

Re-Energizing you VSAM Data with CA Quikserv for CA Gen

October 30, 2007 11:00 a.m. - 12:00 p.m.

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Agenda

- VSAM Today
- Re-Energizing VSAM Systems
- Critical Factors is Choosing Solutions
- The CA Quikserv Solution
- The CA Quikserv Process
- Legacy Renewal and CA Quikserv
- Q&A

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VSAM Today

- COBOL/VSAM
 - · Exists at almost every mainframe site
 - · Mission critical systems
 - CICS and BATCH
- Assembler/VSAM
 - · Exists at a smaller number of sites
 - · Mission critical systems
 - In many cases, no programmer resources available to change/convert



Re-Energizing VSAM Systems

- Focused on clients with legacy COBOL/VSAM environments that want
 - To expand the data access to include:
 - SQL
 - ODBC
 - JDBC
 - Without
 - Costly Conversions
 - Significant costs (resource and/or costs)
 - Poor performance solutions





Critical Factors For NOT Choosing – "Big Bang" Conversion Strategy

- Client has a large investment in COBOL/VSAM
- Moving VSAM data to rDBMS for SQL access
 - "Big Bang" conversion of everything from existing applications to modern applications on rDBMS
 - Too expensive (need a lot of resources all at once)
 - Too scary (all eggs in all basket)



Critical Factors For NOT Choosing – "Dual Data" Conversion Strategy

- "Dual Data" strategy
 - Clients move some of the business to modern applications on rDBMS, other applications remain on COBOL/VSAM
 - Less costly (in the short term)
 - Less Scary (limit exposure)
 - · Has its own set of problems
 - · How do you keep the data in-synch
 - How do you ensure new business rules built into modern applications are equally applied to systems still running COBOL/VSAM
 - · What happens if the effort stalls or takes longer than expected





Critical Factors For NOT Choosing – "SQL Emulation" Strategy

- · "SQL emulation" strategy
 - · Clients leave data in VSAM
 - Client purchases middleware that emulates SQL access (as well as ODBC/JDBC)
 - Less Scary (limit exposure to just new access)
 - · Has its own set of problems
 - · Not all data may be available
 - · Performance may not meet requirements
 - · Typically single table queries work OK
 - But the more complex the query (multiple tables and multiple SQL functions) the slower the response
 - May not support maintenance (update/add/delete)



The Solution: Re-Energizing VSAM Systems with CA Quikserv

- Special packaging of CA Datacom®
- Special pricing
- Industrial strength rDBMS
 - · Proven technology
 - Small z/OS footprint
 - Very flexible access
- Customer Success Stories

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The Solution: Re-Energizing VSAM Systems with CA Quikserv

CA Quikserv package includes CA Datacom options:

DB/DD – Database and Dictionary

• SQL — SQL Option (compatible with GEN)

• CICS Serv. - CICS Support

Server - JDBC/ODBC (compatible with GEN)

VSAM-Trans. - Allows VSAM applications to

access CA Datacom tables (with no code

changes)



The Process - Install CA Datacom with VSAM-T

- Move VSAM files into CA Datacom (tables)
 - · Simple utility provided to move data from VSAM to CA Datacom
- Existing VSAM applications continue to run unchanged
 - · Object level transparency
 - · No application changes or recompiles
 - Batch requires a minor change to JCL
 - In most cases performance of VSAM applications is as good or better running under VSAM-T
- · Immediately gain all the benefits of a rDBMS
 - Logging/Recovery
 - Unlike VSAM there is no limits to the share-ability of the data between
 - Multiple regions (batch and online)
 - · Multi-LPAR access
 - · Multi-Sysplex access





