Notes for Discussion

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IBM – Host the Tata mainframes and do all system programming work

Change control migrations occur once per week. We need the rules.

Brian Ivory | Delivery Project Executive | Jaguar Land Rover Account

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From: Brian Ivory <Brian.Ivory@uk.ibm.com>

Date: Wednesday, 6 December 2017 at 10:00

To: George Smyth <gsmyth@rocketsoftware.com>

Cc: Karen Berry <BERRYK@uk.ibm.com>, Brett Parker <brett.parker@uk.ibm.com>, Karen Hartshorne-Evans <karen.hartshorne-evans@uk.ibm.com>, Matthew Evans1 <matt\_evans@uk.ibm.com>

Subject: JLR application replatforming

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Karen Berry | Global Account Director JLR | IBM Global Technology Services

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From: Karen Berry [mailto:BERRYK@uk.ibm.com]

Sent: Wednesday, 25 October 2017 10:55

To: Reddy, Ranjith (TCS)

Cc: Thada, Bhuwan; Clint Carstens; Deval Jani; iansuth@icon.co.za; John Green; Milind Bhave; Rob Crothall; SA JLR -DBA; EMEA VM Support Hungary; Brian Ivory

Re: Space Addition for JWEPITIS

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Karen Hartshorne-Evans <karen.hartshorne-evans@uk.ibm.com>

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Subject: JLR application replatforming

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Matthew Evans1 [matt\_evans@uk.ibm.com](mailto:matt_evans@uk.ibm.com) | Procurement ????

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From: Brian Ivory <Brian.Ivory@uk.ibm.com>

Date: Wednesday, 6 December 2017 at 10:00

Subject: JLR application replatforming

Hi George

I've been given your name by Matt Evans in our procurement team ..

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Tata Technology Limited – A technology support team with a consulting capability

Tata Consulting Services – Primary consulting team (with technology support capability).

Chris Greenbank – RSM – Imbedded SME in JLR

Rui Feio and Ian McArthur – RSM – Overseeing IBM

**Systems:**

* ESSDS - ?
  + Purpose:
  + Processing type: Transaction processing, Decision support
  + Processing load/cost
  + Number of
  + Data:
    - Feeds:
    - Data capture:
    - Combination:
    - Frequency of update
    - Data volume
    - Database or AS files
  + Criticality
  + Users:
    - Clerical
    - Professional
    - Write programs or macros?
      * Languages
* PTIS - ?
  + Purpose:
  + Processing type: Transaction processing, Decision support
  + Processing load/cost
  + Data:
    - Feeds:
    - Data capture:
    - Combination:
    - Frequency of update
    - Data volume
    - Database or AS files
  + Criticality
  + Users:
    - Clerical
    - Professional
    - Write programs or macros?
      * Languages
* VMASCON - ?
  + Purpose:
  + Processing type: Transaction processing, Decision support
  + Processing load/cost
  + Data:
    - Feeds:
    - Data capture:
    - Combination:
    - Frequency of update
    - Data volume
    - Database or AS files
  + Criticality
  + Users:
    - Clerical
    - Professional
    - Write programs or macros?
      * Languages
* What other work is done on the VM4 LPAR?
* CPU load
  + minimum of 750 MIPS to complete data import within 3 hours
  + Not much load for the rest of the day
  + Obvious inefficiency in load
* I/O load
* Database load?
* DASD volumes required?
* Are accounting stats available? - No
* Review recent billing stats to see variability and cost.

**Other Systems**

* VIPDIST – Replace – Does it impact migrated systems?
* Rules Replacement
* eTPF
* Where does functionality go to?

**Activities**

* Understand longer term strategy – No VM skills, so focus on z/OS
* Understand the current workload
* Review options for target environment
  + Upgrade VM4 to current version of z/VM
    - Feasible, but high risk
    - Not a reliable back-out plan
    - Not recommended because of longer term strategy
  + Migrate applications to new LPAR running current version of z/VM
    - Relatively easy to do
    - Low risk
    - Easy to test
    - Easy to back out
    - Not recommended because of longer term strategy
  + Consider additional DB/2 LPAR in parallel to existing z/OS LPAR
    - May offer cost reduction
    - Slight increase in migration workload
    - Move all DB/2 processing from z/OS LPAR to DB/2 LPAR
    - Migrate VM/AS to TSO/AS and use DB/2 LPAR as source
  + Migrate AS applications to z/OS under TSO
    - ALL changes to VM and TSO to proceed through formal change control
    - Create TSO IDs for all z/VM Users using correct RACF profile and create lookup table – VM UserID 🡨🡪 TSO UserID
    - Create UserIDs for conversion team members with appropriate RACF profiles in Development, QA, and Production environments
    - Understand mapping between VM printers and TSO printers – create lookup
    - Understand JCL, accounting, and dataset conventions
    - Understand programming incompatibilities (AS, Rexx) between VM and TSO – write a script to detect these statements and correct the source code
      * Printing
      * Dataset names
      * Host commands
    - Establish how timed jobs are triggered in VM and TSO (cron) – identify jobs and set them up on target system
    - Understand dependencies between VM UserIDs and sequence conversions to support those dependencies
    - Create training and reference document for existing VM UserIDs showing how to use AS under TSO including:
      * Logging on and off
      * Invoking the application menu
      * Using ISPF or equivalent
      * Finding reference manuals
      * Reporting issues
    - Write a program to produce statistics on all production files in VM
    - Migrate copy of data warehouse i.e. data not imported every day
    - Migrate copy of data feeds and run in parallel
    - Run statistics on all production files to check data feed daily after import and compare VM and TSO to ensure that data feed process is running correctly.
    - Establish and document a conversion back-out plan for each stage of the conversion
    - Get Client sign-off to proceed
    - Freeze all Production changes
    - Identify report recipients and explain what is going to happen
    - For each UserID on VM
      * Engage the User and explain what is going to happen
      * Establish full Test Plan and see that it runs successfully under VM
      * Identify suitable test scripts and verify on VM
      * Understand the purpose of each mini-disk and if it is shared
      * Take an inventory of each dataset on the VM
      * Generate JCL (while on VM) and write to a tape using z/OS credentials. Generate a step to handle each file.
      * Add a copy of each file to the tape in the sequence dictated by the generated JCL
      * Prevent logon to the VM by User
      * Submit job to z/OS via internal reader
      * Take an inventory of User’s TSO datasets and compare to VM inventory
      * Run script to parse source code and change printing and host commands, dataset names, and any other incompatibilities
      * Verify test scripts under TSO
      * If test script is successful, hand over to User for full User Test
      * If any errors are found, unlock VM account, abort conversion, fix and re-run
    - Run successfully under TSO for at least one week
    - Get Client sign-off
    - If no problems, stop the data imports under VM
    - Unfreeze Production changes
    - Prepare Project Closeout documents and get signoff
    - Backup all datasets from conversion team UserIDs and keep for three years
    - Delete conversion team UserIDs