



Ordnance Survey

# OS MasterMap Greenspace

Product guide

# OS MasterMap Greenspace Layer

## Product Guide

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## Preface

This product guide (hereafter referred to as the guide) is designed to provide an overview of OS MasterMap Greenspace Layer (hereafter referred to as the product) and it gives guidelines and advice on how a customer might derive the maximum benefit from the product. It assumed a general knowledge of geographic information. If you find an error or omission in this guide or otherwise wish to make a comment or suggestion on how we can improve the guide, please contact us at the address shown below under contact details or complete the product and service performance report form in the annexe.

## Contact details

Our Customer Service Centre will be pleased to deal with your enquiries:

Customer Service Centre  
Ordnance Survey  
Adanac Drive  
SOUTHAMPTON  
SO16 0AS

General enquiries (calls charged at local rate): +44 (0)3456 05 05 05

Dedicated Welsh Language HelpLine: 03456 05 05 04

Textphone (deaf and hard of hearing users only please): +44 (0)2380 05 6146

customerservices@os.uk

www.os.uk

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## Back-up provision of the product

You are advised to copy the supplied data to a backup medium.

## Using this guide

The documentation is supplied in portable document format (PDF) only. Free Adobe® Reader® software, which displays the specification, incorporates search and zoom facilities and allows you to navigate within. Hyperlinks are used to navigate between associated parts of the specification and to relevant Internet resources by clicking on the blue hyperlinks and the table of contents.

# Chapter 1 Introduction

## Product Guide

This guide contains an overview of the OS MasterMap Greenspace product and basic information needed to understand, use and manage the product. For more detailed technical information and data format specification, please see the [technical specification](#) and getting started guides.

## Product Overview

OS MasterMap Greenspace Layer gives a comprehensive view of the greenspaces within an urban area. The dataset comprises of topographic areas published in OS MasterMap Topography Layer, with additional greenspace-specific attribution to describe their function. It includes both publicly accessible and private green spaces, sports facilities and natural environment features, to give a comprehensive view of spaces that are important for applications such as, environmental management, health, planning or habitat mappings. This product is designed for PSMA/OSMA customers with these uses in mind.

## Key features

The key features of the MasterMap Greenspace Layer are:

- comprehensive coverage of the natural environment in major urban areas
- identifies green spaces, both public and private
- built from a sub-set of OS MasterMap Topography Layer and retains the detailed features from this product and their positional accuracy
- inclusion of OS MasterMap Topography Layer TOID attribute to allow links between these MasterMap products
- information on both form and function of the greenspace areas to better describe the environment of these spaces
- ability to relate to the Open Greenspace product through the Greenspace ID's
- space for up to two forms and two function categories to allow for complex land areas

## Applications

MasterMap Greenspace supports a wide range of customer applications that use Geographical Information. The product can be used alone or combined with other Ordnance Survey products, such as Topography Layer, Sites Layer and the Open Greenspace product. Applications of the MasterMap Greenspace product include, but are by no means limited to:

- providing detailed data to support audit, policy, planning, environmental planning, and research
- analysing air quality and use of amenities
- managing and planning green spaces efficiently
- evaluating Britain's natural habitat and environment
- encouraging activity for all, improving mental and physical health

## Positional Accuracy

Since MasterMap Greenspace is a subset of topographic areas from Topography Layer, it will inherit the positional accuracy from that product.

For a full explanation on OSMM Topography Layer accuracies please see [OSMM Topography Technical Specification](#).

## Reference System

Open Greenspace uses the British National Grid (BNG) spatial reference system. BNG uses the OSGB36 geodetic datum and a single Transverse Mercator projection for the whole of Great Britain. Positions on this projection are described using easting and northing coordinates in units of metres.

