



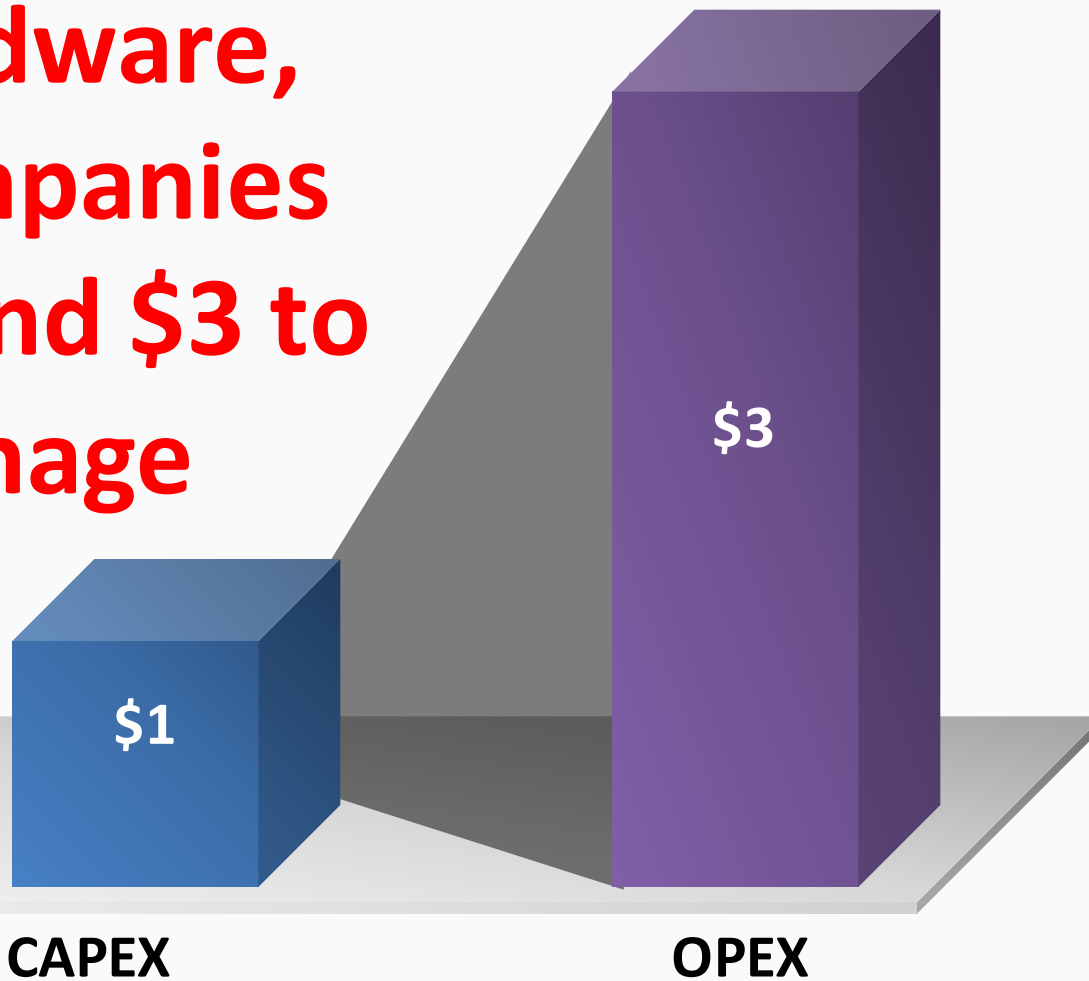
Data Portability, Data Security and Data Availability in Cloud Services

