Australian Government

**Department of Infrastructure,
Regional Development and Cities**

Road Vehicle Standards

Register of Approved Vehicles Guide

Vehicle Safety Standards

October 2018

Contents

Purpose of this guide

The purpose of this guide is to explain the Register of Approved Vehicles (RAV) and provide direction on how to use the test and live RAV tools in anticipation of the Road Vehicle Standards (RVS) legislation coming into effect.

Who should read this guide?

This guide has been designed for organisations and businesses who intend to enter vehicles on the RAV via the type approval pathway when the RVS legislation comes into effect, anticipated to be in 2019.

Background

The Road Vehicle Standards Bills were introduced into Parliament in February 2018 and will replace the existing Motor Vehicle Standards Act 1989 (MVSA) to implement the Australian Government's announced reforms to the regulatory framework. Most provisions of the new RVS legislation will become effective 12 months after the Bills have passed, anticipated to be in 2019.

One of the core elements of the RVS legislation is the introduction of the RAV – an online, publicly searchable database of vehicles approved for use on Australian roads.

A record for each vehicle approved for road use will be required to be entered on the RAV. Data must be provided to the National Exchange of Vehicle and Driver Information Services (NEVDIS), which will host the RAV.

Policy

RAV records – Vehicles approved for road use

Under the RVS legislation, the RAV will replace the need to fit road vehicles with identification plates that contain compliance information and a certification statement from the manufacturer. The RAV is an electronic register, consisting of approval details for vehicles approved under the RVS legislation for road use in Australia.

A number of the vehicle marking arrangements from the MVSA will remain in place and unaffected by the RVS legislation, including:

- Vehicle Identification Number (VIN);

- vehicle plates for trailers and some heavy vehicles; and

- other marking requirements of Australian Design Rule (ADR) 61 and/or ADR 38.

State and Territory jurisdictional requirements such as number (or registration) plate are unaffected.

Framework

A series of information sheets about the proposed legislative framework is available on the [Department of Infrastructure, Regional Development and Cities (the department) website](#). The RVS legislation will prohibit any road vehicle being provided in Australia that is not on the RAV unless an exception (e.g. a non-road use import approval) applies. [Information sheet 10](#) outlines the proposed RAV arrangements.

RAV and VIN submissions

The current process to submit a [Vehicle Identification Number (VIN)](#) to NEVDIS will remain the same under the RVS legislation and may occur at any time before the RAV submission.

The RAV submission can only occur when the:

- vehicle's manufacturing is complete;

- vehicle is covered by a type approval;

- vehicle is in Australia (except when the type approval specifically allows the vehicle to be outside Australia); and

- vehicle complies with the requirements of the legislation.

Once added to the RAV, the electronic record can be searched by using the [VIN](#) only.

Holders of a vehicle type approval must be enrolled and authorised by the department to enter records onto the RAV. Trailers and some heavy vehicles will require both a RAV record and a physical (vehicle) plate, as per [ADR 61](#).

Data requirements

NEVDIS will maintain the RAV and continue the existing VIN submission process. The RAV Data Requirements (Attachment A) sets out the mandatory, conditional and non-applicable data for the RAV. These RAV details are required for the process of uploading data into the test RAV or live RAV.

RAV detail

- The RAV data fields in Attachment A include a description of each data requirement and the format required for each data type entry.
- Any number of RAV records may be provided in a single submission data file to NEVDIS.
- The RAV validation process will happen automatically upon receipt of a submission and an automated email response provided with the validation status of each record.
- Successfully validated records will appear on the public search the day after the RAV submission.
- The RAV is searchable only by the VIN and only one at a time.

RAV data file format

The RAV can receive data files in one of two formats:

- **XML** is recommended for type approval holders. See example in Attachment B.

and

- **CSV** is an alternative format. See example in Attachment B. A first row of header information is required.

The department has developed a test file generator[1] (http://test.rav.infrastructure.gov.au/XmlTool), which is available for all RAV submitters to assist with creating a valid data file in XML format. The department recommends that RAV submitters either use the test file generator or develop a system to produce the file data in either format.

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[1] Some web browsers display security certificate warnings for this (test) site. Internet explorer does not do so and the department believes it is safe to use this site irrespective of browser warnings.

Participant eligibility

During 2017 and 2018, the department, NEVDIS and selected industry participants conducted initial testing of the RAV. The test RAV is available for submitters (once enrolled with unique user IDs) to trial and ensure submissions can be validated successfully before the commencement of the RVS legislation. These IDs will remain valid for both test and live environments.

Those organisations that participated during the pilot testing of the RAV have already received their unique organisation and RAV submitter IDs. No further enrolment is required for either test or live environments for these participants.

