



Quest



Moving Into The Light

Enterprise One Upgrade from B7332 to 8.12

Quest

Australia & New Zealand Users Group



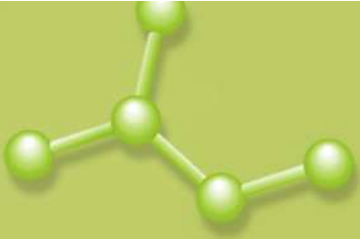
Partnership

This project was a partnership between



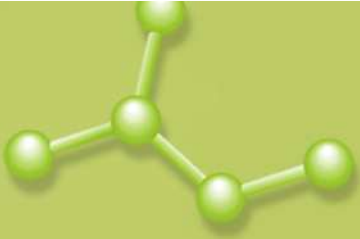
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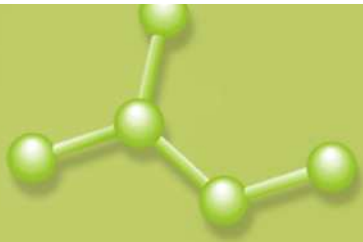
Agenda

- Introduction
- History of JDE at News Limited
- Objectives of Project
- Project Infrastructure
- Challenges of Project
 - Window of opportunity, data volumes, platform change
- Lessons Learnt (Technical and project management)
- Q&A



Introduction

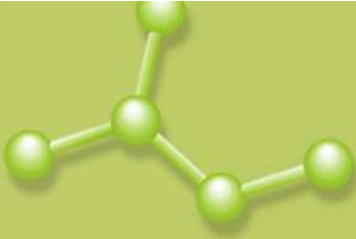
- Objectives, Challenges and Lessons Learnt from upgrading a JDE implementation from B7332 to 8.12
- Shannon Moir
 - Technical Lead/Architect – Fusion5 Consultant
 - 10+ years (Multiple sites around the world)
- Andrew Bloxsom
 - Project Manager
 - 7 years CNC (Fisher & Paykel & News Ltd)
 - 2 years PM (News Ltd)



History of JDE at News Limited

- JDE at News Limited since 1998
- Pre 2005 – 4 implementations

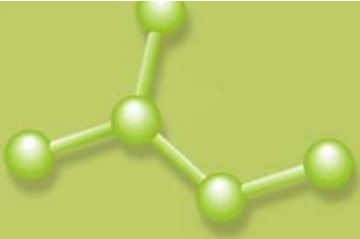
RELEASE	APP SERVER	DATABASE	CLIENT
B7331	Sun	Oracle	Thick
B7332	Windows	Oracle	Citrix
XE	Windows	Oracle	Thick
ERP8.0	Windows	Oracle	Web



History of JDE at News Limited

- 2005 to Mid 2007 – 3 implementations
 - Migrated B7331 to ERP8.0
 - Upgrade ERP8.0 to 8.12

RELEASE	APP SERVER	DATABASE	CLIENT
B7332	Windows	Oracle	Citrix
XE	Windows	Oracle	Thick
8.12	Windows	Oracle	Web