*AEA Workshop, February 19,
2016*

Yury Magalif, Practice Manager – End-User
Computing & Microsoft

The costs of managing PCs

**For every \$1
spent on
hardware,
companies
spend \$3 to
manage**



CAPEX

OPEX

Source: IDC Study 2009

Increasing IT costs

Data Portability with Windows Apps

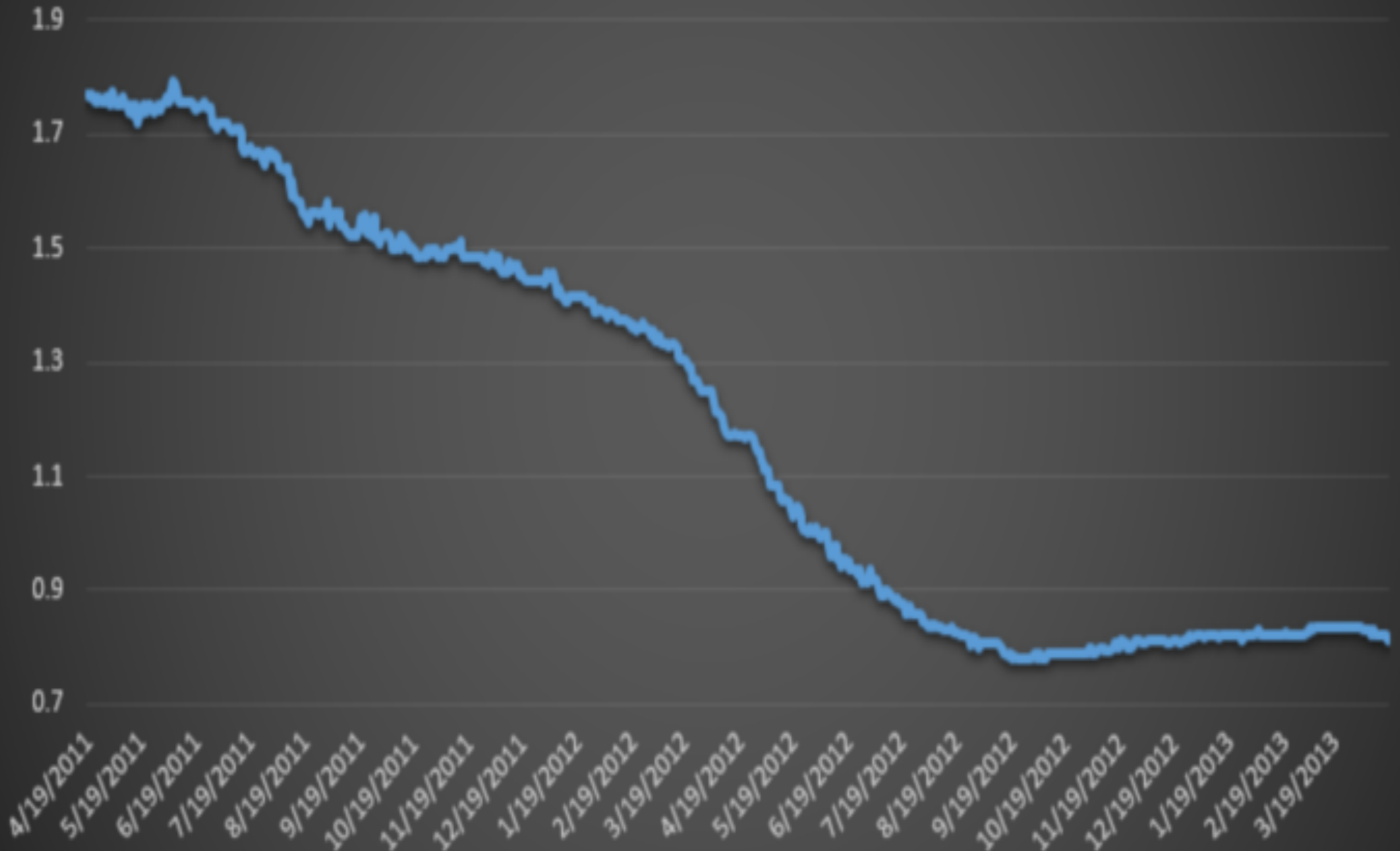
- Virtualization is the base technology of cloud
- Most servers are virtualized at this point
- What else to Virtualize to reduce costs?
 - Virtual Desktop Infrastructure (VDI) – private cloud (yout on premises infrastructure)
 - VDI as a Service (VDIaaS) – boutique cloud like CDI
 - Desktop as a Service (DaaS) – public cloud of Amazon and VMware

