



# GEOXPHERE

## **XMAP** DATA FEEDS

ORDNANCE SURVEY MAPPING

SERVICE DEFINITION

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## 1. INTRODUCTION

### 1.1. OUR APPROACH

We believe geospatial data has a place in all aspects of Local Government, so we've designed services that break down as many barriers as possible to give GIS data and capabilities to your whole organisation, and where applicable, the public.

Our suite of XMAP services have been designed to be low-cost, practical and high performance.

When you subscribe to an XMAP service you're not just getting the service, you're getting our entire team. We maintain close relationships with our subscribers to make sure you have the best service possible and the best experience for your users.

### 1.2. WHY CHOOSE US?

- **Small, responsive team.** We care about how geospatial data can be used to solve everyday problems. It's not about GIS for the sake of GIS, it's about the answers.
- **We own and maintain our software.** We don't have to rely on a parent company for updates or improvements. If our subscribers need it, we can build it.
- **British built, owned and hosted.** When you subscribe to our services, you're supporting a UK Ltd SME.
- **Clear, competitive, no-nonsense pricing.** All our services have been priced to easily demonstrate a return on investment. We don't have hidden extras, lock away extra features or have different tiers for different levels of performance.

### 1.3. XMAP SUITE

The XMAP suite consists of the following services;

#### **XMAP CLOUD GIS**

A fully cloud-based intranet GIS that can be accessed from any internet-connected device. It includes tools to help users visualise, analyse and export spatial information.

#### **XMAP PUBLIC MAP**

A tool to publish interactive maps on your website, display as full-screen web GIS apps or integrate into back-office systems.

#### **XMAP PUBLISHER**

Creates WMS and WFS feeds for all layers within XMAP Cloud GIS to be shared with internal office systems or published as open data or INSPIRE feeds. Includes a QLR file creator to connect QGIS to the XMAP hosted database. Included as standard with an XMAP Cloud GIS subscription.

#### **XMAP DATA FEEDS**

OGC-compliant WMS/WMTS/WFS feeds streaming a range of data sources including Ordnance Survey premium and OpenData datasets.

#### **XMAP 360**

Display street-view style imagery. Compatible with any provider of mobile mapping survey data.

#### **XMAP OBLIQUE**

Display airborne oblique imagery. Compatible with any provider of oblique imagery.



A cloud GIS service designed for town, parish and community councils. It's easy-to-use, low cost, and connects to XMAP Cloud GIS for data sharing capabilities.

## 2. SERVICE OVERVIEW

### 2.1. SUMMARY

This service provides WMS, WMTS and WFS feeds of Ordnance Survey layers available through OS OpenData and PSGA.

All data feeds provided are OGC-compliant so they can stream into a variety of compatible applications such as QGIS, ESRI ArcGIS and Pitney Bowes MapInfo. They also feed into XMAP Cloud GIS.

### 2.2. KEY BENEFITS

- **Cut out local storage costs.** Reduce your local storage costs and responsibilities by utilising data feeds where the storage is taken care of.
- **Cut out maintenance hassle.** Large datasets can be time-consuming and error-prone, often requiring specialist software to update them. Rely on Data Feeds to always have the most up-to-date information, allowing you to get on with more important things.
- **Consistency across multiple applications.** Connect the feeds to your desktop GIS packages such as QGIS, ArcGIS and MapInfo as well as other back-office systems to improve consistency across your organisation.

### 2.3. KEY FEATURES

- Unlimited map requests
- Full GB Coverage
- OGC-compliant web feeds:
  - WMS
  - WMTS
  - WFS
- Services can be called in:
  - EPSG:27700 (British National Grid)
  - EPSG:4326 (Latitude Longitude WGS84)
  - EPSG:900913 (Google Web Mercator)
  - Others available on request
- Fast, load-balanced servers (less than 3 seconds, normally 0.7 seconds)
- High availability (over 99.9% uptime)
- Secure HTTPS connection
- Pre-configured 'stacks' of layers with a variety of styles
- Individual layers for each data product