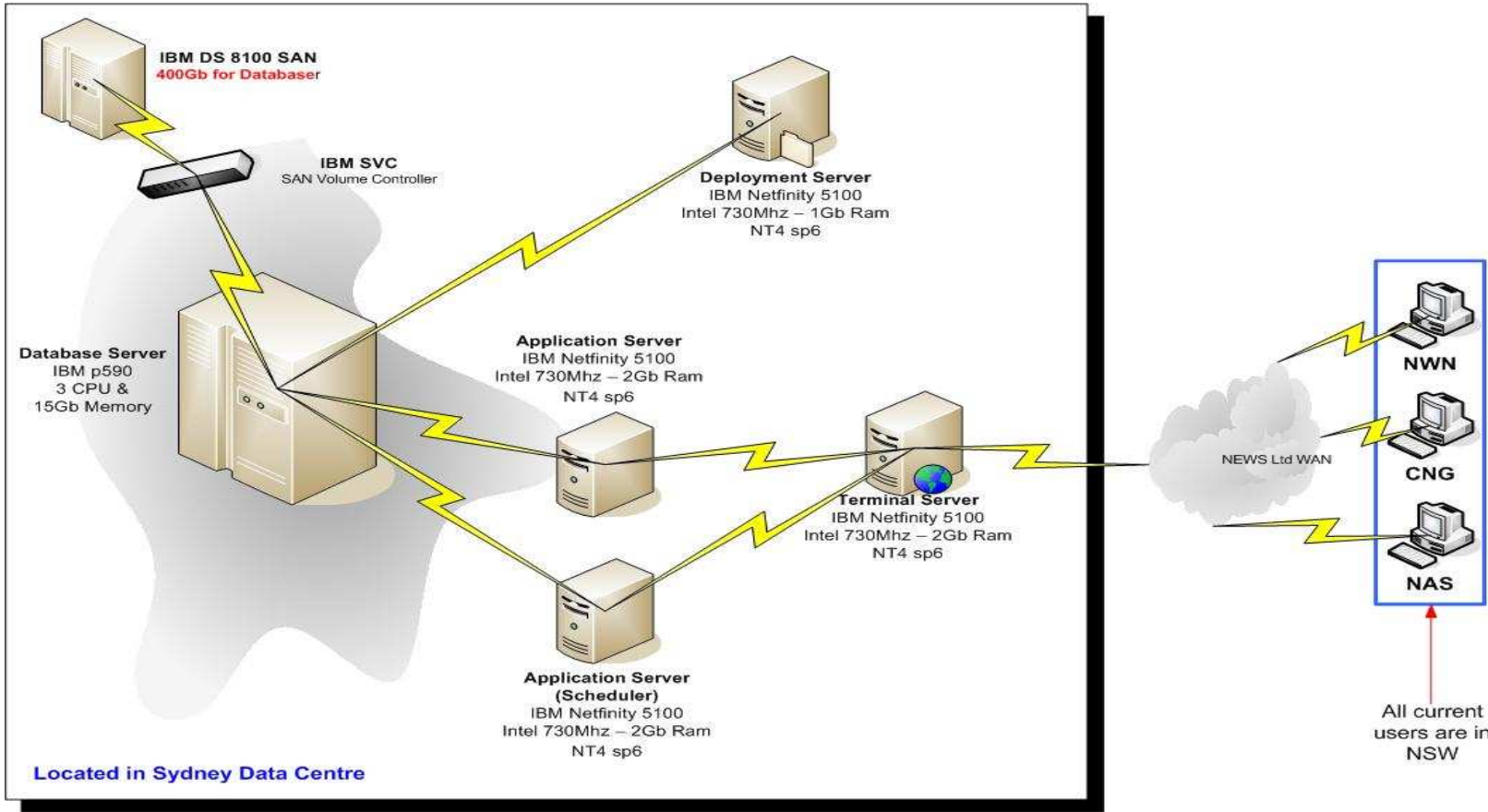


Objectives of Project

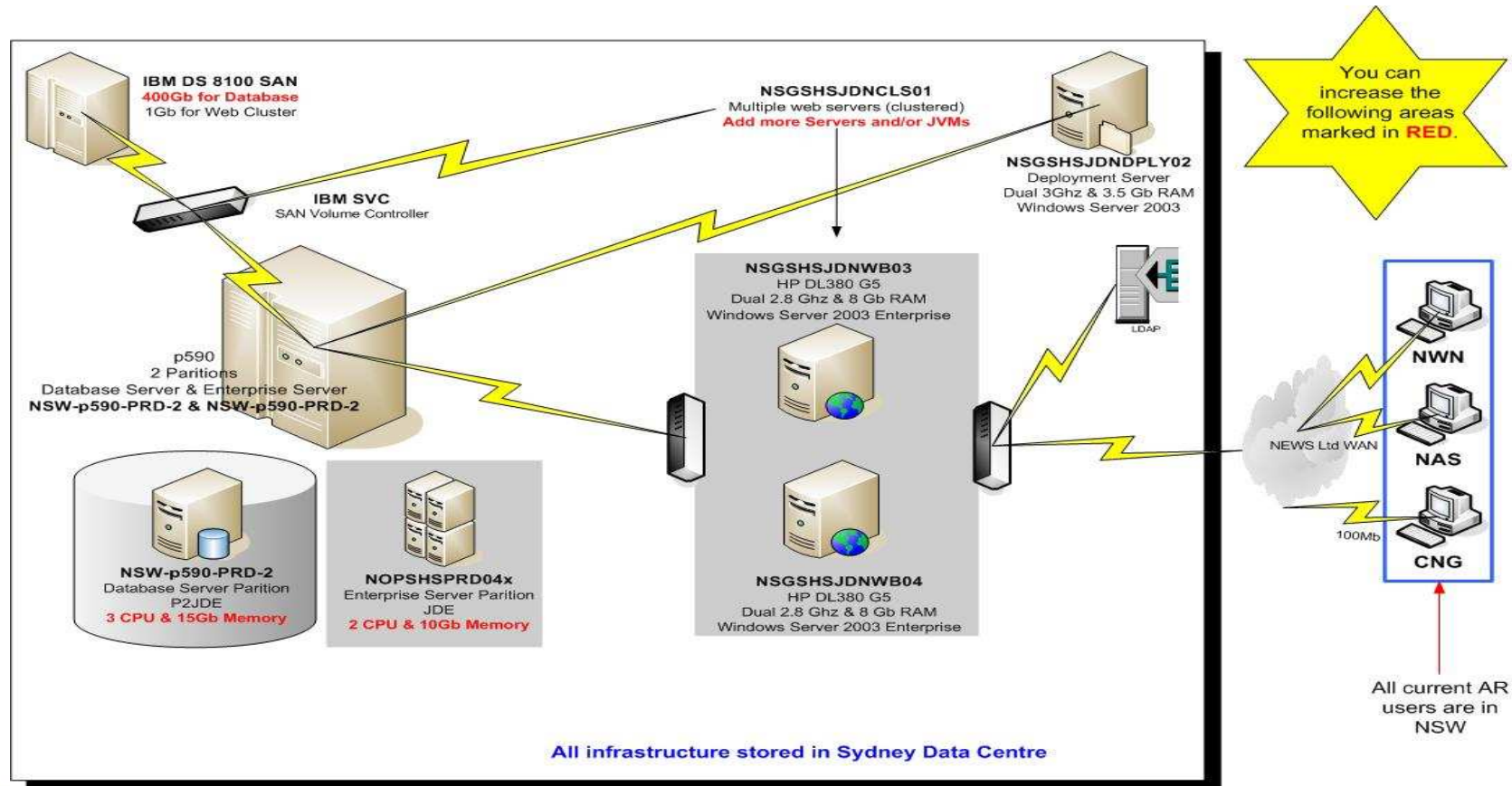
- Technology Upgrade Only
- Produce a system setup capable of replacing mainframe functionality at 14 additional divisions
 - Upgrade B7332 sp11 implementation to
