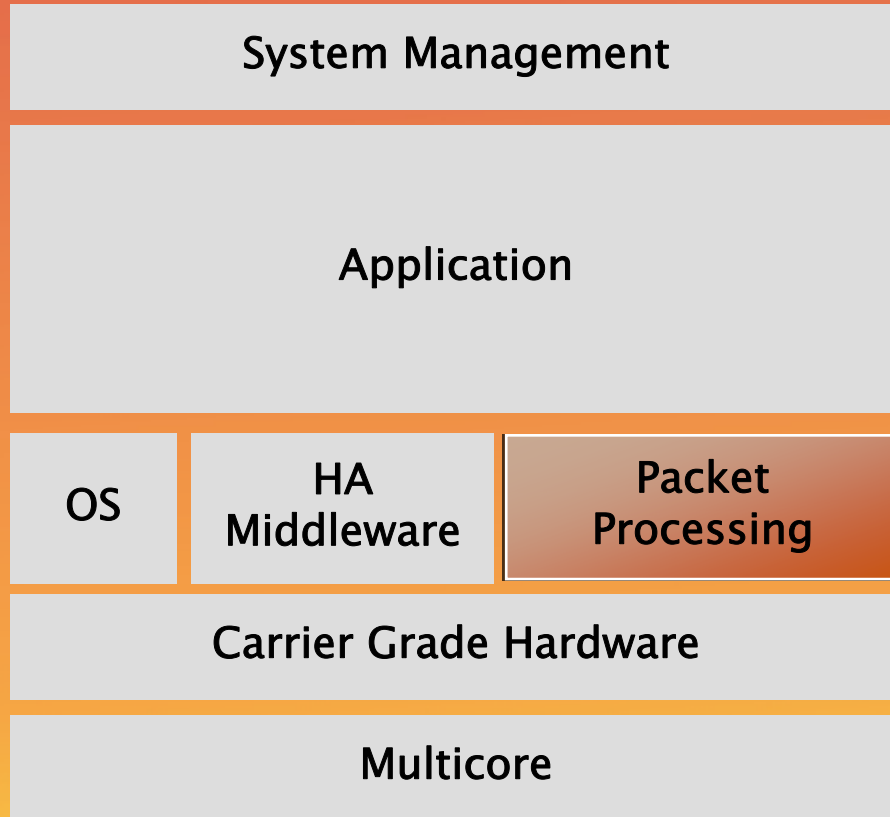


Key Questions

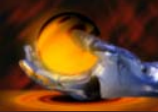
- **How to rapidly deploy and integrate all these new technologies into a NGN infrastructure?**
- **What are the key components to quickly build a complete solution?**
- **How to build an ecosystem for faster TTM?**



System Solution

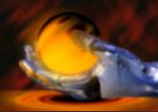


A Secure & Portable
High-Performance
Networking Layer
designed for multicore



Multicore-based Packet Processing Requirements

- Specifically designed to make the best use of multicore performance
- Have a complete set of integrated generic and comprehensive networking features
- Provide hardware independence
- Make multicore packet processing layer transparent for applications
- Allow customization for added value



Benefits in the Value Chain (1/2)

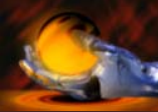
Carriers

Infrastructure
Providers

Solution
Integrators

Equipment / SW
vendors

- Rely on a validated, ready-to-use and complete multicore networking layer
- Simplify existing SW reuse as packet processing is reusing Linux API to hide multicore complexity
- Significantly accelerate TTM for convergence (IT & Telecoms applications using same networking layer)
- Increase margin on value added services



Benefits in the Value Chain (2/2)

Carriers

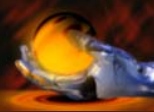
Infrastructure Providers

Solution Integrators

Equipment / SW vendors

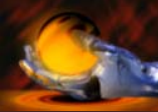
- Accelerate the all-IP transformation of the network to provide innovative services and faster revenue generation
- Have an application-ready infrastructure to focus on service delivery and management
- Have a flexible infrastructure to scale new services

- Provide a high-performance, intelligent and “green” infrastructure for NGN services
- Better ROI
 - Scalable solution for a range of IT and networking applications
 - Standard’s-based for TCO savings

