

Over 300 supported GIS, CAD, graphic and database formats

Cadcorp SIS® directly reads and/or writes to over 300 (writes to over 50) native GIS, CAD, graphic and database formats 'out of the box', without translation, as standard.

As a result, organisations benefit from:

- Maximised investment in existing data
- Higher levels of data interoperability
- Easier integration of legacy data
- Improved productivity by avoiding data translation

Note: The list does not include country specific file formats developed by Cadcorp partners

Supported Vector File Formats - Read

Autodesk

AutoCAD DWG (up to and including AutoCad 2018) (*.dwg)
AutoCAD DXF (up to and including AutoCad 2018) (*.dxf)
AutoCAD Design Web Format (*.dwf)

Bentley

Bentley MicroStation DGN V8 (*.dgn)

Cadcorp

Cadcorp Base Dataset (*.bds)
Cadcorp Item Database (*.idb)
Cadcorp Feature Database (*.fdb)
Cadcorp Shared Dataset File (*.sds)
Cadcorp View Points
Cadcorp OS MasterMap Database (*.odb)
Cadcorp SIS Graphics File (*.sgf)

ESRI

ESRI ARC/INFO Export (ASCII) (*.e00)
ESRI Personal Geodatabase (*.mdb)
ESRI Shape (*.shp)
ESRI File Geodatabase
ESRI ARC SDE (Oracle)

Geographic Objects for JSON (GeoJSON)

Geographic Objects for JSON (GeoJSON) (*.geojson, *.json;*.txt)
Topological Objects for GeoJSON (TopoJSON) (*.json;*.topojson)

Intergraph

Intergraph GeoMedia Access Warehouse (*.mdb)

MapInfo

MapInfo TAB (*.tab)
MapInfo Interchange Format (*.mif)

Open Geospatial Consortium

OGC GML 2.1.x, 3.1.1 (*.gml)
OGC GeoPackage (*.gpkg)
OGC CityGML (*.gml)
OGC KML Document (.kml, .kmz)
GeoRSS (*.xml)
OGC OWS Context Document (*.cml, *.ccml, *.xml)

OpenStreetMap

OpenStreetMap XML (*.osm, *.xml, *.bz2)
OpenStreetMap Tiles (local)

Safe Software (FME)

Feature Manipulation Engine (FME) ††
FME Feature Store file (*.ffs)

SIA

SIA dataMap Export (*.adp)

Oracle

Oracle Network Model

Ordnance Survey Great Britain: OS (GB)

OS MasterMap Address Layer (*.gml; *.gz)
OS MasterMap Address Layer 2 (*.gml; *.gz)
OS MasterMap Integrated Transport Network Layer (*.gml; *.gz)
OS MasterMap Greenspace Layer (*.gml; *.gz)
OS MasterMap Highways Network (*.gml; *.gz)
OS MasterMap Topographic Layer (*.gml; *.gz)
OS MasterMap Sites Layer (*.gml; *.gz)
OS MasterMap Water Network (*.gml; *.gz)
OS (GB) ADDRESS-POINT (10cm resolution) (*.ntf; *.csv; *.ap)
OS (GB) BaseDataGB (*.ntf)
OS (GB) BoundaryLine 96 2000 (*.ntf)
OS (GB) Code-Point (*.csv)
OS (GB) Common Internal Transfer File CITF Topo 93 (*.ctf)
OS (GB) Common Internal Transfer File CITF Topo 96 (*.q1, *.q2)
OS (GB) Data-Point (*.ntf)
OS (GB) Land-Form PROFILE contours 1:10000 (*.ntf)
OS (GB) Land-Form PANORAMA contours 1:10000 (*.ntf)
OS (GB) Land-Line 1:1250, 1:2500, 1:10000 (*.ntf)
OS (GB) Meridian 1:10000 (*.ntf)
OS (GB) Meridian 2 (*.shp)
OS (GB) OSCAR Road Network (*.ntf)
OS (GB) Positional Accuracy Improvement Link File (*.csv)
OS (GB) Post Office Address File (10m resolution) (*.paf)
OS (GB) Strategi (*.ntf)
OS (GB) Travelmaster (*.ntf)
OS (GB) VectorMap Local (*.gml; *.gz)
OS (GB) VectorMap Local GeoPackage (*.gpkg)
OS (GB) VectorMap District (*.gml; *.gz)
OS (GB) Open Greenspace (*.gml; *.gz)
OS (GB) Open Rivers (*.gml)
OS (GB) Open Roads (*.gml)
OS (GB) OpenMap – Local (*.gml)

