Managing Your Environment with Dynamic Resource Definition and the IMS 12 Repository Function: Hands-On Lab

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February 4, 2013
Session #12561
DRD Refresher

• OBJECTIVE: Improve the availability of the IMS online environment
• Allow user to dynamically define and enable MODBLKS resource definitions
  • Databases
  • Programs
  • Transactions
  • Routing Codes
• Benefits
  • No requirement for MODBLKS SYSGEN
  • No requirement for IMS restart/MODBLKS online change
    • Limitations associated with these methods eliminated
  • Increased resource availability
• Type-2 commands: CREATE, DELETE, UPDATE, EXPORT, IMPORT, and QUERY
How Resources are Stored When Using DRD

- **Before IMS 12:** MODBLKS stored resource definitions kept in:
  - Set of resource definition data sets (RDDS)
    - Contains statically (SYSGEN) and dynamically created definitions
      - Resource definitions
      - Model descriptors
    - Autoimport reads in stored resource definitions from RDDS at IMS coldstart
    - Autoexport to RDDS at system checkpoint

- **In IMS 12:** MODBLKS stored resource definitions kept in either:
  - RDDS (used in DRD lab at previous SHARE conferences)
  - IMS repository (used in current and future DRD labs)
    - Autoimport function can read in stored resource definitions from repository at IMS coldstart
    - No autoexport capability
IMS Repository Function Benefits

- Consolidation of resource definitions in a single place, the repository
- DRD definitions are the initial implementation of the IMS repository function (to replace RDDSs)
- Full support for populating, managing, storing, sharing, and retrieving a consistent set of DRD stored resource definitions for multiple-IMS IMSplexes and single-IMS IMSplexes
- Manual coordination of multiple RDDSs in a multiple-IMS IMSplex eliminated, replaced by basic functioning of the IMS repository
- Improvements in IMSplex systems and resource management with the repository
- A strategic direction for IMS architecture
Lab Activities

- Review CSL + DRD with repository setup
- Set IMSplex name in TSO SPOC preferences
- Dynamically create resources
  - Setting attribute values in command syntax
  - Referencing a model descriptor
- Exporting/importing resources to/from the repository
  - Avoiding common pitfalls
  - Resources with unique vs. generic attributes
- Displaying runtime and stored resource definitions in repository
Lab Activities

- Capturing runtime resource definitional changes in repository
  - Different ways to export definitions without having to specify exact resource names
- DRD/RM utilities
  - Migration aid: generating a repository from RDDS or IMS log records
  - Fallback aid: generating an RDDS or MODBLKS from repository
- Command shortcuts
Lab Admin

- You will be assigned a user ID named IMPOTxx
User ID: IMPOTxx
Password: IBM01POT

Have fun, ask questions and provide feedback!