



Adaptive Platform Evolution

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Disclaimer

This product roadmap represents Extreme Networks® current product direction.

All product releases will be on a when-and-if available basis.

Actual feature development and timing of releases will be at the sole discretion of Extreme Networks.

Not all features are supported on all platforms.

Presentation of the product roadmap does not create a commitment by Extreme Networks to deliver a specific feature.

Contents of this roadmap are subject to change without notice.



Customers are looking for solutions to pain points to improve business outcomes



How do I keep my network secure as we enable the Internet of Things (IoT) and BYOD?



I'd like to keep up with the rapid growth of my network without adding more IT staff.



Are we fully utilizing the expensive annual licenses for enterprise software?



I need tools that help me stay compliant with regulations such as HIPAA, PCI and CIPA.



Direct and Indirect Investments

- Stagnates Innovation / Service modernization lag
- Many case HW small expenditure
- Indirect recurring costs in many cases are excessive and may increase annually



Digital Transformation on Foundational Platforms

Legacy Enterprise IT



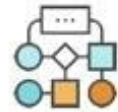
data center

waterfall

silos



IT as overhead



process-driven



operations

Focus on

- Automation of Business
- Operations and Functional Silos
- Legacy Business Models
- Discrete, Separate Touchpoints
- Systems of Record
- Irregular, Periodic Change
- Emphasis on Service Delivery
- Centralized IT



Digital Enterprise



cloud



agile + devops



ecosystem



IT for revenue



data-driven



change processes

Focus on

- Digitization Transformation of Business
- Customers, Products, and Data
- Digital Business Models
- Seamless Omnichannel
- Systems of Engagement
- Continuous Everything
- Emphasis on Digital Experience
- Decentralized IT (everyone is in IT)

From <http://zdnet.com/blog/hinchcliffe> on  by Dion Hinchcliffe



The World is Changing . . .

Legacy Networking

Doesn't Scale
Expensive
Minimal API Usage
Manual Management
1 Admin per 100 servers
Proprietary Lock-in



Software Driven Networking

Scales to Millions of Users
10x-40x more cost effective
Programmatic API Usage
Automated Management
1 Admin per 10K servers
Open

How can we Help?

Adaptive Infrastructure - Compute

- Have seen benefits from a CPU Perspective



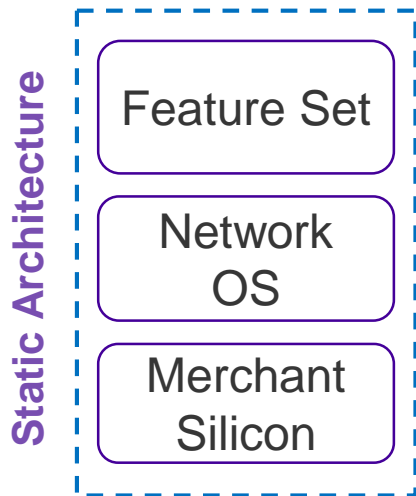
CPU

**Operating
System**



Adaptive Infrastructure - Networking

- Merchant Silicon is here to Stay



But implementation is still associated with specific OS and Features



How do we decouple these 1:1 associations?



Introducing Linux 4.9

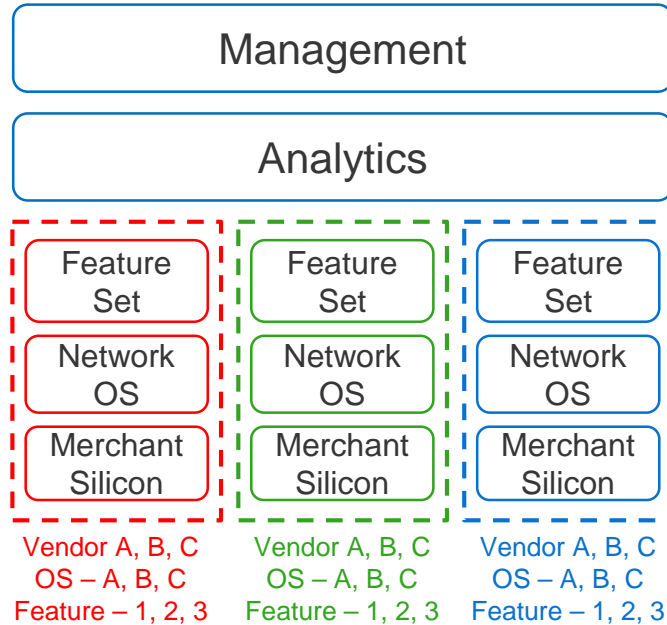
- Application Container Framework
- Using a containerized framework to decouple 1:1 relationship between
 1. Hardware
 2. Operating System
 3. Features



