



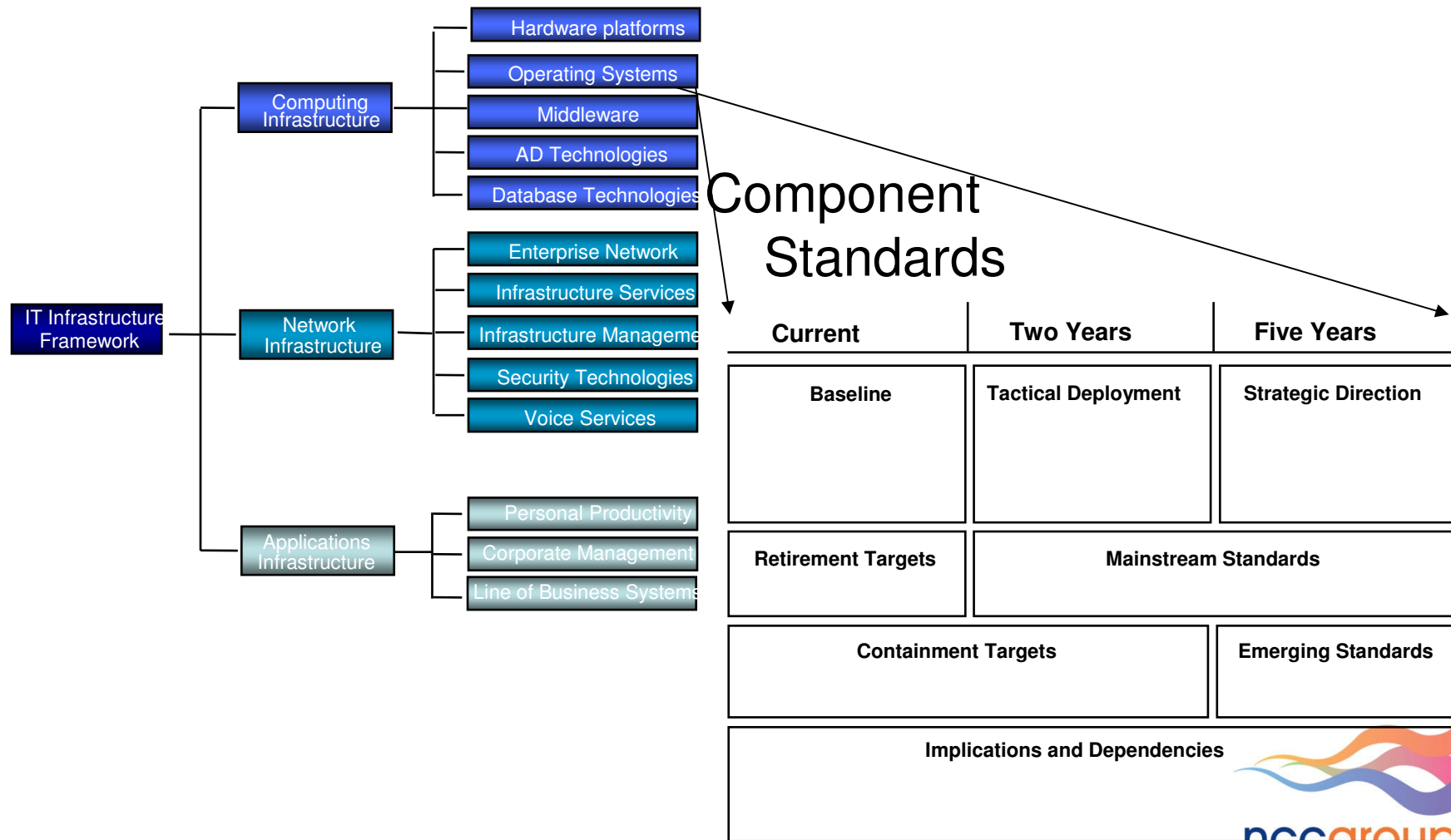
South Oxfordshire DC Vale of White Horse DC

Technical Architecture Strategy

Introduction

- This technical architecture strategy (TAS) is used to help the Councils to manage their ICT infrastructure as a portfolio where individual components can be monitored over time and their retirement planned
- The TAS document should be reviewed every six months and updated as necessary
- Particular attention should be given to:
 - Determining if components targeted for tactical deployment within the next two years are being funded and acquired
 - Checking progress with components categorised as 'contain' or 'retire' to ensure that the actions necessary for these to be removed are taken

Enterprise architecture planning



Architecture model definitions

Each architecture component is composed of a set of specific elements. Each technology (and process element where appropriate) element is discussed based on industry status and outlook. The status is based on availability of standards (e.g., formal or de facto, vendors and products—both emerging and currently deployed).

Current	Two Years	Five Years
Baseline	Tactical Deployment	Strategic Direction
Retirement Targets	Mainstream Standards	
Containment Targets		Emerging Standards
Implications and Dependencies		

Baseline: The current technology or process element(s) in use by Southandvale.

Tactical: Technologies that Southandvale may use in the near term, tactical time frame, now to two years. Currently available products needed to meet existing business needs are identified here.