OS (GB) Zoomstack GeoPackage (*.gpkg)
OS (GB) Zoomstack Mapbox MBTiles (*.mbtiles)

Ordnance Survey of Northern Ireland: OSNI

Land & Property Services Northern Ireland (*.ntf)

Ordnance Survey Ireland: OSI

Ordnance Survey Ireland (*.ntf)

USA National datasets

Spatial Data Transfer Standard (SDTS) (*.ddf)

US Census Bureau TIGER/Line (*.bw1;*.rt1)

USGS DLG3 Optional format (ASCII) (*.opt)

Other

AAANAS GML (*.xml)

Adobe Portable Document Format (*.pdf)

ASCII Text Format (XYZ) (*.txt)

ASPRS LAS (*.las, *.laz)

Binary Point Format (*.bpf)

Digital Chart of the World

Digital Nautical Chart (DNC)

EuroNav Geographic Exchange format (*.gxf)

FICC Rustica (*.p,*.s,*.t,*.x)

FICC Urbana (*.p,*.s,*.t,*.x)

Google Sketchup (32-bit only) (*.skp)

Google Transit Feed Specification (GTFS) (*.zip)

GPS Exchange Format GPX (*.gpx)

Italian Cadastral Exchange Format (CXF) (*.cxf)

KF85 (Sweden) (*.k85)

Leica Cyclone PTS (*.pts)

Light Detection and Ranging (LIDAR) (*.las)

MIDAS XML (GB only) (*.xml)

NextMap Britain Contours (*.ntf)

NGA Vector Map Level 0/1

PDAL Pipeline (*.json)

Open Source Routing Machine (OSRM) Database (*.OSRM)

S57 Electronic Navigational Chart Catalog (*.030; *.031)

S57 Electronic Navigational Chart (*.000)

SBET (*.sbet)

SNODAS (*.hdr)

TerraSolid bin (*.bin)

XY/XYZ (*.xy;*.xyz)

Supported Raster Formats - Read

Cadcorp

Cadcorp Basemap Database (*.bdb)
Cadcorp Tile Database (*.tdb)
Cadcorp Web Map Layers Tile Cache (CacheMetadata.json)

ESRI

ESRI ARC/INFO ASCII Grid (*.asc)
ESRI ARC/INFO Binary Grid (*.adf, *.hdr.adf)
ESRI Band Interleaved By Line (*.bil)
ESRI Band Interleaved By Pixel (*.bip)
ESRI Band Sequential (*.bsq)
ESRIHDR labelled dataset (*.hdr)

ERDAS

Erdas Imagine (*.img)
Erdas Imagine Raw Raster (*.raw)
Erdas LAN/.GIS Raster File (*.lan, *.gis)

Earth Resource Mapping

ER Mapper (*.alg)
ER Mapper Enhanced Compression Wavelet (*.ecw)
ER Mapper labelled dataset (*.ers)

EXIF

EXchangeable Image Format (*.jpg; *.jpeg)

Intergraph

Intergraph Raster Image (*.rle; *.cit, *.cot)

LizardTech

MrSID (*.sid)

PCI

PCI Geomatics Database File (*.pix)
PCI .aux Labelled (*.aux *.raw)

Open Geospatial Consortium

OGC Web Coverage Service (WCS)
OGC Web Map Context Document (*.cml;*.ccml;*.xml)

Oracle

GeoRaster 10g or later

Ordnance Survey Great Britain: OS (GB)

OS (GB) BaseData GB 1:625000 (*.ntf)
OS MasterMap Imagery Layer (*.gml; *.gz)
OS (GB) LandForm PROFILE (*.ntf)
OS (GB) LandForm DTM 1:1000, 1:50000 (*.ntf)
OS (GB) LandForm PANORAMA DTM 1:50000 (*.ntf)

