

# Oracle AutoVue 20.0.1

## Desktop Version Supported File Formats

To remain competitive, organizations must effectively address the asset information management challenge. A framework that delivers engineering, asset, and product information throughout the entire enterprise, in a variety of applications and business processes, allows information to be synthesized and visually presented to all enterprise users—in the business context they need to make effective technical and business decisions.

Oracle's AutoVue Enterprise Visualization solutions are designed to meet all of your visualization requirements. By delivering a framework that enables asset and product information to flow freely throughout the enterprise, AutoVue allows you to capitalize on existing information assets contained within all your enterprise systems, vastly improving business processes and workforce productivity.

This document lists all the file formats supported by the AutoVue 20.0.1 family of products.

# Contents

|  |           |
|--|-----------|
| <b>Engineering &amp; Construction / Energy / Utilities.....</b>              | <b>3</b>  |
| Autodesk .....   | 3         |
| Bentley Systems .....  | 3         |
| Dassault Systems .....   | 4         |
| Intergraph.....  | 4         |
| Parametric Technology Corporation .....                                      | 4         |
| Siemens PLM Software .....   | 4         |
| Exchange Formats .....   | 5         |
| Others .....   | 5         |
| Desktop / Office .....   | 5         |
| Graphics.....  | 5         |
| <b>Industrial Manufacturing / Automotive / Aerospace &amp; Defense .....</b> | <b>6</b>  |
| Autodesk .....   | 6         |
| Bentley Systems .....  | 6         |
| Dassault Systems .....   | 6         |
| Parametric Technology Corporation .....                                      | 7         |
| Siemens PLM Software .....   | 7         |
| Exchange Formats .....   | 7         |
| Others .....   | 8         |
| Desktop / Office .....   | 8         |
| Graphics.....  | 8         |
| <b>Electronics &amp; High Tech .....</b>                                     | <b>9</b>  |
| Altium .....   | 9         |
| Autodesk .....   | 9         |
| Cadence Design Systems .....   | 9         |
| Mentor Graphics .....  | 10        |
| Parametric Technology Corporation .....                                      | 10        |
| Zuken .....  | 10        |
| Exchange Formats.....  | 10        |
| Others .....   | 11        |
| Desktop / Office .....   | 11        |
| Graphics.....  | 11        |
| <b>Desktop / Office .....</b>  | <b>12</b> |
| Adobe.....   | 12        |
| Microsoft .....  | 12        |
| Others .....   | 12        |
| <b>Graphics.....</b>   | <b>13</b> |
| <b>Others.....</b>   | <b>14</b> |

# Supported File Formats

The following tables summarize the hundreds of document types supported by AutoVue solutions. These include technical document types such as 2-D/3-D Computer Aided Design (CAD) and Electronic Design Automation (EDA), as well as business documents such as Office and Graphics.

The tables are organized by the industries in which these document types are typically used. Each section is arranged by Vendor name, and by Product name or File format within each vendor section. For Desktop/Office, Graphics and Other document types which are used across all industries, please refer to these respective tables which appear after the industry sections.

For the most up-to-date version of this document, go to the AutoVue Documentation Web site on the Oracle Technology Network at <http://www.oracle.com/technetwork/documentation/autovue-091442.html>.

## Engineering & Construction / Energy / Utilities

| Vendor                 | Product / File Format                                      | File Type                 | Extensions         | Versions  | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|------------------------|--|---------------------------|--------------------|---|----------------|-------------------------|----------------------------------|--------------------------|---|
| <b>Autodesk</b>        |  |                           |                    |   |                |                         |                                  |                          |   |
|                        | AutoCAD  | Drawing, Drawing Exchange | DWG, DXF           | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2002, 2000i, 2000, 14, 13c4, 13c3, 13c2, 13c1, 12, 10, 9, 2.X |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | AutoCAD  | 3-D                       | DWG                | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2002, 2000i, 2000   |                | 2-D*                    | ✓                                |                          | ✓                                       |
|                        | AutoCAD  | Sheet Sets                | DST                |   |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | AutoCAD  | Drawing Binary Exchange   | DXB                | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2002, 2000i, 2000, 14, 13c4, 13c3, 13c2, 13c1, 12, 10, 9, 2.X |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | AutoCAD  | Slide, Slide Library      | SLD, SLB           |   |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | AutoCAD Mechanical 2-D/<br>Autodesk Mechanical Desktop 2-D | Drawing                   | DWG                | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004 DX, 2004, 6(2002), 5(2000i), 4(2000), 3, 2, 1.2                |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | AutoCAD Mechanical 3-D/<br>Autodesk Mechanical Desktop 3-D | Part, Assembly            | DWG                | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004 DX, 2004, 6(2002), 5(2000i), 4(2000)                           |                |                         | ✓                                |                          | ✓                                       |
|                        | Autodesk DWF   | Drawing                   | DWF                | 6.20, 6.11, 6.01, 2004, 5.5, 5, 4.X, 3.X, 2.X   |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | Autodesk DWF 3D  | Part, Assembly            | DWF                | 6.20, 6.11, 6.01  |                |                         | ✓                                |                          | ✓                                       |
|                        | Autodesk Inventor  | Drawing                   | IDW                | 2011, 2010, 2009, 2008, 11, 10, 9, 8, 7, 6, 5.3, 5, 4   |                |                         | ✓                                |                          | ✓                                       |
|                        | Autodesk Inventor  | Part, Assembly            | IPT, IDV, IAM, IDE | 2011, 2010, 2009, 2008, 11, 10, 9, 8, 7, 6, 5.3, 5, 4, 3, 2, 1  |                |                         | ✓                                |                          | ✓                                       |
|                        | Revit†   | Drawing                   | DWG, DXF           | 2010, 2009, 2008  |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | Revit†   | 3-D                       | DWF                | 2010, 2009, 2008  |                | ✓                       | ✓                                |                          | ✓                                       |
| <b>Bentley Systems</b> |  |                           |                    |   |                |                         |                                  |                          |   |
|                        | MicroStation Drawing                                       | Drawing                   | CEL, DGN           | 8i, 8 XM, 8.5, 8.1, 8, J, SE, 95, 5, 4  |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | MicroStation Drawing                                       | 3-D                       | CEL, DGN           | 8i, 8 XM, 8.5, 8.1, 8, J, SE, 95, 5, 4  |                | 2-D*                    | ✓                                |                          | ✓                                       |
|                        | MicroStation Modeler                                       | Drawing                   | DGN                | 7.1, J, 7.0, PE, 95   |                | ✓                       | ✓                                |                          | ✓                                       |
|                        | MicroStation Modeler                                       | 3-D                       | DGN                | 7.1, J, 7.0   |                | 2-D*                    | ✓                                |                          | ✓                                       |