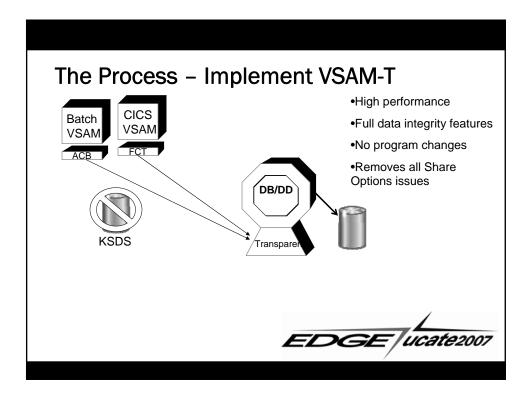
The Process (continued)

- VSAM-T can be implemented one VSAM file at a time
 - Batch requires a simple JCL change
 - For CICS update the VSAM-T control table and issue a CICS command to activate or deactivate
 - · Mixed mode is supported
 - One program with
 - VSAM files
 - VSAM-T files (now on CA Datacom)
 - VSAM access
 - SQL access



The Process - Start with VSAM Batch VSAM ACB FCT KSDS EDGE ucate2007





The Process - Add in SQL Access

- Data is defined to CA Datacom's Datadictionary (meta data)
 - Automated procedure converts COBOL copybooks (or Assembler DSECTS) to data definitions
 - Optionally client can add additional meta data or redefine existing data structures
 - Various reports and online screens available to display data definitions and record/row structures





The Process - Add in SQL Access

- Selectively enable SQL access to tables
 - · Existing META data is updated for SQL attributes
 - Optionally client can add additional SQL attributes
- Datacom SQL extensions
 - · Make non-relational data available to SQL
 - Good performance (no emulation)
 - · Group fields
 - Occurring fields
 - Redefined fields

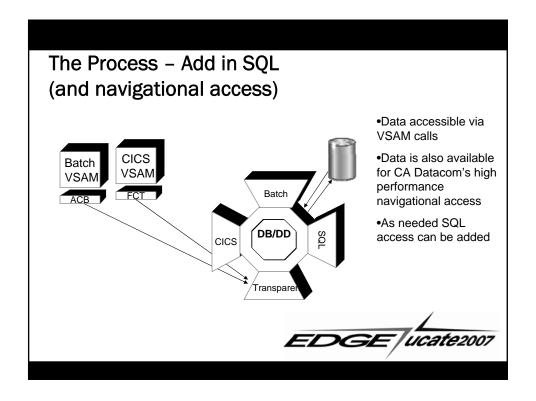


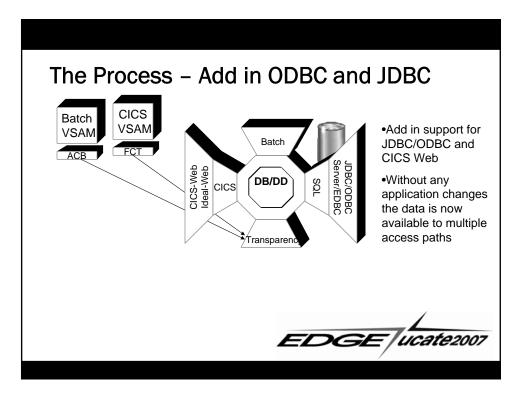
The Process - Add in JDBC/ODBC

- Once SQL access is enabled, new applications using SQL, JDBC and/or ODBC can be implemented
- CA Datacom includes a high-performance external security interface that can be used to secure data by the path taken