 - Move from windows to unix
 - Move from citrix to web
 - Move from oracle 8.1.7 to 10g
 - Introduce Password Synchronisation with
 - Move from the dark ages into the light!



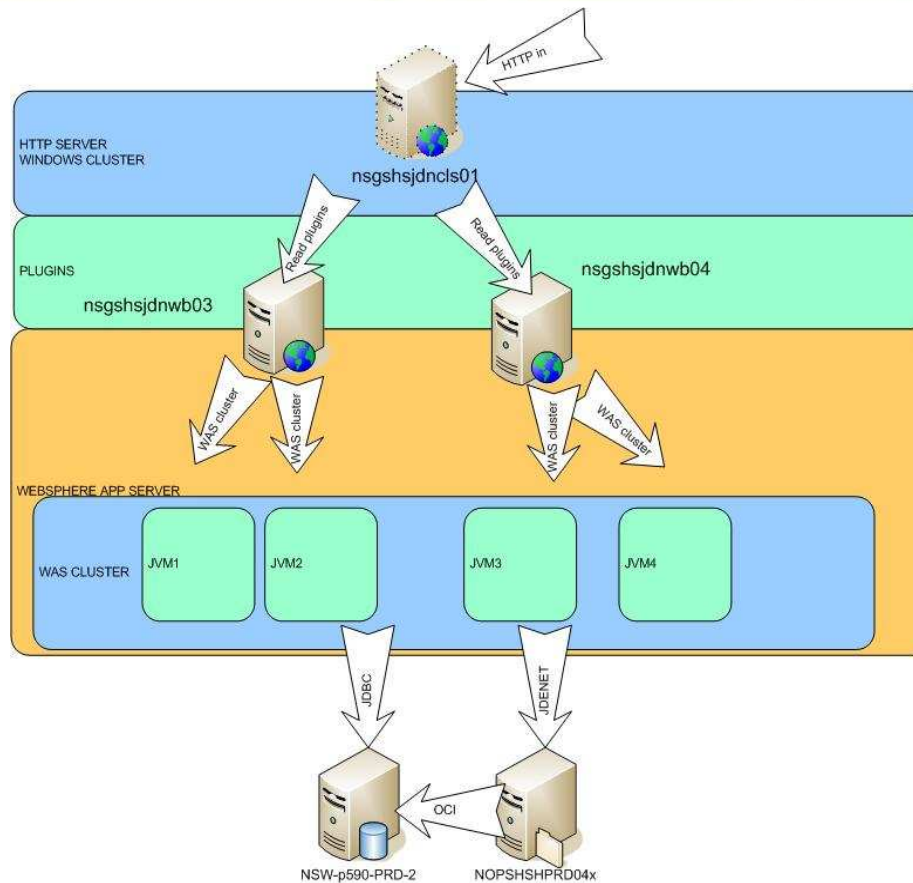
Project Infrastructure (before)