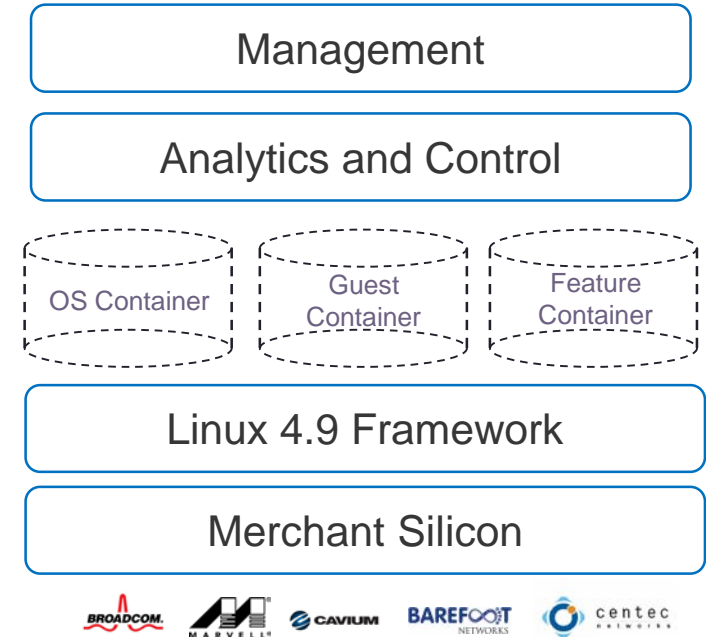
Linux 4.9

Adaptive Model Moving Forward

Today

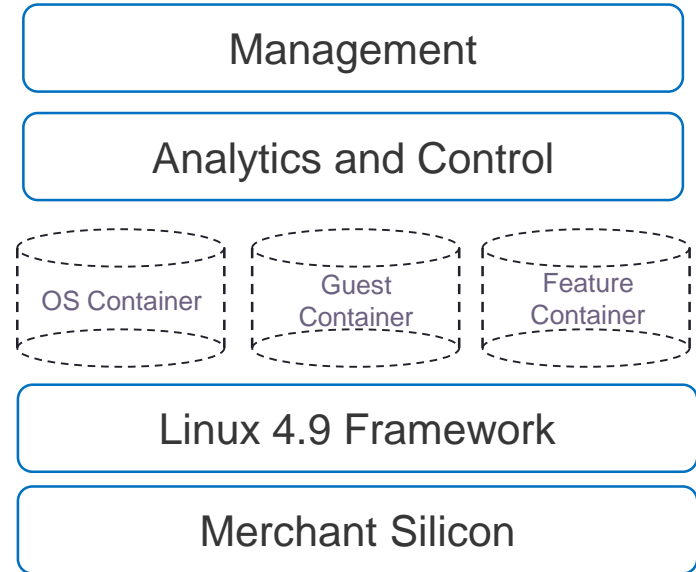


Future



Benefits

- Platform Virtualization
- Guest Containers (VMs) to Host Applications
 - Streaming API's
 - Troubleshooting Tools
- Infrastructure Efficiency
- Monetization Efficiency – Direct / Indirect