A guide to coordinate systems in Great Britain is available at:

<http://www.ordnancesurvey.co.uk/docs/support/guide-coordinate-systems-great-britain.pdf>

A general introductory guide to BNG is provided at:

<http://www.ordnancesurvey.co.uk/resources/maps-and-geographic-resources/the-national-grid.html>

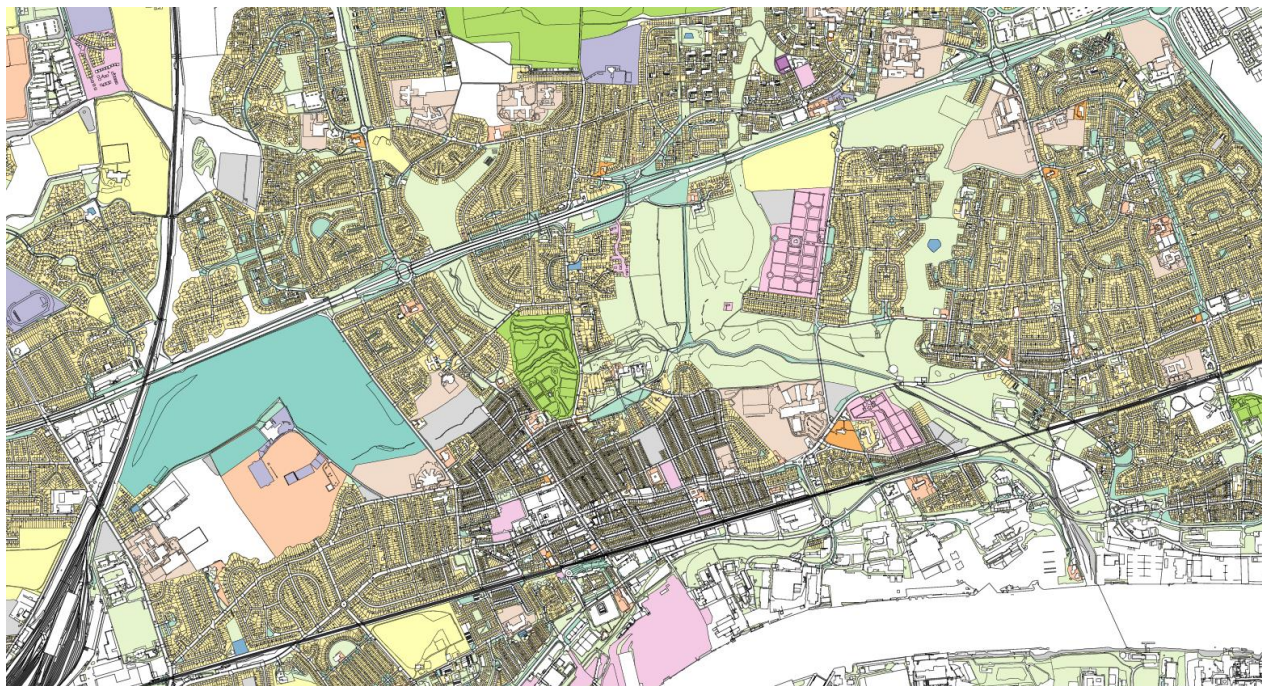
## Chapter 2 OS MasterMap Greenspace Layer

### Feature Types

OS MasterMap Greenspace contains one feature type.

- GreenspaceArea

The MasterMap Greenspace Layer is comprised of a subset of the *TopographicArea* polygons from OSMM Topography Layer (which represent topographic objects that have a polygon-based geometry). Only polygons which have been classified as a form of greenspace will be supplied. This subset of polygons will have the Topographic Identifier (TOID) and Version number from Topography Layer (to enable the datasets to be used in conjunction) plus additional attributes providing the greenspace specific information.



*Greenspace MasterMap data showing detailed polygons, overlaid on OS MasterMap Topography Layer*

### Attributes

#### TOID

The unique reference number of the feature in OSMM Topography Layer. Combined with the version number, this enables joins with the Topography Layer dataset.

