

# **UK Pavement Management System**



## **Annual Health Check 2021**

### ***Requirements***

**Version Number 1.00 – Issue**

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## Document Information

<b>Title (Sub Title)</b>	Annual Health Check 2021 Requirements
<b>Author</b>	Ro Cartwright
<b>Description</b>	This document gives the requirements for the 2021 UKPMS Annual Health Check

## Document History

<b>Version No</b>	<b>Status</b>	<b>Author</b>	<b>Date</b>	<b>Changes from Previous Version</b>
0.01	Draft	RAC	06.03.20	First draft based on 2020 AHC Requirements but revised: <ul style="list-style-type: none"><li>To clarify the wording in Table 1.</li></ul>
0.02	Draft	RAC	12.04.21	Quality review by CCS
1.00	Issue	RAC	13.04.21	Ratified by Amanda Richards for RCMG

## Document Owner

The owner of this document is the Road Condition Management Group (RCMG).

## Document Support

Support for this document is provided by Linhay Consultancy Ltd and Hyperion Infrastructure Consultancy Ltd who can be contacted via [ukpms@hyperion-uk.com](mailto:ukpms@hyperion-uk.com). These organisations have been appointed as the UKPMS accreditors by the UK Roads Board.

This document can be found online on the [RCMG website](#).



## Glossary of Terms

<b>Acronym</b>	<b>Meaning</b>
AHC	Annual Health Check
CVI	Coarse Visual Inspection
DfI(NI)	Department for Infrastructure (Northern Ireland)
DfT	Department for Transport
DVI	Detailed Visual Inspection
FCMG	Footway and Cycletrack Management Group
FNS	Footway Network Survey
HAMFIG	Highways Asset Management Financial Information Group
R&P	Rules and Parameters
RCMG	Road Condition Management Group
SCOTS	Society of Chief Officers of Transportation in Scotland
TRL	Transport Research Laboratory
UKPMS	UK Pavement Management System
UKRB	UK Roads Board
VSSG	Visual Survey Subgroup



## Introduction

UKPMS is a valued and respected standard for pavement management systems in the UK. In addition to being used for national performance reporting, UKPMS-accredited systems are also used by many local authorities for asset management and to provide accounting information on their highway infrastructure assets. UKPMS accreditation provides assurance that the UKPMS standard is being maintained and that consistent results are being generated.

The purpose of the UKPMS Annual Health Check (AHC) is to provide assurance that UKPMS systems continue to meet UKPMS requirements. This includes national reporting and the use of the current Rules & Parameters. The AHC is only carried out on fully accredited UKPMS systems.

The AHC is intended to be a pragmatic and less onerous alternative to repeating the full Accreditation Process when an existing UKPMS system is modified.

UKPMS accreditation is the responsibility of the Road Condition Management Group (RCMG) under the auspices of the UK Roads Board (UKRB). The RCMG have appointed UKPMS accreditors (Linhay Consultancy and Hyperion Infrastructure Consultancy) to conduct the AHC.

The purpose of this document is to provide information about the format and content of the 2021 UKPMS AHC.

It is arranged in four parts:

- **Changes since last version**
- **UKPMS Annual Health Check:** An introduction to the UKPMS AHC, explaining its purpose and governance in more detail.
- **UKPMS Annual Health Check Arrangements:** Principles governing the AHC arrangements together with a guide to maintaining UKPMS accreditation via the AHC.
- **UKPMS Annual Health Check Scope:** A guide to the scope of the tests.

## Changes since last version

This document based on the 2020 AHC Requirements but revised:

- To clarify the wording in Table 1

## UKPMS Annual Health Check

### ***Purpose of the UKPMS Annual Health Check***

In 2017 RCMG formed a task-and-finish group to develop a future vision for the collection and management of data used by local highway authorities. They held a workshop and produced a paper (*Summary Proposals from Future Vision Workshop, Aug 2017*<sup>1</sup>) which was well-received by RCMG and the Department for Transport (DfT) and was also acknowledged during the Local Roads Inquiry being carried out by the Transport Select Committee (Dec 2018). A key element of the future vision framework

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<sup>1</sup> 170901\_RCMG TaskGroup FutureVision



described in this paper was that it should be 'led by the outputs not the method used' and that the focus of UKPMS should be on 'those outputs used by Local and central government, and the Devolved Administrations, to meet national and local statistical/benchmarking/financial reporting needs'.

