



# CITY OF TAMPA

## 3.8.1.1. – Software Platforms and Data Formats Technology & Innovation Department

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### TITLE

#### 3.8.1.1. – SOFTWARE PLATFORMS AND DATA FORMATS

### HISTORY

Status	Date	Author	Approving Manager
Version 1.0	01/08/2010	K. Wright and G. De Stoppelaire	R. Austin

### DESCRIPTION

CoT GIS harnesses the functionality of Oracle for maintenance of such features and activities as topology, cartographic representation and versioning. It is critical to preserve the integrity and consistency of all defined rules and settings. Agencies responsible for data maintenance should use this standard for all GIS data activities.

The City supports the following geospatial software platforms:

- MapInfo (Pitney Bowes)
- ArcGIS (ESRI)
- AutoCAD (Autodesk)
- Microstation (Bentley Systems)
- Oracle Locator (Oracle)
- Munsys (Munsys)
- Google Earth Enterprise (Google)
- iSmart (eSpatial)

Note: Evaluation of Oracle Spatial is underway.

Note: The City does not support Bing, Smallworld, Delorme, Rand McNally or MapQuest. The use of both MapXtreme and Yahoo maps are being phased out.

For spatial extract, transform and load (ETL) processes, CoT GIS supports the use of FME (Safe Software).

The following file formats are supported:

#### **Image:**

- TIFF
- JPG
- JPEG
- PNG
- GeoPDF (TerraGo)
- PDF
- Geospatial PDF (Adobe)

#### **Raster:**

- GeoTIFF
- ECW



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Note: CoT GIS will assist departments in acquiring JPEG2000 or MrSID files however, the City does not support JPEG2000 or MrSID file formats.

#### **Vector:**

- ESRI Shapefile – all of these files are fundamental for a shapefile:
  - .dbf (Required)
  - .shp (Required)
  - .shx (Required)
  - .prj
  - .shp.xml
  - Each file must have the same prefix. (e.g., Roads.shp, Roads.shx, and Roads.dbf).
  
- MapInfo – all of these files are required for a MapInfo file:
  - .DAT (Required)
  - .ID (Required)
  - .IND
  - .MAP (Required)
  - .TAB (Required)
  - Each file must have the same prefix. (e.g., Roads.DAT, Roads.ID, Roads.MAP, and Roads.TAB).
  
- Microstation CAD v7+ file:
  - .dgn
  
- AutoCAD dwg v9+ files:
  - .dwg
  - .dxf
  - Autodesk Land Development Desktop DWG files and all associated Land Desktop project data files and directory structures (e.g., .dfm, .mdb, .ly, .dat, .xsb, .xst, .eds, .pnt, .sdf, .tin, .bin, .cgs, .gcf, .tcd, .tcp, .tdf, .vrt, .xsd, .xsp, .pst, .dbf, .cof, .slp, .tpl, and .sub).

#### **Geospatial Metadata:**

- XML
- .shp.xml (ESRI metadata in XML format)

## REFERENCE

The standard described above has been developed internally by the City of Tampa. The standard is part of the T&I Service Catalog.

[City of Tampa – T&I Service Catalog](#)