\* AutoVue 2D Professional displays a 2-D projection of the 3-D model.

† Format support is provided through an exchange format

## Engineering & Construction / Energy / Utilities

| Vendor   | Product / File Format | File Type                                 | Extensions                           | Versions   | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|--|-----------------------|---|--------------------------------------|--|----------------|-------------------------|----------------------------------|--------------------------|---|
| <b>Dassault Systems</b>  |                       |   |                                      |  |                |                         |                                  |                          |   |
| CATIA V4   |                       | Model, Export, Assembly, Session, Drawing | MODEL, EXP, ASM, SESSION             | 4R2.X, 4R1.X, 4.0  |                |                         | ✓                                |                          | ✓                                       |
| CATIA V5   |                       | Part, Product, Drawing                    | CGR, CATPart, CATProduct, CATDrawing | 5R7 to 5R20  |                |                         | ✓                                |                          | ✓                                       |
| SolidWorks   |                       | Drawing                                   | SLDDRW                               | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001+, 2001, 2000, 99, 98, 97  |                | ✓                       | ✓                                |                          | ✓                                       |
| SolidWorks   |                       | Part, Assembly                            | SLDPRT, SLDASM                       | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001+, 2001, 2000, 99, 98, 97  |                |                         | ✓                                |                          | ✓                                       |
| SPATIAL ACIS   |                       | Binary, Text                              | SAB, SAT                             | 7, 6, 5, 4, 3, 2.1, 2, 1.7, 1.6, 1.5, 1.4  |                |                         | ✓                                |                          | ✓                                       |
| <b>Intergraph</b>  |                       |   |                                      |  |                |                         |                                  |                          |   |
| SmartSketch  |                       | Drawing                                   | IGR                                  | 2009, 2007, 5, 4   |                | ✓                       | ✓                                |                          | ✓                                       |
| <b>Parametric Technology Corporation</b>                       |                       |   |                                      |  |                |                         |                                  |                          |   |
| CoCreate Drafting / ME10 / OneSpace Designer Drafting          |                       |   | MI, BI                               | 17.00, 16.50B, 16.50A, 16.00E, 16.00D, 16.00C, 16.00B, 16.00A, 2008 (16.XX), 2007 (15.XX), 2006 (14.XX), 13.XX, 12.01, 11.65, 11.60, 11(2002), 2000+, 10, 9, 8, 7, 6 |                | ✓                       | ✓                                |                          | ✓                                       |
| Pro/ENGINEER   |                       | Drawing                                   | DRW, FRM, PIC                        | WildFire 5.0, WildFire 4.0, WildFire 3.0, WildFire 2.0, WildFire, 2001, 2000i2, 2000i, 20, 19, 18  |                |                         | ✓                                |                          | ✓                                       |
| Pro/ENGINEER   |                       | Part, Assembly                            | PRT, ASM, XPR, XAS                   | WildFire 5.0, WildFire 4.0, WildFire 3.0, WildFire 2.0, WildFire, 2001, 2000i2, 2000i, 20, 19, 18  |                |                         | ✓                                |                          | ✓                                       |
| CoCreate Modeling / SolidDesigner / OneSpace Designer Modeling |                       | Part, Part Container                      | SDP, SDPC                            | 17.00, 16.50B, 16.50A, 16.00E, 16.00D, 16.00C, 16.00B, 2008 (16.XX), 2007 (15.XX), 2006 (14.XX), 13.XX, 12.XX, 11.XX, 9, 8.5, 2000+, 8, 7, 6                         |                |                         | ✓                                |                          | ✓                                       |
| CoCreate Modeling / SolidDesigner / OneSpace Designer Modeling |                       | Assembly, Container                       | SDA, SDAC                            | 17.00, 16.50B, 16.50A, 16.00E, 16.00D, 16.00C, 16.00B, 2008 (16.XX), 2007 (15.XX), 2006 (14.XX), 13.XX, 12.XX, 11.XX, 9, 8.5, 2000+, 8, 7, 6                         |                |                         | ✓                                |                          | ✓                                       |
| CoCreate Modeling / SolidDesigner / OneSpace Designer Modeling |                       | Package, Bundle                           | PKG, BDL                             | 17.00, 16.50B, 16.50A, 16.00E, 16.00D, 16.00C, 16.00B, 2008 (16.XX), 2007 (15.XX), 2006 (14.XX), 13.XX, 12.XX, 11.XX, 9, 8.5, 2000+, 8, 7, 6                         |                |                         | ✓                                |                          | ✓                                       |
| <b>Siemens PLM Software</b>                                    |                       |   |                                      |  |                |                         |                                  |                          |   |
| DirectModel (JT)   |                       |   | JT                                   | 9.1, 8.1, 8, 7, 6.4  |                |                         | ✓                                |                          | ✓                                       |
| I-deas*  |                       | Drawing                                   | DXF, CGM                             |  |                | ✓                       | ✓                                |                          | ✓                                       |
| I-deas*  |                       | 3-D                                       | IGES, STEP                           |  |                | IGES 2-D                | ✓                                |                          | ✓                                       |
| Parasolids   |                       | Binary, Text                              | X_T, X_B                             | 22.0, 21.0, 20.0, 19.1, 19, 18.1, 18, 17.1, 17, 16, 15.1, 15, 14.1, 14, 13.2, 13, 12.1, 12, 11.1, 11   |                |                         | ✓                                |                          | ✓                                       |