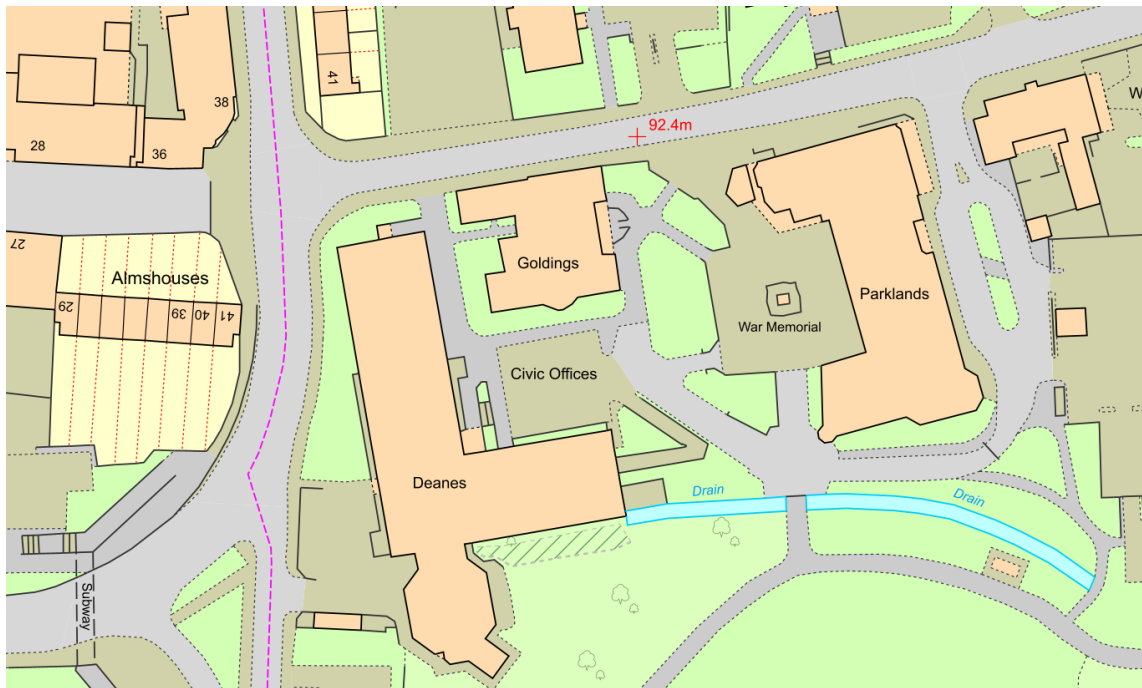
## 2.4. DATASETS

Product Name	Type	Scale Restrictions	WMS	WMTS	WFS
OS MasterMap Topography Layer	Premium	1:1 to 1:5,000 <i>(higher available on request)</i>	✓	✓	✓
OS VectorMap Local	Premium	1:1 to 1:15,000	✓	✓	✓
OS 1:25,000 Scale Colour Raster	Premium	1:1 to 1:50,000	✓	✓	
OS 1:50,000 Scale Colour Raster	Premium	1:1 to 1:100,000	✓	✓	
OS OpenMap Local	OpenData	1:1 to 1:20,000	✓	✓	✓
OS VectorMap District	OpenData	1:1 to 1:100,000	✓	✓	✓
OS 1:250,000 Scale Colour Raster	OpenData	1:1 to 1:250,000	✓	✓	
OS MiniScale	OpenData	1:1 to 1:1,200,000	✓	✓	
OS GB Overview Plus	OpenData	1:1 to 1:3,000,000	✓	✓	
OS GB Overview	OpenData	1:1 to 1:20,000,000	✓	✓	