For other participants, the following information provides instructions on enrolment.

RAV Enrolment

Organisations must be enrolled before they can submit a RAV record. Successfully enrolled organisations will be issued with an organisation ID and a submitter ID number. These unique ID numbers are used by NEVDIS to validate access to the RAV and should be kept confidential. ID will be of the formats:

1. an organisation ID: **RAV**00000X
2. a submitter ID: **RS**000000X

Obtaining IDs (RAV enrolment):

RAV Organisation ID

At the end of 2018, the department will provide an organisation ID to MVSA full volume approval holders who did not participate in the pilot testing.

If the organisation ID is still unknown after **December 2018,** a request for an organisation ID will need to be made to the department. The type approval holder or nominated representative will need to complete the **RAV Enrolment Request form** (Attachment C) and email the department on **RAVenrolment@infrastructure.gov.au** from the person(s) responsible / the delegate in the Type Approval Application.

RAV Submitter ID

During the enrolment process, an organisation's delegate will need to either nominate a RAV submitter from within their organisation or opt to use an external agent to act on their behalf; a list of registered agents is available on the RVCS website.

To add (or remove an existing) RAV submitter, an approval holder's delegate / person responsible will need to complete the **RAV Enrolment Request form** (Attachment C) and send it to NEVDIS on **nevdis@nevdis.com.au** (if the organisation ID is known). A unique RAV submitter ID will be issued upon successful enrolment.

For security and accountability reasons, submitter IDs are for individuals only and are not to be shared.

Process

The test RAV

The test RAV will be available at least three months ahead of the commencement of the RVS legislation and afterwards. It may be used any number of times to test both valid and false submissions. To use the test RAV:

1. Organisations will need to enrol and nominate submitters (including their emails) via the **RAV Enrolment Request form** to obtain their unique IDs.
2. Send the form to either the department on **RAVenrolment@infrastructure.gov.au** (if the organisation ID is not known) or directly to NEVDIS on **nevdis@nevdis.com.au** (when the organisation ID is known).
3. NEVDIS will allocate an organisation ID: *RAV000001* and submitter ID: *RS0000001*.
4. Once both IDs are issued the submitter may generate a data file using the test version of the file generator[2] http://test.rav.infrastructure.gov.au/XmlTool.
5. Save the generated file to your drive.

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[2] Some web browsers display security certificate warnings for this site. Internet explorer does not do so and the department believes it is safe to use this site irrespective of browser warnings.

6. Submit data files by email to NEVDIS submissions: rav-uat-submisions@nevdirect.com.au,

   ensuring the **subject line** is precisely in the format of:

   Organisation ID: *RAV00000X* Submitter ID: *RS000000X*

   Note: Validation of the test file name is not required.

7. An auto-response will confirm a successful or unsuccessful submission of the data records

   for the RAV. Where a record(s) has been rejected, the response will list all rejection reasons.

New records will be uploaded to the test public search engine within 24 hours of successful RAV

entry and vehicles may be searched on the test RAV using the VIN.

The live RAV

Type approval holders must be aware of their obligations regarding the use of the live RAV and be

familiar with the relevant provisions of the new legislation, in particular, Part 2, Division 3 of the

Road Vehicle Standards Bill, summarised in information sheet 10 on the department's website.

Importantly, the live RAV should only be used for actual data submission purposes under the RVS

legislation and not testing data.

The live RAV will be available for use on commencement of the RVS legislation, anticipated to be in

2019.

Steps for using the live RAV are almost identical to the test RAV, with the exception of availability in

2019 and the different email address:

1. The submitter may generate a data file in an XML or CSV format. The live file generator[3] may

   be accessed via https://rav.infrastructure.gov.au/ (available in 2019).

2. Save the generated file to your drive.

3. Submit data files by email to NEVDIS submissions: rav-prd-submisions@nevdirect.com.au

   ensuring the **subject line** is precisely in the format of:

   Organisation ID: *RAV00000X* Submitter ID: *RS000000X*

   Note: Validation of the test file name is not required.

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[3] Some web browsers display security certificate warnings for this site. Internet explorer does not do so and the department believes it is safe to use this site irrespective of browser warnings.

4. An auto-response email will confirm successful or unsuccessful submission of the data records for the RAV.   Where a record(s) has been rejected, the response will list all rejection reasons.

Records entered into the live RAV will be uploaded to the live public search daily once operational.

Amending Records

Where there is an error relating to a record on the RAV, the approval holder or another person may notify the department. A form will be available for this purpose.