Strategic: Technologies that Southandvale envisions using in the future that provide strategic advantage. Usually anticipated marketplace products are identified here.

Retirement: Technology and/or process elements targeted for removal during the architecture planning horizon.

Containment: Technology and/or process elements targeted for limited (maintenance or current commitment) investment during the architecture planning horizon.

Mainstream: Technology and/or process elements targeted as the primary deployment/investment option for new systems or legacy system migration over the architecture planning horizon.

Emerging: Technology and/or process elements to be evaluated for future integration into the target architecture

Computing Infrastructure – Hardware Server

Current	2 Years	5 Years
<p>Baseline Environment</p> <p>South: HP, Dell, Sun</p> <p>Vale: Dell</p>	<p>Tactical Deployment</p> <p>South: Greater use of virtualisation (VMWare)</p> <p>Vale: Build on virtualisation pilot</p>	<p>Strategic Direction</p> <p>Need to see how cloud hosting develops over the next two years (to 2012) and then define server strategy</p>
<p>Retirement</p> <p>All out of support servers</p>	<p>Mainstream</p> <p>Keep to limited main Hardware suppliers – Tier 1</p>	
<p>Containment</p> <p>Reduce growth of Novell servers</p>		<p>Emerging</p> <p>More blade style servers, further consolidation on HW suppliers Possible. Cloud hosting.</p>
<p>Implications and Dependencies</p> <p>Not all applications suitable for virtualisation at present</p>		

Computing Infrastructure – Desktops

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Dell desktops South: Dell laptops South: Wyse terminals South: Panasonic rugged South: Blackberry</p> <p>Vale: Dell desktops Vale: Dell laptops Vale: Wyse terminals Vale: Sun ray (pilot)</p>	<p>Tactical Deployment</p> <p>South: Greater use of Citrix</p> <p>Vale: Greater use of Citrix</p>	<p>Strategic Direction</p> <p>Virtualised desktops wherever possible</p>
<p>Retirement Non standard /obsolete HW</p>	<p>Mainstream Major suppliers – keep to Tier-1 for ongoing support</p>	
<p>Containment Non standard builds – move to standard images</p>		<p>Emerging: Virtualised desktops</p>
<p>Implications and Dependencies Not all applications can be delivered via thin client</p>		

Computing Infrastructure – Storage

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: EMC Clariion SAN Fibre channel for Oracle databases South NetVault</p> <p>Vale: Directly attached storage (no SAN) Vale: CommVault:</p>	<p>Tactical Deployment</p> <p>South: Storage virtualisation</p> <p>Vale: Currently procuring SAN</p>	<p>Strategic Direction</p> <p>Solid state storage In-built replication</p>
<p>Retirement Directly attached storage</p>	<p>Mainstream Major suppliers – keep to Tier-1 for ongoing support</p>	
<p>Containment NetVault</p>		<p>Emerging: Solid state enterprise class</p>
<p>Implications and Dependencies Needs strong linkage to server strategy, virtualised desktops will need more capacity</p>		

Computing Infrastructure – Desktop operating systems

Current	2 Years	5 Years
Baseline Environment: South: Windows XP Many standard images Vale: Windows XP Many standard images	Tactical Deployment Windows 7 Move to standard images Desktop lockdown	Strategic Direction Move to browser based applications
Retirement Windows XP	Mainstream Major suppliers – keep to Tier-1 for ongoing support	
Containment		Emerging: Virtualised desktops
Implications and Dependencies Need to confirm driver availability before migrating from XP		

Computing Infrastructure – Server operating systems

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Netware South: SUSE Linux South: Windows 2003 South: Solaris 9 South: Red Hat Linux</p> <p>Vale: Windows 2000 Vale: Windows 2003</p>	<p>Tactical Deployment</p> <p>Windows 2008 Solaris Linux for appliances 64 bit</p>	<p>Strategic Direction</p> <p>Depends on what happens to cloud hosting over next two years (to 2012)</p>
<p>Retirement Windows 2000</p>	<p>Mainstream Windows 2008, Solaris</p>	
<p>Containment Windows 2003</p>		<p>Emerging: Cloud hosting</p>
<p>Implications and Dependencies</p>		

Computing Infrastructure – Applications development environment

Current	2 Years	5 Years
Baseline Environment: South: Oracle 2000 South: Java South: eBase forms South: ESRI GIS tools Vale: negligible development	Tactical Deployment Minimise development activities .NET	Strategic Direction SOA
Retirement VB6 ASP.NET	Mainstream Oracle, Java, .NET	
Containment		Emerging: SOA
Implications and Dependencies		

Computing Infrastructure – DBMS

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Oracle South: SQL 2005 South: Access</p> <p>Vale: SQL 2000 Vale: SQL 2005 Vale: Oracle Vale: Access</p>	<p>Tactical Deployment</p> <p>SQL 2008 Oracle</p>	<p>Strategic Direction</p> <p>Depends on what happens to cloud hosting over next two years (to 2012)</p>
<p>Retirement SQL 2000</p>	<p>Mainstream Oracle, SQL 2008</p>	
<p>Containment SQL 2005, Access</p>		<p>Emerging: DBMS as a service</p>
<p>Implications and Dependencies</p>		