#### Version

The version number of the feature in OSMM Topography Layer. This identifies the specific version of Topography Layer feature this dataset was created from. Combined with the TOID, this enables joins with the Topography Layer dataset.

### Primary Function

The main function of the greenspace area. Functions are determined from a specific greenspace list, and only features with a greenspace function have been included in this product. A list of the possible functions for features within this dataset can be found below.

## Secondary Function

Where a polygon has more than one greenspace function present, this field will be populated with the second function. These functions come from the same list as the Primary Functions. The order of the Primary and Secondary Functions is predetermined by a hierarchy (shown later in this guide) and does not indicate an order of importance or scale.

## Primary Form

The main form of the greenspace area. Forms are determined from a specific greenspace list. A list of the possible forms for features within this dataset can be found in [chapter 3](#).

## Secondary Form

Where a polygon has more than one greenspace form present, this field will be populated with the second form. These forms come from the same list as the Primary Forms. The order of the Primary and Secondary Forms is predetermined by a hierarchy (shown later in this guide) and does not indicate an order of importance or scale.

## OS Open Greenspace Look Up Table

OS Open Greenspace is part of Ordnance Survey's Open Data portfolio, and depicts the location and extent of exercise and recreation facilities likely to be open to the public. This Open Data product was designed alongside OS MasterMap Greenspace Layer and it is intended that the two are able to be easily used together.

A look up table exists in order to form a link between the two products. Further information can be found in the [technical specification](#).



## Chapter 3 Function and Form

The greenspace specific attribution within this product consists of the form and function of the greenspace area.

### Function

The functions included within OS MasterMap Greenspace Layer describe the purpose of the Greenspace areas.

OSMM Greenspace Layer includes the following functions;

- Allotments Or Community Growing Spaces
- Amenity - Residential Or Business
- Amenity - Transport
- Land Use Changing
- Bowling Green
- Camping Or Caravan Park
- Cemetery
- Golf Course
- Institutional Grounds
- Natural
- Other Sports Facility
- Religious Grounds
- Play Space
- Playing Field
- Private Garden
- Public Park Or Garden
- School Grounds
- Tennis Court

Detail and description of these functions can be found in the [technical specification](#).

### Function Hierarchy

The population of Primary Function and Secondary Function attributes is driven by a hierarchy. This hierarchy is applied to the data to determine which function is primary and secondary in cases where more than one function applies for a single topographic area polygon. Not every polygon will have more than one function due to the nature of the primary function, for example, cemeteries and allotments are not likely to have secondary functions. This hierarchy only applies where more than one function exists.

The hierarchy has been developed to ensure the process applies the appropriate functions and does not imply any level of priority.

This hierarchy is as follows;

1. Public Park Or Garden
2. School Grounds
3. Institutional Grounds
4. Golf Course
5. Amenity – Residential Or Business\*
6. Amenity – Transport
7. Camping Or Caravan Park
8. Religious Grounds
9. Cemetery
10. Private Garden
11. Playing Field
12. Other Sports Facility
13. Tennis Court
14. Allotments Or Community Growing Spaces
15. Play Space

16. Bowling Green
17. Land Use Changing
18. Natural

\*Due to the way Amenity – Residential or Business function is applied, it would not be expected to ever have a secondary function.

Detail on the functional hierarchy can be found in the [Technical Specification](#)

## Form

The forms included within OS MasterMap Greenspace Layer are below;

- Woodland
- Open Semi-Natural
- Inland Water
- Beach Or Foreshore
- Manmade Surface
- Multi Surface

\*While the majority of polygons with this form will have a primary function of Private Gardens, this will not always be the case due to the Function Hierarchy .

## Form Hierarchy

Where more than one Form value applies for a single topographic area polygon, the population of Primary Form and Secondary Form attributes is driven by a hierarchy. This hierarchy is applied to the data to determine which form is primary and secondary in cases where more than one form applies for a single topographic area polygon. Not all polygons will have a form and this hierarchy only applies where more than one form exists.