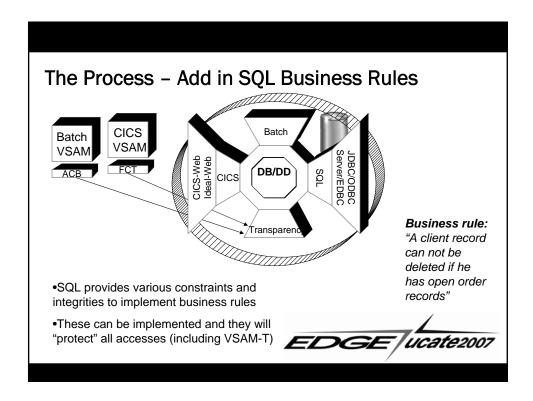


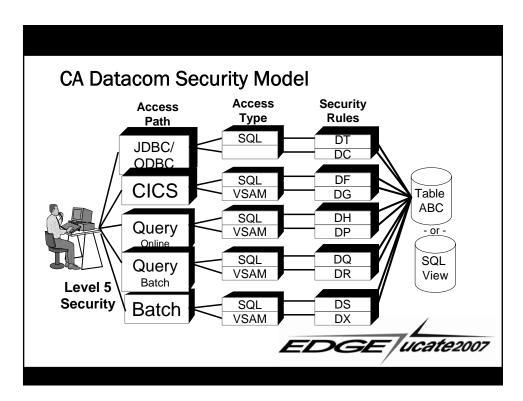




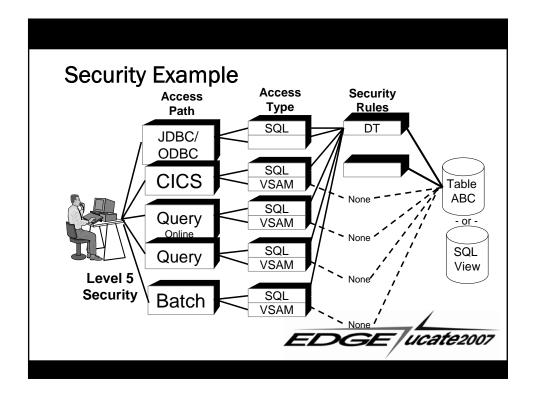










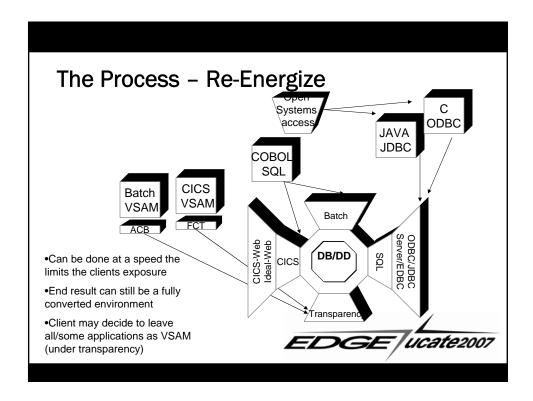


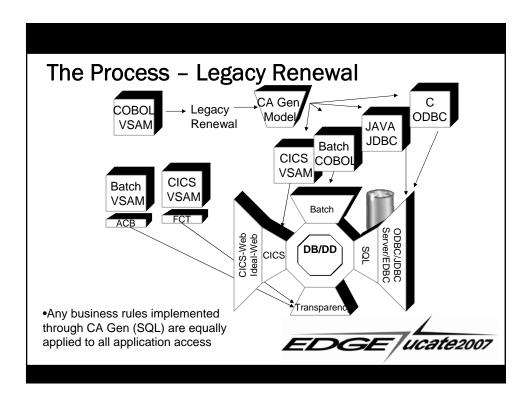
The Process - Begin Legacy Renewal

- Now that the data is housed in a sharable relational database
 - Clients can write new SQL based applications
 - Clients can add ODBC/JDBC based applications
 - Clients can even select certain existing COBOL/VSAM applications
 - Add in additional data access using SQL (or navigational) commands
 - Convert them to navigational/SQL access

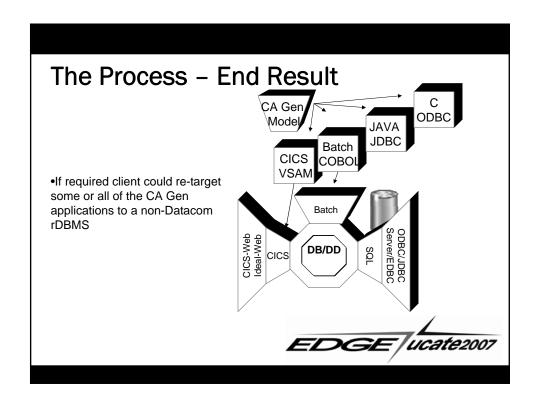
















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