Network Infrastructure – Enterprise

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Cat5E South: Fibre backbone South: IP South: Extreme</p> <p>Vale: Cat5E Vale: Fibre backbone Vale: Cisco Vale: IP</p>	<p>Tactical Deployment</p> <p>Cat 6 Wireless MPLS for WAN</p>	<p>Strategic Direction</p> <p>Wireless Unified communications</p>
<p>Retirement Cat5E</p>	<p>Mainstream Wireless, Cat6</p>	
<p>Containment Netware</p>		<p>Emerging: FC over ethernet</p>
<p>Implications and Dependencies</p>		

Network Infrastructure – Infrastructure management

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Novell Zen Configuration Mgr South: RMS Service South: ITIL v2</p> <p>Vale: IP Monitor Vale: Heat 7 Vale: Dell server manager Vale: AS S/W distribution Vale: GFI LanGuard Vale: GFI EventManager</p>	<p>Tactical Deployment</p> <p>SMS ITIL v3</p>	<p>Strategic Direction</p> <p>Need to see how cloud hosting develops over the next two years (to 2012) and then define server strategy</p>
<p>Retirement</p>	<p>Mainstream ITILv2, Zen</p>	
<p>Containment All current IM tools</p>		<p>Emerging: Cloud hosting</p>
<p>Implications and Dependencies</p>		

Network Infrastructure – Security and AV

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Sophos South: Kaspersky (edge) South: Websense South: Juniper SSG5 South: BorderManager South: Sophos encryption</p> <p>Vale: Sophos Vale: CISP/Kaspersky Vale: PGP Vale: TrueCrypt</p>	<p>Tactical Deployment</p> <p>Sophos BorderManager</p>	<p>Strategic Direction</p> <p>Need to see how cloud hosting develops over the next two years (to 2012) and then define security strategy</p>
<p>Retirement</p>	<p>Mainstream ITILv2, Zen</p>	
<p>Containment All current AV</p>		<p>Emerging: Biometrics</p>
<p>Implications and Dependencies</p>		

Network Infrastructure – Voice

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Mitel 3300 South: Teleworker South: Mobile (Vodafone)</p> <p>Vale: Mitel 3300 Vale: Mitel call centre Vale: Some analogue Vale: Teleworker Vale: Mobile (Vodafone)</p>	<p>Tactical Deployment</p> <p>Call centre (need CS strategy)</p>	<p>Strategic Direction</p> <p>Unified communications Videophony</p>
<p>Retirement Analogue</p>	<p>Mainstream</p>	
<p>Containment Mitel 3300</p>		<p>Emerging: Unified communications</p>
<p>Implications and Dependencies</p>		

OIS Infrastructure – Personal productivity

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Office XP South: Office 2003 South: Open Project South: Office 2007 viewer</p> <p>Vale: Office XP Vale: Office 2007 viewer</p>	<p>Tactical Deployment</p> <p>Office 2010</p>	<p>Strategic Direction</p> <p>Cloud-based applications</p>
<p>Retirement Office XP, Office 2000</p>	<p>Mainstream</p>	
<p>Containment</p>		<p>Emerging: Cloud PP apps</p>
<p>Implications and Dependencies Security impact of cloud based PP apps</p>		

OIS Infrastructure – Email

Current	2 Years	5 Years
Baseline Environment: South: GroupWise Vale: GroupWise	Tactical Deployment GroupWise	Strategic Direction Exchange/Outlook Hosted email
Retirement	Mainstream	
Containment GroupWise		Emerging: Cloud PP apps
Implications and Dependencies Security impact of cloud based PP apps		

OIS Infrastructure – Collaboration tools

Current	2 Years	5 Years
Baseline Environment: South: None Vale: None	Tactical Deployment OCS Sharepoint	Strategic Direction
Retirement	Mainstream	
Containment Teaming		Emerging: Unified commnuications toolsets
Implications and Dependencies		

OIS Infrastructure – Browser

Current	2 Years	5 Years
Baseline Environment: South: IE8 Vale: IE8	Tactical Deployment IE9 Firefox, Chrome, Safari for testing	Strategic Direction
Retirement	Mainstream	
Containment IE8		Emerging:
Implications and Dependencies Need to test public facing apps against Firefox, Chrome, Safari etc		

OIS Infrastructure – Enterprise content and document management

Current	2 Years	5 Years
<p>Baseline Environment:</p> <p>South: Anite (Capita) South: Aplaws South: Joomla</p> <p>Vale: Anite (Capita) Vale: IDOX Vale: Tridion</p>	<p>Tactical Deployment</p> <p>Sharepoint</p>	<p>Strategic Direction</p> <p>Need to see how cloud hosting develops over the next two years (to 2012) and then define server strategy</p>
<p>Retirement</p>	<p>Mainstream</p>	
<p>Containment IDOX, Anite</p>		<p>Emerging: SAAS content management</p>
<p>Implications and Dependencies</p>		