Ordnance Survey Ireland: OSI

OSI DTM (*.ntf)
OS Ireland 20km x 20km Height Data (*.dtm)
SPOT Digital Image (DIMAP) (METADATA.DIM)

Refractions Research

PostGIS Raster

USA National datasets

USGS DLG-3 (*.do, *opt)
USGS Digital Elevation Model (1 degree) (*.dem)
USGS Digital Orthophoto Quadrangles (New Style) (*.doq; *.nes; *.nws; *.ses; *.sws)
USGS Digital Orthophoto Quadrangles (Old style) (*.doq; *.nes; *.nws; *.ses; *.sws)
USGS GTOPO30 (*.hdr)
USGS Optional ASCII DEM (*.dem)
USGS Land Use and Land Cover (LULC) Composite Theme Grids (*.gz)
USGS SDTS DEM (*.cad; *.ddf)
USGS SRTM30 (*.hdr, *.dem)

Other

ACE2 Global Digital Elevation Model (*.ace2, *.gz)
ARC Digitized Raster Graphics (ADRG) (*.gen; TRANSH01.thf)
ARC Standard Raster Product (ASRP) (*.gen; *.img)
ASRP (*.img, TRANSH01.THF)
ATM QFIT (*.qi)
Atlantis MFF HKV Raster (*.hdr)
Atlantis MFF Raster (*.hdr)
Bathymetric Attributed Grid (*.bag)
Binary Terrain Format (*.bt; *.prj)
B&W TIFF with antialiasing (*.tif; *.tiff)
Compressed ARC Digitized Raster Graphics (CADRG) (*.toc)
CEOS SAR Image file (*.img)
Computer Aided Acquisition and Logistics Support (*.cal, *.cals, *.ras)
Digital Terrain Elevation Data (DTED) (*.dt0; *.dt1, *.dt2, *.dt3)
Enhanced Compressed Raster Graphic (TOC.xml)
ENVI .hdr Labelled (*.evi.gz)
ENVISAT Image (*.n1)
EOSAT FASTL7A (Landsat TM) (*.fst, *HRF.fst, *HTM.fst, *HPN.fst)
ETOPO1 Global 1minute Gridded Elevation Data
ETOPO2 Global 2minute Gridded Elevation Data (*.dos)
ETOPO5 Global 5minute Gridded Elevation Data (*.bin, *.dos, *.bat)
FARSITE v4 Landscape File (*.lcp)
GDAL Virtual Raster Dataset (*.vrt)
Geosoft Grid Exchange Format (*.gxf)
GIF (*.gif)
Global Land One-kilometer Base Elevation (GLOBE) database (*.glb)
GMT netCDF Grid Format (*.grd)
Golden Software ASCII Grid (*.grd)
Golden Software Binary Grid (*.grd)
Golden Software 7 Binary Grid (*.grd)
GRASS ASCII Grid (*.asc)
Gridded Binary (GRIB) (*.grb, *.grb1))
Gridded Binary v.2(GRIB2) (*.grb2)
Hierarchical Data Format (HDF) Release 4 (*.hdf)
Hierarchical Data Format (HDF) Release 5 (*.hdf, *.hdf5, *.h5, *.he5)
IDA (*.ida, *.img)
IDRISI Raster Format (*.rst)
ILVIS2 (*.txt)
ILWIS Raster Maps and Map Lists (*.mpr, *.mpl)
Japanese Aerospace eXploration Agency PALSAR Processed Products (*.5_UD)

