

National Highways

Vehicle Telemetry Specification

National Fleet Vehicle Operations

Contents

1.	Definitions	3
2.	Background	3
3.	Vehicles and Telemetry Requirements	4
4.	Minimum Service Level Requirements - Operational Process	5
5.	Ordering Process	6
6.	Contract Management	7
Anr	nex A – National Highways Fleet Vehicles	8
Anr	nex B – List of National Highways Outstation & Asset delivery locations	10
Anr	nex C – List of potential additional vehicle makes / models to fleet	12

1. Definitions

A list of definitions referenced throughout this document can be found below;

Customer

National Highways Limited.

Supplier

Appointed supplier

Operator

National Highways Limited.

Contract

The National Highways Vehicle telemetry replacement contract

Traffic Officer Vehicle (TOV)

A fully functional traffic officer vehicle supplied for operational use by National Highways company Limited.

Asset Delivery Vehicle (AD)

A fully functional Asset inspector or pool car vehicle for operational use by National Highways company limited

Company car / personal user (PUS)

A vehicle supplied to an employee to utilise for both business and personal use.

National Highways National Fleet Team

The customers team responsible for the delivery and management of all managed vehicles on behalf of National Highways Limited.

2. Background

National Highways (formerly Highways England) operate across the length and breadth of England and we are the government company which plans, designs, builds, operates and maintains England's motorways and major A roads, known as the strategic road network (SRN)

Functions in support of this require National Highways to operate vehicles that include Traffic Officer operational vehicles that patrol the road network, Asset delivery operational vehicles that inspect all assets such as roads and structures across England and company car / personal user scheme vehicles utilised by employees with a vehicle for their job needs contractually.

This document outlines the requirements for Vehicle Telemetry provision consists of purchased vehicles across the Traffic Officer Service (TOS), Asset delivery operations (AD) and Company car / Personal user scheme vehicles (PUS)

The specific contents of this document as detailed below may not be varied by suppliers without prior written confirmation from National Highways National Fleet Team.

The Supplier will ensure the Customer is present during all meetings and final sign off.

Suppliers may be required to work in association with and communicate regularly with 3rd party suppliers, such as the National Highways Fleet Management and Maintenance provider and Vehicle Manufacturers for technical information such as Workshop Manuals, Electrical Diagrams, Technical Bulletins, and Diagnostic Release Notes.

3. Vehicles and Telemetry Requirements

Currently, the National Highways fleet requires supply and fitting of vehicle Telemetry and for all TOV, AD and PUS fleet. A breakdown of the current vehicles is shown in Figure 1, with a full list including locations in <u>Annex A</u>

Figure 1

Make / Models	Totals
BMW	56
F45 225xe Sport Active Tourer	21
F45 225XE SPORT ACTIVE TOURER XB2 1.5i LCI	4
101 i3 120Ah AC	1
X5 XDrive45e AC	30
FORD	64
FOCUS ZETEC ESTATE	61
Kuga PHEV	3
KIA	26
NIRO 3 PHEV S-A	13
NIRO PHEV 3	13
LAND ROVER	67
DISCOVERY 5 2.0 DSE	1
DISCOVERY 5 SDV6 3.0 DSE	66
LEVC	1
LEVC TRIAL VEHICLE	1
MINI	5
Countryman	5
MITSUBISHI	205
	3
OUTLANDER PHEVS	18
RX4 OUTLANDER 4HS PHEV AUTO	34
	18
SHOGUN 3.2DI EL	94
SHOGUN SPORT	28
SHOGUN SPORT 4 AUTO QX4 SSANGYONG	10 31
MUSSO REBEL AUTO	19
MUSSO SARACEN AUTO	19
VAUXHALL	5
ASTRA 5DR SPORTS TOURER SRI NAV 1.6CDTI	5
VOLVO	118
XC40 INSCRIPTION T5 RECHARGE A	4
XC40 MOMENTUM PRO D3 AWD AUTO	41
XC40 R-DESIGN PRO T5 PHEV AUTO	1
XC90 T8 MOMENTUM AUTO	72
Grand Total	578
	510

The customer retains the right to change these vehicles when required. The vehicle manufacturer, make and model of vehicles are variable throughout the contract.

Over the period of the contract many vehicles will be introduced within the National Highways fleet. This may affect the requirements through the life of the contract. Due to Global supply challenges exact figures cannot be quoted with certainty. Circa 150 additional vehicles are approximate measures of this currently for the next 12 months but is subject to change. A list of potential choices related to these can be found in <u>Annex C</u>

This contract will be for up to 500 AD Inspector vehicles, 250 AD Pool Cars, 500 TOV, 250 PUS fleet. The Supplier acknowledges and agrees that the full scope of the Buyer's fleet may include, but is not limited to leased, owned, daily rental, car club and grey fleet.

