

# About this data: Fixed coverage

To create our Connected Nations Spring 2024 update, Ofcom collected and analysed coverage data from over 70 fixed network and fixed wireless access (FWA) providers. The data was collected as a snapshot in January 2024. The [Methodology Annex](#) provides details of our approach to collecting and analysing coverage data.

Ofcom uses the Ordnance Survey AddressBase® Premium and Islands products to provide the base dataset used to assess broadband coverage for residential and commercial premises. For this snapshot Epoch 107 was used.

If you have any questions or feedback on the data, please contact us at [open.data@ofcom.org.uk](mailto:open.data@ofcom.org.uk).

We are providing this data on an open basis via the [Open Government Licence](#), which gives users various freedoms about how they choose to use the data, subject to conditions.

The files are provided as Comma Separated Values files, with double quote (") text delimiters where applicable.

## Fixed broadband coverage file for UK and nations

This file contains all data points for the latest snapshot provided in the Speed and Time Tables on pages 8 and 9 of the accompanying interactive report.

| File name                                    | Number of data rows | File size |
|--|---------------------|-----------|
| 202401_fixed_coverage_UK_and_Nations_r01.csv | 495                 | 29 KB     |

### Column headers and what they represent:

| Field        | Values  | Description                    |
|--------------|---|--------------------------------|
| Location     | UK, England, Northern Ireland, Scotland, Wales  |                                |
| Premise type | All, Residential, Commercial  |                                |
| Rurality     | Total, Urban, Rural   |                                |
| Speed        | Premise Base, Unclassified, <2 Mbit/s, <10 Mbit/s DL or <1 Mbit/s UL, >=10 Mbit/s, >=24 Mbit/s, >=30 Mbit/s, >= 100 Mbit/s, >=300 Mbit/s, Full Fibre, Gigabit capable |                                |
| % Premises   |   | Percentage of premises covered |

| Field    | Values | Description                |
|----------|--------|----------------------------|
| Premises |        | Number of premises covered |
| Date     |        | Date of snapshot (Mon-YY)  |

## Other fixed coverage files

We provide information on fixed broadband coverage and broadband availability from Fixed Wireless Access (FWA) at four levels:

1. Local and Unitary Authority (using the 2021 local authority boundaries – we will use the 2023 local authority list<sup>1</sup> from our next update onwards)
2. Parliamentary Constituency
3. Census Output Area (2021 Census for England, Wales and Northern Ireland, 2011 Census for Scotland)
4. Postcode

At each level information is provided for all premises and for residential premises.

| Level                                     | File name  | Premises    | Number of data rows | File size |
|---|--|-------------|---------------------|-----------|
| <b>Local and Unitary Authority (laua)</b> | 202401_fixed_laua_coverage_r01.csv   | All         | 374                 | 73 KB     |
|   | 202401_fixed_laua_res_coverage_r01.csv   | Residential | 374                 | 72 KB     |
| <b>Parliamentary Constituency (pcon)</b>  | 202401_fixed_pcon_coverage_r01.csv   | All         | 650                 | 124 KB    |
|   | 202401_fixed_pcon_res_coverage_r01.csv   | Residential | 650                 | 122 KB    |
| <b>Census Output Area (oa)</b>            | 202401_fixed_oa_coverage_r01.csv   | All         | 238,656             | 26 MB     |
|   | 202401_fixed_oa_res_coverage_r01.csv   | Residential | 238,622             | 26 MB     |
| <b>Postcode (pc)</b>                      | 121 files in the folder 'postcode_files', one for each postcode area defined by xx:<br>202401_fixed_postcode_coverage_r01_xx.csv         | All         | 1,726,981           | 161 MB    |
|   | 121 files in the folder 'postcode_res_files', one for each postcode area defined by xx:<br>202401_fixed_postcode_res_coverage_r01_xx.csv | Residential | 1,590,470           | 149 MB    |

<sup>1</sup> <https://blog.planningportal.co.uk/2023/03/24/local-authority-changes-from-1-april-2023/>

The table below provides a combined view of the fields in the different files. The second column shows in which files a field is present, referring to the levels in the above table (laua, pcon, oa and pc). The fields may be in a different order than the one shown below.

For census output area and postcode, we report on gigabit-capable coverage but not on full-fibre coverage due to commercial confidentiality.

All coverage figures refer to fixed broadband only except for the fields where FWA is explicitly mentioned in the description.