\* Format support is provided through an exchange format

## Engineering & Construction / Energy / Utilities

| Vendor  | Product / File Format | File Type                 | Extensions          | Versions  | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|---|-----------------------|---------------------------|---------------------|---|----------------|-------------------------|----------------------------------|--------------------------|---|
|   | Solid Edge*           | Draft                     | DFT                 | ST2, ST, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6 |                | ✓                       | ✓                                |                          | ✓                                       |
|   | Solid Edge            | Part, Assembly            | PAR, ASM            | ST2, ST, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6 |                |                         | ✓                                |                          | ✓                                       |
|   | Unigraphics           | Draft                     | PRT                 | NX6, NX5, NX4, NX3, NX2, NX1, 18, 17, 16                        |                |                         | ✓                                |                          | ✓                                       |
|   | Unigraphics           | Part, Assembly            | PRT                 | NX6, NX5, NX4, NX3, NX2, NX1, 18, 17, 16, 15, 14, 13            |                |                         | ✓                                |                          | ✓                                       |
| <b>Exchange Formats</b>                                     |                       |                           |                     |   |                |                         |                                  |                          |   |
|   | CGM                   | Binary, ASCII (ClearText) | CGM                 | 4, 3, 2, 1  |                | ✓                       | ✓                                |                          | ✓                                       |
|   | CGM - CALS compliant  |                           | CGM                 |   |                | ✓                       | ✓                                |                          | ✓                                       |
|   | IFC                   | 3-D                       | IFC, 2X2, 2X3       |   |                |                         | ✓                                |                          | ✓                                       |
|   | IGES (2-D, 3-D)       |                           | IGES, IGS           | 5.3, 5.2, 5.1   |                | 2-D†                    | ✓                                |                          | ✓                                       |
|   | STEP AP 203           |                           | STP, STEP, STE, P21 |   |                |                         | ✓                                |                          | ✓                                       |
|   | STEP AP 214           |                           | STP, STEP, STE, P21 |   |                |                         | ✓                                |                          | ✓                                       |
|   | STL                   | Binary, Text              | STL                 |   |                |                         | ✓                                |                          | ✓                                       |
| <b>Others</b>   |                       |                           |                     |   |                |                         |                                  |                          |   |
|   | Cadkey                | Part File                 | PRT                 | 19, 99, 98, 97, 7, 6, 5, 4.X, 3.X                               |                | ✓                       | ✓                                |                          | ✓                                       |
|   | HPGL                  |                           | HGL, HPG, PLT, PRN  |   | ✓              | ✓                       | ✓                                |                          | ✓                                       |
|   | HPGL/2                |                           | HGL, HPG, PLT, PRN  |   | ✓              | ✓                       | ✓                                |                          | ✓                                       |
|   | HP RTL                |                           | HGL, HPG, PLT, PRN  |   | ✓              | ✓                       | ✓                                |                          | ✓                                       |
|   | ESRI Shapefile        |                           | CSHP, SHP, SHX      |   |                | ✓                       | ✓                                |                          | ✓                                       |
|   | PointCloud 3-D        |                           | PTS, ASC            |   |                |                         | ✓                                |                          | ✓                                       |
| Refer to the <a href="#">Others</a> table for more formats. |                       |                           |                     |   |                |                         |                                  |                          |   |
| <b>Desktop / Office</b>                                     |                       |                           |                     |   |                |                         |                                  |                          |   |
| Refer to the <a href="#">Desktop / Office</a> table.        |                       |                           |                     |   |                |                         |                                  |                          |   |
| <b>Graphics</b>   |                       |                           |                     |   |                |                         |                                  |                          |   |
| Refer to the <a href="#">Graphics</a> table.                |                       |                           |                     |   |                |                         |                                  |                          |   |

\* AutoVue only displays preview for Solid Edge Drawings.

† AutoVue 2D Professional displays a 2-D projection of the 3-D model.

