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MRD for Unicode string 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 | 21-Apr-03 | Brian Clark | Initial Draft |
| | | | |

Feature Requirements

Description of the Problem

Objectivity/DB does not support native 16 bit characters. These can be stored in a VArray but the query engine does not recognize them as 16 bit characters. OGIS¹ have built an implementation on top of the kernel that supports the Kanji character set. We really need a more general solution that will support queries.

Description of the requested features

The ability to store Unicode strings as data members in user defined classes, that can be indexed and queried using the predicate query engine.

This MRD does not address:

1. The ability to name databases, containers or objects with Unicode string name.
2. The ability to name objects in an ooMap with Unicode string name.
3. The ability to used Unicode strings as the key in keyed objects.
4. The ability to name associations with Unicode string names.
5. What about scalable collections?
6. What about ooMaps?

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

None.

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

This can be done above the kernel but native support for queries may be more efficient..

¹ Osaka Gas Information Systems [OGIS] is a company that distributes Objectivity's products in Japan

Which languages must support this capability?

All.

Which platforms must be supported?

All.

Do any competitors already have this capability?

TBD.

Benefit Category:

Usability.

Customers who require this capability:

ESS/Titan.

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 Objectivity Release

Assigned Engineering Group