4. Minimum Service Level Requirements - Operational Process

The requirements of this service in support of our operations are that it must;

- A suitable device to be installed to the nominated National Highways vehicle. This must be robust, Tamper proof and not cause any interference with the operational systems of the vehicle that it is installed.
- Include provision for the ability to view vehicle live data. This should include but not limited to live vehicle location data, journeys taken information, detailed information related to previous locations visited, Odometer readings, Fuel usage reporting and have the capability for regional vehicle / type segregation in relation to the relevant reports.
- Include provision to enable accurate means of driver identification in relation to the vehicle being monitored and data recorded from.
- Provision for the use of automated reporting via a daily API type feed in support of National Highways fleet reporting facility.
- All data sets used must be able to distinguish the differences between those provided by an Internal Combustion Engine by comparison to an Electric or Plug in Hybrid power train vehicle. For example, when recording vehicle idling for a PHEV type vehicle, it is imperative to record when the Internal Combustion Engine is operating as opposed to EV mode, so Engine operational would record as an idling output.
- Training is to be provided to all relevant National Highways representatives relating to accessing the relevant data sources that relates to the above.
- All historic data retrieved from the Vehicle Telemetry devices is to be stored for the lifetime of the contract by the supplier on behalf of National Highways.
- The Vehicle Telemetry provider will be required to work in partnership with National Highways appointed contractors in relation to Vehicle fleet additions or relevant data sharing at the request of National Highways.
- A mobile service provision is required to facilitate defect repairs at any National Highways / home location indicated by appointment. The National Highways depots are listed in Annex B. These sites may increase and decrease periodically with notice given, however National coverage across the whole of England will be required.

- Repairs, Installation or removal of equipment must be completed within 5 working days of report. This is to ensure minimal vehicle downtime following any reported failure / repair required.
- Relevant risk assessments / safe working practices documented to ensure that compliance is managed in line with National Highways and operator safety legislation.
- As part of this contract it is agreed that there will be a monthly performance review meeting held between National Highways / suppliers representatives at a location to be advised as a rolling calendar invite. This frequency may only be varied in agreement with National Highways.
- Monthly M.I. reporting provided to detail measurements against any agreed KPI's upon implementation of the contract in support of Monthly performance reviews. This will be in collaboration with National Highways Collaborative Performance Framework (CPF) metrics.
- Access to enable defect reporting 24 / 7 / 365 days per year.

The Supplier shall ensure that vehicle downtime is minimised and acted upon to ensure that vehicle availability is optimised to reduce the impact for the Buyer and/or the driver of the vehicle. If it is deemed necessary to retain the vehicle beyond the forecasted downtime period, the Supplier shall ensure that the delay is communicated to the Buyer and/or driver of the vehicle within agreed timescales determined by the Buyer; and minimised as far as reasonably possible.

5. Ordering Process

The orders for all Vehicles to be served by this contract would be received from the appointed National Highways contract manager(s) as a representative of the National Highways fleet team.

An order for device fitment or removal will be deemed as authority to action the necessary requirements to the appointed vehicle(s) identified.

Many orders will require the supplier to liaise with vehicle conversion specialists or repairers, the details of which will be supplied by National Highways upon order placement.

Monthly statements should be provided prior to invoices being raised to allow the amounts to be verified as applicable to each purchase order number or contract account and in turn approved financially by National Highways. Invoices are to be submitted calendar monthly quoting the purchase order number and receipt number provided by National Highways as applicable to each charge.

6. Contract Management

The supplier shall provide a dedicated account manager to support the operation of this contract. The expectation being that this provision will allow for regular Monthly contract reviews. The prime contact for the dedicated support would be a representative from the National Highways fleet team.

The Supplier's Account Manager shall work proactively and with the Buyer to develop strategies and initiatives reviewing the possibilities to:

- secure cost savings
- deliver efficiencies relating to fleet operation, fleet profile or the procedures in place to manage the Buyer's account
- improve environmental efficiencies
- support the Buyer in meeting internal or Government policy standards (for example the Government Fleet Commitment)
- Review possible innovations that may be of benefit to National Highways. This includes but not limited to equipment such as camera recording equipment as an example.

The Supplier shall provide weekly updates (or other frequency specified by the Buyer) upon receipt of an Order, to the Buyer on the progress of the Order, which shall include the estimated date of delivery.

The Supplier shall provide a helpdesk facility to assist the Buyer's end users with queries regarding the services provided under the Contract.

The Customer must be kept informed of all such activities and outcomes.

The Supplier will hold a European Quality accreditation such as EN29000, ISO 9000 series or BS 5750. Proof of this must be provided with any bid proposal for this contract

No modifications shall be carried out by the Supplier or any of its sub-contractors which could adversely affect the original vehicle safety ratings or type approval.

