## Case Study BRINGING LOCATION TO LIFE

Working across government, tackling and preventing fraud using the UPRN



## HMRC | TRANSACTION PROTECTION TOOL

riminals try to develop credibility and plausibility by using a false address as part of their activity. To do this, they try to 'register' themselves, either properly or using an alias, at an address that has some legitimacy, In addition to the impact this has on subsequent victims of fraud, it can also have an effect on people who are associated with the 'authentic' address.

Her Majesty's Revenue and Customs (HMRC) is tackling this illegal activity with a cross-department initiative, which uses the Unique Property Reference Number (UPRN: HMRC is launching a pan-government Transaction Protection tool using location data as an anti-fraud measure for the public sector.

The tool has been developed with the Government Digital Service and early efforts are being made to share it with the Department for Work and Pensions and the Home Office, and it will soon be freely available for use by other parts of government.

HMRC has created a Transaction Protection tool. This pangovernment tool draws on OS AddressBase products and the Unique Property Reference Number (UPRN) to carry out checks on an address - known to be registered to one or more government agencies - and to flag up instances that might indicate a risk of fraud. We aim to have a centralised service available for any government body where you can validate an address, get good quality data matched against that in Address Base, gather your UPRN then map it across.

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HMRC's internal address reputation service matches information being submitted by customers to the data held in OS AddressBase. If it correlates (and having recorded the UPRN as a further reference), it is then possible to check that query against other sources to get a consistent match – and therefore a validation.

Those other sources might include government departments, government-backed agencies, banks or credit reference agencies. Queries that don't correlate precisely are not listed automatically as being fraudulent - but flagged for further investigation. With future-proofing and interoperability in mind, HMRC is initially working with DWP and the Home Office to build and integrate Transaction Protection tool APIs that will offer a common resource for checking on addresses.

However, there are plans to make this facility available right across central and local government. There are also use cases for this tool in the private sector, in many various contexts.

Because the Transaction Protection tool consumes updates of OS AddressBase automatically, the validation data is as up-to-date as possible.

Other bodies will have the opportunity to use the same tool simply calling on the APIs created by HMRC, although it uses open source code and will be available on the Github platform.



Fraudsters may try to validate their identity using a false address.

The UPRN provides the single point of truth that's needed to help mitigate fraud across central and local government.

## We are GeoPlace Bringing location to life

We are GeoPlace, the team managing a central hub of around 44 million addresses and over 1.39 million streets in the UK.

We take feeds of address and street data from local authorities in England and Wales, central government, Ordnance Survey and Royal Mail. We also take data from Scotland, Northern Ireland, Isle of Man and the Channel Islands via the Improvement Service, Land & Property Services, Isle of Man Government and Digimap respectively.

This data goes through a rigorous validation process, which includes 364 Address data checks and 550 Street data checks, before being accepted into the National Street Gazetteer and National Address Gazetteer. Overall, we update around 2 million records every month. The information in our database is also enriched with attributes from other datasets to enhance detail and quality - it's an ongoing process of co-operation and collaboration.

geoplace exemplar awards

The end result is a unified, authoritative source for all addressing and street data in the UK.

Our Gazetteers are prized and respected national assets. They make it easier for central and local government, commerce, organisations and individuals to access Unique Property Reference Numbers (UPRNs) and Unique Street Reference Numbers (USRNs) with confidence.



GeoPlace is a public sector limited liability partnership between the Local Government Association and Ordnance Survey



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