Using the Cloud to Support BYOD

Presented by Eric Henry, CTO of Helixstorm

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Eric Henry, CTO of Helixstorm

- Co-founded Helixstorm in 2007, and brings over 20 years of technology experience and numerous distinguished certifications to the organization.

- Specializes in IT infrastructure planning, design, and implementation.

- Strong background in SAN storage, Virtualization, and Operating Systems.

- Recently recognized by The Computerworld Honors Program as a 2011 Laureate for the design and implementation of a High Availability Storage project.

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Items *to Discuss*

> BYOD: The Accelerating Landscape

> The IT Problem Created by BYOD

> Things to Consider before Leveraging the Cloud

> Suggested Cloud Solutions

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BYOD: *The Accelerating Landscape*

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A Question to Start:

How many of you are noticing more mobile devices at work?

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BYOD: *The Accelerating Landscape*

95% of organizations are experiencing an increase in employee devices!

Which of the following statements best describes the changes your organization is experiencing with respect to alternative endpoint computing devices? (Percent of respondents, N=221)

We are experiencing little or no growth in our employees' use of alternative endpoint computing devices, 5%

We are experiencing some growth in our employees' use of alternative endpoint computing devices, 12%

We are experiencing significant growth in our employees' use of alternative endpoint computing devices, 55%

We are experiencing moderate growth in our employees' use of alternative endpoint computing devices, 29%

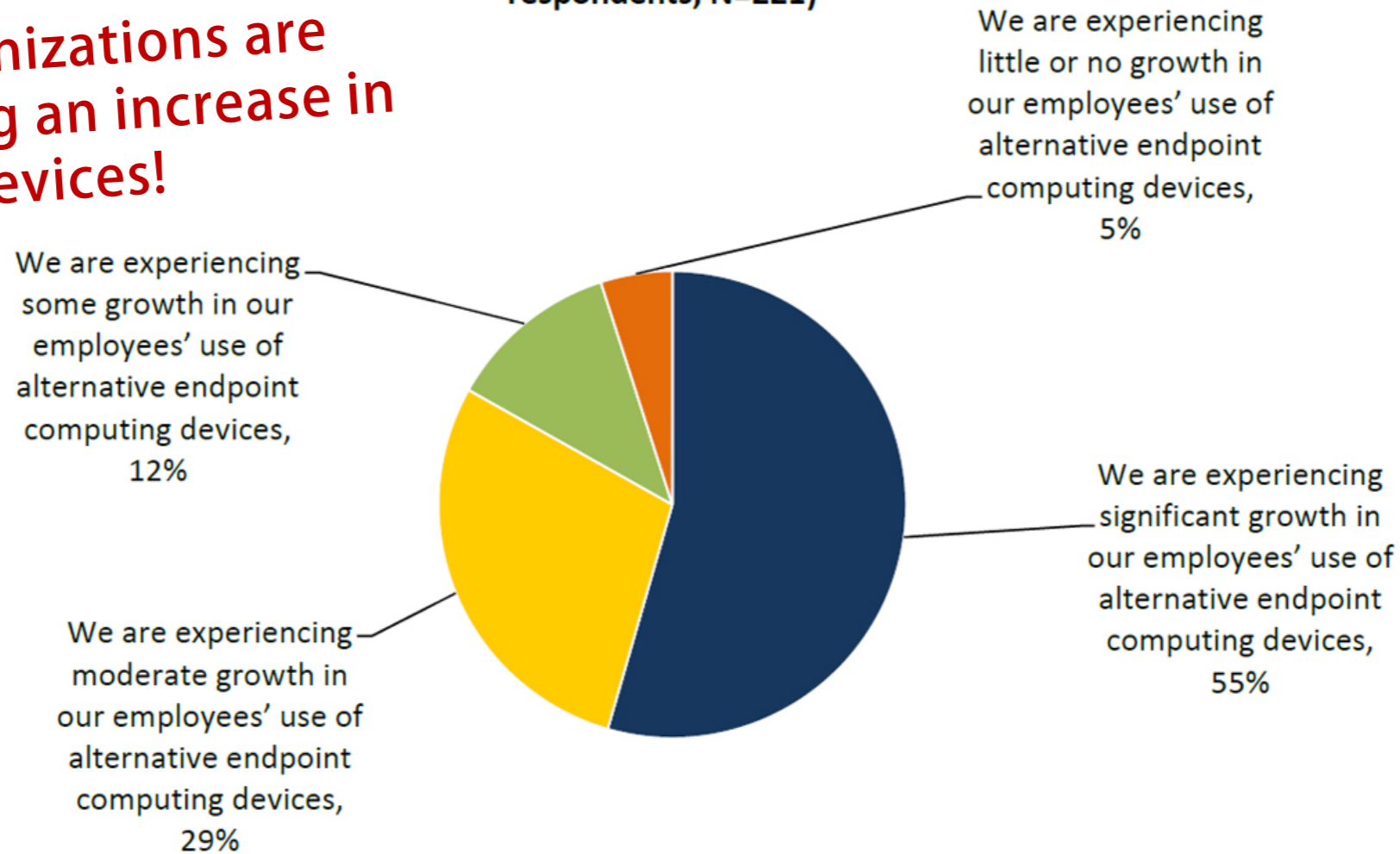*Source: Enterprise Strategy Group, 2012.*