No modifications shall be carried out by the Supplier or any of its sub-contractors which could adversely affect or invalidate the vehicle manufacturer's warranty

Annex A – National Highways Fleet Vehicles

A breakdown of the locations for each of the 578 vehicles requiring supply and fit of telemetry devices can be found in Figure 4 below;

Figure 2		
Гуре / Region or Area	Totals	
BMW	5	6
AREA 1&2		3
AREA 12		2
EAST		5
EAST MIDLANDS		4
NORTH WEST		3
PUS	2	21
SOUTH EAST		4
SOUTH WEST		4
WEST MIDLANDS		6
YORKSHIRE NORTH EAST		4
FORD		64
AREA 1&2	1	0
AREA 13		6
AREA 14	1	2
AREA 3		2
AREA 4		1
AREA 6&8	1	1
AREA 7	1	8
AREA 9		1
PUS		3
KIA	2	26
AREA 10		5
AREA 12		3
AREA 4		5
PUS	1	3
LAND ROVER	6	57
EAST	1	1
EAST MIDLANDS		5
NORTH WEST	1	2
SOUTH EAST	1	6
SOUTH WEST		7
WEST MIDLANDS		8
YORKSHIRE NORTH EAST		8
LEVC		1
AREA 9		1
MINI		5
PUS		5
MITSUBISHI	20	5

AREA 1&2	
	9
AREA 10	3
AREA 12	15
AREA 13	5
AREA 14	5
AREA 3	7
AREA 4	12
AREA 4	1
AREA 6&8	9
AREA 7	5
AREA 9	2
EAST	21
EAST MIDLANDS	13
NORTH WEST	26
OCAT	4
SOUTH EAST	16
SOUTH WEST	12
TRAINING SCHOOL	6
WEST MIDLANDS	19
YORKSHIRE NORTH EAST	15
SSANGYONG	31
AREA 10	12
AREA 3	9
AREA 9	10
VAUXHALL	5
AREA 10	5
VOLVO	118
AREA 1&2	14
AREA 12	3
	6
AREA 13	5
AREA 14	5
AREA 14 AREA 3	1
AREA 14 AREA 3 AREA 6&8	1 9
AREA 14 AREA 3 AREA 6&8 AREA 7	1 9 8
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST	1 9 8 16
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS	1 9 8 16 5
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS NORTH WEST	1 9 8 16 5 6
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS NORTH WEST SOUTH EAST	1 9 8 16 5 6 22
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS NORTH WEST SOUTH EAST SOUTH WEST	1 9 8 16 5 6 22 4
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS NORTH WEST SOUTH EAST SOUTH WEST TRAINING SCHOOL	1 9 8 16 5 6 22 4 1
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS NORTH WEST SOUTH EAST SOUTH WEST TRAINING SCHOOL WEST MIDLANDS	1 9 8 16 5 6 22 4 1 8
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS NORTH WEST SOUTH EAST SOUTH WEST TRAINING SCHOOL WEST MIDLANDS WEST MIDLANDS	1 9 8 16 5 6 22 4 1 8 2
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS NORTH WEST SOUTH EAST SOUTH WEST TRAINING SCHOOL WEST MIDLANDS WEST MIDLANDS YORKSHIRE NORTH EAST	1 9 8 16 5 6 22 4 1 8 2 8
AREA 14 AREA 3 AREA 6&8 AREA 7 EAST EAST MIDLANDS NORTH WEST SOUTH EAST SOUTH WEST TRAINING SCHOOL WEST MIDLANDS WEST MIDLANDS	1 9 8 16 5 6 22 4 1 8 2

Annex B – List of National Highways Outstation & Asset delivery locations

NORTH WEST

North West RCC Newton – Le – Willows Warrington Cheshire WA12 0DS

Milnrow Outstation Milnrow Motorway Unit Elizabethan Way Rochdale Lancashire, OL16 4LG

North East RCC Kestrel House Calder Business Park Dale Road Wakefield, WF2 7UA

Carrville Outstation Motorway Compound A1 (M)Junction 62 Meadow Lane Durham, DH1 1TZ

East Midlands RCC Eric Belfield House Nottingham business park Nottingham NG8 6PZ

Watford Gap Outstation Motorway Compound Watford Village Northamptonshire NN6 7UZ

Heath Depot A6075 Heath Chesterfield S44 5SL

Shepshed Depot Ashby Road Shepshed Loughborough LE12 9BU Knutsford Outstation Knutsford Motorway Unit Northwich Road Tabley

Cumbria South outstation Millness Depot Crooklands Milnthrope Cumbria, LA7 7NR

Cheshire, WA16 0TL

NORTH EAST

Tingley Outstation Motorway Compound Dewsbury Road Tingley Leeds, WF3 1SW

Sprotbrough Outstation Sprotbrough Depot Doncaster South Yorkshire DN5 7PY

EAST MIDLANDS

Felley Outstation Felley Motorway Compound Mansfield Road Annesley Nottinghamshire, NGA5 0AS

