UK Pavement Management System

Accreditation 2021

Requirements

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Document Information

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Document History

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0.01	Draft	RAC	11.05.21	First draft based on the 2020 Accreditation Requirements but revised: ▪ To clarify the wording in Table 1 ▪ To reflect the current Stage 2 test library
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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. These organisations have been appointed as the UKPMS system accreditors by the UK Roads Board.

This document can be found online on the RCMG website.

Glossary of Terms

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

The purpose of this document is to describe the UKPMS Accreditation Process and explain the requirements for becoming accredited. It is intended to provide sufficient detail for interested organisations to decide if they want to apply for UKPMS accreditation and for external stakeholders to understand what is included in UKPMS accreditation.

It is arranged in four parts:

- **Changes since the last version**
- **UKPMS Accreditation:** An introduction to the UKPMS Accreditation Process, explaining its purpose and governance in more detail.
- **UKPMS Accreditation Arrangements:** Principles governing the accreditation arrangements together with a guide to obtaining and maintaining UKPMS accreditation.
- **UKPMS Accreditation Scope:** A guide to the scope of the tests and the information pack for organisations that register for UKPMS accreditation.

Changes since last version

This document is based on the 2020 Accreditation Requirements but revised:
- To clarify the wording in Table 1
- To reflect the current Stage 2 test library

UKPMS Accreditation

Purpose of UKPMS Accreditation Process

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*[1]) 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 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

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[1] 170901_RCMG TaskGroup FutureVision

government, and the Devolved Administrations, to meet national and local statistical/benchmarking/financial reporting needs'. One of the aims described in the paper was that this would help to remove barriers to new entrants.

Consequently, the proposals from the 2017 Future Vision Workshop have been used to provide a direction for the UKPMS Accreditation Process. The focus of the tests is now 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 Accreditation Process is to check if the version of the system tested meets the current requirements for UKPMS. There are also arrangements in place to maintain accreditation after the initial accreditation and these are explained in Maintaining UKPMS Accreditation below.

> The purpose of the UKPMS Accreditation Process is to provide a mechanism for systems to obtain 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 Accreditation 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.
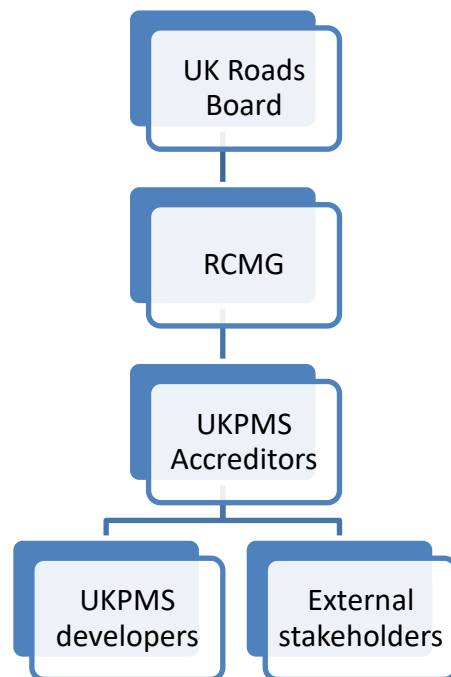
Figure 1

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

Organisation	Role
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 UPKMS Accreditation Process and ensures that it meets the needs of external stakeholders. In particular, RCMG: ▪ Appoints UKPMS accreditors; ▪ Signs off UKPMS requirements; ▪ Ratifies accreditation of organisations; and ▪ Hosts the publication of results on their website
UKPMS Accreditors	Day-to-day management of UKPMS for RCMG Liaise with RCMG, external stakeholders and UKPMS developers. Carry out accreditation, 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.

<div align="center">Table 1</div>

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 accreditation 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.