## Industrial Manufacturing / Automotive / Aerospace & Defense

| Vendor   | Product / File Format | File Type                                 | Extensions                           | Versions  | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|--|-----------------------|---|--------------------------------------|---|----------------|-------------------------|----------------------------------|--------------------------|---|
| <b>Autodesk</b>  |                       |   |                                      |   |                |                         |                                  |                          |   |
| AutoCAD  |                       | Drawing, Drawing Exchange                 | DWG, DXF                             | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2002, 2000i, 2000, 14, 13c4, 13c3, 13c2, 13c1, 12, 10, 9, 2.X |                | ✓                       | ✓                                |                          | ✓                                       |
| AutoCAD  |                       | 3-D                                       | DWG                                  | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2002, 2000, 2000i   |                | 2-D†                    | ✓                                |                          | ✓                                       |
| AutoCAD  |                       | Sheet Sets                                | DST                                  |   |                | ✓                       | ✓                                |                          | ✓                                       |
| AutoCAD  |                       | Drawing, Binary Exchange                  | DXB                                  | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2002, 2000i, 2000, 14, 13c4, 13c3, 13c2, 13c1, 12, 10, 9, 2.X |                | ✓                       | ✓                                |                          | ✓                                       |
| AutoCAD  |                       | Slide, Slide Library                      | SLD, SLB                             |   |                | ✓                       | ✓                                |                          | ✓                                       |
| AutoCAD Mechanical 2-D/<br>Autodesk Mechanical Desktop 2-D |                       | Drawing                                   | DWG                                  | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004 DX, 2004, 6(2002), 5(2000i), 4(2000), 3, 2, 1.2                |                | ✓                       | ✓                                |                          | ✓                                       |
| AutoCAD Mechanical 3-D/<br>Autodesk Mechanical Desktop 3-D |                       | Part, Assembly                            | DWG                                  | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004 DX, 2004, 6(2002), 5(2000i), 4(2000)                           |                |                         | ✓                                |                          | ✓                                       |
| Autodesk Inventor  |                       | Drawing                                   | IDW                                  | 2011, 2010, 2009, 2008, 11, 10, 9, 8, 7, 6, 5.3, 5, 4   |                |                         | ✓                                |                          | ✓                                       |
| Autodesk Inventor  |                       | Part, Assembly                            | IPT, IDV, IAM, IDE                   | 2011, 2010, 2009, 2008, 11, 10, 9, 8, 7, 6, 5.3, 5, 4, 3, 2, 1  |                |                         | ✓                                |                          | ✓                                       |
| Revit*   |                       | Drawing                                   | DWG, DXF                             | 2010, 2009, 2008  |                | ✓                       | ✓                                |                          | ✓                                       |
| Revit*   |                       | 3-D                                       | DWF                                  | 2010, 2009, 2008  |                | ✓                       | ✓                                |                          | ✓                                       |
| <b>Bentley Systems</b>                                     |                       |   |                                      |   |                |                         |                                  |                          |   |
| MicroStation Drawing                                       |                       | Drawing                                   | CEL, DGN                             | 8i, 8 XM, 8.5, 8.1, 8, J, SE, 95, 5, 4  |                | ✓                       | ✓                                |                          | ✓                                       |
| MicroStation Drawing                                       |                       | 3-D                                       | CEL, DGN                             | 8i, 8 XM, 8.5, 8.1, 8, J, SE, 95, 5, 4  |                | 2-D†                    | ✓                                |                          | ✓                                       |
| MicroStation Modeler                                       |                       | Drawing                                   | DGN                                  | 7.1, J, 7.0, PE, 95   |                | ✓                       | ✓                                |                          | ✓                                       |
| MicroStation Modeler                                       |                       | 3-D                                       | DGN                                  | 7.1, J, 7.0   |                | 2-D†                    | ✓                                |                          | ✓                                       |
| <b>Dassault Systems</b>                                    |                       |   |                                      |   |                |                         |                                  |                          |   |
| CATIA V4   |                       | Model, Export, Assembly, Session, Drawing | MODEL, EXP, ASM, SESSION             | 4R2.X, 4R1.X, 4.0   |                |                         | ✓                                |                          | ✓                                       |
| CATIA V5   |                       | Part, Product, Drawing                    | CGR, CATPart, CATProduct, CATDrawing | 5R7 to 5R20   |                |                         | ✓                                |                          | ✓                                       |
| SolidWorks   |                       | Drawing                                   | SLDDRW                               | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001+, 2001, 2000, 99, 98, 97                           |                | ✓                       | ✓                                |                          | ✓                                       |
| SolidWorks   |                       | Part, Assembly                            | SLDPRT, SLDASM                       | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001+, 2001, 2000, 99, 98, 97                           |                |                         | ✓                                |                          | ✓                                       |
| SPATIAL ACIS   |                       | Binary, Text                              | SAB, SAT                             | 7, 6, 5, 4, 3, 2.1, 2, 1.7, 1.6, 1.5, 1.4   |                |                         | ✓                                |                          | ✓                                       |

\* Format support is provided through an exchange format

† AutoVue 2D Professional displays a 2-D projection of the 3-D model.