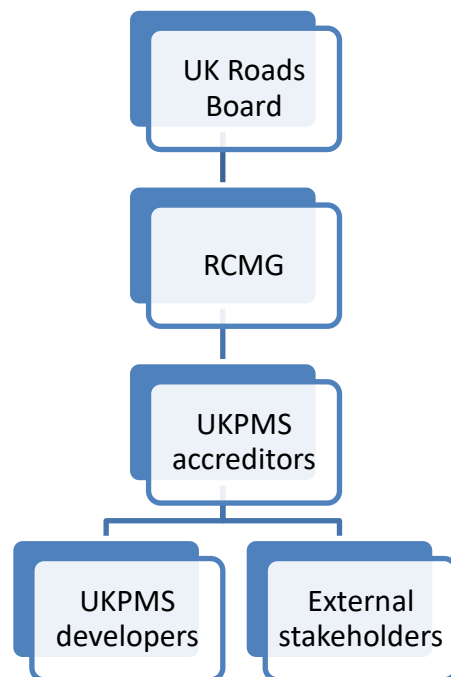
Consequently, the proposals from the 2017 Future Vision Workshop have been used to provide a direction for the UKPMS AHC. The focus of the tests is the reports proposed by the external stakeholders of UKPMS and accepted by RCMG for inclusion in UKPMS.

Of course, reporting requirements change over time, and UKPMS evolves accordingly. The emphasis of the UKPMS AHC is to check if the version of the system tested meets the current requirements for UKPMS. The AHC is therefore the process by which a system maintains its status as a UKPMS accredited system.

The purpose of the UKPMS AHC is to provide a mechanism for systems to maintain UKPMS-accredited status and to provide assurance for stakeholders and users of these systems that the version of the system tested satisfies the current requirements for UKPMS.

### **UKPMS Annual Health Check Governance**

As described above, the governance arrangements for UKPMS involve the UKRB, RCMG, UKPMS accreditors and external stakeholders. The relationships between these different entities are shown in Figure 1 below.



**Figure 1**

The role of each of these, in connection with UKPMS, is provided in Table 1 below.



<b>Organisation</b>	<b>Role</b>
UK Roads Board	Provides oversight of UKPMS, particularly with regard to the appeal procedure
Road Condition Management Group	UKPMS is within its remit. RCMG owns the UKPMS AHC and ensures that it meets the needs of external stakeholders. In particular, RCMG: <ul style="list-style-type: none"> <li>▪ Appoints UKPMS accreditors;</li> <li>▪ Signs off UKPMS requirements;</li> <li>▪ Ratifies accreditation of organisations; and</li> <li>▪ Hosts the publication of results on its website</li> </ul>
UKPMS accreditors	Day-to-day management of UKPMS for RCMG Liaise with RCMG, external stakeholders and UKPMS developers. Carry out AHC, including the preparation of the test package, checking of results, recommendations to RCMG and the publication of results on the RCMG website
External stakeholders	Responsible for the UKPMS requirements for their area of interest. Their requirements are documented in a UKPMS Technical Note which they own and have responsibility for creating, maintaining, updating and deleting as required. They are asked to review their requirements annually.
UKPMS developers	Develop commercial systems to meet the UKPMS requirements. Undertake tests to demonstrate that their system produces results which are consistent with the requirements. A representative of the UKPMS developers is a member of RCMG and any UKPMS developer can apply to be a corresponding member of RCMG.

**Table 1**

## **Defining the requirements for UKPMS**

The external stakeholders for UKPMS define the output requirements (and the evolution of these over time) for their area of interest. Their requirements are captured in Technical Notes (as given in Table 2 below) and it is these which provide the de-facto specification for UKPMS. That is, the reports defined in the Technical Notes are used as the basis for the UKPMS test package, subject to approval by RCMG.

However, as explained in more detail below, there is some flexibility within the test regime for developers to choose which reports their systems provide; they do not necessarily have to meet the requirements in all the Technical Notes.

Each year, the UKPMS accreditors:

- Contact all the external stakeholders, to ask them if there are any changes to their Technical Notes.
- Prepare the UKPMS AHC requirements based on the Technical Notes.
- Submit the annual requirements to RCMG for sign-off.
- Publish the annual requirements on the RCMG website so that these are publicly available.