External stakeholder	Technical Notes
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[2]	TN29: Production of the Best Value Performance Indicator Report for BV187 – Condition of Footways TN47: Footway Network Survey: Network Performance Reports
HAMFIG[3]	TN46: Financial Information to support Asset Management Guidance notes for UKPMS Developers Part 1 Carriageways Part 2 Footways & Cycletracks
England[4]	TN44: Data Topic 130-01 guidance notes for UKPMS Developers TN45: Data Topic 130-02 guidance notes for UKPMS Developers
Scotland[5]	TN41: SRMCS PI guidance notes for UKPMS Developers
Northern Ireland[6]	TN42: Northern Ireland PI guidance notes for UKPMS Developers Part 1 Visual survey Part 2 SCANNER survey
Wales[7]	TN43: Welsh PI guidance notes for UKPMS Developers
VSSG[8]	Oversees visual surveys for UKPMS
TRL[9]	SCANNER accreditors

Table 2

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[2] Footway and Cycletrack Management Group. This group reports to the UK Roads Board
[3] Highways Asset Management Financial Information Group
[4] Via the Department for Transport
[5] Via the Society of Chief Officers of Transportation in Scotland (SCOTS)
[6] Via the Department for Infrastructure (Northern Ireland)
[7] Via Data Cymru
[8] Visual Survey Subgroup. This subgroup reports to RCMG
[9] Transport Research Laboratory

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 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 system. The recommendation may include the following two caveats[10] from the UKPMS Escalation and Appeal Process. Neither of these prevents 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.

Provided the chair of the RCMG is satisfied with the recommendation made by the UKPMS accreditor, 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. Note that although UKPMS escalation includes a range of sanctions, only Agreed Differences and Notes are available for initial accreditation; the other sanctions are not appropriate for systems seeking initial accreditation.

UKPMS Accreditation Arrangements

Principles of UKPMS Accreditation

The principles underpinning the UKPMS accreditation arrangements are listed below:

- It has long been recognised that there should be an opportunity for new systems to be able to become accredited to the UKPMS standard. However, the mechanism and materials used for the original accreditations are not available (because they use obsolete technology) and in any case would not be suitable (because UKPMS has advanced since then). The UKPMS Accreditation Process is therefore a new regime which completely replaces the original comparability tests.
- Once a system has obtained accreditation, no distinction will be made between systems that were accredited under the previous comparability tests and those that are accredited under this new UKPMS Accreditation Process.
- Once a system has achieved accredited status it will be re-tested annually, via the Annual Health Check (AHC) in order to maintain accreditation.

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[10] In the UKPMS Escalation and Appeal process these are referred to as 'sanctions'.

- 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 focus of the UKPMS Accreditation Process 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.
- All accreditation tests will be carried out as 'unseen' tests; that is the organisation will not be supplied with the expected results.
- The UKPMS Accreditation Process will be self-funding; it will not be funded by the AHC fees.
- The fee for accreditation will be comparable to the AHC fee. As with the AHC, it is a fee to sit the tests and is not a guarantee of success.
- The UKPMS Accreditation Process and the AHC will 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).
- The accreditation tests will be split into categories (SCANNER, Visual). An organisation may decide to become accredited for both categories or for just one category, if they wish. Furthermore, they may begin on a path of accreditation for both categories but later in the test process decide to pursue accreditation just for one category.
- Within each category some of the individual tests may be optional, providing additional flexibility for achieving accredited status. However, the information published about the accredited system will indicate any optional tests that have not been submitted.

Obtaining UKPMS Accreditation

If an organisation wishes to become UKPMS-accredited, they must successfully complete a series of tests to demonstrate that they meet the current UKPMS accreditation requirements. They must also provide evidence of system version control; UKPMS accreditation is linked to the specific version of the developer's system used for the tests.

> 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 basic principle of UKPMS accreditation is that consistent outputs are produced for a given set of input data.