## Industrial Manufacturing / Automotive / Aerospace & Defense

| Vendor   | Product / File Format | File Type           | Extensions   | Versions | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|--|-----------------------|---------------------|--|----------|----------------|-------------------------|----------------------------------|--------------------------|---|
| <b>Parametric Technology Corporation</b>                       |                       |                     |  |          |                |                         |                                  |                          |   |
| Pro/ENGINEER   | Drawing               | DRW, FRM, PIC       | WildFire 5.0, WildFire 4.0, WildFire 3.0, WildFire 2.0, WildFire, 2001, 2000i2, 2000i, 20, 19, 18  |          |                |                         | ✓                                |                          | ✓                                       |
| Pro/ENGINEER   | Part, Assembly        | PRT, ASM, XPR, XAS  | WildFire 5.0, WildFire 4.0, WildFire 3.0, WildFire 2.0, WildFire, 2001, 2000i2, 2000i, 20, 19, 18  |          |                |                         | ✓                                |                          | ✓                                       |
| CoCreate Modeling / SolidDesigner / OneSpace Designer Modeling | Part, Part Container  | SDP, SDPC           | 17.00, 16.50B, 16.50A, 16.00E, 16.00D, 16.00C, 16.00B, 2008 (16.XX), 2007 (15.XX), 2006 (14.XX), 13.XX, 12.XX, 11.XX, 9, 8.5, 2000+, 8, 7, 6 |          |                |                         | ✓                                |                          | ✓                                       |
| CoCreate Modeling / SolidDesigner / OneSpace Designer Modeling | Assembly, Container   | SDA, SDAC           | 17.00, 16.50B, 16.50A, 16.00E, 16.00D, 16.00C, 16.00B, 2008 (16.XX), 2007 (15.XX), 2006 (14.XX), 13.XX, 12.XX, 11.XX, 9, 8.5, 2000+, 8, 7, 6 |          |                |                         | ✓                                |                          | ✓                                       |
| CoCreate Modeling / SolidDesigner / OneSpace Designer Modeling | Package, Bundle       | PKG, BDL            | 17.00, 16.50B, 16.50A, 16.00E, 16.00D, 16.00C, 16.00B, 2008 (16.XX), 2007 (15.XX), 2006 (14.XX), 13.XX, 12.XX, 11.XX, 9, 8.5, 2000+, 8, 7, 6 |          |                |                         | ✓                                |                          | ✓                                       |
| <b>Siemens PLM Software</b>                                    |                       |                     |  |          |                |                         |                                  |                          |   |
| DirectModel (JT)   |                       | JT                  | 9.1, 8.1, 8, 7, 6.4  |          |                |                         | ✓                                |                          | ✓                                       |
| I-deas*  | Drawing               | DXF, CGM            |  |          |                | ✓                       | ✓                                |                          | ✓                                       |
| I-deas*  | 3-D                   | STEP                |  |          |                |                         | ✓                                |                          | ✓                                       |
| Parasolids   | Binary, Text          | X_T, X_B            | 22.0, 21.0, 20.0, 19.1, 19, 18.1, 18, 17.1, 17, 16, 15.1, 15, 14.1, 14, 13.2, 13, 12.1, 12, 11.1, 11   |          |                |                         | ✓                                |                          | ✓                                       |
| Solid Edge†  | Draft                 | DFT                 | ST2, ST, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6  |          |                | ✓                       | ✓                                |                          | ✓                                       |
| Solid Edge   | Part, Assembly        | PAR, ASM            | ST2, ST, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6  |          |                |                         | ✓                                |                          | ✓                                       |
| Unigraphics  | Draft                 | PRT                 | NX6, NX5, NX4, NX3, NX2, NX1, 18, 17, 16   |          |                |                         | ✓                                |                          | ✓                                       |
| Unigraphics  | Part, Assembly        | PRT                 | NX6, NX5, NX4, NX3, NX2, NX1, 18, 17, 16, 15, 14, 13   |          |                |                         | ✓                                |                          | ✓                                       |
| <b>Exchange Formats</b>  |                       |                     |  |          |                |                         |                                  |                          |   |
| IGES (2-D, 3-D)  |                       | IGES, IGS           | 5.3, 5.2, 5.1  |          |                | 2-D‡                    | ✓                                |                          | ✓                                       |
| STEP AP 203  |                       | STP, STEP, STE, P21 |  |          |                |                         | ✓                                |                          | ✓                                       |
| STEP AP 214  |                       | STP, STEP, STE, P21 |  |          |                |                         | ✓                                |                          | ✓                                       |
| STL  | Binary, Text          | STL                 |  |          |                |                         | ✓                                |                          | ✓                                       |

\* Format support is provided through an exchange format.

† AutoVue only displays preview for Solid Edge Drawings.

‡ AutoVue 2D Professional displays a 2-D projection of the 3-D model.

**Industrial Manufacturing / Automotive / Aerospace & Defense**

| Vendor  | Product / File Format | File Type | Extensions | Versions | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|---|-----------------------|-----------|------------|----------|----------------|-------------------------|----------------------------------|--------------------------|---|
| <b>Others</b>   |                       |           |            |          |                |                         |                                  |                          |   |
|   | PointCloud 3-D        |           | PTS, ASC   |          |                |                         | ✓                                |                          | ✓                                       |
| Refer to the <a href="#">Others</a> table for more formats. |                       |           |            |          |                |                         |                                  |                          |   |
| <b>Desktop / Office</b>                                     |                       |           |            |          |                |                         |                                  |                          |   |
| Refer to the <a href="#">Desktop / Office</a> table.        |                       |           |            |          |                |                         |                                  |                          |   |
| <b>Graphics</b>   |                       |           |            |          |                |                         |                                  |                          |   |
| Refer to the <a href="#">Graphics</a> table.                |                       |           |            |          |                |                         |                                  |                          |   |