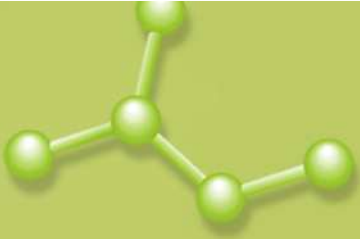


Project Infrastructure (after)



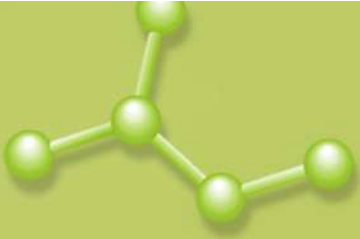
Web Design (High Availability)





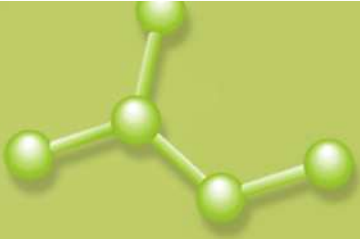
Challenges of Project

- Window of opportunity
- Volume of data
- Performance Improvements
- Windows to Unix
- Citrix to Web
- Retrofitting modifications



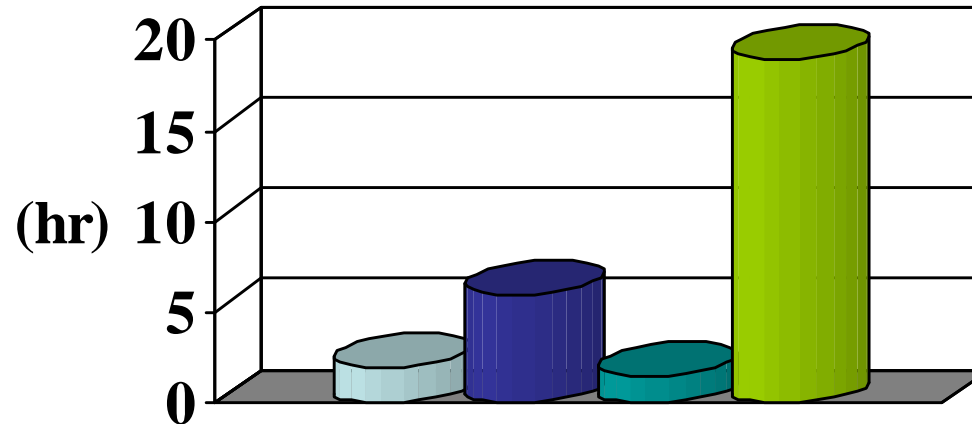
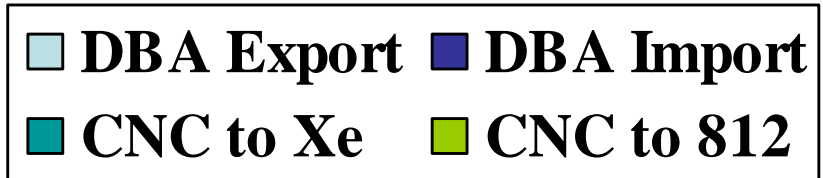
Window of Opportunity

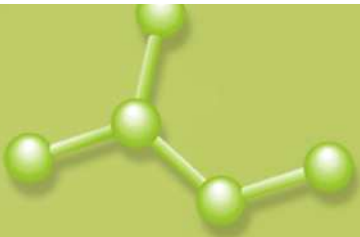
- **Had to happen in a single weekend**
- Business would shutdown for one day
- Had to be completed by midnight Saturday so all interface data could be loaded
- Huge tables (F0911, F03B11)
- Index generation (left untouched) for F0911 was 24 hours!
- Out of the box, it would have been > 70+ hours