The UKPMS Accreditation Process consists of a progression through the following stages:

- **Registration Stage: Information Pack.** The developer is provided with an information pack to help them decide if their system is suitable for UKPMS accreditation. The information pack will include sample results for the processing methods that underpin the output reports. The information pack is intended to provide an indication for the developer of the work required to produce the output reports. However, 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. No results are submitted to (or checked by) the accreditor.

- **Stage 1: Tests using reference data.** The required results for these tests will not be seen by the developer. The system accreditor will check the submitted results against the reference results and provide initial feedback. The developer may then re-submit after which the accreditor will carry out a final check to determine if the results are satisfactory. If the results are not satisfactory and the developer wishes to continue they must apply to re-sit the test and pay an additional fee.
- **Stage 2: Tests using real-world data.** The required results for these tests will not be seen by the developer. The system accreditor will check the submitted results against peer results (which have agreement between at least two systems already accredited) and provide initial feedback. The developer may then re-submit after which the accreditor will carry out a final check to determine if the results are satisfactory. If the results are not satisfactory and the developer wishes to continue they must apply to re-sit the test and pay an additional fee.

The fee for each stage is paid in advance and is a fee to sit the tests; it is not a guarantee of success. The fee for each stage is set as a percentage of the total accreditation fee as shown in Table 3 below.

Stage	Description	Percentage of Accreditation Fee
Registration	Self-test package	25%
1	Unseen tests – reference data	35%
2	Unseen tests – real-world data	40%
	TOTAL	**100%**

Table 3

Further principles for the UKPMS Accreditation Process are:
- When the 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.
- An additional fee will be payable to re-sit Stages 1 or 2. This will be set at 10% of the total accreditation fee for each re-sit.
- Opt-out is available at any stage with no further fees payable; but with no fees reimbursed for that stage or for any preceding stages already completed.
- The fees in Table 3 above, relate to accreditation for both categories combined together. For each stage, the fees for one category (i.e. SCANNER or Visual) of accreditation are set at roughly two-thirds of the equivalent fee for both categories combined. However, there are no further reductions in the fee if a developer chooses not to submit some of the optional tests.

A system will only be recommended for accreditation once it has successfully completed all of the tests required for accreditation, but the staged payment will allow organisations to opt-out without further payment if they realise their system is not suitable for accreditation.

UKPMS accreditation is based on a library of tests for the current requirements; the library is developed and maintained by the UKPMS accreditors. The test library also forms the basis of the AHC and is updated annually (in accordance with the AHC cycle). The old tests are withdrawn at the end of June each year and the new tests are available from August onwards. However, if a developer has already embarked on a stage with a set of tests they will be allowed to complete that stage with those tests.

Accreditation will be based on the full range of tests in the test library. Ongoing accreditation via the AHC as discussed below uses a different subset of these tests each year. This ensures that:

- Testing for initial accreditation is more extensive than for the AHC; and
- Initial accreditation and the AHC are consistent with each other.

Maintaining UKPMS Accreditation

When an organisation becomes UKPMS-accredited they retain that status for 13 months (one year, plus a one month grace period) for the system version tested.

If the UKPMS developer wishes to release a new system version mid-year (i.e. while they are accredited), there is a procedure available to facilitate this. In summary, if the developer self-certifies to the satisfaction of the UKPMS accreditors that the differences between the accredited version and the new version are entirely outside the UKPMS module, the new version is covered by interim accreditation. Interim accreditation is linked to the original accreditation and only lasts for the duration of the original accreditation.

After initial accreditation, in order to maintain accreditation, the developer moves into the AHC regime. The rationale for the AHC is that UKPMS requirements are reviewed annually and there may be changes to these requirements and secondly after a year a re-test of all UKPMS-accredited systems is appropriate as most developers are likely to have moved onto a new version of their system.

The AHC cycle begins in July each year and the newly-accredited developer is required to sign up for the next AHC following their accreditation. So, a system which becomes accredited between Jul-2021 and Jun-2022 would be required to sign up for the 2022 AHC (which runs from Jul-2022 to Jun-2023).

