

Appendix D

Exporting AGTEK Data

Overview of Exportable File Types

AGTEK data can be exported in many different formats. Select an export format compatible with the intended use of the exported data, per the export options overview below (and, for a good overview demonstration of various export methods specifically intended for GPS machine control, watch AGTEK's online training video at www.agtek.com/trainingvideos/Earthwork4DGPSExport.html) . . .

DWG / DXF (CAD) Files This format is best when AGTEK data is to be used in a CAD system such as AutoCAD, MicroStation, Terramodel, etc. (page 217). DWG/DXF files can also be used to export elevation contours to Autodesk Revit BIM (page 219) and a 3D surface to SketchUp (page 224). Finally, DWG/DXF files can be used to export data for use with grade control systems, including Leica (page 228), Topcon (page 229), and Trimble (page 232).

AGT (Coordinate Text) Files This **PNEZ** format is a good choice when exporting data to be used with AGTEK software, including subsets of *Data Lines*, entire surfaces, *Stake Lists* for field stakeout, *Benchmark* control points, or *Job Files* for AGTEK's legacy Graphic Survey program (page 225).

CSV (Coordinate Text) Files The **PNEZ** version of this comma-delimited format is similar to that of the AGT file, but is a better choice when transferring data to third-party survey applications such as Topcon, Carlson, etc. (pages 227, 231). The **XYZ** version of this format can be used to export contours *and* sloping data lines (all as 3D points) to Autodesk Revit BIM (page 220).

HMC3D / iCON (Leica) Files These specialized 3D DWG/DXF files are used with Leica grade control systems (page 228).

LN3 / TN3 (Topcon) Files These 2D and 3D files are used with Topcon grade control systems (page 229).

TTM (Trimble) Files These 3D files are used with Trimble grade control systems (page 232).

XML Files (4D 1.13+) These LandXML text files may contain site surface data (pages 228, 230) or highway alignments and cross-sections data (page 231).

KMZ (Google Earth) Files (4D, GradeModel 3D, PDF-Enabled SiteModel 3D only) These files are used to upload AGTEK cut/fill maps/quantities/plan sheet images to Google Earth (page 221).

ADF (AGTEK) Mobile Files (4D only) These files can be used to export surface data (although KMZ is more commonly used) and/or higher-resolution plan sheet images (vs. KMZ) for AGTEK's SmartDirt, SmartPlan and SmartGrade mobile products (see the online video at www.agtek.com/trainingvideos/smartplanadf.html).

ESW (AGTEK) Files This is the format used for AGTEK's Graphic Grade 3D, SiteModel GPS and the older 3D-based mobile PlanPilot products. Other than 3D's ESW file export option for PlanPilot (select **File > PlanPilot Export**), these AGTEK products simply read the native AGTEK ESW job file. (For AGTEK's Graphic Grade Machine Control product, an *Aligned* ESW file is written from AGTEK's Machine Control Setup program—see the AGTEK Machine Control users manual.)

ESZ (AGTEK) Files ZIP export format for AGTEK ESW data file (select **File > Save As** from menu and select **AGTEK SiteWork Zip Files** for *Save as type*). Earthwork 4D ver. 1.10+ (but not Earthwork 3D) offers the additional option of attaching any open background images (PDF, etc.) to the exported ESZ file. AGTEK 3D/4D programs can directly read and write ESZ files.