The hierarchy has been developed to ensure the process applies the appropriate forms and does not imply any level of priority.

The form hierarchy are as follows.

1. Open Semi-Natural
2. Inland Water
3. Woodland
4. Beach Or Foreshore\*
5. Manmade Surface
6. Multi Surface

\*Due to the way beach and foreshore polygons are located, areas with this form would not be expected to have a secondary form.

## Chapter 4 Data Creation

### Geometry

The geometry for OS MasterMap Greenspace Layer is inherited directly from OS MasterMap Topography Layer.

Selections have been made to ensure that MasterMap Greenspace Layer is comprised of relevant polygons from Topography Layer, with a Greenspace focus. This Greenspace determination comes from the Topography Layer attribution itself, and Greenspace-relevant sites, some of which can also be found in the Open Greenspace product.

Information about the creation and selection of the Greenspace sites can be found in the Open Greenspace product documentation.

The Topographic area geometries and Greenspace site layer attribution are combined in an automated process to produce a consistent layer of greenspace areas across urban Great Britain.

### Attributes

The feature identifying attribution (TOID and Version) are taken directly from OS MasterMap Topography Layer.

Greenspace attribution is populated through overlaying Greenspace Sites onto OS MasterMap Topographic Area features. A subset of these Greenspace Sites are used to produce OS Open Greenspace.

### Data completeness

Ordnance Survey is committed to maintaining its products to the highest levels of accuracy and currency. The initial capture of data for MasterMap Greenspace will use our existing topographic databases and aerial imagery. As such the quality of the data will be constrained to what can be achieved with this approach. For example, where an access into a site is obscured (e.g. under trees) it will not be captured. In addition, the use of our existing databases to identify the location of sites of interest means that we cannot guarantee that all relevant sites will be included in the data. However, where we are informed and can verify that a feature is missing or inaccurately depicted in the dataset, we will make the necessary amendments to the dataset within 12 months of such verification.

The Greenspace Feedback Tool will be used to report errors and omissions in MasterMap Greenspace. It can also be used to track the progress of error reports. Access to the Greenspace Feedback Tool will be available for public sector organisations only.

## Chapter 5 Product Supply

### Available Formats

MasterMap Greenspace will be supplied in GML3.2.1 and ESRI Shapefile.

### Coverage

MasterMap Greenspace covers all major urban areas in Great Britain.

For England and Wales, urban areas are included where they are greater than 6km<sup>2</sup>.

For Scotland, urban areas are defined as those with a population in excess of 500. This is based on data provided by the [National Records of Scotland](#). In Scotland a buffer of 500m has been added to the urban extents to define the product coverage.

Where a site crosses the boundary of an area, all features within the site are included in MasterMap Greenspace, even where these are outside the urban area. This applies up to a limit of 1,500m from the urban boundary.

### Update Cycle

MasterMap Greenspace will be updated every 6 months for the duration of the contract.

### Supply Mechanism

MasterMap Greenspace will be available for download for PSMA/OSMA customers via the OS online ordering service as 5km<sup>2</sup> tiles.

The data will be available as a full supply only (no COU will be available).

Within the 5km<sup>2</sup> tiles, where features cross the tile edge, the whole of that feature will be included. Therefore customers taking adjacent tiles will find some features appearing in both tiles where they cross the boundary. It may be necessary to deduplicate this data, depending on its application.

**Customer Service Centre, Ordnance Survey  
Adanac Drive, Southampton, United Kingdom, SO16 0AS**

+44 (0)3456 050505 (General enquiries)  
+44 (0)3456 050504 (Welsh helpline)  
+44 (0)2380 056146 (Textphone)

**[customerservices@os.uk](mailto:customerservices@os.uk)  
[www.os.uk](http://www.os.uk)**