



NDS2AD Migration-Lessons Learnt

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Overview

- Project orientation
- AD vs NDS what's the difference? What are the issues?
- What worked?
- 100% rear vision
- What we didn't need to do?

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Griffith Novell Usage

- Deployed1996
- · Pre-centralisation of IT services
- Structure had many artefacts of the development of Griffith and NDS
- 12 TB i.e. 10TB Staff- 2TB Student NSS 25% of total available storage
- · IDM flat provisioning
- 5,000 workstations 2500 staff all types & student 2,500 XPSP2

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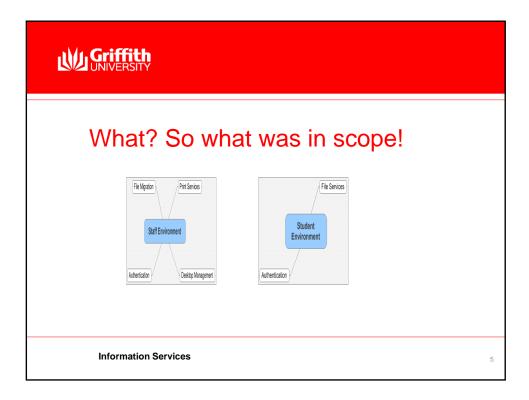
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Tree	# of user a/c's	No. of servers	EDir Version	Netware Version	No. of OUs	No of NDPS queues
GU	10,700	68	8.7.3.8	6.5 Service Pack 5-6	561	731
GUCUSE	45,000	14	8.7.3.8	6.5 Service Pack 5-6	58	119

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So what was out of scope

- Student cost recovery print services based on iPrint
- Migration of existing AD trees
- · Lab desktop management
- Auth-Tree LDAP migration

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Service / Function	NDS	AD
Directory Type	Multi Master partition- able replication, extensible, object- oriented, self describing schema, X500 compliant	Multi Master replication, extensible, object-oriented, self describing schema, non-X500 compliant
Container	Tree, Organisation, OU	Forest, Tree, Domain, OU
Object uniqueness	per container	per domain
Service Location	Service Location Protocol SLP	Dynamic DNS DDNS
Workstation Aggregation	Workgroup	Domain
Group Account	Single type	Local, Global, Universal & Domain Local
Computer accounts	Server only	All computers
Login Scripts	multiple per User	single per User
File Permissions	NDS based - stored in Directory	NTFS based -stored in file system
File Sharing	NDS Volumes	Distributed File System (DFS)
Security Inheritance	Dynamic	Static
Security Equivalents	OU, Role, User or Groups	Groups, User & Computers

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Overview of process

- The overview of the migration process is:

 Deploy a development environment representative of the proposed production environment and

 Develop and test a new SCCM based Staff SCE

 Develop and test a desktop migration process for existing ZEN managed staff desktops

 Develop and test the migration from NDS to AD of the NDS User objects and their associated files to AD using the QUEST Migrator.

 Audit the existing NDS production environment and complete any tasks, such as,

 Removal of duplicate accounts

 Resolution of non-'S' UIDs

 Identifications of OU acting as security equivalences

 Develop and test the IDM driver to:

 Provision User objects, default it: drive and quota to the staff and student AD environments

 Synchronise password changes from the meta-directory to the staff and student AD environments

 Populate the staff AD environment with all available enterprise groups

 Based on success in completing project Test Plans proceed

 In parallel with the above tasks employ a Change Manager to:

 Communicate with representatives of all University elements listed at http://www.griffith.edu.au/elements/ to establish:

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Issues/challenges:

- Data Migration
 Collaborative cross-shares and Visibility Lists NTFS emulation
- UIDs unique & uniform, current IDM provisioning, management by security group & list management
 Staff Desktop Migration

 1. Shared drive migration i.e. G:\ drive
- - OLE, macros etc. & hard coded drive path shortcuts etc. Multiple use workstations

 - Custom drive mappings, cross shares & multiple nested login scripts
- Non-equivalent services
- 1. Student iPrint & NetStorage
- Support of non-Wintel desktops

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What worked?

Process

- PRINCE2 & Change Management
- Dedicated Change Manager
- Phased deployment
- 'Like for Like' design principle
- Focus on cash receipt machines, kiosk

Scripts

- Login Script Analysis Tool-LSAT
- http://www.forensit.com/domainmigration.html
- Hotfix
- http://support.microsoft.com/kb/906866
- http://www.likewise.com/ OSX-Linux &
- Printer deployment -NDPS2dIP
- ROBOCopy, Xcalcs & ABE Visibility Lists

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What worked?

General

- ABE drive consolidation
- List Management
- Use of NetStorage for ad-hoc student migration
- IDM and duplicate users
- Develop your storage maps for business value
- Didata responsible for data migration
- MSI migration- start early or put it in the agreement5154
- Communicate, communicate, communicate, communicate & communicate etc.

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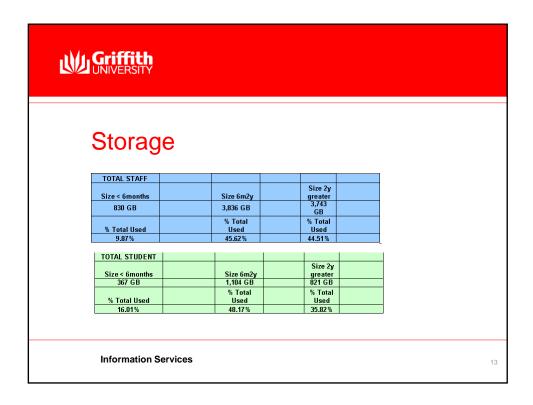
100% rear vision or what I'd change if I had to do it again.

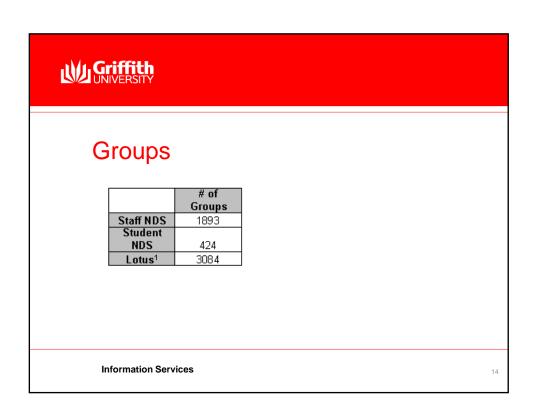
- QUEST NDS Reporter
- Storage HSM
- UID scrub
- OLE & Macros
- QUEST Migrator
 - 256 char file path
 - 8GB per hour average
 - Bungie Jump

- MoonWalker see
 http://www.moonwalkinc.c
 om/
- OSX & DFS AdmitMAC see http://www.thursby.com/p roducts/admitmac.html
- Dev = Prod

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What we didn't need to do.

- NetStorage-FileWay
- Printing queue vs direct-ip
- OSX & DFS

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