Although the AHC is usually offered in two windows (August to October and February to April), for the first year of the AHC the newly-accredited developer will be able to submit at any time during the year (i.e. not constrained by the time windows). After that, for the second AHC and beyond they will be expected to fit with the usual AHC windows.

Note that this may lead to increased testing of new systems for the first two years (until they are fully within the AHC cycle) but it is reasonable that new systems may be subject to more frequent scrutiny initially.

For all developers, payment for the AHC is at the beginning of the AHC year and newly-accredited developers pay the same fee for the AHC as any other UKPMS developer.

UKPMS Accreditation Scope

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

The emphasis of accreditation is on producing results which satisfy the reporting requirements of UKPMS stakeholders and which are consistent with the results produced by 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 will not be required to implement the R&P in full; instead they may choose to implement only those parts of the R&P used in the accreditation tests.

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 accreditation tests. 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 accreditation tests 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.

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.

Table 4 below lists the accreditation tests, indicating the stage of testing where that test is used, and the category of testing (SCANNER, Visual or Both) to which it applies.

Test ID 2021	Description	Stage		Category		
		1	2	S	V	B
01	England: national report 130-01	✓	✓	✓		✓
02	England: national report 130-02	✓	✓	✓		✓
03	Scotland: national report SRMCS PI	✓		✓		✓
04	Northern Ireland: national report (visual)	✓			✓	✓
05	Northern Ireland: national report (SCANNER)	✓		✓		✓
06	Wales: national report (PAM/020-022)	✓		✓		✓
07	Financial reports (carriageways)	✓	✓			✓
08	Financial reports (footways and cycletracks)	✓	✓		✓	✓
09	England: local report BV224b	✓	✓		✓	✓
10	England: local report BV187	✓	✓		✓	✓
11	England: FNS report	✓	✓		✓	✓
12	Loading data	✓	✓	✓	✓	✓
13	Exporting data	✓		✓	✓	✓

Stage: 1= Reference data, 2=Real-world 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.
- Tests 12 and 13 are mandatory but developers can choose which of the other tests they wish to submit. The information published about successful systems will indicate any tests that have not been submitted.
- Developers undertaking the tests for the SCANNER category must produce the national reports for at least one UK country.
- The Stage 2 test library will be adapted to provide suitable Stage 2 test(s) for the combination of tests chosen by the developer. That is, all developers will be required to carry out Stage 2 test(s) associated with the category they are submitting.

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

Test ID: 2021-01	National report for England (130-01)
Purpose	
This test checks that all UKPMS-accredited systems produce the single data list report for data topic 130-01 in a consistent way.	

Stakeholder	**Technical Notes**
DfT	Technical Note 44

Stages:	**Categories:**
1 – tests using reference data	SCANNER
2 – tests using real world data	~~Visual~~
	Both

Status
This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
Test Description
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.
Evidence
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.
Sanctions
If this test is not submitted a Note will be recorded for the system.

<div align="center">

Table 5

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Test ID: 2021-02	National report for England (130-02)
Purpose	
This test checks that all UKPMS-accredited systems produce the single data list report for data topic 130-02 in a consistent way.	

Stakeholder	**Technical Notes**
DfT	Technical Note 45

Stages:	**Categories:**
1 – tests using reference data	SCANNER
2 – tests using real world data	~~Visual~~
	Both

Status
This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
Test Description
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.
Evidence
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.
Sanctions
If this test is not submitted a Note will be recorded for the system.

<div align="center">

Table 6

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Test ID: 2021-03	National report for Scotland (SRMCS PI)
Purpose This test checks that all UKPMS-accredited systems produce the SRMCS PI report in a consistent way.	

Stakeholder SCOTS	**Technical Notes** Technical Note 41
Stages: 1 – tests using reference data 2 – tests using real world data	**Categories:** SCANNER Visual Both

Status This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.
Test Description 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.
Evidence 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.
Sanctions If this test is not submitted a Note will be recorded for the system.