Window of Opportunity

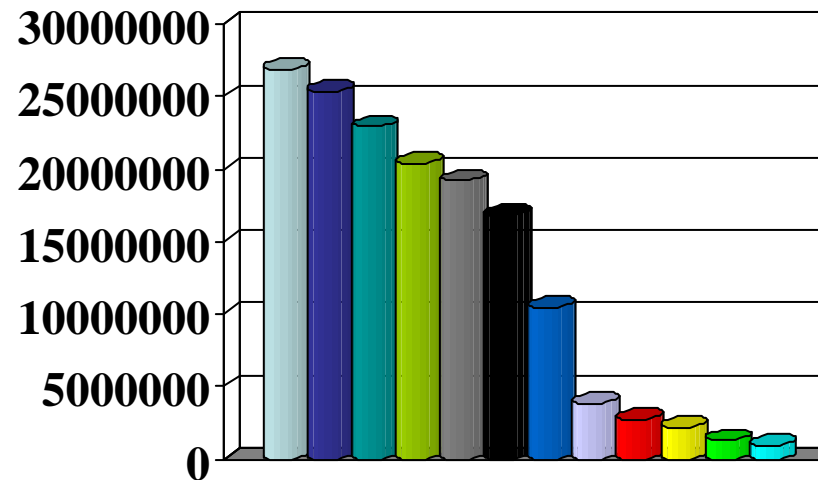
Stages and durations for cutover



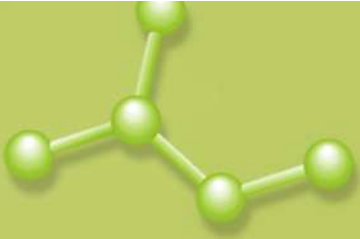


Volume of Data

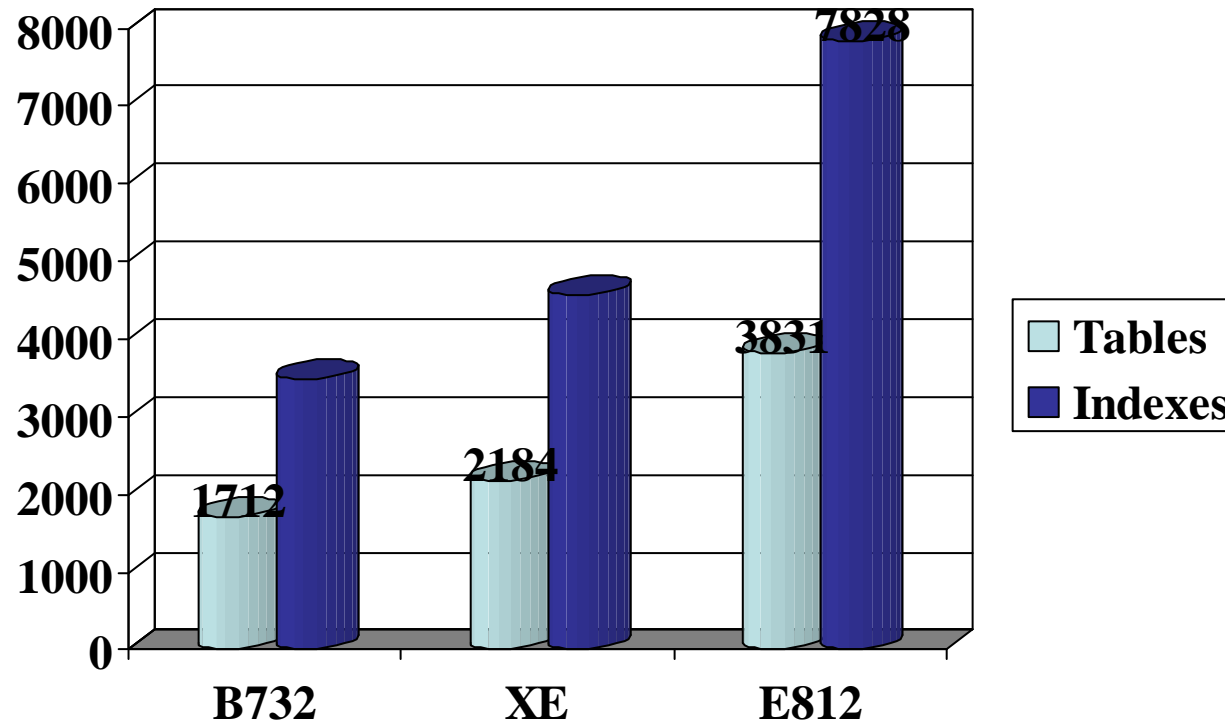
Row Counts

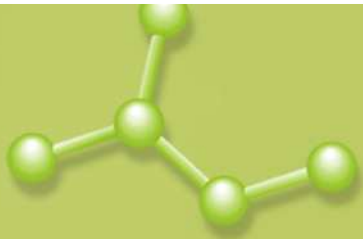


- F0911
- F03B31
- F0018
- F03B11
- F5503B11
- F03B14
- F01131M
- F55COLD
- F03B21
- F03B13
- F00165
- F0115



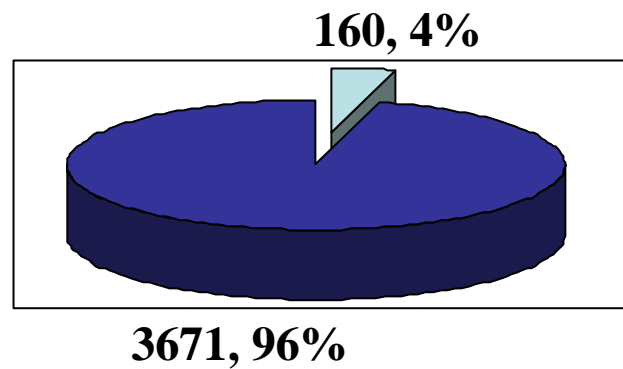
Numbers of Objects

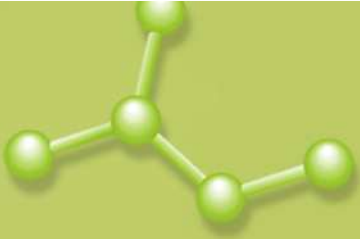




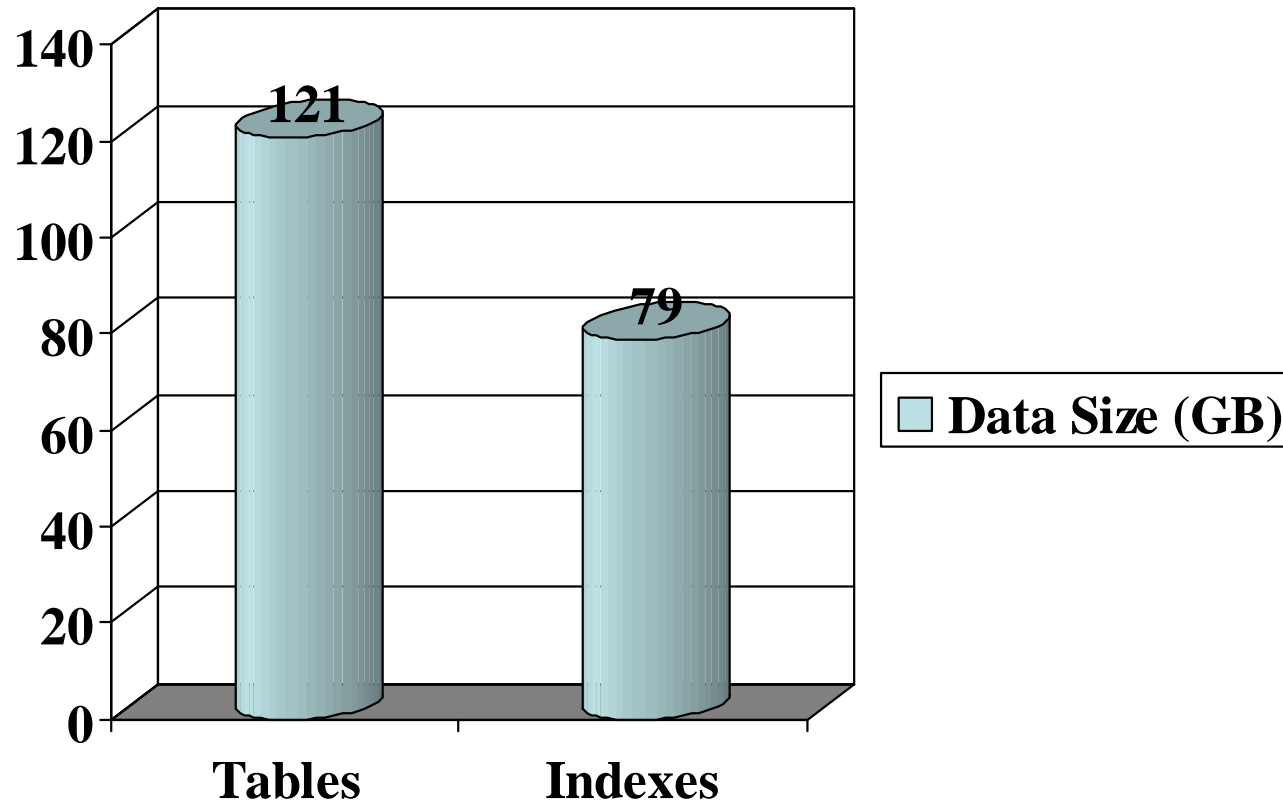
Functional Spread of data

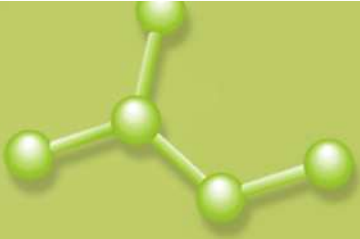
Functional Spread of Data



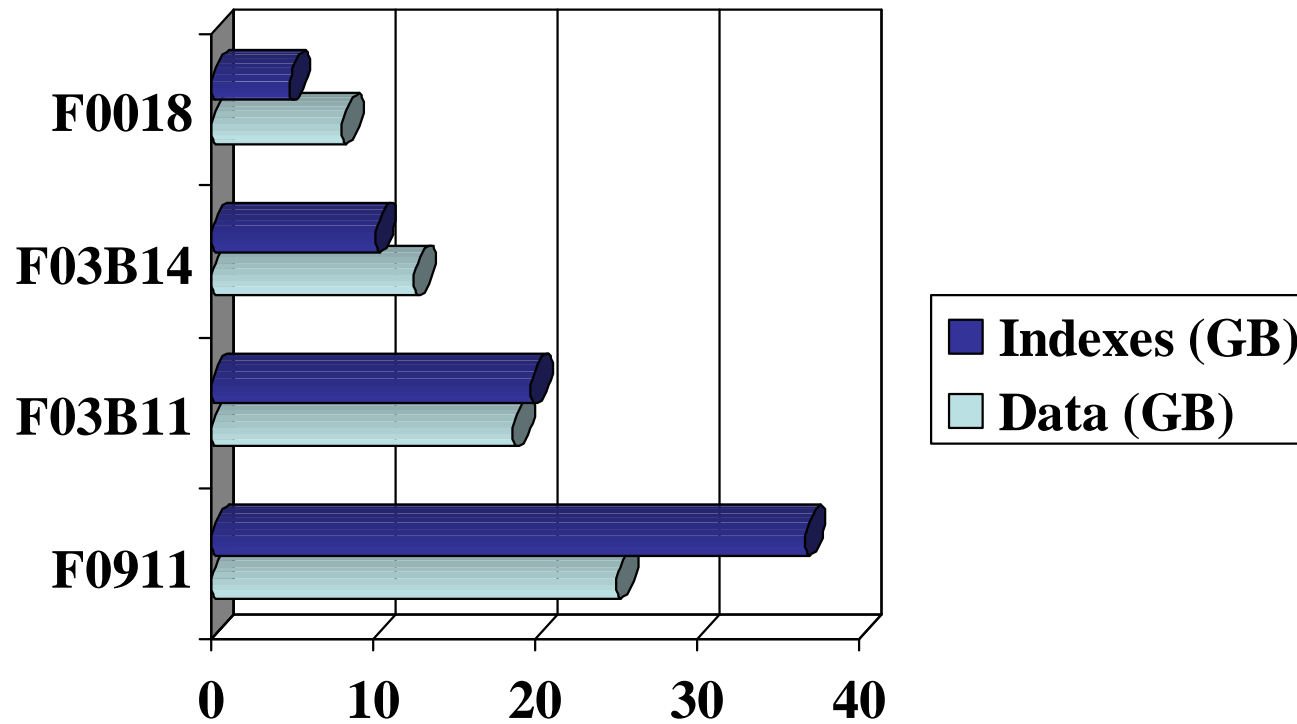


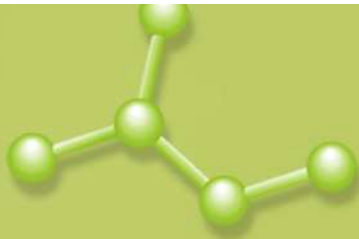
Size of Database





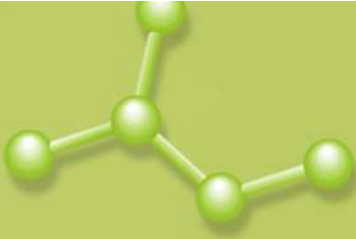
Size of Tables





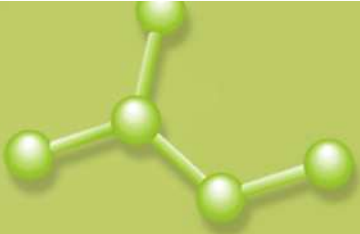
Performance Improvements

- Changes made:
 - Stop automatic indexing for B732->Xe (save 1 hour)
