How do I get OS MasterMap ® into GIS or CAD?

OS MasterMap ® Topography Layer

OS MasterMap ® Topography Layer is available in a number of different formats:

- **File Geodatabase** - this is a proprietary GIS data format developed by ESRI but can be read by other GIS applications including QGIS.
- **GML** - Ordnance Survey deliver OS MasterMap ® Topography Layer in GML format. This format can be read by most GIS/CAD applications although steps are usually required to convert it in to a more usable format.
- **DWG** - this is the native drawing format for AutoCAD although it can be read by most CAD applications including Vectorworks and ArchiCAD.

To specify **which** format you want to get your data in please follow the instructions in our blog post.

How you get this data in to your GIS/CAD system depends on the format of the data you have downloaded and the tools available to convert the data. The tables below list suggested and alternative methods for each of the main GIS/CAD packages.

Please check what software is already available to you locally before downloading and installing other software. You may find that appropriate conversion software is already supplied by your institution. Please ask your local Digimap Site Representative for details.

ArcGIS

Suggested Method	Download the data in ***File Geodatabase*** format and open in ArcGIS through the Add Data button. No conversion is required.
Alternative Methods	Download the data in ***GML*** format then: 1. use Productivity Suite to convert the data to geodatabase format; 2. use InterpOSe to convert the data to shapefiles; 3. convert the data using ArcToolbox > Conversion Tools > To Geodatabase > Feature Class to Geodatabase (multiple) ; 4. convert the data using ArcToolbox > Data Interoperability Tools > Quick Import ; 5. use the Add Data button to display the GML directly.

AutoCAD

Suggested Method	Download the data in ***DWG*** format and then open in AutoCAD. No conversion is required. Note this data has a default representation and attributes are stored as extended object data, xdata
Alternative Methods	If you want more control over the imported data or want to view attributes, you should download the data in ***GML*** format then use one of the methods below: 1. import the data in to the AutoCAD MasterMap template. 2. use InterpOSe to convert the data to DWG or DXF format. **Note**: InterpOSe does not run on Mac computers.

MapInfo

Suggested Method	Download the data in ***GML*** format and then import in to MapInfo using the Table > Import command.
Alternative Methods	Download the data in ***GML*** format then: 1. use InterpOSe to convert the data to TAB format; 2. use OSM2MIF to convert the data to MIF/MID, then use the Table > Import command to convert the MIF/MID to TAB format.

QGIS

Suggested Method	Download the data in ***File Geodatabase*** format and open in QGIS through the Add Vector Layer function. No conversion is required. **Note:** File Geodatabase format is not compatible with QGIS on Mac computers.
Alternative Methods	QGIS is able to read a number of common GIS formats including GML and Shape. Alternative methods are listed below: 1. Download the data in ***GML*** format and open through the Add Vector Layer function. No conversion is required. 2. Download the data in ***GML*** format and use the OS Translator plugin created by Lutra Consulting to convert the data in to shapefiles. 3. Download the data in ***GML*** format and use InterpOSe to convert the data to shapefiles. 4. Download the data in ***GML*** format and use Productivity Suite to convert the data to geodatabase format.

OS MasterMap ® Integrated Transport Network™ (ITN) Layer

OS MasterMap ® Integrated Transport Network™ (ITN) Layer is available in GML format. In order to build a topological network from the data we recommend using Productivity Suite produced by ESRI UK, although other GIS and CAD packages may be able to read the raw GML data.

Obtaining Software

1. **Productivity Suite** can be obtained from your local institution if they subscribe to the Esri/Eduserv site licence agreement. Contact your Digimap Site Representative or email Eduserv to find out who your local Esri/Eduserv contact is to find out if you have access to this software. If your institution subscribes to the Esri/Eduserv agreement this software will be available for free from your local institution. If you already have a licence for Productivity Suite, but want the latest version, it is available for download from the Esri UK website.
2. **InterpOSe** for Digimap can be downloaded for free from the miso web site after registration at: http://misoportal.com/data/interpose-for-digimap/ .
3. A wide range of Autodesk software, including **AutoCAD** and **AutoCAD Map 3D**, is free for educational use and can be downloaded from the Autodesk website.
4. **OSM2MIF** can be downloaded from the following websites:
    - Free Mapping Tools (Nigel James' own website): http://freemappingtools.yolasite.com/
    - Bodleian Map Library at the University of Oxford: http://www.bodleian.ox.ac.uk/maps/making-maps
5. The latest version of **QGIS** can be downloaded from the QGIS website.

Not found what you are looking for? Please ask a question or give feedback by emailing (edina@ed.ac.uk) or phoning (0131 650 3302) the EDINA Helpdesk.

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