JAXA PALSAR Processed Products (VOL-*1.5_UD)
JPEG (*.jpg)
JPEG 2000 (GDAL/Kakadu) (*.jp2;*.j2k;*.jpc;*.jpx;*.j2c)
MBTiles (*.mbtiles)
National Imagery Transmission Format (NITF) (*.ntf; *.i12, *.jn2, *.lf2, *.on2, *.nsf)
NextMap Britain DSM(*.ntf)
NextMap Britain DTM (*.ntf)
NetCDF (Network Common Data Format) Grid Format (*.grd, *.nc)
NOAA/MAPTECH/NDI/SoftChart BSB (*.kap; *.nos)
NOAA Polar Orbiter Level 1b Data Set (AVHRR instrument) (*.l1b, *.1b)
Northwood/VerticalMapper Numeric Grid Format (*.grd)
Northwood/VerticalMapper Classified Grid Format (*.grc)
Optech Corrected Sensor Data (*.csd)
PCRaster Raster Format (*.map)
PNG (*.png)
R Raster (*.grd)
RasterLite (*.sqlite)
Raw raster data (*.raw)
RLC Bitmap (*.rlc)
Shuttle Radar Topographic Mission SRTM (*.hgt, *.hgtz)
Snow Data Assimilation System (*.hdr)
Targa Image File (*.tga)
TIFF/GeoTIFF (*.tif;*.tiff) – includes compressed variants LZW, packbits etc.
Vaisala Sigmet Interactive Radar Information System (IRIS) (*.dat)
Vexcel MFF Raster
Windows Bitmap (*.bmp)
Windows Metafile (*.wmf)
Worldwide Digital Terrain Data (TerrainBase) (*.bin)
Zsoft paintbrush (*.pcx)
ZMap Plus Grid (*.dat)

Supported Document Formats - Write

Adobe Portable Document Format (*.pdf) – including Terrago Technologies
geoPDF
Comma Separated Values (*.csv)
Encapsulated PostScript (*.eps)
HTML (*.htm)
Scalable Vector Graphics (*.svg)
Text file (*.txt)
XML Paper Specification (*.xps)

Supported Vector Formats - Write

Autodesk

AutoCAD DWG (up to and including AutoCad 2018) (*.dwg)
AutoCAD DXF (up to and including AutoCad 2018) (*.dxf)
AutoCAD Design Web Format (*.dwf)

Bentley

Bentley MicroStation DGN V8 (*.dgn)

Cadcorp

Cadcorp Base Dataset (*.bds)
Cadcorp Item Database (*.idb)
Cadcorp Feature Database (*.fdb)
Cadcorp Tile Database (*.tdb)

ESRI

ESRI Shape (*.shp)

EuroNav

EuroNav Geographic Exchange format (*.gxf)

Safe Software

Feature Manipulation Engine (FME) ††
FME Feature Store file (*.ffs)

MapInfo

MapInfo Interchange (*.mif)
MapInfo Table (*.tab)

Open Geospatial Consortium

OGC GML 2.1.2 (*.gml, *.gz)
OGC GML 3.1.1 (*.gml, *.gz)
OGC GML 3.2.1 (*.gml, *.gz)
OGC GeoPackage (*.gpkg)
OGC KMZ (Compressed KML) (*.kml, *.kmz)
OGC Web Map Context (*.cml)
OGC Web Map Context Collection (*.ccml)

Oracle

Oracle Network Model

Ordnance Survey Great Britain: OS (GB)

OS (GB) CITF File (Topo 96) (*.q1)
OS (GB) (*.ntf)

Other

Geographic Objects for JSON (GeoJSON) (*.json;*.geojson)
GeoRSS (*.xml)
Italian Cadastral Exchange Format (CXF) (*.cxf)
National Imagery Transmission Format (NITF) (*.nitf)
Scaleable Vector Graphics (*.svg)
Scaleable Vector Graphics gzipped (*.svgz)
Scaleable Vector Graphics Tiny (*.svg)
Scaleable Vector Graphics Tiny gzipped (*.svgz)

Supported Raster Formats - Write

Cadcorp

Cadcorp Basemap Database (*.bdb)

ESRI

ESRI/ARCInfo ASCII Grid (*.asc)

ESRI Band Interleaved by Line (*.bil)

ESRI BIL (Greyscale) (*.bil)

ESRI BIL (Palette) (*.bil)

ESRI BIL (RGB) (*.bil)

Oracle

Oracle GeoRaster 10g or later

Refractions Research

PostGIS Raster

Other

Binary terrain Format Grid (*.bt)

Bitmap (*.bmp)

Dithered Bitmap (*.bmp)

ENVI .hdr Labelled Raster (*.evi)

ERDAS ER Mapper Enhanced Compression Wavelet (*.ecw)