Where an error exists in any of the fields; VIN, entry pathway or approval number, the record will be deleted and a replacement required. Otherwise, fields of the record may be updated. In either case, when authorised to do so, type approval holders will re-supply the entire replacement record.

The RAV entry date of the corresponding replacement or modified record will be set to the date of the original submission.

Final Version Control:

Document	**Title**: Register of Approved Vehicles Guide	**Print Date**: July 18
Revision #: 1.0	**Prepared by**: Ross Hamilton	**Date prepared**: June 18
Effective Date: July 18	**Reviewed By**: Kim Hurst-Meyers	**Date Reviewed**: 12 June 18
Standard: Guidance	**Approved by**: Sharon Nyakuengama	**Date Approved**: 25 July 18
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Revision #: 2.0	**Reviewed By**: Ross Hamilton	**Date prepared**: Sept 18
Standard: Guidance	**Approved By**: Sharon Nyakuengama	**Date Reviewed**: 24 Oct 18

Attachment A: RAV Data Requirements *(only Type Approval Entry Pathway Sub-Categories are shown)*

VIN	Approval Number	Vehicle Category Code (VCC)	Name of Holder of Approval	Make	Model	GVM / ATM (kg)	GTM (kg)	Tare (kg)	Power (kW)	Seating Capacity	Month and Year of Build Date (mm/yyyy)	Country of Purchase	Gross Combination Mass (kg)	Road Train	B Double	Entry Pathway Sub-Category	Authorised By Name	Authorised By Number
X	X	X	X	X	X	C	C	C	C	C	X	N/A	C	C	C	Type Approval – Standard	Approval Holder Name	Approval Holder Number
X	X	X	X	X	X	C	C	C	C	C	X	N/A	C	C	C	Type Approval – Non - Standard	Approval Holder Name	Approval Holder Number
X	X	X	X	X	X	C	C	C	C	C	X	N/A	C	C	C	Type Approval – Minor & Inconsequential	Approval Holder Name	Approval Holder Number
X	X	X	X	X	X	C	C	C	C	C	X	N/A	C	C	C	Type Approval - Second Stage Manufacture	Approval Holder Name	Approval Holder Number

LEGEND

C= Conditional, X = Mandatory

Attachment A: RAV Data Type Requirements

Name	Description	Data Type	Length	Applicability
Date of Entry	The Date of Entry field contains the date on which the vehicle is added to the Register of Approved Vehicles. This is the date that the vehicle is declared compliant.	Date format (dd/mm/yyyy)	10	NEVDIS to populate. **RAV Submitters will not supply data on this field.**
VIN	Vehicle Identification Number	Alphanumeric characters	17	**This field is mandatory for all RAV Submissions**.
Approval Number	The Type Approval Number for vehicles supplied under the type approval pathway.	String	20	**This field is mandatory for type approval holders.**
Vehicle Category Code	The Vehicle Category Code (VCC) is as defined in Vehicle Standard (Australian Design Rules – Definitions and Vehicle Categories) 2005 (Note : As a result of testing, the department has expanded the list of VCC to include sub categories aligning requirements with vehicle certification)	Alphanumeric characters exactly matching the options listed (non-case sensitive)	**3**	**This field is mandatory for Type approval holders.** VCC must be one of the following: LA LB LC LD LEM LEP LEG MA MB MC MD1 MD2 MD3 MD4 ME NA NB1 NB2 NC TA TB TC TD
Name of Holder of Approval	The Holder of Approval accepts responsibility for the vehicle's compliance with the Australian Design Rules (ADRs) or relevant standards.	String	Maximum 60	**This field is mandatory for Entry Pathway Sub-categories of Type Approval and SSM type approval.**
Make	Make of vehicle. This should be the make or brand of the vehicle as per the approval	String	Maximum 50	**This field is mandatory for all RAV Submissions.** Must match that shown on approval documentation
Model	Model of vehicle as listed on the approval.	String	Maximum 50	**This field is mandatory for all RAV Submissions**. Must match that shown on approval documentation