SSD Prices falling, provide plentiful I/O (\$)

DYNAMITE DATA

SSD Price Per GB

2013 (c) Dynamite Data LLC



Using Google Earth with VDI & GPU



Traditional VDI



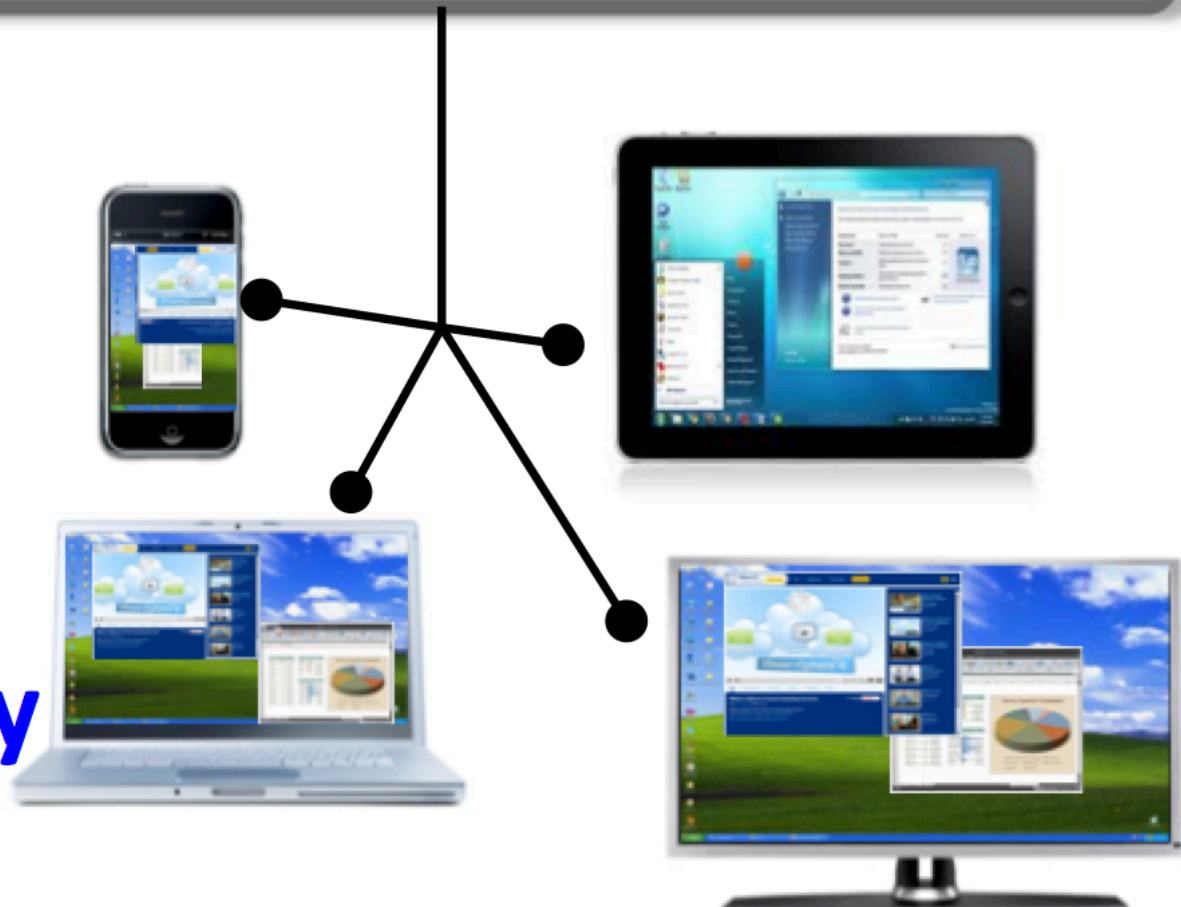
**NVIDIA GRID™
GPU-accelerated VDI**

What is a Virtual Desktop?

