



TECHNICAL REPORT

CMB7-1

Issued 1991-01
Stabilized 2014-10

Electronic Interchange of Configuration Management Data

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EIA ENGINEERING BULLETIN

Electronic Interchange of Configuration Management Data

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JANUARY 1991

ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



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Published by

ELECTRONIC INDUSTRIES ASSOCIATION
Engineering Department
2001 Pennsylvania Ave., N.W.
Washington, D.C. 20006

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CMB7-1

FOREWORD

This EIA Bulletin No. CMB7-1 is presented by the Electronic Industries Association G-33 Data and Configuration Management Committee to provide guidance in the electronic interchange of Configuration Management data.

This bulletin is a by-product of the G-33 Configuration Management Automation sub-committee, and Panel A at the 1989 EIA Computer Resources, Data and Configuration Management Workshop, held in Costa Mesa, California.

This bulletin is the first of several to be published on the subject of Configuration Management automation issues.

ELECTRONIC INTERCHANGE OF CONFIGURATION MANAGEMENT DATA

PREFACE

The present Configuration Management (CM) environment is undergoing an unprecedented evolution towards the use of electronic and automated systems in accomplishing the traditional tasks of identification, control, status accounting and audit. This transition will involve multiple organizations participating in the development of a new system for doing business.

CM needs to be an acknowledged part of the phasing from current systems to the fully integrated electronic environments depicted in Figure 1.

The coordination of the transition from a high volume, paper intensive CM environment to an integrated, automated, paperless, electronic interchange environment is the objective of the G-33 Committee on Data and Configuration Management.

This guide will serve to identify areas which need to be considered by government and industry when migrating to this new CM environment. The coordination activities between the industry and government agencies pursuing the implementation of electronic data interchange techniques need to be documented and made available for a smooth transition.

To this end, techniques for transmitting and receiving CM data should be developed using the CALS methodology to the degree that is both practical and feasible.

1.0 SCOPE

The scope of this bulletin is to provide guidance on the use of current and future technologies for the electronic interchange of CM data.

1.1 PURPOSE

The purpose of this guide is to ensure requirements of CM (identification, control, status accounting and audit) are used as the basis for transitioning to an automated environment.

2.0 REFERENCE DOCUMENTS

The following documents form a basis for electronic transfer of data.

MIL-D-28000	Digital Representations for Communication of Product Data: IGES Application Subsets
MIL-M-28001	Mark-up Requirement and Generic Style Specification for Electronic Printed Output Exchange and Text
MIL-R-28002	Raster, Graphic Representation in Binary Format, Requirements for
MIL-D-28003	Digital Representation for Communication of Illustrated Data: CCM Application Profile