Name	Description	Data Type	Length	Applicability
GVM/ATM (kg)	Gross Vehicle Mass (GVM) or Aggregate Trailer Mass (ATM) are as defined in the Australian Design Rules and recorded in kilograms.	Numeric	6	**This field is mandatory for VCC = MD1 – MD4, ME, NA, NB1, NB2, NC, TA, TB, TC and TD.**
GTM (kg)	Gross Trailer Mass are as defined in the Australian Design Rules and recorded in kilograms	Numeric	6	**This field is mandatory for VCC = TA, TB, TC and TD.**
Tare (kg)	Tare mass of a vehicle (other than a motorcycle, motor tricycle) ready for service, unoccupied and unladen, with all fluid reservoirs filled to nominal capacity except for fuel, which shall be 10 litres only, and with all standard equipment and any options fitted. For motorcycles, tricycles, the fuel tank is empty.	Numeric	6	**This field is mandatory for all VCC, except for NA, NB1, NB2, NC, MD 1,2,3,4 and ME.**
Power (kW)	Maximum Engine Power as defined by Regulation 85 of the UN Economic Commission for Europe.	Numeric (rounded to the nearest whole kW) or 0.1 kW for L group	4	**This field is mandatory for the Entry Pathway Sub-categories of Type Approval and SSM Type approval except for VCC of TA, TB, TC, TD, NA, NB1,NB2, NC, and MD1,2,3,4 and ME.**
Seating Capacity	Seating Capacity is the number of seated adult persons, which the vehicle is designed to carry and for which seating positions are provided.	Numeric	3	**This is mandatory for all Vehicle Category Code (VCC) except for TA TB, TC and TD**.
Month and Year of Build Date	Date of Build is the Month and Year (MM/YYYY) on which the vehicle was substantially completed. Guidance for substantial completion is: *Motorcycles and Passenger Cars: the calendar month and the year in which the body shell and power train sub-assemblies are conjoined and the vehicle is driven or moved from the production line.* *Commercial vehicles and busses: The calendar month and the year in which the cabin and chassis, or body*	Date format (mm/yyyy)	7	**This field is mandatory for all RAV Submissions.**

Name	Description	Data Type	Length	Applicability
	shell, and power train subassemblies are conjoined and the vehicle is driven or moved from the production line. Alternatively, for a cab/chassis vehicle that is manufactured in stages at more than one location and that remains under the control of the original equipment manufacturer, the calendar month and the year in which the body is fitted to the cab/chassis and the vehicle is driven or moved from the production line. ***Trailers****: The calendar month and the year in which the trailer is towed or moved from the production line. Alternatively, for a trailer that is manufactured in stages at more than one location and that remains under the control of the original equipment manufacturer, the calendar month and the year in which the body is fitted to the chassis and the vehicle is towed or moved from the production line.*			
Gross Combination Mass (GCM)	Value specified for the vehicle by the 'Manufacturer' as being the maximum of the sum of the 'Gross Vehicle Mass' of the drawing vehicle plus the sum of the 'Axle Loads' of any vehicle capable of being drawn as a trailer	Numeric	6	**This field is mandatory for all vehicles with VCC = NC.**
Road Train Capable	A combination of vehicles, other than a 'B-Double', consisting of a motor vehicle towing at least 2 trailers (counting as one trailer a 'Converter Dolly' supporting a 'Semi-trailer')	Y/N	N/A	**This field requires a response for vehicles with VCC = NC or TD.**
B-Double Capable	A combination of vehicles consisting of a prime mover towing 2 'Semi-trailers'.	Y/N	N/A	**This field requires a response for vehicles with VCC = NC.**

Name	Description	Data Type	Length	Applicability
Entry Pathway Sub-Category	Entry Pathway is the method through which the vehicle was approved to be provided for the first time in Australia. There are four sub-categories each of which refer to a particular set of circumstances relevant to the approval:Type Approval - Standard Type Approval - Non - Standard Type Approval – Minor & Inconsequential Type Approval - Second Stage Manufacture	Alphanumeric characters exactly matching the format shown	Maximum 60	**This field is mandatory for all RAV Submissions.** For Entry Pathway = Type Approval - Second Stage Manufacture, a RAV record with this VIN and with Entry Pathway of Type approval (Standard or Non-standard or Minor and Inconsequential) must already exist.
Authorised By Name	The name of entity or authority authorised to add the vehicle: • Name of the holder of the type approval	Alphanumeric characters	Maximum 60	**This field is mandatory for all RAV Submissions.**
Authorised By Number	The number of the entity or authority authorised to add the vehicle: • Organisation ID (as issued by NEVDIS) for example RAV000001	Alphanumeric characters	Maximum 10	**This field is mandatory for all RAV Submissions.** **[Public Search does not display this field]**
Added By (NEVDIS to populate)	RAV Submitter ID	Alphanumeric characters	Maximum 60	This field is populated by NEVDIS. **RAV Submitters will not supply data on this field.** **[Public Search does not display this field]**

Attachment B: Creation of RAV Files

These instructions accompany the RAV examples provided by the Department for CSV and XML schema.