 - Turn F03B11 conversion into SQL statements (save 21 hours)
 - Terminate index generation for 812 upgrade for some tables and generate manually (save 7 hours)
 - If F0911 left it alone, this would have taken 2.5 times longer!
 - Don't run table conversions that are not used (save > 20 hours)
 - DBA's changed file system properties for index and redo
 - Imports were done in parallel
 - Unix admin allocated more CPU in the p590 environment
 - Index generation was left in tact for the import



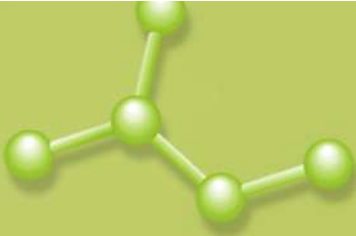
Windows to Unix

- Found BSFN's running locally
- People loading data from unc shares for TC's
- Proprietary code for bank interface written with windows socket API's, needed to be re-written in ansi sockets for unix
- Interoperability was the main issue with windows to unix
 - Line feeds & carriage returns
 - SAMBA
 - Files names and locations
- People finding their PDF files was more of a challenge
- Table conversion (paths to files!)



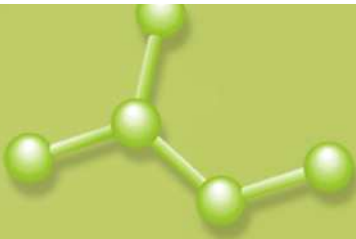
Citrix to Web

- Speed
- Standard PC builds
 - Adobe, activeX controls, internet explorer
- Local Admin rights
 - SMS package
- Hot keys
- PDF files
- What you are used to
- Better at the end of the day



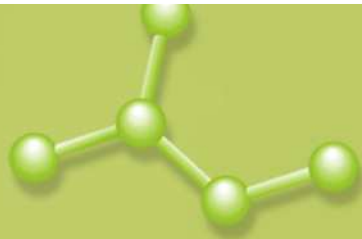
Retrofitting Modifications

- Identify the Mods (fairly simple in new objects)
- Before upgrade copy any standard objects with mods to a new name for comparison in 812
- Bespoke Code
 - **Big Question:** Rekey mods into 812'd objects? Get B732 code working?
 - What's changed more? How much time do you have?
 - Any mods with F0301 – needed to be re-done



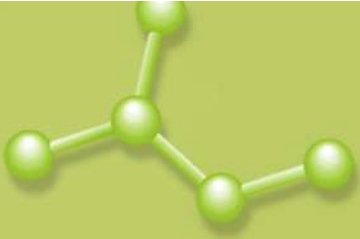
Lessons Learnt

- Careful with indexes, some are needed during the conversions
- Get your temp tablespaces right (needs to be HUGE)
- Allow jde to own everything (i.e. DBA)
- Make sure you don't have row security
- Introduced SAMBA on AIX to help interfaces using UNC for TC's
- Get your activeX controls installed
- Check Adobe is working
- External interfaces, database triggers etc
- Username and password LDAP limitations



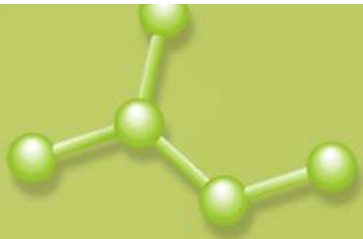
Lessons Learnt

- If we ran the process end to end, it would not have worked. (> 70 hours)
- Security – going from inclusive to exclusive
- PC admin rights



From a project management perspective

- Complete first round of testing (unit and end to end) early
 - Find data problems
 - Find code issues
- Get the little things right, sometimes they are the most important
 - User overrides
 - Favourites
- Interfaces – tests documentation and knowledge of all of them
- Dedicated project team members
 - Strong Steering Committee



Q&A

- Any Questions?



THE END