Desktop's Brain And Memory (in Data Center)



**Desktop Face Only
(on any device)**



What devices can you use to access your Virtual Desktop?

Desktop PC/Laptop



**Windows, Mac OS or
Repurposed PCs**

Thin Client/Zero Client



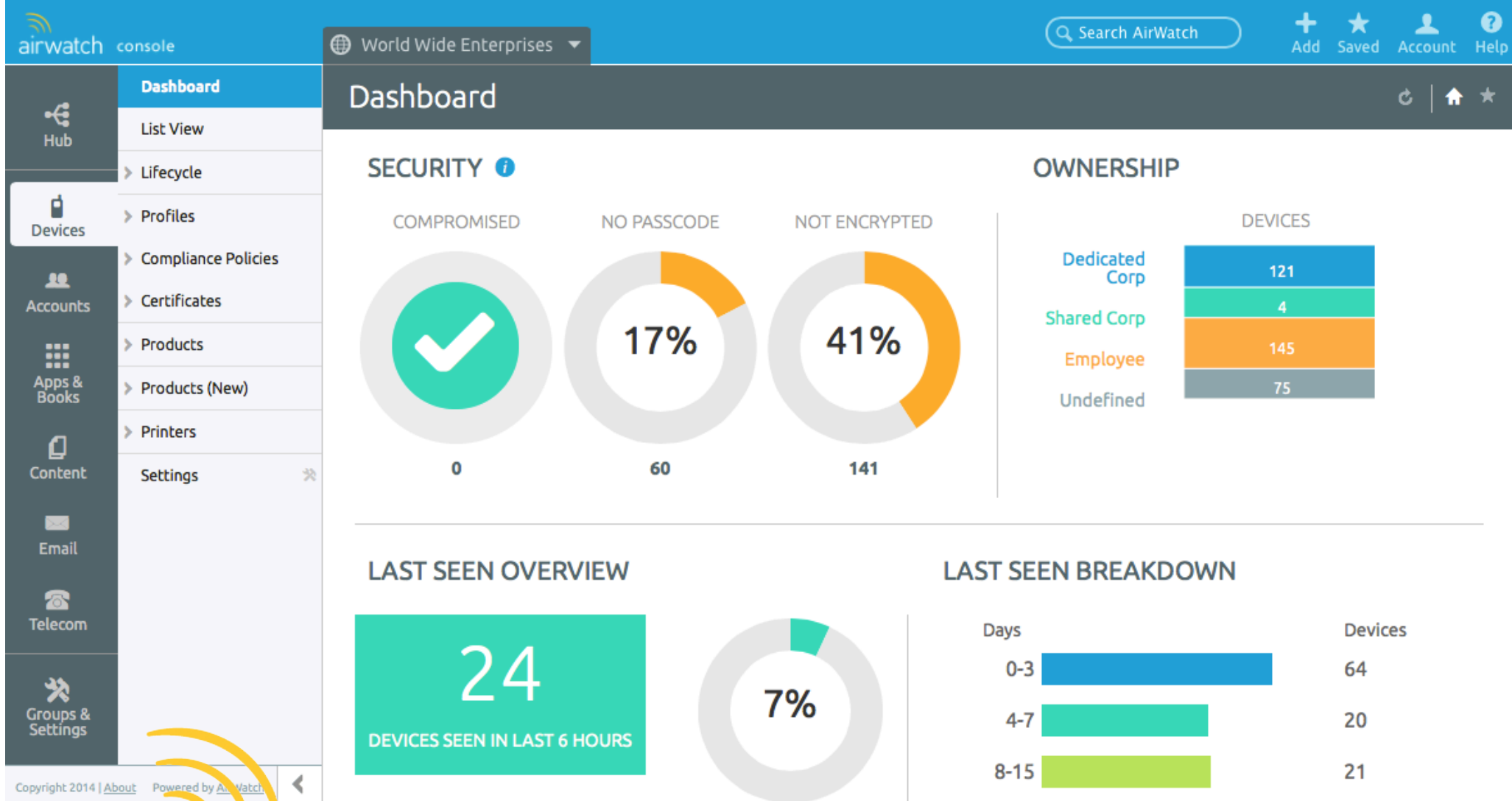
**10zig zero client,
10Zig All-in-one Monitor**

