



Department  
for Transport

Street Manager

# API Webinar

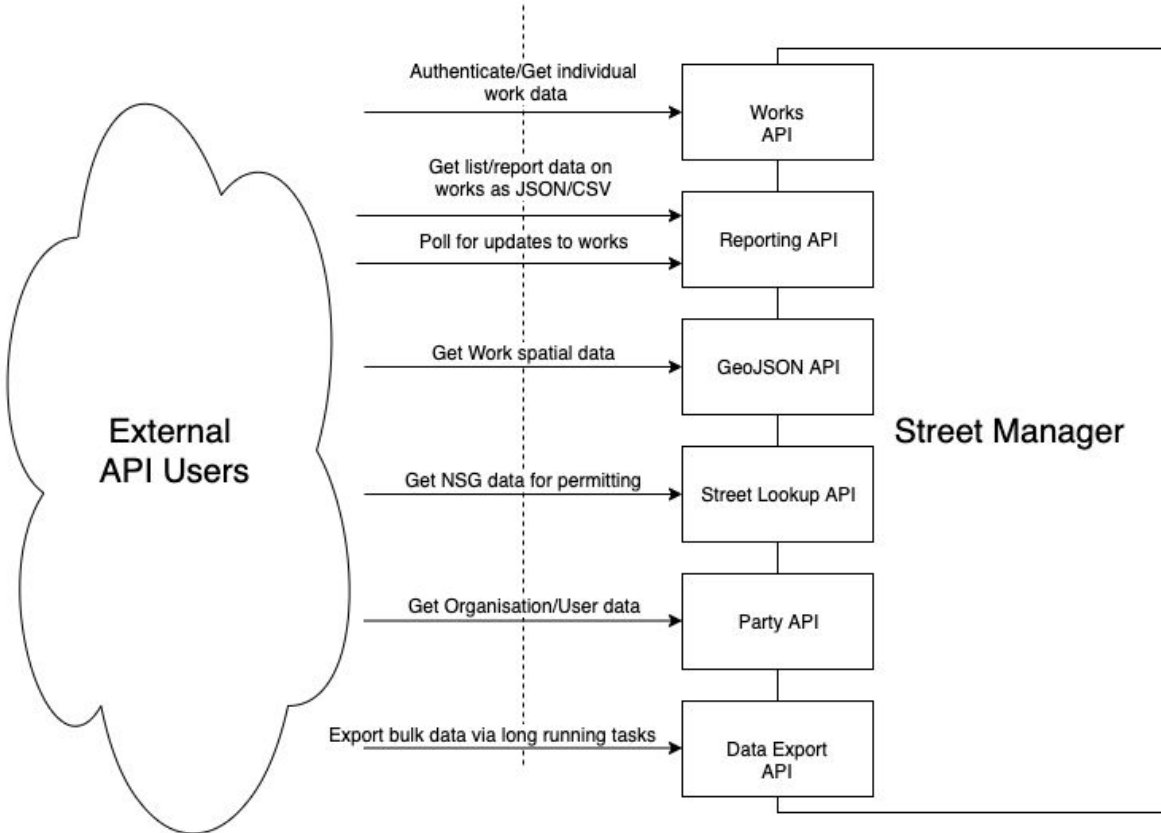
December 2019



1. Overview of API
2. API documentation
3. Environments and testing
4. Versioning
5. Roadmap
6. Key takeaways
7. Contact us



# Overview of API



- An overview of the API services can be found [here](#)
- Any function a user can perform via UI can also be done via API
- Users have the ability to integrate their system and extract Street Manager data for Map/Reporting needs

- Street Manager follows the government standard - [GDS guidance](#)
- RESTful architectural style
- JSON message format
- API technical specification available using OpenAPI standard via “Swagger”
- Framework to help document and consume RESTful interfaces
- API will be secured using [JSON Web Tokens authentication](#)
- API use will be audited and logged
- Geo-spatial data using the British National Grid (EPSG:27700)

For detailed API documentation, please go to our Github site [here](#)

## Plan and manage roadworks documentation

[Service roadmap](#) [Business change](#) [Onboarding](#) [Business rules](#)

[API documentation](#) [Archive](#) [Offline guidance](#)

## API specification

Version 1.11


This document details upcoming changes to the API being released during Public Beta for advance view, see the 'Versions and Changes' section for details.