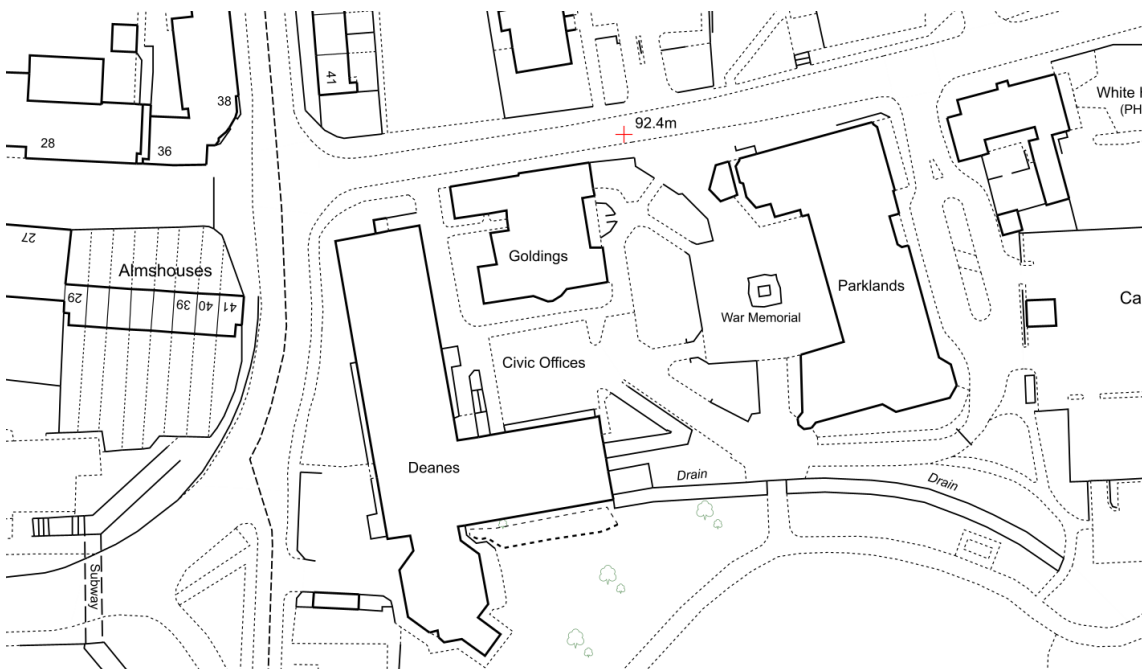
OS Premium Stack	Min Scale	Max Scale
OS MasterMap Topography Layer	1:1	1:3,000
OS VectorMap Local	1:3,000	1:15,000
OS VectorMap District	1:15,000	1:100,000
OS 1:250,000 Scale Colour Raster	1:100,000	1:250,000
OS MiniScale	1:250,000	1:1,200,000
OS GB Overview Plus	1:1,200,000	1:3,000,000
OS GB Overview	1:3,000,000	1:∞

OS OpenData Stack	Min Scale	Max Scale
OS OpenMap Local	1:1	1:15,000
OS VectorMap District	1:15,000	1:100,000
OS 1:250,000 Scale Colour Raster	1:100,000	1:250,000
OS MiniScale	1:250,000	1:1,200,000
OS GB Overview Plus	1:1,200,000	1:3,000,000
OS GB Overview	1:3,000,000	1:∞