Mobile Devices



iPad/Android/iPhone

Mobile Device Management (MDM)



airwatch™

mobile device management

How to Fix a Computer

Physical computer:

PC at the Org is broken due to viruses. Tech tries to fix, then loads a CD to install OS & apps.

3 hours per PC



VMware View Virtual Desktop:

Technician tells the user to shut down and turn back on.

5 minutes per PC



Refresh/Imaging

Physical computer:

PCs are rebuilt with a fresh copy of the OS image & apps. Tech installs new image & enters info

1 hour per PC



VMware View Virtual Desktop:

No need to refresh. User's Virtual Desktops are always refreshed upon logging out

10 minutes per 100s of PCs



Data Security: Lost or Stolen Laptop

Old way:

1 Laptop missing. Laptop has 900 Social Sec. numbers. Org has to notify employees, audit data, provide identity theft monitoring.

Days to weeks per laptop



VMware View Virtual Desktop Way:

1 Mobile Thin Client missing. Thin client does NOT have a hard drive. Tech replaces hardware. All data is safe in the data center.

30 min per mobile thin client



Data Availability - Flood, Sandy, fire - disasters

Physical computer:

Building access and thus desktops are not available in disaster areas.

1 day to 1 week

VMware View Virtual Desktop:

Organization can run from a different building, even using mobile devices.

2 hours



Who is Computer Design & Integration?