In addition to this annual review of the requirements, the UKPMS accreditors also carry out a mid-year review of the requirements with stakeholders to find out in advance if any requirements are likely to change for the next year. The purpose of this mid-year review is to alert developers to potential future changes and to allow time for discussion about the implementation of these.

<b>External stakeholder</b>	<b>Technical Notes</b>
RCMG	TN3: Part 1 HMDIF file structures and content Part 2 SCANNER HMDIF specification TN38: Production of the Best Value Performance Indicator Report for BV224b – Condition of Non-Principal Unclassified Roads TN49: Weighting Set Processing: Implementation Guidelines for UKPMS Developers
FCMG <sup>2</sup>	TN29: Production of the Best Value Performance Indicator Report for BV187 – Condition of Footways TN47: Footway Network Survey: Network Performance Reports
HAMFIG <sup>3</sup>	TN46: Financial Information to support Asset Management Guidance notes for UKPMS Developers Part 1 Carriageways Part 2 Footways & Cycletracks
England <sup>4</sup>	TN44: Data Topic 130-01 guidance notes for UKPMS Developers TN45: Data Topic 130-02 guidance notes for UKPMS Developers
Scotland <sup>5</sup>	TN41: SRMCS PI guidance notes for UKPMS Developers
Northern Ireland <sup>6</sup>	TN42: Northern Ireland PI guidance notes for UKPMS Developers Part 1 Visual survey Part 2 SCANNER survey
Wales <sup>7</sup>	TN43: Welsh PI guidance notes for UKPMS Developers
VSSG <sup>8</sup>	Oversees visual surveys for UKPMS
TRL <sup>9</sup>	SCANNER accreditors

**Table 2**

### **Governance of accreditation decision**

The UKPMS accreditors develop tests in accordance with the UKPMS requirements and issue these as a test package to developers who have enrolled for AHC testing. Once the UKPMS accreditors have reviewed the test results submitted by the developer they make a recommendation to the chair of the RCMG, regarding accreditation of the

<sup>2</sup> Footway and Cycletrack Management Group. This group reports to the UK Roads Board

<sup>3</sup> Highways Asset Management Financial Information Group

<sup>4</sup> Via the Department for Transport

<sup>5</sup> Via the Society of Chief Officers of Transportation in Scotland (SCOTS)

<sup>6</sup> Via the Department for Infrastructure (Northern Ireland)

<sup>7</sup> Via Data Cymru

<sup>8</sup> Visual Survey Subgroup. This subgroup reports to RCMG

<sup>9</sup> Transport Research Laboratory



system. The recommendation may include caveats<sup>10</sup> from the UKPMS Escalation and Appeal Process. The most typical caveats are listed below and do not prevent the system from being accredited:

- **Agreed Differences:** These are trivial differences which are not considered to have an impact on accreditation status. They are recorded, and are shared with the chair of RCMG but are not publicly distributed.
- **Notes:** These are issues which are considered acceptable for accreditation but which may be important to users or potential users. Examples are optional tests which the developer has elected not to submit. Notes are publicly available.
- **Improvement Plan items:** These are issues which are deemed to be acceptable for the current AHC, but which the developer is required to resolve by the next AHC (or exceptionally by some other agreed deadline). Any developer with an improvement plan item from the previous AHC will be required to provide evidence to demonstrate that it has been resolved.

Provided the chair of the RCMG is satisfied with the recommendation made by the UKPMS accreditors, the developer is notified accordingly and the system version is accredited. Successful systems are issued with a certificate (which includes the system version and any Notes) and this is published on the RCMG website. Information is not published about unsuccessful systems.

If a developer is not satisfied with the outcome of the tests or the way they have been conducted they can submit an appeal to the UK Roads Board under the UKPMS Escalation and Appeal Process.

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<sup>10</sup> In the UKPMS Escalation and Appeal Process these are referred to as 'sanctions'.





