

# Learning Spaces & Technology

The iBorrow Project Conference

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## Client - Server

Geoff Kimmons

User Technology Development



JISC

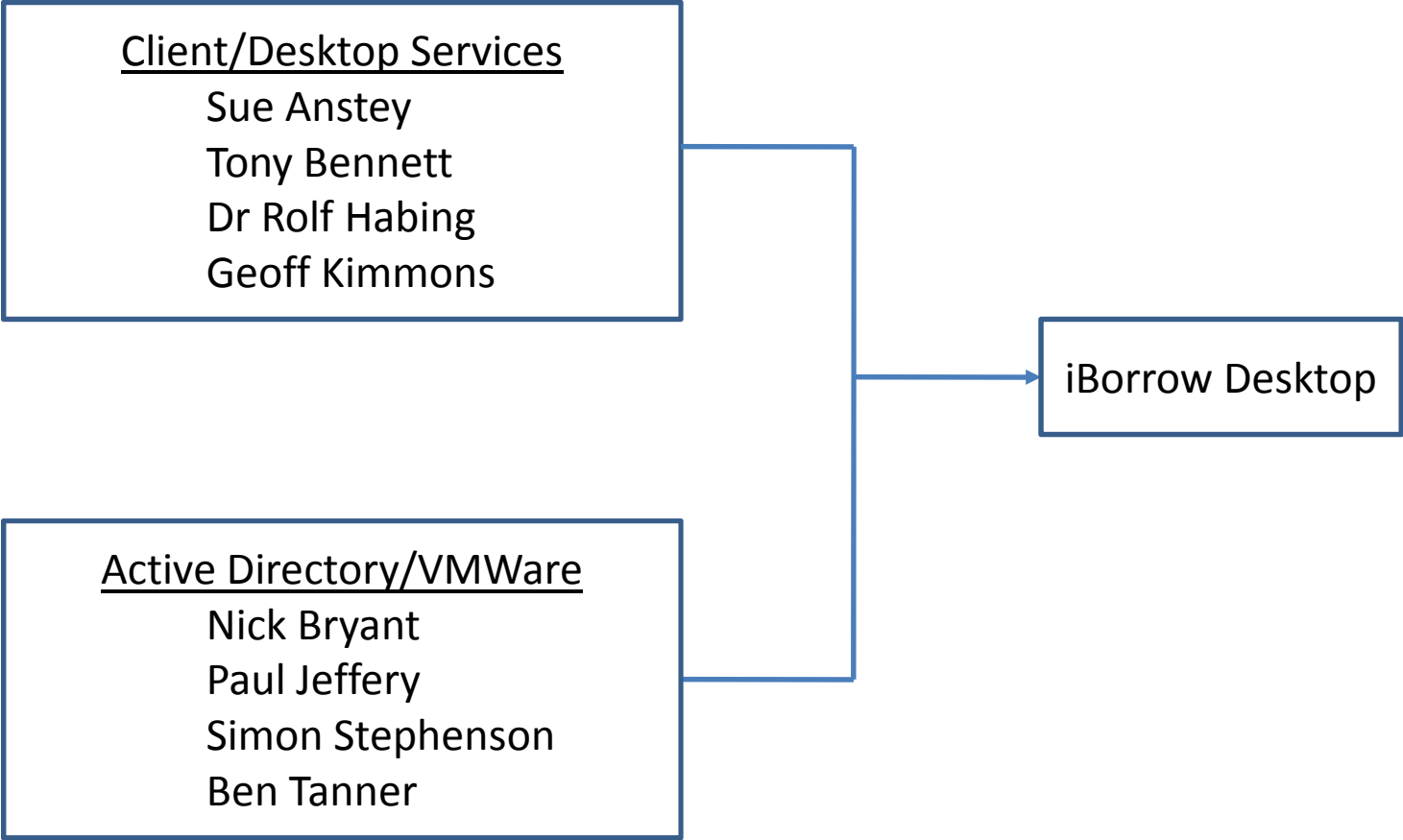
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# Desktop Development:



# Client: Zero Touch Maintenance



What do we mean and why:

- Client OS is very lean (no IE and limited networking) its purpose is to provide RDP
- There is no client maintenance regarding Microsoft or Virus updates
- The terminal server does all the desktop delivery
- Why? How do you maintain a netbook through wireless with the lid closed at maintenance hours – answer you minimize the risk by not bothering

# Server connection



## Protocols RDP and WiFi

- XP sp3 gives RDP 6.1 – allows USB redirection, does not allow the camera output to be redirected
- RDP 7 via Windows 7 should give more functionality, with Server 2008 R2 it will provide AERO performance
- WiFi enabled through PKI auto-enrollment using 802.11g and RADIUS

“Securing Wireless LANs with Certificate Services Planning Guide”

<http://technet.microsoft.com/en-us/library/cc527055.aspx>

# Remote Desktop Services



## Hardware Virtualisation

- RDS servers are virtualised using VMWare vSphere 4. Prior to vSphere 4 this service struggled.
- However, demands on the technology for a complete desktop are high
- Large investment in Blade / SAN infrastructure

# Remote Desktop Services



## Software Virtualisation

- RDS provides a desktop interface with no software
- Applications are provided through App-V
- Need a special RDS CAL through Software Assurance (this now covers App-V)
- App-V servers also virtualised, these have worked well.

# Conclusion



Feedback from students:

- Clients can be too slow. RDS provides no guarantee of service - for that use VDI (expensive)
- Clients' footprint too small – balance between cost, battery life and portability
- Battery life too short – you can now buy 12 cell batteries

But they are used ....