## Column headers and what they represent:

| Field   | In files<br>(level) | Description  |
|---|---------------------|--|
| <b>laua</b>                                       | laua                | Local or Unitary Authority Code, such as S12000033   |
| <b>laua_name</b>                                  | laua                | Local or Unitary Authority Name  |
| <b>parl_const</b>                                 | pcon                | Parliamentary Constituency Code, such as E14000530   |
| <b>parliamentary_constituency_name</b>            | pcon                | Parliamentary Constituency Name  |
| <b>output_area</b>                                | oa                  | Census Output Area, such as W00010697  |
| <b>postcode</b>                                   | pc                  | Postcode with spaces removed, such as SE19HA   |
| <b>postcode_space</b>                             | pc                  | Postcode with single space, such as SE1 9HA  |
| <b>postcode area</b>                              | pc                  | Postcode area, such as SE  |
| <b>All Premises</b>                               | laua, pcon,<br>oa   | Count of all premises in scope for the location  |
| <b>All Matched Premises</b>                       | laua, pcon,<br>oa   | Count of all premises matched to operator records with a non-zero recorded fixed broadband coverage. Unmatched premises are unclassified |
| <b>SFBB availability (% premises)</b>             | All                 | Percentage of premises that have Superfast Broadband (30Mbit/s or greater) coverage  |
| <b>UFBB (100Mbit/s) availability (% premises)</b> | All                 | Percentage of premises that have Ultrafast Broadband (100Mbit/s or greater) coverage   |
| <b>UFBB availability (% premises)</b>             | All                 | Percentage of premises that have Ultrafast Broadband (300Mbit/s or greater) coverage   |
| <b>Full Fibre availability (% premises)</b>       | laua, pcon          | Percentage of premises that have coverage from a full-fibre service  |

| Field  | In files (level) | Description   |
|--|------------------|---|
| <b>Gigabit availability (% premises)</b>                       | All              | Percentage of premises that have coverage from a gigabit-capable service  |
| <b>Number of premises with SFBB availability</b>               | laua, pcon, oa   | Number of premises that have Superfast Broadband (30Mbit/s or greater) coverage   |
| <b>Number of premises with UFBB (100Mbit/s) availability</b>   | laua, pcon, oa   | Number of premises that have Ultrafast Broadband (100Mbit/s or greater) coverage  |
| <b>Number of premises with UFBB availability</b>               | laua, pcon, oa   | Number of premises that have Ultrafast Broadband (300Mbit/s or greater) coverage  |
| <b>Number of premises with Full Fibre availability</b>         | laua, pcon       | Number of premises that have coverage from a full-fibre service   |
| <b>Number of premises with Gigabit availability</b>            | laua, pcon, oa   | Number of premises that have coverage from a gigabit-capable service  |
| <b>% of premises unable to receive [X]Mbit/s</b>               | All              | Percentage of premises that do not have access to services above X Mbit/s, where X = 2, 5, 10 or 30   |
| <b>% of premises below the USO</b>                             | All              | Percentage of premises with no access to download speeds at or above 10 Mbit/s and upload speeds at or above 1 Mbit/s from fixed broadband or a Wireless Internet Service Provider (WISP) or Mobile FWA (including non-matched records and zero predicted speeds) |
| <b>% of premises with NGA</b>                                  | All              | Percentage of premises with Next Generation Access  |
| <b>% of premises able to receive decent broadband from FWA</b> | All              | Percentage of premises that have access to Decent Broadband (at least 10 Mbit/s download and 1 Mbit/s upload speed) from a WISP   |
| <b>Number of premises unable to receive [X]Mbit/s</b>          | laua, pcon, oa   | Number of premises that do not have access to services above X Mbit/s, where X = 2, 5, 10 or 30   |
| <b>Number of premises below the USO</b>                        | laua, pcon, oa   | Number of premises that do not have access to download speeds at or above 10 Mbit/s and upload speeds at or above 1 Mbit/s from fixed broadband or a WISP or Mobile FWA (including non-matched records and zero predicted speeds)                                 |
| <b>Number of premises with NGA</b>                             | laua, pcon, oa   | Number of premises with Next Generation Access  |

| Field   | In files (level) | Description  |
|---|------------------|--|
| <b>Number of premises able to receive decent broadband from FWA</b> | laua, pcon, oa   | Number of premises that have access to Decent Broadband (at least 10 Mbit/s download and 1 Mbit/s upload speed) from a WISP                              |
| <b>% of premises with [X]&lt;[Y]Mbit/s download speed</b>           | All              | Percentage of premises that have access to a maximum download speed between X and Y Mbit/s, with (X, Y) = (0, 2), (2, 5), (5, 10), (10, 30) or (30, 300) |
| <b>% of premises with &gt;=300Mbit/s download speed</b>             | All              | Percentage of premises that have access to a maximum download speed of at least 300Mbit/s  |
| <b>Number of premises with [X]&lt;[Y]Mbit/s download speed</b>      | laua, pcon, oa   | Number of premises that have access to a maximum download speed between X and Y Mbit/s, with (X, Y) = (0, 2), (2, 5), (5, 10), (10, 30) or (30, 300)     |
| <b>Number of premises with &gt;=300Mbit/s download speed</b>        | laua, pcon, oa   | Number of premises that have access to a maximum download speed of at least 300Mbit/s  |