<div align="center">**Table 7**</div>

Test ID: 2021-04	National report for Northern Ireland (Visual data)
Purpose This test checks that all UKPMS-accredited systems produce the Northern Ireland PI (visual data) report in a consistent way.	
Stakeholder DfI (NI)	**Technical Notes** Technical Note 42 (Part 1)
Stages: 1 – tests using reference data ~~2 – tests using real world data~~	**Categories:** ~~SCANNER~~ Visual Both
Status This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.	
Test Description 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.	
Evidence 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.	
Sanctions If this test is not submitted a Note will be recorded for the system.	

Table 8

Test ID: 2021-05	National report for Northern Ireland (SCANNER data)
Purpose This test checks that all UKPMS-accredited systems produce the Northern Ireland PI (SCANNER data) report in a consistent way.	
Stakeholder DfI (NI)	**Technical Notes** Technical Note 42 (Part 2)
Stages: 1 – tests using reference data ~~2 – tests using real world data~~	**Categories:** SCANNER ~~Visual~~ Both
Status This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.	
Test Description 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.	
Evidence 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.	
Sanctions If this test is not submitted a Note will be recorded for the system.	

Table 9

Test ID: 2021-06	National report for Wales

Purpose

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.

Stakeholder	**Technical Notes**
Data Cymru	Technical Note 43

Stages:	**Categories:**
1 – tests using reference data	SCANNER
2 – tests using real world data	~~Visual~~
	Both

Status

This test is optional, but UKPMS-accredited systems for the SCANNER category must produce the national reports for at least one UK country.

Test Description

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.

Evidence

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.

Sanctions

If this test is not submitted a Note will be recorded for the system.

Table 10

Test ID: 2021-07	Financial information (carriageways)
Purpose This test checks that all UKPMS-accredited systems produce the financial information reports for carriageways in a consistent way.	

Stakeholder HAMFIG	**Technical Notes** Technical Note 46 (Part 1)
Stages: 1 – tests using reference data 2 – tests using real world data	**Categories:** ~~SCANNER~~ ~~Visual~~ Both

Status
This test is optional.

Test Description
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:
- The carriageway accumulated depreciation report
- The carriageway annual depreciation report
- The carriageway inventory report to support GRC calculations

Evidence
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.

Sanctions
If this test is not submitted a Note will be recorded for the system.

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Table 11

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Test ID: 2021-08	Financial information (footways and cycletracks)

Purpose

This test checks that all UKPMS-accredited systems produce the financial information reports for footways and cycletracks in a consistent way.

Stakeholder	Technical Notes
HAMFIG	Technical Note 46 (Part 2)

Stages:	Categories:
1 – tests using reference data 2 – tests using real world data	SCANNER Visual Both

Status

This test is optional.

Test Description

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:

- Reports to support depreciation calculations for footways, cycletracks and paved verges
- Inventory reports for footways, cycletracks and paved verges to support GRC calculations

Evidence

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.

Sanctions

If this test is not submitted a Note will be recorded for the system.

Table 12

Test ID: 2021-09	Local report for England (BV224b)
Purpose	
This test checks that all UKPMS-accredited systems produce the local performance indicator report for unclassified roads in a consistent way.	

Stakeholder	**Technical Notes**
RCMG	Technical Note 38

Stages:	**Categories:**
1 – tests using reference data	SCANNER
2 – tests using real world data	Visual
	Both

Status
This test is optional.

Test Description
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.

Evidence
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.

Sanctions
If this test is not submitted a Note will be recorded for the system.