## UKPMS Annual Health Check Arrangements

### ***Principles of UKPMS Accreditation***

The principles underpinning the UKPMS AHC arrangements are listed below:

- The basic principle of UKPMS accreditation is that consistent outputs are produced for a given set of input data.
- Once a system has achieved accredited status it will be re-tested annually, via the AHC in order to maintain accreditation.
- Accreditation is linked to the version of the system used for the tests. Other versions can be accredited using this as a baseline (see [Maintaining UKPMS Accreditation](#) below)

The system version number must be the complete number (i.e. including sub-version) used to uniquely identify the particular version of the system. Only this version will be accredited. Only one version may be submitted for accreditation at any one time and subsequent versions are handled via the Interim Accreditation Process (see [Maintaining UKPMS Accreditation](#), below).

- The focus of the UKPMS AHC is the outputs produced by systems (rather than the methods used to obtain those outputs). This is in keeping with the Future Vision Workshop framework. It is not mandatory to use the standard processing methods; provided their system can produce the required results in the output reports the developer is free to use alternative methods.
- Some AHC tests will be carried out as 'unseen' tests; that is the organisation will not be supplied with the expected results.
- The UKPMS AHC is funded by the AHC fees and the fee for the AHC is a fee to sit the tests and is not a guarantee of success.
- The UKPMS Accreditation Process and the AHC share a common library of tests. The initial accreditation tests will include all of the relevant tests from the library whereas the AHC will be based on a subset of tests from the library (which changes from year-to-year).
- UKPMS accreditation is split into categories (SCANNER, Visual). An organisation may choose to maintain accreditation (via the AHC) for both categories or for just one category. However, if an organisation only maintains their accreditation for one category and subsequently wishes to add (or resume) their accreditation for the other category they will be required to do so via the UKPMS Accreditation Process.
- Within each category some of the individual tests may be optional, providing additional flexibility for maintaining accredited status. The information published about the accredited system will indicate any optional tests that the developer has chosen not to submit.
- When the UKPMS accreditors carry out their checking they will only offer feedback on the differences which are apparent. It may be that there are further differences masked by the initial differences and which only emerge once the initial differences are resolved.
- The AHC will be based on tests using reference data. However, in addition to the AHC there is a compulsory post-AHC exercise which uses real-world data. The findings from this exercise do not affect the current accredited status for the



developer but may lead to items being added to their improvement plan. The post-AHC exercise is also used to inform the requirements for future AHCs.

- The AHC is intended to reflect the current needs for UKPMS rather than the tests used for the original accreditation; that is, the AHC will evolve to reflect any changes to the requirements. To facilitate this, the AHC operates on an annual cycle. This annual cycle allows new requirements to be added annually, and also allows for revisions of the Rules & Parameters.
- The AHC will normally be updated annually, but revisions to the AHC may also be introduced at a second point within the annual timetable, referred to as the secondary window. Revisions made during the secondary window take the form of optional alternative tests and will normally be fully integrated into the next main AHC. The timetable for the main AHC and this secondary window is given in the following table:

<b>Dates</b>	<b>Main AHC</b>	<b>Secondary Window</b>
May to July	Prepare AHC materials	Gather revisions for secondary AHC window
August to October	AHC carried out by developers	
November to January	UKPMS system versions released to users.	Revise AHC materials
February to April	Gather requirements for next AHC	Secondary AHC window

**Table 3**

- Every developer<sup>11</sup> with a fully accredited UKPMS system must undertake the AHC each year either during the main AHC window or within the secondary window. Note that even if a developer has not changed their software they must still carry out the AHC in order to maintain their accreditation.
- Versions will only be accepted for full accreditation within the two AHC windows. However, if necessary, checking and the submission of additional information (on request) may continue beyond the end of the window.

### **Maintaining UKPMS Accreditation**

For both the main AHC and the secondary window, accreditation remains valid for 13 months following the end of the main AHC window (regardless of whether the accreditation has been carried out within the main AHC window or within the secondary window). The main AHC window is August to October and so accreditation remains valid until the end of November of the following year.

Once full accreditation has been obtained, if a developer releases any new versions commercially during the year they must follow the Interim Accreditation Process. This is the process for accrediting new system versions outside the standard AHC period and is described in the UKPMS Interim Accreditation document. The developer must decide whether the changes have any impact on UKPMS modules or UKPMS results and fill in the Interim Accreditation Checklist as appropriate. A completed Checklist should be submitted for each interim version requiring accreditation, along with any necessary

<sup>11</sup> Other than newly-accredited developers, who are able to submit at any time during the year (i.e. not constrained by time windows) for their first AHC. However, for their second AHC and beyond they will be expected to fit in with the usual AHC windows.



supporting documents. Provided the UKPMS accreditors are satisfied that the Interim Accreditation Process has been carried out satisfactorily the new version will be accredited alongside the baseline AHC accreditation.

