

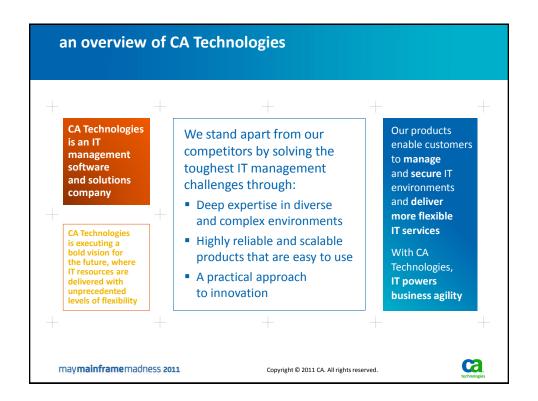
#### abstract

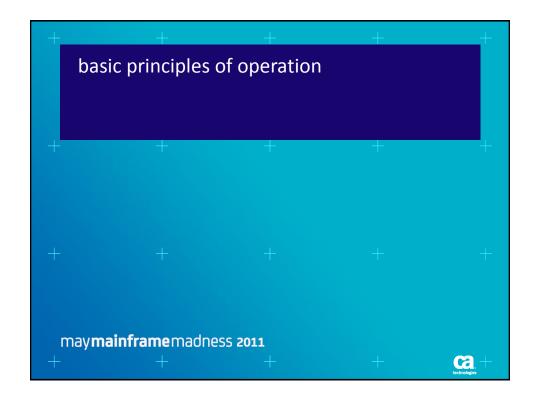
In this presentation, Principal Support Engineer Cal Domingue takes us through an overview of CA IDMS currency. Currency is a central critical concept in CA IDMS database applications and operations for storing, managing and navigating your database as well as maintaining integrity and avoiding deadlocks.

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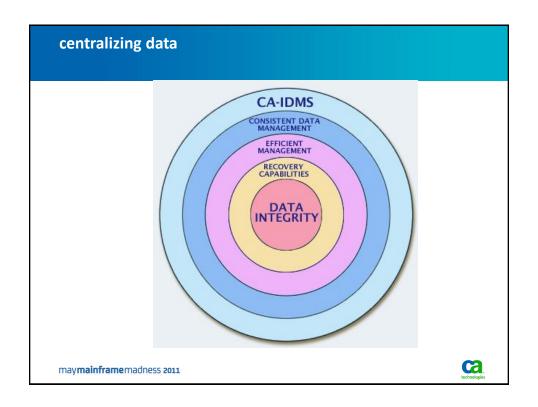