Stirling House (AREA 7) Lakeside Court Osier Drive Sherwood Business Park Nottingham, NG15 0DS

Felley Depot Mansfield Road Annesley Nottingham NG15 0AS

Leicester Forest East Depot M1 J21 Service AREA N/B Baines Lane Leicester LE3 3GB

- Samlesbury Outstation Motorway Unit Preston New Road Samlesbury Preston, PR5 0UJ
- Cumbria North Outstation Lowhurst Motorway Unit Wreay Carlisle Cumbria, CA4 0RH

Barton Outstation Barton Police post A1(M) Junction 56 Barton Richmond, DL10 5NH

West Cowick Outstation Maintenance Compound Finnley's Lane West Cowick Goole, DN14 9ED

Shepshed Outstation Motorway Compound Ashby Road Shepshed Leicestershire, LE12 9DJ

Newark Depot Stephenson Way Newark NG24 2QT

Sandiacre Depot Bostocks Lane Sandiacre Nottingham NG10 5ND

Misterton Depot M1 Motorway Compound Misterton Lutterworth LE17 4HP Rothersthorpe Depot M1 Motorway Compound J15A Northbound Service AREA Northampton NN4 9QS Pytchley Depot Pegasus Court Kettering South Bus. AREA Northants NN15 6XS

EAST

East RCC & South Mimms St Albans Road South Mimms Hertfordshire EN6 3NP

Heston Outstation Heston Depot M4 Maintenance compound Heston Middlesex, TW5 9RY

South East RCC

Easton Lane Outstation

Hampshire, SO23 7TY

Maintenance Unit

Fosterdown

Godstone

RH9 8BQ

Surrey

Winnal

Winchester

Toddington Outstation M1 Motorway Depot Toddington Bedfordshire LU5 6HP

Chieveley Outstation Motorway Services AREA Oxford Road Thatcham Berkshire, RG18 9XX Whittlesford Outstation Motorway Maintenance Depot Station road east Whittlesford Cambridgeshire, CB22 4NL

Milton Common Outstation London Road Milton Common Thame Oxfordshire, OX9 2UN

SOUTH EAST

Coldharbour Outstation Coldharbour PCO London Road Coldharbour Maidstone, ME 20 7SL

Dartford Crossing Dartford River Crossing South Orbital Way Dartford Kent, DA1 5PR Weatherhill Outstation Weatherhill Depot Hathersham Close Smallfield Surrey, RH6 9JE

SOUTH WEST						
South West RCC	Pridhamsleigh Outstation	Chelston Outstation				
St Brendan's Court	Pridhamsleigh Depot	Motorway Compound				
Avonmouth	Old Pridhamsleigh Quarry	Wellington				
Bristol	Buckfastleigh	Somerset				
BS11 9FB	Devon, TQ11 0JR	TA21 9PL				
Almondsbury Outstation	Stanton St. Quinton Outstation	Tormarton Motorway Maintenance Depot				
Motorway Maintenance Depot	Motorway Maintenance compound	Dodington Ash				
Gloucester Road	Stanton St. Quinton	Chipping Sodbury Bristol				
Almondsbury	Chippenham	BS37 6EJ				
Bristol, BS23 4AG	Wiltshire SN14 6BD					
Eastington Motorway Maintenance Depot	Falfield Motorway Maintenance Depot	Edithmead Motorway Maintenance Depot				
Fromebridge	Tortworth Road	Near Highbridge				
Whitminster	Falfield	Bridgwater				
Gloucester	South Gloucestershire	Somerset				
GL12 7NJ	GL12 8EE	TA9 4HF				
WEST MIDLANDS						
West Midlands RCC & NTOC	Strensham Outstation	Longbridge Outstation				
Quinton Business Park	Motorway Compound	Motorway Compound				
1 Ridgeway	Hill View Road	Barsord road				
Quinton	Upper Strensham	Longbridge				
Birmingham, B32 1AF	Worcester, WR8 9LJ	Warwick, CV34 6RB				
Ansty Outstation	Hilton Park Outstation					
Maintenance Depot	Motorway Compound					
Maintenance Depot Main Road	Shareshill					
Ansty	Wolverhampton West Midlands, WV11 2AP					
Coventry, CV7 9JA	WEST WILLIAMS, WVIIZAF					

Annex C – List of potential additional vehicle makes / models to fleet.

Manufacturer	Model
BMW	X1 xDrive25e PHEV xLine AT
BMW	X2 xDrive25e PHEV xLine AT
Ford	Transit Custom PHEV
Ford	Kuga zetec PHEV
Volvo	V90 T6 Recharge
LEVC	VN5
Hyundai	i30 tourer
Kia	Xceed PHEV
Hyundai	Kona