Interim accreditations for the current AHC will be accepted at any time up to the release of the next AHC package and are not constrained by the time windows. Interim accreditation is linked to the baseline AHC accreditation and only lasts for the duration of that accreditation.

### ***Timetable summary for the 2021 AHC***

The AHC will be revised during the period February - July, and published by the end of July 2021. During the review process the RCMG will be asked to agree the new requirements and any changes to these will then be reflected in the test package itself.

Established developers should submit the AHC by the end of October 2021 for any version they wish to be accredited during the main AHC window. A secondary window for accreditation will be offered February–April 2022. Developers will be given the opportunity to book a time slot for submission of their test results if they wish.

Newly-accredited developers (i.e. those carrying out the AHC for the first time following their initial accreditation) can submit the AHC at any time from when it is released (i.e. the end of July 2021) until the beginning of June 2022; they are not constrained by the time windows. Accreditation under the 2021 AHC will remain valid until the end of November 2022, just as for established developers.

The mandatory post-AHC exercise will take place in a single phase immediately after the main AHC window. Developers can choose between the main AHC window and the secondary window for their accreditation but, regardless of their choice, **all developers<sup>12</sup> must submit data for the post-AHC exercise during the main AHC window**. All developers will be required to participate in the post-AHC exercise directly after the main AHC window and will be expected to submit results and any follow-up work promptly during this exercise.

The only accredited versions are those that have successfully completed the current AHC; versions accredited under the 2020 AHC do not carry the accreditation forward beyond the end of November 2021.

Once full accreditation via the 2021 AHC has been obtained for a version then further versions may be submitted for accreditation under the Interim Accreditation Process any time up to the release of the 2022 AHC package.

Accreditations obtained for the 2021 AHC will remain valid until the end of November 2022.

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<sup>12</sup> Including newly-accredited developers



## UKPMS Annual Health Check Scope

The scope of the UKPMS AHC is based on the requirements of UKPMS external stakeholders (as defined in their Technical Notes) and agreed by RCMG.

The emphasis of the AHC is on producing results which satisfy the reporting requirements of UKPMS stakeholders and which are consistent with the results produced by other accredited UKPMS systems.

### **UKPMS Rules & Parameters**

The reports produced by UKPMS are underpinned by the national Rules & Parameters (R&P). These govern how UKPMS data is handled and are available as a database (MS Access) from the RCMG website. The R&P also contain parameters and processing rules beyond those required for current UKPMS reporting. For UKPMS accreditation, developers are not required to implement the R&P in full; instead they may choose to implement only those parts of the R&P used in the AHC.

The network and inventory datasets used for testing may contain codes which are included in the R&P but that have no bearing on current reporting requirements. Likewise data collected for UKPMS via SCANNER or visual surveys may include defects that are included in the R&P but that are not currently used for the UKPMS AHC. Given that these codes and defects will typically be present in UKPMS datasets, systems are expected to be able to handle them appropriately. The datasets used for the AHC will, therefore, include additional defects and other codes beyond those used for reporting.

The R&P and codes/defects collected are practical issues which must be handled in a pragmatic way but the focus of the tests is the reports required by the UKPMS stakeholders.

The weighting sets used in the AHC will be those currently specified for national reporting.

### **UKPMS Tests**

Developers can address the requirements in a way which best suits their system provided they can produce the required results. This allows developers to 'innovate in the analysis and reporting of condition data' while still retaining 'the ability to deliver national reporting of condition and asset value using processes that have established levels of consistency and assurance' (*Summary Proposals from Future Vision Workshop, Aug 2017*).

This approach also allows UKPMS to be 'more flexible and better able to change as technology and requirements evolve' (*ibid.*). Note that an implication of this freedom is that the requirements for accreditation and the AHC may change over time and it is almost inevitable that some UKPMS systems may be able to accommodate future changes more easily than others.

The 2021 AHC consists of two types of tests:

- **Seen results:** For these tests, expected results are provided to the developer as part of the AHC test package. The developer is required to check their results



against the supplied results and the onus is on the developer to track down any differences between their software and the expected results. Once they are satisfied that their system produces the expected results, they submit evidence to confirm this; this evidence is audited by the UKPMS accreditors.