Information
Technology &
Telecommunications



COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK



Be well



Memorial Sloan Kettering
Cancer Center™



CDI Cloud & Managed Services

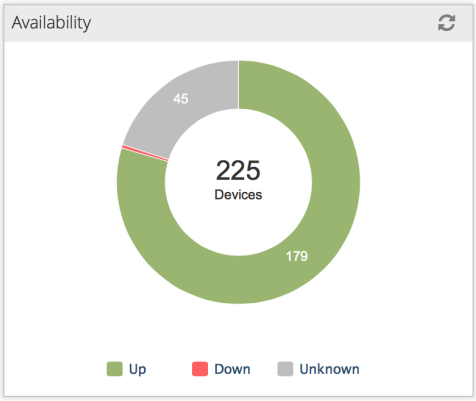
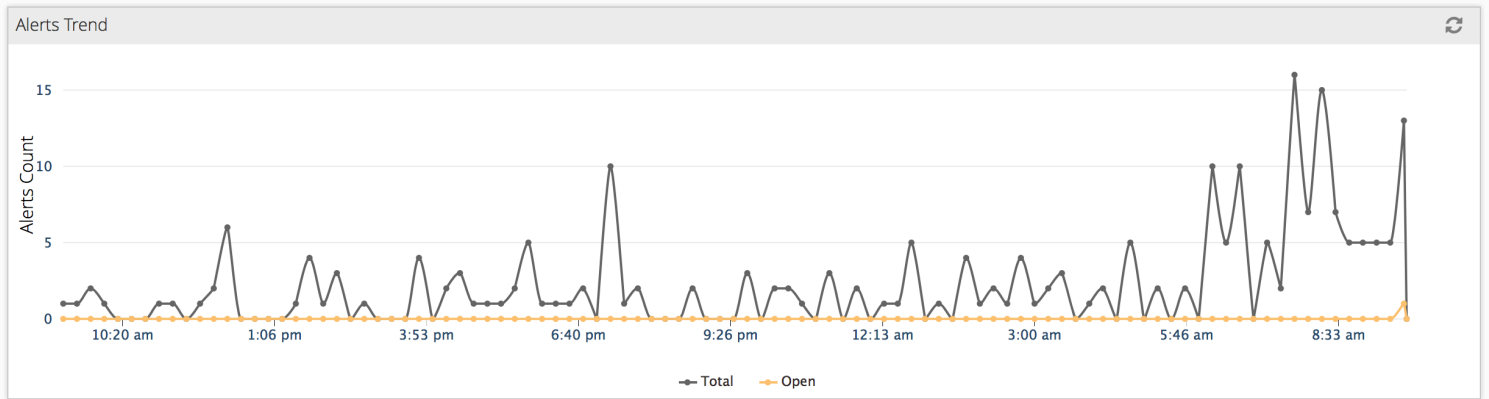
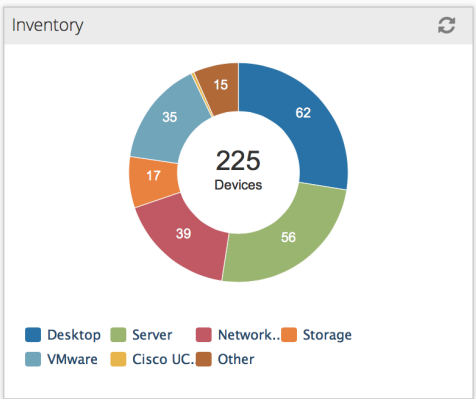
https://mspncsupport.com/dashboard.do?action=loadDashboard - Vistara - IT Operations Platform



Dashboard Infrastructure Maintenance Alerts Service Desk Reports Setup

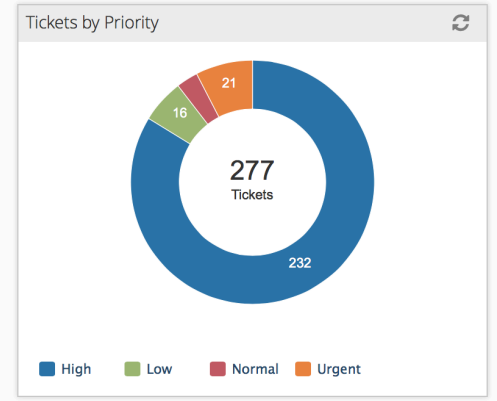
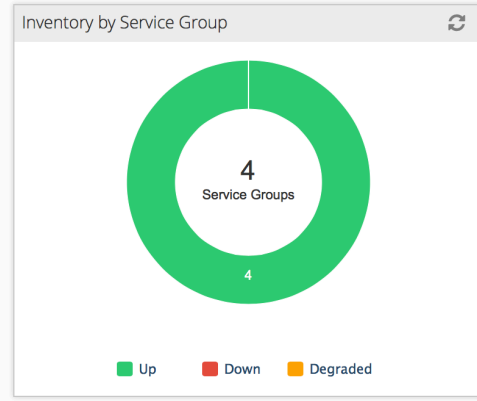
Vic Falconeri

CDI Managed Services Dashboard Customize Dashboard



Inventory by OS

OS Name	Device Count
Cisco UCS Firmware	1
Flare	4
FortiOS	7
IOS	19
IOS 12.4	1
IOS 12.X	1
Linux	9
Linux 2.6.X	5
Microsoft Windows (VMware vCenter)	1
Microsoft Windows 7	1
Microsoft Windows 7 Service Pack 1	56
Microsoft Windows 7 Professional Service Pack 1	3



Thank you! Questions?

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