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BYOD: *The Accelerating Landscape*

People are Working Differently

- US Employees Survey showed 27% of employees use do-it-yourself tech

- US Employees Survey showed that 97% of people carry more than two devices

- Hardware shipments in 2015 are projected to be at 300 million tablets and 1.1 billion cell phones

- The mobile applications market is expected to reach $33 billion by 2015

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The Pace of End-user Technology is Changing

- People are used to sophisticated technology
  - *This leads to higher expectations coming from employees about IT*
- The workforce is more mobile
- New applications are on the rise
- People are using new and different devices (and bringing them to work)

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The IT Problem *Created by BYOD*

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BYOD Can Create Problems for IT Organizations

- Makes current computing models unpredictable and unstandardized
- The diversity of devices, applications, and access is challenging to manage
- Security and efficiency are difficult to balance
- Changes or additions to corporate technology can break configurations
- Budget restraints make it difficult to be flexible with so many devices
- Different needs for different groups of employees

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The IT Problem Created by BYOD

End-user Needs

- Fast access to data
- Flexibility in device usage
- Ability to access data from multiple devices
- Stay productive even when not in the office
- Easy and convenient
- No fear of data getting stolen or lost

**Easy to use
Fast
Convenient**

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The IT Problem Created by BYOD

Low cost
Easy to manage
Secure

IT Professional Needs

- Ability to manage data on multiple devices
- Maintain security, compliance, and auditing
- Easy to support
- Simple provisioning and maintenance
- Low cost
- Satisfy end-user requirements

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How to Satisfy Both Parties

It comes down to making a plan to fulfill these three fundamental things:

- Keep data secure and protected across multiple endpoints
- Implement methods to control access
- Maintain and improve productivity

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Things to Consider before
Leveraging the Cloud

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Current IT Model

- OS, Applications, and User Data are tightly integrated and tied to a single device
- Rigid architecture means IT is dependent on standardized device configurations
- Any change to the technology can break the configuration and drive up costs
- Ongoing budget and compliance pressures and constraints

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The Ideal, BYOD-minded IT Model

- Shifted focus from single device to the delivery of services
- Better end-user freedom without compromising IT control and security
- Simple platform that integrates technology components, management tools, and applications into a centralized service
- Connection of people and technology, irrespective of devices

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Suggested *Cloud Solutions for BYOD*

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BYOD: *The Accelerating Landscape*

Improve what you have now

- Simplify components by virtualizing them

- Leverage key initiatives like OS migrations, desktop refreshes, M&A, etc. to transform devices into centrally managed services

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Virtualization: Virtual Desktops

- Desktop is not on the endpoint, but instead hosted in the data center
- Better end-user experience
- Desktop is available on multiple devices, including mobile
- Simplified management and increased control
- Reduced TCO of endpoint devices

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Virtualization: Data Center

- Significantly reduce your data center TCO
- Consolidate space, utilize all available resourced, and reduce unnecessary cost
- Faster server provisioning
- Increased uptime
- Natural transition to the cloud

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Embrace the Cloud

- Extend your enterprise policy to the cloud

- Move to the cloud at a pace that matches your available budget and resources

- Educate yourself and your company on the best cloud environment for you

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Escape to the Cloud

- Leave behind traditional methods and transition new application and data services to the cloud
- Use applications that enable the workforce to connect, communicate, and collaborate with each other
- Let the PC become a service instead of the focus, and eventually retire it

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In *Summary*

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Benefits to Leveraging the Cloud for BYOD

- Better way for users to work

- Easier and optimized way for IT to manage enterprise technology

- IT and End-users will be on the same page, working together instead of against each other

- Highly productive workforce without having to sacrifice security

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Questions?

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Thank You!

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