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## Table of contents

1. [Introduction](#)
2. [Swagger Documentation](#)
3. [Environments](#)

- You can view the technical interface for API via the OpenAPI standard (Swagger documentation)
- You also have the ability to test your API via Swagger UI on the Sandbox environment
- Client/mock servers can be generated for testing various programming languages



**work-api** <sup>1.0.0</sup>  
[ Base URL: /v1/work ]

See API specification Resource Guide > Work API for more information on endpoints  
NOTE: Swagger Editor/UI does not display all description text for enumerations and child elements, check swagger.json for full description text

MIT

<https://api.sandbox.stwrks-dev.net/v1/work/docs/>

Schemes

HTTPS

Authorize

default

GET /works/{workReferenceNumber}/permits/{permitReferenceNumber}

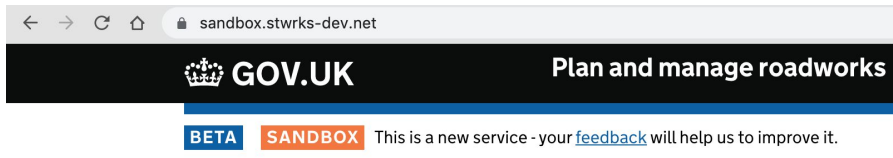
See business rules section 1 - Permits

Parameters

Try it out

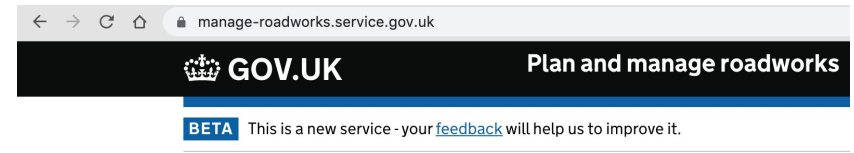
## Sandbox

- Testing environment available for all Street Manager organisations
- Can test via UI and API
- OK to submit test data
- Individual or coordinated Promoter/HA testing
- Receives releases and new functionality before production



## Production

- Live production environment linked from gov.uk
- **ONLY real data**
- New functionality will be detailed in roadmap and admins alerted prior to release





- Street Manager is in active development and will release changes to UI and API to make new features available to all users quickly
- Baseline V1 version of the API with all legally required features will be released end of year
- To avoid breaking API integrations after this date, when breaking changes are required, the API will be split into a new V2 version
- Street Manager will support two active versions of the API and will support each version for at least six months to allow time to transition
- API services will be versioned via the URL path



- Roadmap available in [documentation](#)
- Admin users will be notified about upcoming changes to the service
- Legally required functions available in API specification released end of year
- Additional functions will be added to API as non-breaking changes or in new API versions

## Street Manager Roadmap

Overview of Street Manager scope and release date

Updated November 2019



Expand boxes for more information



Click for further information about business rules and logic. Note, this will take you to a document that is still under review and should not be taken as final production.

Private Beta Delivered by November 2019				Public Beta Delivered by 31 March 2020		Future Post April 2020		Out of Scope	
	Permit applications +		Works planning +		Inspections and FPNs for historic works +		Inspection sampling +		Inspections +
	Permit assessment and management +		Highway activities +		Views by geographical area +		Unattributed works +		FPNs +
	Change requests +		Forward planning +		Section 81 +		API notifications +		Coordination +
	Start and stop +		Record and manage inspections +		Reinstatements for non-notifiable works +		Performance reporting +		Data +
	Reinstatements +		Commenting +		ASD mapping +		Future development +		
	Permit fees report +		Issue, receive and manage FPN +		User permissions +		Data sharing +		
	API +		National Street Gazetteer integration +		Permit modification request +				
	Workstream management +		Contractors +		HS2 +				
	Admin functionality +		Search +						
	Map tool +								

Legend




1

Full API documentation is available [here](#)

2

You can test your API integration on Sandbox environment

3

New API versions will be released to avoid breaking integrations

4

API V1 baseline specification releasing end of year

If you require any additional support from the Street Manager team, please feel free to get in touch with us

Street Manager email address: [streetmanager@dft.gov.uk](mailto:streetmanager@dft.gov.uk)

Slack channels: [@askdft](#) [@API](#) slack channel