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Cooperative Engineering Program

SAE J1881 AUG88

Initial Graphics Exchange Specification

SAE Recommended Practice
Issued August 1988

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INITIAL GRAPHICS EXCHANGE SPECIFICATION

1. FOREWORD:

The Initial Graphics Exchange Specification (I.G.E.S.) defines a neutral file format for facilitating transfer of graphic information between dissimilar CAD/CAM systems. This specification is being developed under the auspices of the National Bureau of Standards and in the opinion of this committee is properly addressing the key communication issue of dissimilar graphic data formats.

This document will be updated as often as necessary to reflect the developments of the I.G.E.S. Committee.

2. PURPOSE:

The purpose of this recommended practice is to establish a uniform practice for the exchange of graphic data between organizations using dissimilar CAD/CAM systems.

3. REFERENCE:

The I.G.E.S. specification is a product of the I.G.E.S. Committee under the auspices of the National Bureau of Standards.

4. RECOMMENDED PRACTICE:

The current version of I.G.E.S., as approved by NBS, should be followed whenever transferring graphic information between dissimilar CAD/CAM systems with the following recommendations:

- Translators support a subset of I.G.E.S. Entities. Check before transferring data that both translators support the required entity set.
- Validate each data transfer configuration (minimally defined by the graphics systems, translator software and the application) for data completeness, accuracy and functionality.

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RATIONALE:

Not applicable.

RELATIONSHIP OF SAE STANDARD TO ISO STANDARD:

Not applicable.

REFERENCE SECTION:

Not applicable.

APPLICATION:

The purpose of this recommended practice is to establish a uniform practice for the exchange of graphic data between organizations using dissimilar CAD/CAM systems.

COMMITTEE COMPOSITION:

DEVELOPED BY THE SAE COMPUTER INTEGRATED TECHNICAL SYSTEMS COMMITTEE:

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