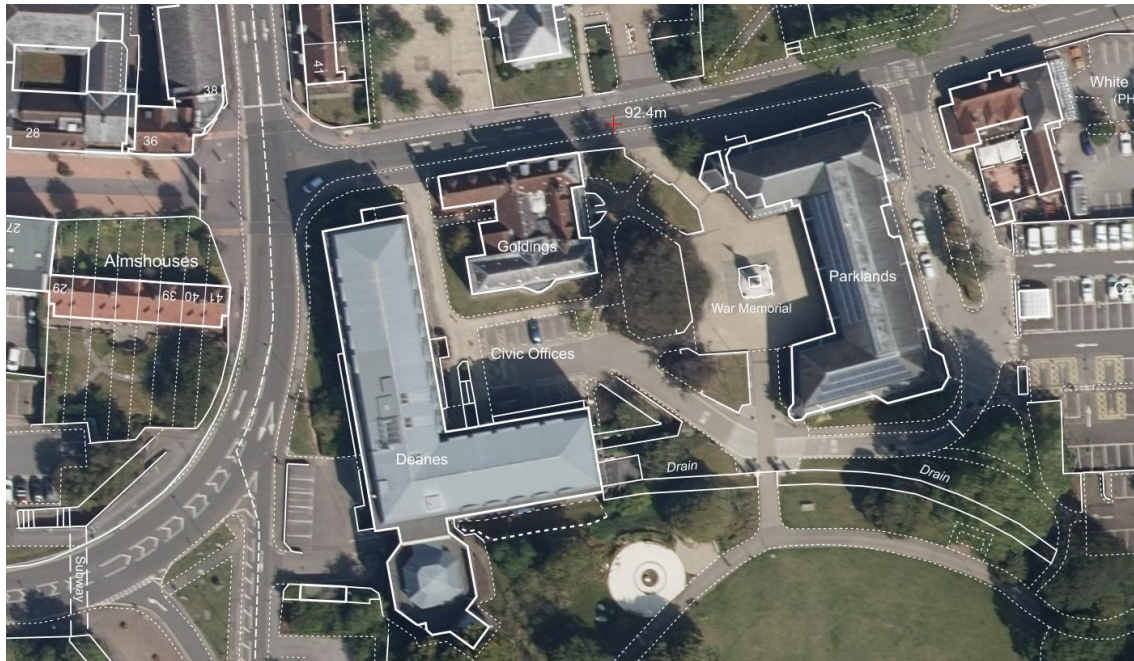
## 2.5. SCREENSHOTS



*OS MasterMap Topography Layer in Standard Style*



*OS MasterMap Topography Layer in Black and White Style*



*OS MasterMap Topography Layer in White Style (shown overlain on aerial photography. Aerial photography not included in the feed)*



*OS GB Overview*



## **2.6. DEPENDENCIES**

- Use of this service required an Internet Connection
- Users of this service must be able to supply an OS PSGA licence number
- Geosphere will act as a sub-contractor for the supply of this data

## **2.7. LIMITATIONS**

- This service has unlimited usage, but excessive hits from individual IPs will be throttled. This protects the service as a whole and ensures no impact on other customers.

## **2.8. DEMONSTRATIONS**

Trial XMAP Data Feeds subscription available on request.

# **3. JOINING AND LEAVING THE SERVICE**

## **3.1. SIGN UP**

Once a request is made to join the XMAP service, a member of the Geosphere team will be in contact to discuss the contractual and technical aspects of the sign up process.

A start date will be chosen for the on-boarding process. This is usually made as part of a face-to-face meeting but can be implemented within a day if necessary.

## **3.2. TECHNICAL DEPENDENCIES**

It is recommended that the customer have a broadband connection with a minimum of 2MB download and 1MB upload speed.

## **3.3. ON-BOARDING**

URLs will be provided along with a username and password for adding the service to GIS software.

## **3.4. OFF-BOARDING**

No customer data is held in this service so there is no off-boarding process.

### **3.5. END OF CONTRACT**

At the end of the contract the customer will have no further access to the service and all feeds will be terminated.

## **4. AVAILABILITY**

### **4.1. PERFORMANCE**

XMAP services are hosted on virtualised cloud servers. They provide both a highly available and scalable hosted solution with no single point of failure. Geosphere offers 99.9% SLA on its services and has a 99.999% SLA for its ISP backbone infrastructure.

Geosphere cannot provide a minimum download time for each map refresh due to the variations in customer's Internet connections. However, test show that under normal conditions on a Broadband connection map refreshes take less than 2 seconds.

### **4.2. AVAILABILITY**

XMAP services are available to use 24 hours a day, 7 days a week with a 99.9% minimum uptime.

### **4.3. PLANNED MAINTENANCE**

All maintenance and updates to the hardware and software will, where possible, be carried out outside of normal working hours to mitigate the risk of any disruption.

Planned downtime events will be communicated to the customers with good notice.

## **5. SUPPORT**

### **5.1. SUPPORT HOURS**

Remote support by email will be provided between 0900 and 1730 Monday to Friday, excluding Public Holidays. The customer will also have a dedicated point of contact for specific contract or product queries.

### **5.2. SUPPORT TICKETS**

Geosphere assigns a Point of Contact to the customer. This ensures customer issues are dealt with in a personal and considered way.

Geosphere provides fast, unlimited off-site support through our ticketing system.

### **5.3. GENERAL SUPPORT**

Geosphere engages with our subscribers to ensure they get the best possible service. We conduct regular reviews and vary meeting schedules and calls as per the client's requirements.

## **6. REFERENCES**

Embarrassingly complimentary references available on request.

## **7. DEMONSTRATIONS**

To request a demonstration email [support@geosphere.com](mailto:support@geosphere.com).