## Electronics & High Tech

| Vendor   | Product / File Format | File Type                                 | Extensions                                       | Versions   | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|--|-----------------------|---|--|--|----------------|-------------------------|----------------------------------|--------------------------|---|
| <b>Altium</b>  |                       |   |  |  |                |                         |                                  |                          |   |
| Altium Designer  |                       | PCB, 3-D, (Binary, ASCII)                 | PCBDOC, PRJPCB, PRJFPG, PRJCOR                   | Summer 2009, Winter 2009, Summer 2008, 6.0 to 6.9              |                |                         |                                  | ✓                        | ✓                                       |
| Altium Designer  |                       | Schematics, (Binary, ASCII)               | SCHDOC, PRJPCB, PRJFPG, PRJCOR                   | Summer 2009, Winter 2009, Summer 2008, 6.0 to 6.9              |                |                         |                                  | ✓                        | ✓                                       |
| Protel   |                       | PCB (Binary, ASCII), 3-D                  | PCB, DDB, PCBDOC, PRJPCB, PRJFPG, PRJCOR         | 2004, DXP, 99SE, 99, 98  |                |                         |                                  | ✓                        | ✓                                       |
| Protel   |                       | Schematics (Binary, ASCII)                | SCH, DDB, SCHDOC, PRJPCB, PRJFPG, PRJCOR         | 2004, DXP, 99SE, 99, 98  |                |                         |                                  | ✓                        | ✓                                       |
| P-CAD Layout   |                       | PCB (Binary, ASCII)                       | PCB  | 2006, 2004, 2002, 2001, 2000                                   |                |                         |                                  | ✓                        | ✓                                       |
| P-CAD Schematic  |                       | SCH (Binary, ASCII)                       | SCH  | 2006, 2004, 2002, 2001, 2000                                   |                |                         |                                  | ✓                        | ✓                                       |
| PDIF   |                       | PCB                                       | PDF, PDIF  | 8.5, 7.0   |                |                         |                                  | ✓                        | ✓                                       |
| PDIF   |                       | Schematics                                | PDF, PDIF  | 8.5, 7.0   |                |                         |                                  | ✓                        | ✓                                       |
| <b>Autodesk</b>  |                       |   |  |  |                |                         |                                  |                          |   |
| Autodesk Inventor  |                       | Drawing                                   | IDW  | 2011, 2010, 2009, 2008, 11, 10, 9, 8, 7, 6, 5.3, 5, 4          |                |                         | ✓                                |                          | ✓                                       |
| Autodesk Inventor  |                       | Part, Assembly                            | IPT, IDV, IAM, IDE                               | 2011, 2010, 2009, 2008, 11, 10, 9, 8, 7, 6, 5.3, 5, 4, 3, 2, 1 |                |                         | ✓                                |                          | ✓                                       |
| <b>Bentley Systems</b>   |                       |   |  |  |                |                         |                                  |                          |   |
| MicroStation Drawing   |                       | Drawing                                   | CEL, DGN   | 8i, 8 XM, 8.5, 8.1, 8, J, SE, 95, 5, 4                         |                | ✓                       | ✓                                |                          | ✓                                       |
| MicroStation Drawing   |                       | 3-D                                       | CEL, DGN   | 8i, 8 XM, 8.5, 8.1, 8, J, SE, 95, 5, 4                         |                | 2-D*                    | ✓                                |                          | ✓                                       |
| MicroStation Modeler   |                       | Drawing                                   | DGN  | 7.1, J, 7.0, PE, 95  |                | ✓                       | ✓                                |                          | ✓                                       |
| MicroStation Modeler   |                       | 3-D                                       | DGN  | 7.1, J, 7.0  |                | 2-D*                    | ✓                                |                          | ✓                                       |
| <b>Cadence Design Systems</b>                                      |                       |   |  |  |                |                         |                                  |                          |   |
| Allegro PCB Layouts / Concept HDL / Drawings / Symbols / Padstacks |                       | PCB, 3-D                                  | BRD, DRA, MCM, MDD, SSM, PSM, BSM, OSM, FSM, PAD | 16.3, 16.2, 16.0, 15.0 to 15.7, 14.x, 13.x                     |                |                         |                                  | ✓                        | ✓                                       |
| Allegro IPF  |                       | Artwork                                   | PLT  |  |                |                         |                                  | ✓                        | ✓                                       |
| Allegro Design Entry HDL   |                       | Schematics                                | CPM, TAR, GZ, TGZ, ZIP                           | 16.3, 16.2, 16.0, 15.x, 14.x                                   |                |                         |                                  | ✓                        | ✓                                       |
| Cadence Schematic Symbols  |                       | Schematics                                | CSS  | 16.3, 16.2, 16.0, 15.0 to 15.7, 14.x, 13.x                     |                |                         |                                  | ✓                        | ✓                                       |
| OrCAD Layout   |                       | PCB (Binary, ASCII), 3-D                  | MIN, MAX   | 16.2, 16, 15.7, 10.x, 9.x, 7.2, 7.0                            |                |                         |                                  | ✓                        | ✓                                       |
| OrCAD Capture Design/Library                                       |                       | Schematics                                | DSN, DBK, OLB                                    | 16.3, 16.2, 16, 15.7, 10.x, 9.x, 7.2, 7.0                      |                |                         |                                  | ✓                        | ✓                                       |
| Specctra   |                       | PCB, 3-D                                  | DSN, CCT   | 15.x, 14.x   |                |                         |                                  | ✓                        | ✓                                       |
| <b>Dassault Systems</b>  |                       |   |  |  |                |                         |                                  |                          |   |
| CATIA V4   |                       | Model, Export, Assembly, Session, Drawing | MODEL, EXP, ASM, SESSION                         | 4R2.X, 4R1.X, 4.0  |                |                         | ✓                                |                          | ✓                                       |
| CATIA V5   |                       | Part, Product, Drawing                    | CGR, CATPart, CATProduct, CATDrawing             | 5R7 to 5R20  |                |                         | ✓                                |                          | ✓                                       |

\* AutoVue 2D Professional displays a 2-D projection of a 3-D model.