- **Unseen results:** For these tests, no results are included in the 2021 AHC test package. The developer submits their results for checking by the UKPMS accreditors.

The core test dataset is designed around the smallest number of sections and processing runs necessary to test all the requirements. The test dataset is 'artificial'; it is designed specifically for the tests and is not drawn from real data. However, there is also a mandatory post-AHC exercise involving real-world data which developers are required to source and provide (see Test 2021-13 below).

Table 4 below lists the AHC tests and gives the category of testing (SCANNER, Visual or Both) to which each test applies.

Test ID 2021	Description	Category		
		S	V	B
<a href="#">01</a>	England: national report 130-01	✓		✓
<a href="#">02</a>	England: national report 130-02	✓		✓
<a href="#">03</a>	Scotland: national report SRMCS PI	✓		✓
<a href="#">04</a>	Northern Ireland: national report (visual)		✓	✓
<a href="#">05</a>	Northern Ireland: national report (SCANNER)	✓		✓
<a href="#">06</a>	Wales: national report (PAM/020-022)	✓		✓
<a href="#">07</a>	Financial reports (carriageways)			✓
<a href="#">08</a>	Financial reports (footways and cycletracks)		✓	✓
<a href="#">09</a>	England: local report BV224b		✓	✓
<a href="#">10</a>	England: local report BV187		✓	✓
<a href="#">11</a>	England: FNS report		✓	✓
<a href="#">12</a>	Loading data	✓	✓	✓
<a href="#">13</a>	Exporting data	✓	✓	✓

Category: S= SCANNER, V=Visual, B=Both

**Table 4**

Note that carriageway financial reporting (Test 2021-07) can only be completed by developers who are carrying out both categories of accreditation.

Table 5 to Table 17 below give more details about each of these tests in turn.



<b>Test ID: 2021-01</b>	<b>National report for England (130-01)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the single data list report for data topic 130-01 in a consistent way.	
<b>Stakeholder</b> DfT	<b>Technical Notes</b> Technical Note 44
<b>Categories:</b> SCANNER <del>Visual</del> Both	<b>Status</b> This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
<b>Test Description</b> The developer will be provided with network and SCANNER data for carriageways (see Test 2021-12) and asked to produce the report for data topic 130-01 using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

Table 5

<b>Test ID: 2021-02</b>	<b>National report for England (130-02)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the single data list report for data topic 130-02 in a consistent way.	
<b>Stakeholder</b> DfT	<b>Technical Notes</b> Technical Note 45
<b>Categories:</b> SCANNER <del>Visual</del> Both	<b>Status</b> This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
<b>Test Description</b> The developer will be provided with network and SCANNER data for carriageways (see Test 2021-12) and asked to produce the report for data topic 130-02 using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

Table 6



<b>Test ID: 2021-03</b>	<b>National report for Scotland (SRMCS PI)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the SRMCS PI report in a consistent way.	
<b>Stakeholder</b> SCOTS	<b>Technical Notes</b> Technical Note 41
<b>Categories:</b> SCANNER Visual Both	<b>Status</b> This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
<b>Test Description</b> The developer will be provided with network and SCANNER data for carriageways (see Test 2021-12) together with network lengths and asked to produce the report for the SRMCS PI using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

**Table 7**





<b>Test ID: 2021-04</b>	<b>National report for Northern Ireland (Visual data)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the Northern Ireland PI (visual data) report in a consistent way.	
<b>Stakeholder</b> DfI (NI)	<b>Technical Notes</b> Technical Note 42 (Part 1)
<b>Categories:</b> SCANNER Visual Both	<b>Status</b> This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
<b>Test Description</b> The developer will be provided with network and CVI visual data for carriageways (see Test 2021-12) and asked to produce the Northern Ireland visual survey report using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

Table 8

<b>Test ID: 2021-05</b>	<b>National report for Northern Ireland (SCANNER data)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the Northern Ireland PI (SCANNER data) report in a consistent way.	
<b>Stakeholder</b> DfI (NI)	<b>Technical Notes</b> Technical Note 42 (Part 2)
<b>Categories:</b> SCANNER Visual Both	<b>Status</b> This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
<b>Test Description</b> The developer will be provided with network and SCANNER data for carriageways (see Test 2021-12) and asked to produce the Northern Ireland SCANNER survey report using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