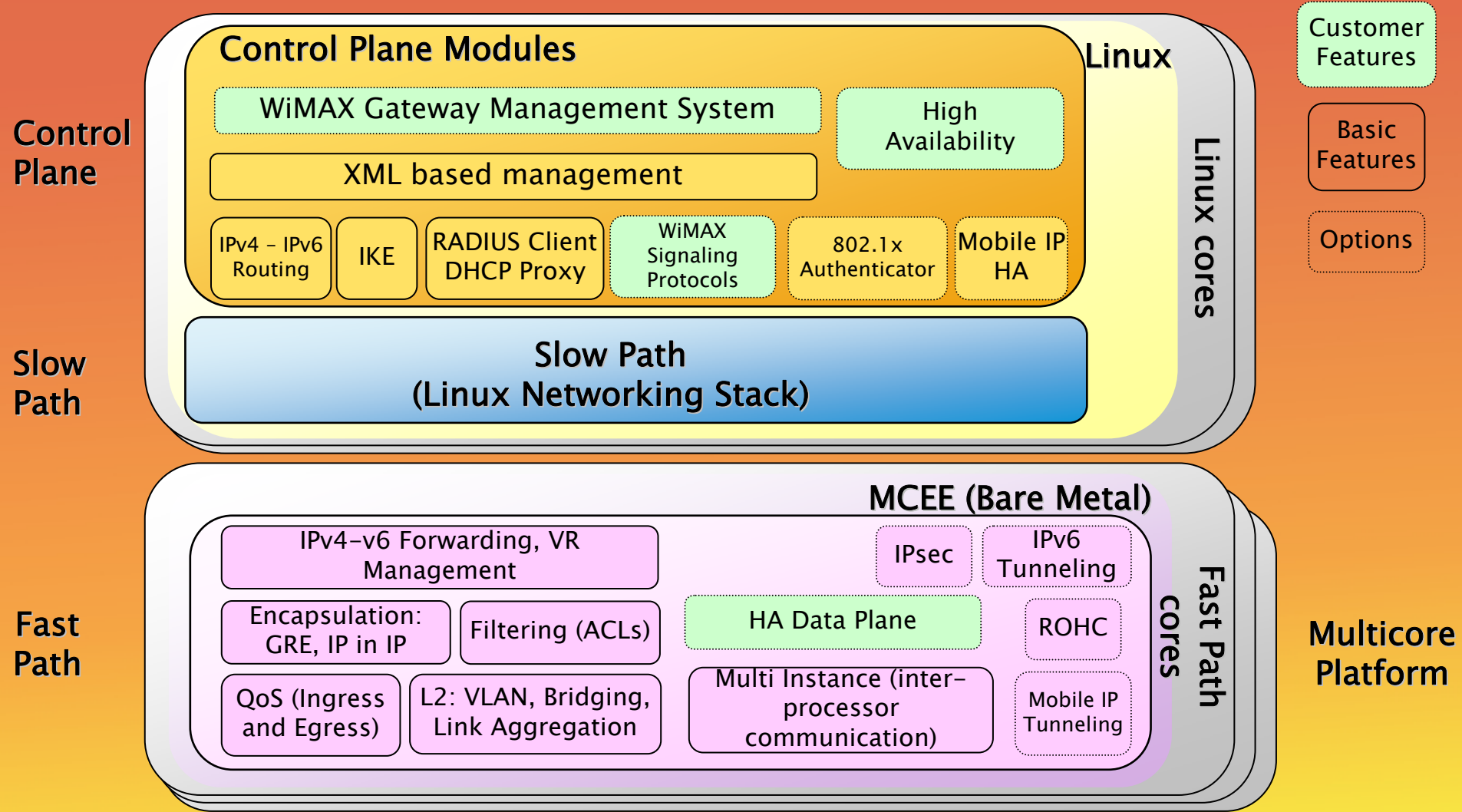


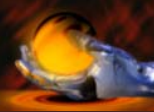
Example: WiMAX ASN Gateway

- A Critical Equipment for WiMAX Architecture
- A large Set of Networking Features
- High Performance Packet Processing
- Carrier Grade Requirements



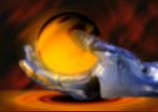
WiMAX ASN Gateway using OTS Packet Processing





Benefits

- Fast Path-ready for each protocol
- Integrated Fast Path solution
- Integration with crypto engines, HW queues... to maximize performance
- Fully Integrated with OS stack to simplify software reuse
- Ready to integrate for management (XML)
- Available on different multicore platforms
- Evolutive solution
- Reduced validation and maintenance costs



Simplify and Expedite Networking Designs Within Multicore



Thank YOU
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