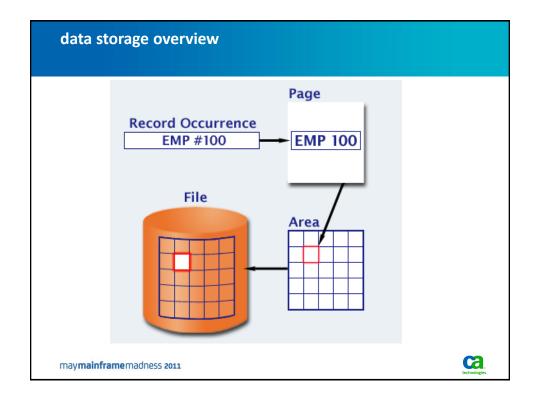




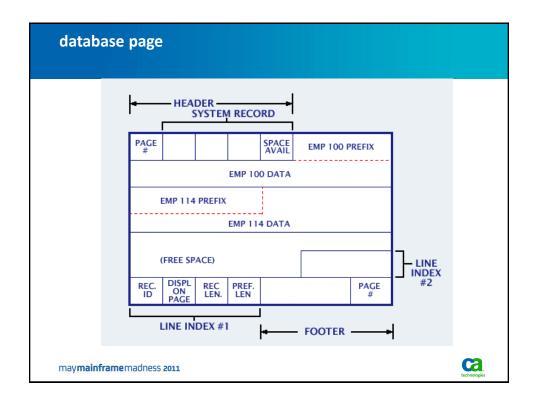


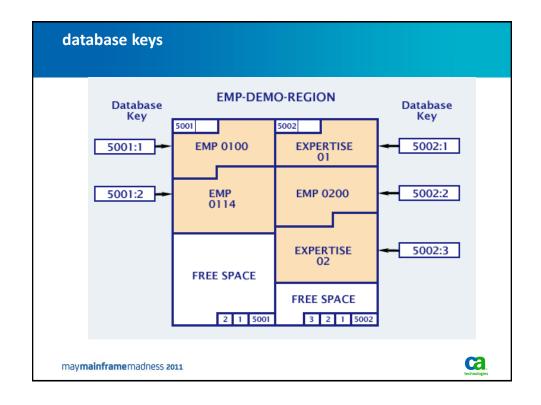








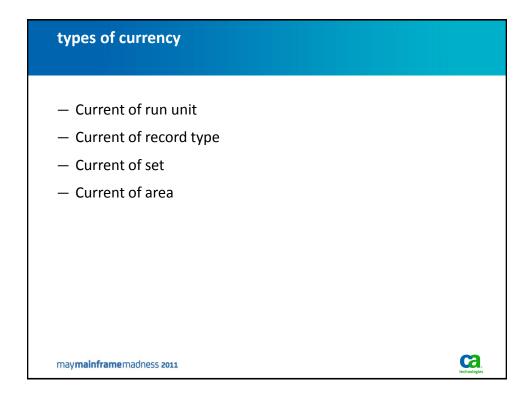






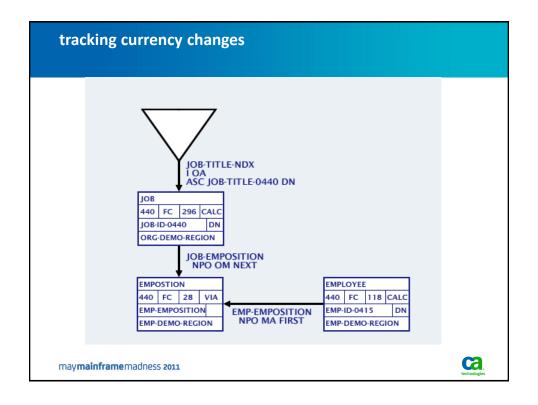
# CA IDMS currency: an overview for database applications



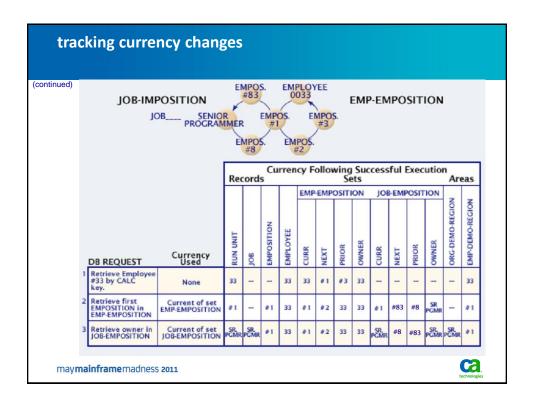


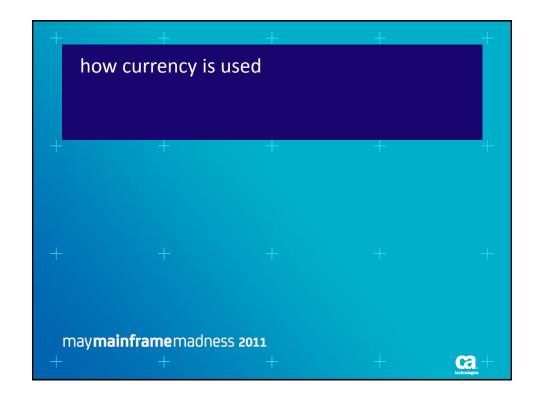


currency categories		
RUN UNIT	1002:3	
RECORD		
EMPLOYEE	1002:1	
DEPARTMENT	4001:4	
EXPERTISE	1002:3	
SET		
DEPT-EMPLOYEE		
CURRENT	1002:1	
NEXT	1000:1	
PRIOR	1040:1	
OWNER	4001:4	
EMP-EXPERTISE		
CURRENT	1002:3	
NEXT	1002:5	
PRIOR	1002:1	
OWNER	1002:1	
AREA	4000.0	
EMP-DEMO-REGION	1002:3	
ORG-DEMO-REGION	4001:4	
may <b>mainframe</b> madness 2011	technologies	

