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MRD for Database redesign for 64-bit memory address support.

Approval

<i>Department</i>	<i>Name</i>	<i>Date</i>
Development		
Marketing		
Sales		
Support		

Modification History

<i>Version</i>	<i>Date</i>	<i>Author</i>	<i>Comments</i>
1.0	3-Feb-02	Brian Clark	Initial Draft

Feature Requirements

Description of the Problem

Objectivity/DB currently supports 32 bit memory addressing mode. There are a number of new platforms supporting 64bit memory addressing modes that our customer base is requesting.

Description of the requested features

- Upgrade 32 bits data to 64 bits.
- Enable multiple page support within the same context.
- Migration tool.
- Compatibility mode. Read only mode. RW mode.

Part of an optional feature or does it require another feature? If so, which one?

Kernel change.

How is this problem being solved now, and why isn't that acceptable?

Objectivity/DB currently supports one 64 bit addressing mode platform, Compaq Tru64. However this implementation (copyout) suffers severe performance degradation and is not suitable as a general solution.

Which languages must support this capability?

Kernel change.

Which platforms must be supported?

All.

Do any competitors already have this capability?

TBD

Customers who require this capability:

TBD.

Revenue at risk or which could be won:
TBD.

When is this required?
R8.0

Review

Feature Sizing

<i>Efforts</i>	<i>Size</i>
Development	
QA	
Documentation	

Scheduled for Objy Release
Assigned Engineering Group