Table 9





<b>Test ID: 2021-06</b>	<b>National report for Wales</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the Welsh PI report for PAM/020, PAM/021 and PAM/022 in a consistent way.	
<b>Stakeholder</b> Data Cymru	<b>Technical Notes</b> Technical Note 43
<b>Categories:</b> SCANNER Visual Both	<b>Status</b> This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
<b>Test Description</b> The developer will be provided with network and SCANNER data for carriageways (see Test 2021-12) and asked to produce the Welsh PI report using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

**Table 10**



<b>Test ID: 2021-07</b>		<b>Financial information (carriageways)</b>	
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the financial information reports for carriageways in a consistent way.			
<b>Stakeholder</b> HAMFIG		<b>Technical Notes</b> Technical Note 46 (Part 1)	
<b>Categories:</b> SCANNER Visual Both		<b>Status</b> This test is optional.	
<b>Test Description</b> The developer will be provided with network, inventory, SCANNER and visual (CVI and/or DVI) data for carriageways (see Test 2021-12) together with other input parameters and asked to produce the financial reports for carriageways using this data. These reports are: <ul style="list-style-type: none"> <li>▪ The carriageway accumulated depreciation report</li> <li>▪ The carriageway annual depreciation report</li> <li>▪ The carriageway inventory report to support GRC calculations</li> </ul>			
<b>Evidence</b> The reports produced by the system. Annotations on the reports or a commentary indicating clearly where each of the required figures may be found on the reports.			
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.			

**Table 11**



<b>Test ID: 2021-08</b>	<b>Financial information (footways and cycletracks)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the financial information reports for footways and cycletracks in a consistent way.	
<b>Stakeholder</b> HAMFIG	<b>Technical Notes</b> Technical Note 46 (Part 2)
<b>Categories:</b> SCANNER Visual Both	<b>Status</b> This test is optional.
<b>Test Description</b> The developer will be provided with network, inventory and visual (FNS, CVI and/or DVI) data for footways, cycletracks and paved verges (see Test 2021-12) and asked to produce the financial reports for footways, cycletracks and paved verges using this data. These reports are: <ul style="list-style-type: none"> <li>▪ Reports to support depreciation calculations for footways, cycletracks and paved verges</li> <li>▪ Inventory reports for footways, cycletracks and paved verges to support GRC calculations</li> </ul>	
<b>Evidence</b> The reports produced by the system. Annotations on the reports or a commentary indicating clearly where each of the required figures may be found on the reports.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

Table 12



<b>Test ID: 2021-09</b>	<b>Local report for England (BV224b)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the local performance indicator report for unclassified roads in a consistent way.	
<b>Stakeholder</b> RCMG	<b>Technical Notes</b> Technical Note 38
<b>Categories:</b> SCANNER Visual Both	<b>Status</b> This test is optional.
<b>Test Description</b> The developer will be provided with network and CVI visual data for carriageways (see Test 2021-12) and asked to produce the BV224b report for unclassified roads using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

**Table 13**



<b>Test ID: 2021-10</b>	<b>Local report for England (BV187)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the local performance indicator report for footways in a consistent way.	
<b>Stakeholder</b> FCMG	<b>Technical Notes</b> Technical Note 29
<b>Categories:</b> SCANNER Visual Both	<b>Status</b> This test is optional.
<b>Test Description</b> The developer will be provided with network, inventory and DVI visual data for footways (see Test 2021-12) and asked to produce the BV187 report for footways using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

Table 14

<b>Test ID: 2021-11</b>	<b>Local network performance report for England (FNS)</b>
<b>Purpose</b> This test checks that all UKPMS-accredited systems produce the FNS network performance report for footways in a consistent way.	
<b>Stakeholder</b> FCMG	<b>Technical Notes</b> Technical Note 47
<b>Categories:</b> SCANNER Visual Both	<b>Status</b> This test is optional.
<b>Test Description</b> The developer will be provided with network and FNS visual data for footways (see Test 2021-12) and asked to produce the FNS report for footways using this data.	
<b>Evidence</b> The report produced by the system. Annotations on the report or a commentary indicating clearly where each of the required figures may be found on the report.	
<b>Sanctions</b> If this test is not submitted a Note will be recorded for the system.	

