IBM i workload migration and moving data between platforms

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What is migration really?

- Hardware Upgrades - P6 -> P7, P7-> P8
- P->V, V->P, etc.
- OS Version
- Server Consolidation
- Server Relocation
- Data Center Move (and to/from Hosting)
- SAN Migration (to/from or vendor)
- Ground to Cloud
- Cloud to Cloud
- Database Vendor
- Database Version
- OS Vendor
- Application Version
- Reorg While Active
Migration Goals

Goals Rarely Change

- Migration with the least possible downtime to production environment
- Protection against system failure during all phases of the migration
- Failback option in case of problems with new System/App/Location
- Migrate one HA product to another
Migration Goals

Example - Health Care specialist
AS/400 730 – System i 570
Big Bang migration would have caused a 20 hour outage
Migrate 800Gb over 3 nights
Test
Migration at midnight
Sign off users from 730
Sign on users to 570
Downtime (Minutes)

Parallel Method

Primary (System “A”)
Backup (System “B”)

Primary (System “C”)
Backup (System “D”)

Cascade Method

Primary (System “A”)
Backup (System “B”)
Primary (System “C”)
Backup (System “D”)
Ease of Use with Vision Solutions Portal (VSP)

Consolidated View of Availability
- Browser based
- Monitoring at a glance
- Multi-instance, multi-product
- Runs in Windows, IBM i and AIX

Integrated, Intuitive Help System
- Fly-over help notes
- Smart Sort
- Smart prompting

Highly Customizable Interface
- User-defined
- System level security
VSP Highlights

**At-a-Glance Monitoring**

- **Action Required**
- **Attention** (May resolve itself)
- **Okay** (Switch Ready)

**Hover Text over Icons**

- Action required. One or more audits require action. See Audits page.

**Lights Out Monitoring**

- **E-mail Notification**
- Hyper Link to VSP for resolution

**Throughput Analysis Graphs**
Database Migration Scenarios

Modernization
- Upgrading database version
- Upgrading application version

Conversion
- Moving data to new database or application
- Switch to new operating system

Consolidation
- Reducing # of database platforms
- Standardizing on fewer vendors
- Reducing number of DBs by consolidating into a centralized database, data mart or data warehouse

30% planned to consolidate/combine databases in the next year.
28% plan to convert to a different database.
19% plan to reduce the number databases.*
Database Migration Scenarios

Issues:
• Hope you can complete all steps in available time window…
  - Data volumes becoming ever larger – takes longer to copy and convert data
  - Business becoming more 24 x 7 - reduced downtime window opportunities
• Final testing/verification limited to what remaining time you have
• Many stages are dependant on completion of previous stage
Victaulic is a world leader in mechanical pipe joining systems. It was founded in Network City in 1925 to market a radical new concept in the piping industry—a mechanical bolted coupling that would engage into pipe grooves and use a gasket seal.

**Benefits over traditional migration approach**

1. **Reduce cut-over window** - cut-over less than 4 hours after some 10.1 upgrade tasks run
2. **Parallel testing/training snapshots** - Full function and current 10.1 data after upgrade tasks run
3. **Application set up configuration remains fluid** - will be replicated to new release automatically
4. **Parallel projects** - other business projects can now run in parallel to the migration.

**Project Dates**
- Start Jan 2013
- Cut-Over June 2013
- Project Location
  - Nazareth, Belgium
Why have Victaulic chosen the Delta Migration with Double-Take SHARE?

BUSINESS REASON Nr #1 - LESS INTRUSIVE TO OUR BUSINESS
When we went live from Movex V11 to M3 7.1 in Europe in 2010, we executed 10 traditional data migration phases which results in around 250 - 300 Business Days testing by our business users. Add on top of that consultants’ hours testing.

BUSINESS REASON Nr #2 - MORE EXTENSIVE TEST PERIOD POSSIBLE
“We want to start populating the BUSINESS DATA for the CHINA GO Live planned next year. This replication allows us to start populating M3 7.1 and get prepared way ahead of the go live.”

BUSINESS REASON Nr #3 - ENGAGED USERS & GREATER CERTAINTY OVER TIMELINE
“Our people in China are early engaged in the M3 10.1 Go live game. They see their data flow from one system to the other and this creates engagement and dedication to do a good data entry job.

‘When our manufacturing in Poland went live in 2011, we had to postpone due to the fact that the entry of manufacturing part codes and BOM’s was heavily underestimated

‘With this scenario, we can start early in the game and avoid postponing the go live data as the entry of the data can start in M3 7.1
Transform the Way You Do Business

Breaks down barriers between
• Multiple databases
• Incompatible applications
• Disparate platforms

Makes data sharing easy
• Captures changes
• Transforms the data
• Replicates it to the desired target

Allows for
• Greater productivity
• Higher profitability
• Immediate ROI
• All with no programming!

How can Double-Take Share transform the way you do business?
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Migration... DONE
Vision Solutions is the industry leader protecting businesses’ data, applications and servers with solutions that meet every business continuity need.

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<td>• IBM Power Systems</td>
<td>• Easy, real-time data sharing between DBs</td>
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The Vision Solutions Partner Program offers partners no-risk, unlimited potential for increased revenue and the affords them the ability to provide their customers the most innovative protection, recovery, availability and migration solutions.