

IGES Spec

1. ENTITY Mapping

ENF Entity	ENF Editor Class	CAD Entity Type
Component	EEComponent	308
Volume (Closed)	EEBrepVolume	186
Volume (Open)		
Shell	EEBrepShell	514
Face	EEBrepFace	108, 143, 144, 510
Surface	EEBrepSurface	108, 114, 118, 120, 122, 128, 140, 190, 192, 194, 196, 198
Loop	EEBrepLoop	141(for 143), 142(for 144), 508(for 510)
Edge	EEBrepEdge	100, 102, 104, 106, 110, 112, 126, 504
Curve	EEBrepCurve	100, 102, 104, 106, 110, 112, 126
Vertex	EEBrepVertex	106, 502
Face(Isolated)	EEBrepFace	108, 143, 144
Edge(Isolated)	EEBrepEdge	100, 102, 104, 106, 110, 112, 126
Vertex(Isolated)	EEBrepVertex	106, 116

Table.1.1 Entity Mapping between ENF and CAD

Entity Type Number	Entity Type
100	Circular Arc
102	Composite Curve
104	Conic Arc
106	Copious Data
108	Plane
110	Line
112	Parametric Spline Curve
114	Parametric Spline Surface
116	Point
118	Ruled Surface
120	Surface of Revolution
122	Tabulated Cylinder
126	Rational B-Spline Curve
128	Rational B-Spline Surface
140	Offset Surface
141	Boundary
142	Curve on a Parametric Surface
143	Bounded Surface
144	Trimmed (Parametric) Surface
186	Manifold Solid B-Rep Object
190	Plane Surface
192	Right Circular Cylindrical Surface
194	Right Circular Conical Surface
196	Spherical Surface
198	Toroidal Surface
308	Subfigure Definition
502	Vertex
504	Edge
508	Loop
510	Face
514	Shell

Table.1.2 IGES Entity Types