

X11/1998-22

MUMPS Development Committee

Extension to the MDC Standard
Type A Release of the MUMPS Development Committee

OMI Version 2

June 28, 1998

Produced by the MDC Subcommittee #12
Environment

Art Smith, Chairman
MUMPS Development Committee

Larry Ruh, Chairman
Subcommittee #12

The reader is hereby notified that the following MDC specification has been approved by the MUMPS Development Committee but that it may be a partial specification which relies on information appearing in many parts of the MDC Standard. This specification is dynamic in nature, and the changes reflected by this approved change may not correspond with the latest specification available.

Because of the evolutionary nature of MDC specifications, the reader is further reminded that changes are likely to occur in the specification released herein prior to a complete republication of the MDC Standard.

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1. Identification of the Proposed Change

1.1 Title

OMI Version 2

1.2 MDC Proposer and Sponsor

Proposer

Subcommittee 12
Environment
Chairman: Larry Ruh

Sponsor

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1.3 Motion

None. Final version approved by MDC on June 28, 1998. This document supersedes X11/1998-9.

1.4 History

06 Aug 1998	X11/1998-22	This document.
17 Apr 1998	X11/1998-9	Accepted as an MDC standard, 15:0:4.

1.5 Dependencies

OMI Version 2 incorporates the following MDC Type A revisions to ANSI/MDC X11.2-1995, Open MUMPS Interconnect:

X11/95-93	OMI WRITE
X11/96-30	OMI JOB
X11/96-31	OMI Multiple-Transaction Message
X11/96-69	OMI Extended Get and Order
X11/96-70	OMI International
X11/97-30	OMI Reverse Query

2. Justification of the Proposed Change

Straightforward enhancements to OMI keep it current with the features of X11.1, improve performance, and provide output to remote devices. Although OMI has few users, the proposed Version 2 provides guidance for the development of products and the specification of requirements for systems comprising M processors from different vendors.

3. Description of the Proposed Change

3.1 General Description of the Proposed Change

Version 2 adds to the Open MUMPS Interconnect Protocol features that:

- enable new database operations of X11.1 over a network;
- improve performance;
- provide output to devices on another computer running MUMPS.

3.2 Annotated Examples of Use

None

3.3 Formalization

The MDC published the OMI standard in its May 1998 mailing. Additional copies are available from the MDC Secretariat, 1738 Elton Road, Suite 205, Silver Spring, Maryland 20903.

4. Implementation Effects

4.1 Effect on Existing User Practices and Investments

Systems using the 1995 standard M language and OMI protocol will operate without change. The use of new language features across an OMI connection will require OMI Version 2.

4.2 Effect on Existing Vendor Practices and Investments

Vendors who wish to extend OMI to incorporate Version 2 face a development effort estimated by the sponsor at ½ man-year.

4.3 Techniques and Costs for Compliance Verification

The documents cited in 1.5 discuss the compliance techniques and costs for the features.

4.4 Legal Considerations

None.

5. Closely Related Standards Activities

5.1 Other X11 Proposals Under Consideration

OMI Version 2 is related to the X11.1-2000 language standard, but does not affect it. Implementations of the forthcoming X11.7 standard should be able to communicate using OMI, since their operations on globals and devices are the same as those of X11.1.

5.2 Other Related Standards Efforts

None.

5.3 Recommendations for Coordinating Liaison

None

6. Associated Documents

None

7. Issues, Pros and Cons, and Discussion

The documents cited in 1.5 contain discussion of the individual features.

7.1 June 1998 MDC meeting

MDC accepted X11/1998-9 OMI V2 as an MDC standard, 15:0:4.

Pro

Con

- 1 Incorporates functionality desired in previous canvass. (3)
- 2 Consolidates a number of other MDC type A documents. (0)
- 3 Needed for future canvass. (4)

(Number of citations in the vote.)