Table 13

Test ID: 2021-10	Local report for England (BV187)
Purpose This test checks that all UKPMS-accredited systems produce the local performance indicator report for footways in a consistent way.	
Stakeholder FCMG	**Technical Notes** Technical Note 29
Stages: 1 – tests using reference data 2 – tests using real world data	**Categories:** ~~SCANNER~~ Visual Both
Status This test is optional.	
Test Description 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.	
Evidence 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.	
Sanctions If this test is not submitted a Note will be recorded for the system.	

Table 14

Test ID: 2021-11	Local network performance report for England (FNS)
Purpose	
This test checks that all UKPMS-accredited systems produce the FNS network performance report for footways in a consistent way.	

Stakeholder	**Technical Notes**
FCMG	Technical Note 47

Stages:	**Categories:**
1 – tests using reference data	~~SCANNER~~
2 – tests using real world data	Visual
	Both

Status
This test is optional.

Test Description
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.

Evidence
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.

Sanctions
If this test is not submitted a Note will be recorded for the system.

Table 15

Test ID: 2021-12	Loading UKPMS network, inventory and condition data

Purpose

The purpose of this test is to:
1. Provide data for the use in the tests
2. Find out if the system can load UKPMS data
3. Find out if the system can load UKPMS data in HMDIF format

Stakeholder	**Technical Notes**
RCMG	Technical Note 3
Stages:	**Categories:**
1 – tests using reference data 2 – tests using real world data	SCANNER Visual Both

Status

It is mandatory to be able to load the UKPMS data required to carry out the tests. There is a choice of data format.

Test Description

The developer will be asked to choose between HMDIF and Excel 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 accreditor.

The test data will be supplied for the stage in the format agreed with the developer.

Evidence

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).

Sanctions

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.

Table 16

Test ID: 2021-13	Exporting UKPMS network, inventory and condition data

Purpose

The purpose of this test is to:
1. Check that the developer will be able to contribute real-world datasets in due course
2. Find out if the system can export UKPMS data
3. Find out if the system can export UKPMS data in HMDIF format

Stakeholder	Technical Notes
RCMG	Technical Note 3

Stages:	Categories:
1 – tests using reference data	SCANNER
2 – tests using real world data	Visual
	Both

Status

It is mandatory to be able to export UKPMS data.
There is a choice of data format.

Test Description

The developer will be asked to choose between HMDIF and Excel 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 accreditor.

Evidence

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).

Sanctions

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.

Table 17

Information Pack

When a developer registers for UKPMS accreditation they will be provided with an information pack to support them in preparing for the accreditation tests and to help them decide whether or not to pursue accreditation. This will also enable them to be better informed about the requirements for the different categories of accreditation (SCANNER, Visual).

The information pack will contain:
- Guidance on preparing for UKPMS accreditation
- Network data
- Inventory data for carriageways, footways, cycletracks and paved verges
- SCANNER data for carriageways
- Visual survey data (CVI, DVI and FNS) for carriageways, footways, cycletracks and paved verges
- Results obtained from processing SCANNER data using standard UKPMS methods
- Results obtained from processing visual survey data using standard UKPMS methods.

Included in the registration fee will be some support for the developer in navigating these materials and explaining how the results have been calculated, but this time will be capped and the accreditors will not engage in detailed diagnostics or de-bugging.

The methods used in the information pack are not a pre-requisite for UKPMS accreditation; there may well be other approaches which will produce the required results for the accreditation tests. Nevertheless, the information pack provides a useful benchmark for developers to self-assess their approach against the standard UKPMS calculation methods.

Note that successfully matching the results given in the information pack does not guarantee success in the formal accreditation tests, but the information pack will provide the developer with more information on which to base their decisions and development plans.

The results and parameters for these tests:
- will not extend beyond those required to support the UKPMS accreditation tests;
- will be indicative of the processing underpinning the UKPMS accreditation reports;
- will not be comprehensive.

In summary, this is a self-test intended to provide developers with an insight into standard UKPMS methods so that they can take a better-informed decision as to whether their system is able to process UKPMS data in an appropriate way for UKPMS reporting.