ERDAS Imagine (*.img)

GMT netCDF Grid Format (*.grd)

GIF (*.gif)

Geo Tiff Grid (*.tif)

Golden Software ASCII Grid (*.grd)

Golden Software 7 Binary Grid (*.grd)

Golden Software Binary Grid (*.grd)

JPEG Grayscale (*.jpg)

JPEG RGB (*.jpg)

JPEG 2000 (*.jp2; *.j2k, *.jpc, *.jpx, *.j2c)

National Imagery Transmission Format (NITF) (*.ntf)

PCI .aux Labelled (.raw)

PCI Geomatics Database File (*.pix)

PNG (Grayscale) (*.png)

PNG Palette (*.png)

PNG (RGB/RGBA) (*.png)

PostGIS Raster

TIFF/GeoTIFF (*.tif; *.tiff) – includes compressed variants such as LZW, Packbits etc.

TIFF (B&W) (*.tif)

TIFF (Grayscale) (*.tif)

TIFF (Palette) (*.tif)

TIFF (RGB) (*.tif)

WebP (*.webp)

Windows Metafile (*.wmf)

Services

Cadcorp

Cadcorp GeognoSIS Tile Set (*.tileset)
Cadcorp Basemap Database served as Basemaps in GeognoSIS
Cadcorp Tile Database served as Basemaps in GeognoSIS

ERDA

ERDAS APOLLO Essentials Image Web Server

ESRI

ESRI ArcIMS Image Service
ESRI ArcIMS Feature Service

Geographic Objects for JSON (GeoJSON)

Geographic Objects for JSON (GeoJSON) (*.geojson, *.json;*.txt)
TileJSON

Google

Google Maps (Hybrid)
Google Maps (Road Map)
Google Maps (Satellite)
Google Maps (Terrain)

Microsoft

Azure Maps (Basic)
Azure Maps (Hybrid)
Azure Maps (Labels)
Azure Maps (Satellite)
Bing Maps Tiles (Aerial with Labels)
Bing Maps Tiles (Aerial)
Bing Maps Tiles (Roads)

NASA

NASA World Wind global datasets

Open Geospatial Consortium

OGC Web Map Service (WMS)
OGC Web Map Tile Service (WMTS)
OGC Web Feature Service (WFS)

OpenStreetMap

OpenStreetMap Tile Services

Ordnance Survey Great Britain: OS (GB)

OS (GB) OpenSpace Pro Tiles

OSGeo

OSGeo Tile Map Service

Stamen Design

Stamen Design 'Terrain' tiles
Stamen Design 'Toner lite' tiles
Stamen Design 'Toner' tiles
Stamen Design 'Watercolor' tiles

Other

GDAL Web Map Service XML (*.wmsxml)

Database - Spatial Data Storage

Cadcorp

Cadcorp SIS ASCII BLOB format (Any Supported Database – read only)

Open Geospatial Consortium Specified Server Formats

OGC Well-known Binary (WKB) format (Any Supported Database)

OGC Well-known Text (WKT) format (Any Supported Database)

OGC Geography Markup Language (GML) format (Any Supported Database)

OGC SQL92 (Any Database)

ESRI

ESRI ArcSDE (Oracle - read only)

Microsoft

SQL Server Spatial 2008, 2012, 2016, 2017

Oracle

Oracle 9i, 10g, 11g, 12c or 18c

Oracle 10g or later GeoRaster (read and write)

Oracle 10g or later Network Model (read and write)

Oracle Application Server MapViewer (read only)

Refractions Research

PostGIS 1.* and 2.*

PostGIS Raster

Links to External Databases

Any ODBC, DAO or ADO compliant database or file format, including:
Microsoft Access 2000 or later (*.mdb, *.accdb)
SQLite (*.db, *.db3, *.sqlite, *.sqlite3)
Microsoft Excel 2010 or later (*.xlsx)
Microsoft SQL Server

Direct Database Drivers

Oracle 9i or later
PostgreSQL 8.0 or later

Notes:

†† Requires purchase of Safe Software FME

Further Information

- Visit cadcorp.com
- email: sales@cadcorp.com