## Electronics & High Tech

| Vendor                                   | Product / File Format | File Type                 | Extensions                  | Versions  | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|--|-----------------------|---------------------------|-----------------------------|---|----------------|-------------------------|----------------------------------|--------------------------|---|
| SolidWorks                               |                       | Drawing                   | SLDDRW                      | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001+, 2001, 2000, 99, 98, 97                 |                | ✓                       | ✓                                |                          | ✓                                       |
| SolidWorks                               |                       | Part, Assembly            | SLDPRT, SLDASM              | 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001+, 2001, 2000, 99, 98, 97                 |                |                         | ✓                                |                          | ✓                                       |
| <b>Mentor Graphics</b>                   |                       |                           |                             |   |                |                         |                                  |                          |   |
| Board Station                            |                       | PCB, 3-D                  | ATTR, TAR, GZ, TGZ, ZIP     | 8.0 to 8.13   |                |                         |                                  | ✓                        | ✓                                       |
| Design Architect                         |                       | Schematics                | ATTR, TAR, GZ, TGZ, ZIP     | 8.0 to 8.13   |                |                         |                                  | ✓                        | ✓                                       |
| DxDesigner                               |                       | Schematics                | DPROJ, TAR, GZ, TGZ, ZIP    | 2005, 2004, 2002  |                |                         |                                  | ✓                        | ✓                                       |
| Expedition PCB                           |                       | PCB, 3-D                  | PRJ, PCB, TAR, GZ, TGZ, ZIP | 2005, 2004.x, 2002  |                |                         |                                  | ✓                        | ✓                                       |
| Expedition Design Capture                |                       | Schematics                | PRJ, SBK, TAR, GZ, TGZ, ZIP | 2005, 2004.x, 2002  |                |                         |                                  | ✓                        | ✓                                       |
| PADS Layout                              |                       | PCB, 3-D                  | ASC, PCB                    | 2007, 2005 Spac2 (Binary, ASCII), 2005 (Binary, ASCII), 5.0 (Binary, ASCII), 4.0 (ASCII)            |                |                         |                                  | ✓                        | ✓                                       |
| PADS Logic                               |                       | Schematics                | SCH, TXT                    | 2007, 2005 Spac2 (Binary, ASCII), 2005 (Binary, ASCII), 5.1(ASCII), 5.0 (Binary, ASCII), 4.0(ASCII) |                |                         |                                  | ✓                        | ✓                                       |
| <b>Parametric Technology Corporation</b> |                       |                           |                             |   |                |                         |                                  |                          |   |
| Pro/ENGINEER                             |                       | Drawing                   | DRW, FRM, PIC               | WildFire 5.0, WildFire 4.0, WildFire 3.0, WildFire 2.0, WildFire, 2001, 2000i2, 2000i, 20, 19, 18   |                |                         | ✓                                |                          | ✓                                       |
| Pro/ENGINEER                             |                       | Part, Assembly            | PRT, ASM, XPR, XAS          | WildFire 5.0, WildFire 4.0, WildFire 3.0, WildFire 2.0, WildFire, 2001, 2000i2, 2000i, 20, 19, 18   |                |                         | ✓                                |                          | ✓                                       |
| <b>Siemens PLM Software</b>              |                       |                           |                             |   |                |                         |                                  |                          |   |
| DirectModel (JT)                         |                       |                           | JT                          | 9.1, 8.1, 8, 7, 6.4   |                |                         | ✓                                |                          | ✓                                       |
| Solid Edge*                              |                       | Draft                     | DFT                         | ST2, ST, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6                                     |                | ✓                       | ✓                                |                          | ✓                                       |
| Solid Edge                               |                       | Part, Assembly            | PAR, ASM                    | ST2, ST, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6                                     |                |                         | ✓                                |                          | ✓                                       |
| Unigraphics                              |                       | Draft                     | PRT                         | NX6, NX5, NX4, NX3, NX2, NX1, 18, 17, 16  |                |                         | ✓                                |                          | ✓                                       |
| Unigraphics                              |                       | Part, Assembly            | PRT                         | NX6, NX5, NX4, NX3, NX2, NX1, 18, 17, 16, 15, 14, 13  |                |                         | ✓                                |                          | ✓                                       |
| <b>Zuken</b>                             |                       |                           |                             |   |                |                         |                                  |                          |   |
| CADIF                                    |                       | PCB, 3-D                  | PAF                         | 3.0 to 8.0  |                |                         |                                  | ✓                        | ✓                                       |
| CADSTAR Schematic                        |                       | Schematics                | SCM                         | 12.0, 11.0, 10.0, 9.0, 8.0, 7.0, 6.0, 5.0   |                |                         |                                  | ✓                        | ✓                                       |
| CADSTAR Layout                           |                       | PCB, 3-D                  | PCB                         | 12.0, 11.0, 10.0, 9.0, 8.0, 7.0, 6.0, 5.0   |                |                         |                                  | ✓                        | ✓                                       |
| CR-5000†                                 |                       | Schematics                | EDIF                        |   |                |                         |                                  | ✓                        | ✓                                       |
| <b>Exchange Formats</b>                  |                       |                           |                             |   |                |                         |                                  |                          |   |
| CGM                                      |                       | Binary, ASCII (ClearText) | CGM                         | 4, 3, 2, 1  |                | ✓                       | ✓                                |                          | ✓                                       |
| CGM - CALS compliant                     |                       |                           | CGM                         |   |                | ✓                       | ✓                                |                          | ✓                                       |

\* AutoVue only displays preview for Solid Edge Drawings.

† Format support is provided through an exchange format.

## Electronics & High Tech

| Vendor  | Product / File Format          | File Type           | Extensions           | Versions           | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|---|--------------------------------|---------------------|----------------------|--------------------|----------------|-------------------------|----------------------------------|--------------------------|---|
|   | EDIF                           | Schematics          | EDF, EDIF, EDN       | 4, 3, 2            |                |                         |                                  | ✓                        | ✓                                       |
|   | IDF                            | PCB, 3-D            | EMN, EMP, BRD, LIB   | 3.0, 2.0           |                |                         |                                  | ✓                        | ✓                                       |
|   | IFF                            | Schematics          | IFF                  | 3                  |                |                         |                                  | ✓                        | ✓                                       |
|   | IGES (2-D, 3-D)                |                     | IGES, IGS            | 5.3, 5.2, 5.1      |                | 2-D*                    | ✓                                |                          | ✓                                       |
|   | ODB++                          | PCB, 3-D            | TAR, GZ, TGZ, ZIP    | 7.0, 6.5, 5.3, 4.3 |                |                         |                                  | ✓                        | ✓                                       |
|   | ODB++(X)                       | PCB, XML            | XML, ODB             | 1.x                |                |                         |                                  | ✓                        | ✓                                       |
|   | STEP AP 203                    |                     | STP, STEP, STE, P21  |                    |                |                         | ✓                                |                          | ✓                                       |
|   | STEP AP 214                    |                     | STP, STEP, STE, P21  |                    |                |                         | ✓                                |                          | ✓                                       |
| <b>Others</b>   |                                |                     |                      |                    |                |                         |                                  |                          |   |
|   | Barco DPF                      | Artwork             | DPF, DPL             | 5.0                |                |                         |                                  | ✓                        | ✓                                       |
|   | Caltech Interchange Format CIF | Artwork             | CIF                  | 2                  |                |                         |                                  | ✓                        | ✓                                       |
|   | GDSII                          | Artwork (binary)    | GDS, GDS2, CAL, STRM | 2                  |                |                         |                                  | ✓                        | ✓                                       |
|   | Gerber Format                  | Artwork             | GBL, GBR, PHO        | RS274-D, RS274-X   |                |                         |                                  | ✓                        | ✓                                       |
|   | NC-Drill                       | Sieb Meyer Excellon | DRL, NCD             |                    |                |                         |                                  | ✓                        | ✓                                       |
| Refer to the <a href="#">Others</a> table for more formats. |                                |                     |                      |                    |                |                         |                                  |                          |   |
| <b>Desktop / Office</b>                                     |                                |                     |                      |                    |                |                         |                                  |                          |   |
| Refer to the <a href="#">Desktop / Office</a> table.        |                                |                     |                      |                    |                |                         |                                  |                          |   |
| <b>Graphics</b>   |                                |                     |                      |                    |                |                         |                                  |                          |   |
| Refer to the <a href="#">Graphics</a> table.                |                                |                     |                      |                    |                |                         |                                  |                          |   |