XML file format (preferred)

- This data file is a text file (Mac or MS-DOS, UTF-8 encoded) with ".xml" extension containing XML formatted data, see example following
- Open the online XML RAV Data File generator at http://test.rav.infrastructure.gov.au/XmlTool
- Populate the XML file with the RAV data
- Save / Download file

CSV RAV Data File

- This data file is a text file (Mac or MS-DOS, UTF-8 encoded) with ".csv" extension containing CSV (comma-separated values) formatted data.
- Use Excel or similar editor to create a file
- Header information shown in the example MUST remain
- Populate the file with the RAV data as per Attachment A
- For 'date' the number format must be set manually to mm/yyyy. Force the data to be text with a preceding apostrophe, e.g. '02/2018.

Attachment B: Creation of RAV Files

XML example

This XML example has been created from the Department's XML file generator, which is available at http://test.rav.infrastructure.gov.au/XmlTool

```xml
<?xml version="1.0" encoding="utf-8" ?>
<RavSubmission TotalRecords="1" batchId="3e526975-1bc0-461c-bbe5-8c89b43a70fe"
xmlns="http://schemas.datacontract.org/2004/07/RavService">
    <RAVRecord>
        <EntryPathway>Type Approval - Standard</EntryPathway>
        <VIN>6F5000000AA441398</VIN>
        <ApprovalNumber>42358</ApprovalNumber>
        <VCC>NC</VCC>
        <ApprovalHolder>Name of Holder of
Approval</ApprovalHolder>
        <VehicleMake>Kenworth</VehicleMake>
        <VehicleModel>T909</VehicleModel>
        <GVM_ATM>32000</GVM_ATM>
        <GTM />
        <Tare>13000</Tare>
        <Power>615</Power>
        <SeatingCapacity>3</SeatingCapacity>
        <BuildDate>10/2017</BuildDate>
        <GCM>240000</GCM>
        <IsBDouble>false</IsBDouble>
        <IsRoadTrain>true</IsRoadTrain>
        <AuthorisedByNumber>RAV00000#</AuthorisedByNumber>
        <AuthorisedByName>Name of Holder of
Approval</AuthorisedByName>
    </RAVRecord>
</RavSubmission>
```

Attachment B: Creation of RAV Files

CSV example

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	VIN	Approval	Vehicle C:	Name of H	Make	Model	GVM / ATI	GTM (kg)	Tare (kg)	Power (kV	Seating C:	Build Date	Country o	Gross Con	Road Train	B Double	Entry Path	Authorise	Authorised by Number		
2	JC0NF2EK	47948	MA		FCA ITALY	Fiat	Abarth 124	1850		1100	125	4	Oct-17					Type Appr	FCA ITALY	RS0000006	
3																					
4																					

Attachment C: RAV Enrolment Form

To be available in spreadsheet format from the department website.

Australian Government

Department of Infrastructure, Regional Development and Cities

Register of Approved Vehicles (RAV) : Enrolment Request

This form is for Motor Vehicle Standards Act (MVSA) approval holders seeking RAV enrolment / access
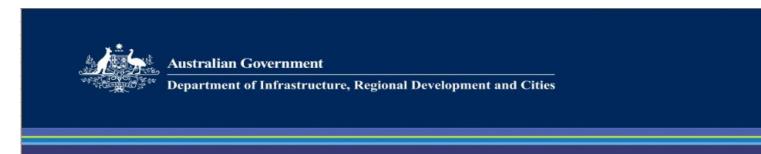Two IDs are required: **1. Organisation ID** and **2. Submitter ID** (refer to second Tab)

1. Organisation ID

Organisation ID (enter Organisation ID here if known)	Organisation Name (As per MVSA approval number)	This should be the 'delegate' or nominated person on the MVSA approval				MVSA / Type Approval
		Name (First)	Name (Last)	Phone	Contact Email	
	example : Alfa Romeo S.p.A					46141

Please continue to Submitter ID tab

Attachment C: RAV Enrolment Form

Australian Government

Department of Infrastructure, Regional Development and Cities

Register of Approved Vehicles (RAV) : Enrolment Request

This form is for Motor Vehicle Standards Act (MVSA) approval holders seeking RAV enrolment / access

2. Submitter ID
A RAV submitter is the person(s) nominated to email RAV records to NEVDIS. Agents can be used refer to : http://rvcs.dotars.gov.au/

Organisation ID	Nominated RAV Submitters	Name (First)	Name (Last)	Agent (Yes/No)	Contact Email	Phone
(enter Organisation ID here if known)	1					
	2					
	3					
	4					
	Remove previously nominated Submitters					
	1					
	2					

Email completed form to :   If organisation ID is not known : RAVenrolment@infrastructure.gov.au   (Note : email address available from November 2018)
If organisation ID is known :   nevdis@nevdis.com.au