Table 15



<b>Test ID: 2021-12</b>	<b>Loading UKPMS network, inventory and condition data</b>
<p><b>Purpose</b> The purpose of this test is to:</p> <ol style="list-style-type: none"> <li>1. Provide data for use in the tests</li> <li>2. Find out if the system can load UKPMS data</li> <li>3. Find out if the system can load UKPMS data in HMDIF format</li> </ol>	
<p><b>Stakeholder</b> RCMG</p>	<p><b>Technical Notes</b> Technical Note 3</p>
<p><b>Categories:</b> SCANNER Visual Both</p>	<p><b>Status</b> It is mandatory to be able to load the UKPMS data required to carry out the tests. There is a choice of data format.</p>
<p><b>Test Description</b> The developer will be asked to choose between HMDIF and Excel<sup>13</sup> format for each type of data (network, inventory, condition). NB: It may be possible to provide the data in other formats, but this must be discussed beforehand with the UKPMS accreditors.</p>	
<p><b>Evidence</b> A statement from the developer before beginning the test to confirm which file format they will be using. A statement to confirm if the data has been loaded using functionality available to their users and included in their standard UKPMS system (at no extra charge).</p>	
<p><b>Sanctions</b> If any part of the data is not loaded using functionality available to their users and included in their standard UPKMS system (at no extra charge) a Note will be recorded for the system. If any part of the data is not loaded using HMDIF format a Note will be recorded for the system.</p>	

**Table 16**

<sup>13</sup> For Excel format the data contents and structure will reflect the relevant data tables in the R&P. The data tables in the R&P have names in UPPER CASE.



<b>Test ID: 2021-13</b>	<b>Exporting UKPMS network, inventory and condition data</b>
<p><b>Purpose</b> The purpose of this test is to:</p> <ol style="list-style-type: none"> <li>1. Contribute real-world datasets for the post-AHC exercise</li> <li>2. Find out if the system can export UKPMS data</li> <li>3. Find out if the system can export UKPMS data in HMDIF format</li> </ol>	
<p><b>Stakeholder</b> RCMG</p>	<p><b>Technical Notes</b> Technical Note 3</p>
<p><b>Categories:</b> SCANNER Visual Both</p>	<p><b>Status</b> It is mandatory to be able to export UKPMS data. There is a choice of data format.</p>
<p><b>Test Description</b> The developer must source and submit real-world data if possible. If they are not able to do so, they must contact the UKPMS accreditors to discuss alternative arrangements.</p> <p>The developer will be asked to choose between HMDIF and Excel<sup>14</sup> format for each type of data (network, inventory, condition). NB: It may be possible to accept data in other formats, but this must be discussed beforehand with the UKPMS accreditors.</p> <p>This test must be carried out during the main window of the 2021 AHC (i.e. before the end of October 2021) so that the post-AHC exercise can proceed directly after this.</p>	
<p><b>Evidence</b> A statement from the developer before beginning the test to confirm which file format they will be using. A statement to confirm if the data has been exported using functionality available to their users and included in their standard UKPMS system (at no extra charge). Real-world data and reports for the post-AHC exercise.</p>	
<p><b>Sanctions</b> If any part of the data is not exported using functionality available to their users and included in their standard UPKMS system (at no extra charge) a Note will be recorded for the system. If any part of the data is not exported using HMDIF format a Note will be recorded for the system.</p>	

Table 17

<sup>14</sup> For Excel format the data contents and structure must reflect the relevant data tables in the R&P. The data tables in the R&P have names in UPPER CASE.



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## ***Post-AHC exercise***

All developers are required to submit real-world<sup>15</sup> data during the main window of the 2021 AHC (see Test 2021-13 above). These files will be circulated to other developers during the post-AHC exercise to check that the data can be loaded and processed consistently. The post-AHC exercise is mandatory and will form part of the requirements gathering for the 2022 AHC.

The post-AHC exercise will take place directly after the main AHC window as soon as data has been submitted by all developers and prepared for dissemination. All developers are expected to submit results and any follow-up work promptly during this exercise.

The 2021 post-AHC exercise will focus on footway reporting requirements.

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<sup>15</sup> In exceptional cases, if they are not able to source the required data, developers should contact the UKPMS accreditors to discuss alternative arrangements.