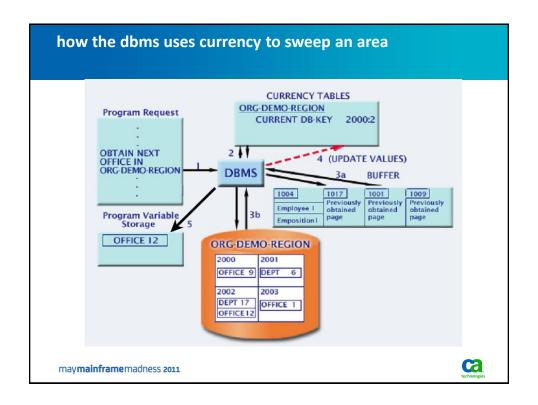


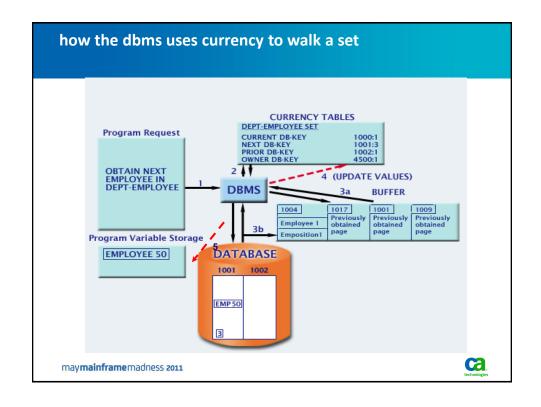




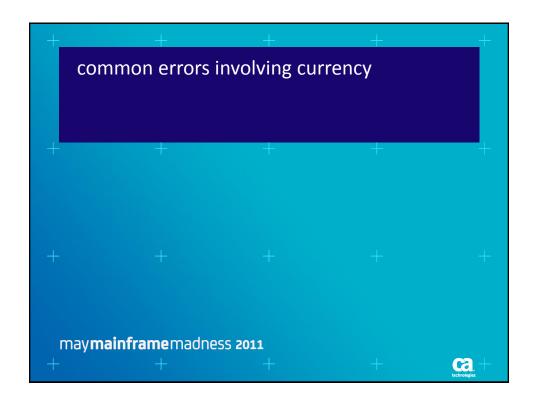


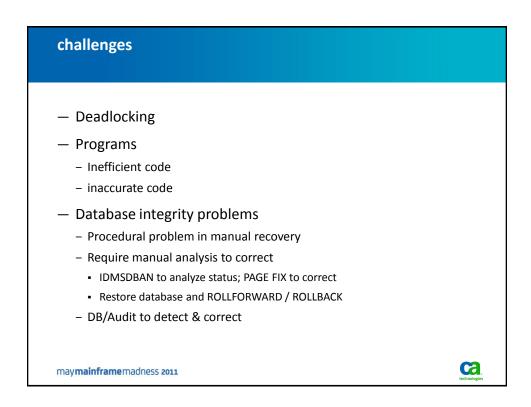














#### programming techniques to consider

- Manage Deadlocks
  - Within program, check for minor code 29
  - Re-bind run-unit
  - Re-establish currency
  - Resume program code
- "ACCEPT ... dbkey into .... " then "OBTAIN ..using DBKEY
  - Sometimes overused,
  - Use manual currency restore only when required
  - Unnecessary if the system currencies are already established
  - Appropriate when Area Sweep will be interrupted then resumed

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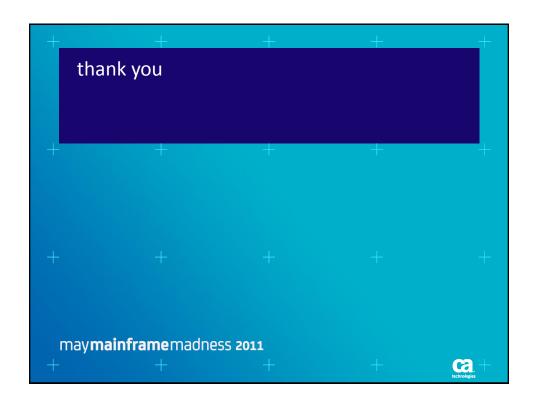
### programming techniques to consider

- Area sweep of an optional manual set members
  - Retrieving owner gets no error even if member not in set
  - Ensure record participates in set before getting owner
  - Use "IF <set-name> MEMBER"
- Use option RETRIEVAL NOLOCK or TRANSIENT RETRIEVAL
  - Avoids deadlocks and waits
  - Retrieval-only run-units
  - Where "dirty reads" are OK, reading uncommitted data
  - Use only when it's OK that data details may not be accurate, for trends etc.

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