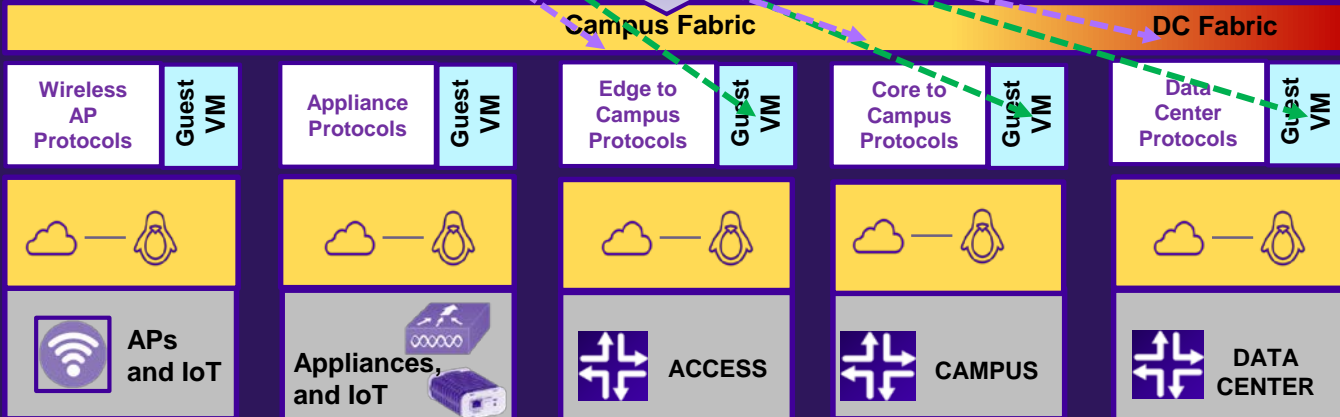


2020 – Platform Strategy Illustration

NETWORK APPLICATIONS
- G/B/Best Subscriptions

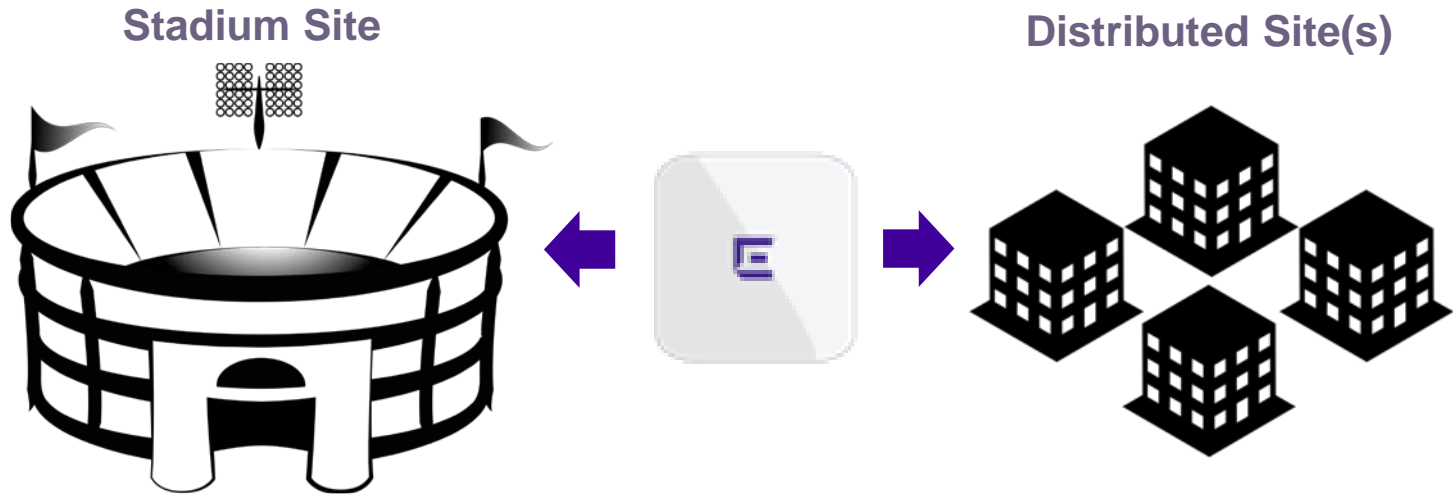


Common Resilient Fabric Services



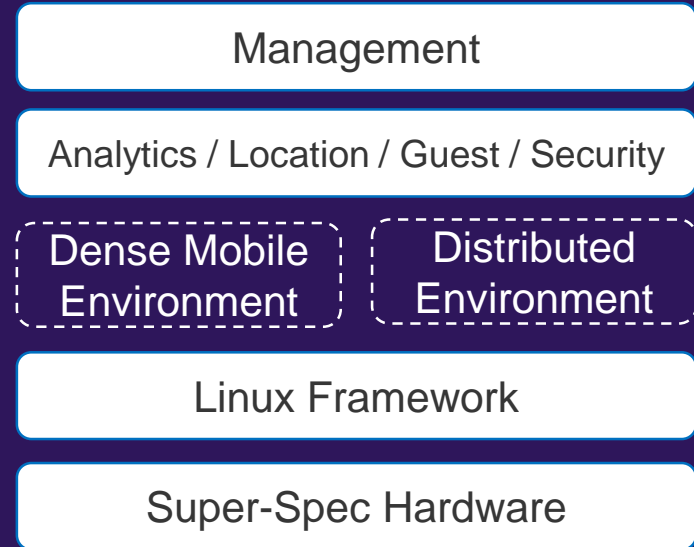
Use Case – Entertainment

- Mobility challenge to serve user population with different characteristics



Use Case – Entertainment

- Common Hardware
- Common Kernel
- Common Discovery System
- Common File System
- Common Compliancy
- Unified API Framework
- Backwards Compatibility



Call to Action

- Horizontal Solution to Address Vertical Outcomes
- 1:1 Disassociation between HW, OS, Features
- Take prior CPU success and apply to Infrastructure
- Leverage SW to Simplify, Secure, Innovate





ExtremeTM

Customer-Driven Networking

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