\* AutoVue 2D Professional displays a 2-D projection of a 3-D model.

## Desktop / Office

| Vendor  | Product / File Format                          | File Type | Extensions                | Versions   | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|---|--|-----------|---------------------------|--|----------------|-------------------------|----------------------------------|--------------------------|---|
| <b>Adobe</b>  |  |           |                           |  |                |                         |                                  |                          |   |
|   | Acrobat PDF                                    |           | PDF                       | 9.0, 8.0 (1.7), 7.0(1.6), 6.0(1.5), 5.0(1.4), 1.3, 1.2, 1.1, 1.0 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|   | Illustrator                                    |           | AI                        | 10, 9  | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
| <b>Microsoft</b>  |  |           |                           |  |                |                         |                                  |                          |   |
|   | Word for Windows                               |           | DOC, DOCX                 | 2007, 2003, 2002 (XP), 2000, 97, 95, 7, 6, 2.0                   | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|   | Excel  |           | XLS, XLT, XLW, XLSX, XLTX | 2007, 2003, 2002 (XP), 2000, 97, 95, 5, 4, 3, 2.1                | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|   | PowerPoint                                     |           | PPT, PPTX                 | 2007, 2003, 2002 (XP), 2000, 97, 95, 4.0, 3.X                    | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|   | Rich Text Format                               |           | RTF                       | 1.5  | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|   | VISIO  |           | VSD                       | 2007, 2003, 2002, 2000   | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|   | Microsoft Outlook                              |           | MSG                       |  | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
| <b>Others</b>   |  |           |                           |  |                |                         |                                  |                          |   |
|   | Plain Text (ASCII, UTF-8, Unicode, Multi-byte) |           | TXT                       |  | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
| Refer to the <a href="#">Others</a> table for more formats. |  |           |                           |  |                |                         |                                  |                          |   |

## Graphics

| Vendor | Product / File Format | File Type                         | Extensions                   | Versions | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|--------|-----------------------|-----------------------------------|------------------------------|----------|----------------|-------------------------|----------------------------------|--------------------------|---|
|        | CALS Group IV         | Type I, Type II (Tiled, Stripped) | CAL, CG4, MIL, ODA, MLR      |          | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | CompuServe GIF        |                                   | GIF, RLE                     |          | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | JEDMICS               |                                   | C4                           |          |                | ✓                       | ✓                                |                          | ✓                                       |
|        | JPEG                  |                                   | JPEG, JPG                    |          | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | JPEG2000              |                                   | JP2, JPF, J2K, J2C, JPC, JPX |          | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | OS/2 1.1 Bitmap       |                                   | BMP                          |          | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | PNG                   |                                   | PNG                          |          | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | TIFF                  |                                   | TIF, TIFF                    |          | Desktop Size*  | ✓                       | ✓                                | Desktop Size*            | ✓                                       |
|        | Windows Metafile      |                                   | WMF                          | 3        | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | Windows Bitmap        |                                   | BMP                          |          | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |

Refer to the [Others](#) table for more formats.

\* Desktop size TIFF – maximum size is 32000 x 32000 pixels.

## Others

| Vendor | Product / File Format   | File Type     | Extensions              | Versions        | AutoVue Office | AutoVue 2D Professional | AutoVue 3D Professional Advanced | AutoVue EDA Professional | AutoVue Electro-Mechanical Professional |
|--------|-------------------------|---------------|-------------------------|-----------------|----------------|-------------------------|----------------------------------|--------------------------|---|
|        | AIIM MS53               | GP III, GP IV | A11                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | CAD Overlay             |               |                         | 2000i, 2000, 14 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | Dr. Halo PIC            |               | PIC                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | Enhanced Metafile       |               | EMF, EMZ (Compressed)   |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | GZip Archive            |               | GZ                      |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | Hitachi Tracer          |               | DWG, HRF                |                 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | IBM IOCA/MODCA          |               |                         |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | Image Center            |               | GP4                     |                 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | Image Systems           |               | DWG, GP4, RES, RLC      |                 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | Intergraph COT          |               | CIT, COT, RGB, RLE, TG4 |                 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | Intergraph Hybrid       |               | CIT, COT, DGN           |                 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | IRAS/B                  |               |                         |                 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | Neutral Raster File     |               | NRF                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | Paintbrush PCX          |               | PCX                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | PCL                     |               | PCL, PRN                | 5               | ✓              | ✓                       | ✓                                |                          | ✓                                       |
|        | Portable Bitmap         |               | PPM                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | RLC File                |               | RLC                     |                 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | Softelec RasterDWG      |               | DWG                     |                 |                | ✓                       | ✓                                |                          | ✓                                       |
|        | TAR Archive             |               | TAR                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | TARGA                   |               | TGA                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | Windows 3 Icon-Resource |               | ICO                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | X-Windows Dump          |               | XWD                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |
|        | ZIP Archive             |               | ZIP                     |                 | ✓              | ✓                       | ✓                                | ✓                        | ✓                                       |

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