



Australian Government

Department of Infrastructure, Transport,  
Regional Development, Communications, Sport and the Arts



# ➤ Guide to the Register of Approved Vehicles

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Updated April 2025 – Added information on the motive power field and 4 New Vehicle Efficiency Standard fields.

Updated May 2025 – The data requirements for mass in running order and rated towing capacity has been changed to whole numbers only. Added a new condition to written agreements and links to new ROVER guides on how to amend an error on the RAV. Clarified when build date has reached substantial completion for left to right-hand drive converted vehicles.

Updated July 2025 – Clarified that RAV submissions for trailers should not include data in the motive power field and when build date has reached substantial completion for second stage manufacture.

Updated January 2026 – Clarified the carbon dioxide emissions values that must be provided in RAV submissions for vehicles that comply with ADR 81/03. Provided additional information on requirements for NVES covered vehicles with a GVM of more than 3.5 tonnes.

# Register of Approved Vehicles

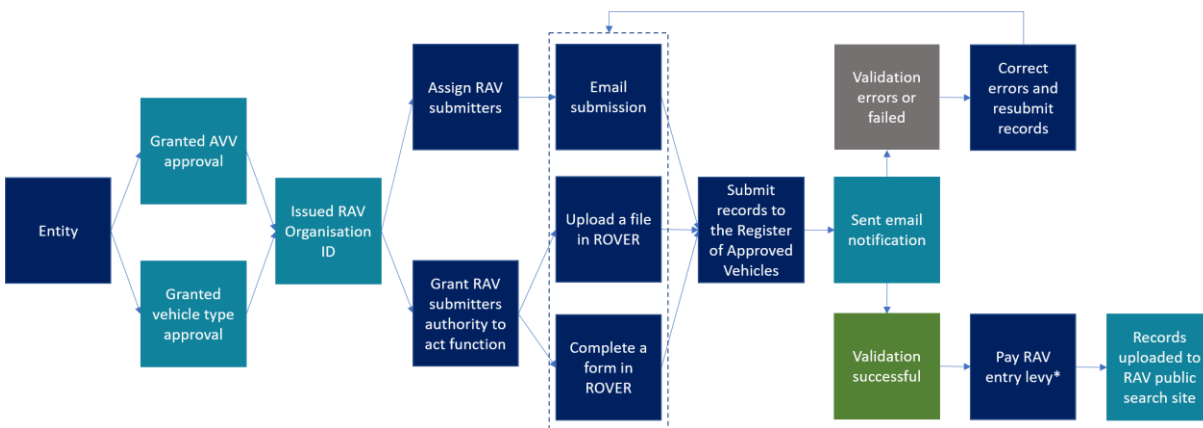
This guide explains how vehicle type approval holders and authorised vehicle verifiers can submit vehicles to the Register of Approved Vehicles (RAV) by email or via ROVER. The same information is required to be submitted, irrespective of the submission method used.

The RAV is a publicly searchable database of vehicles that have met the requirements of the *Road Vehicle Standards Act 2018* (RVSA) and been approved to be provided to the Australian market. All road vehicles must be entered on the RAV before being provided to the market for the first time.

When an entity is granted an authorised vehicle verifier (AVV) approval or a vehicle type approval under the RVSA, they are automatically allocated a RAV organisation ID which allows them to submit vehicles to the RAV. Please note that the RAV organisation ID is linked to the entity. Therefore, only one ID will be allocated per approval holder, even if they have been granted multiple approvals.

**Note:** Approval holders must be aware of their obligations when using the RAV and be familiar with the relevant provisions of the legislation, in particular, Part 2, Division 3 of the RVSA.

**Figure 1. Process for submitting vehicles to the RAV by email or via ROVER**



\*You must pay for applicable RAV entry levies upfront, unless the records have been submitted by a vehicle type approval holder that has a written agreement with the department to pay on invoice.

## Vehicle identification and RAV records

The RAV has replaced the need to fit road vehicles with identification plates containing compliance information and a certification statement from the manufacturer. Once added to the RAV, the digital record can be searched by using the [Vehicle Identification Number \(VIN\)](#).

However, a number of the vehicle marking arrangements from the *Motor Vehicle Standards Act 1989* (MVSA) remain in place and are unaffected by the RVSA, including:

- VINs
- vehicle plates for trailers and some heavy vehicles
- other marking requirements of [Australian Design Rule \(ADR\) 61/03 – Vehicle Marking](#) (made under the RVSA) and/or [ADR 38 – Trailer Brake Systems](#).

The process for submitting a VIN to the National Exchange of Vehicle and Driver Information System (NEVDIS) under the MVSA remains unchanged and may happen at any time before a RAV submission.

Trailers and some heavy vehicles will require both a RAV record and a physical (vehicle) plate to comply with the requirements of [ADR 61/03](#).

**Note:** State and territory number (or registration) plate marking requirements are unaffected.

## When can I submit a vehicle to the RAV?

A vehicle type approval holder can only submit a vehicle to the RAV when the vehicle:

- is covered by a vehicle type approval granted under the RVSA
- manufacture is complete
- is in Australia (except when the approval specifically allows the vehicle to be outside Australia)
- complies with the requirements of the RVS legislation.

An authorised vehicle verifier can only submit a vehicle to the RAV when the:

- vehicle meets the eligibility requirements of [section 37 of the Road Vehicle Standards Rules 2019](#)
- vehicle has been granted approval and is in force
- vehicle has been modified or manufactured by a registered automotive workshop (RAW) in accordance with an approved Model Report
- Model Report scope covers the variant of the vehicle
- vehicle has been verified by an AVV.

## RAV entry levies

Every vehicle added to the RAV is subject to a RAV entry levy. The charge per vehicle varies depending on the type of vehicle and the entry pathway used, as outlined in the guide [RVS legislation, fees, charges and payments](#).

RAV entry charges are payable after successful validation of a record. If you are submitting a vehicle to the RAV as an AVV, the RAV entry levy must be paid before the record is entered on the RAV and searchable on register.

If you are submitting a vehicle to the RAV as a vehicle type approval holder, the RAV entry levy also must be paid upfront, unless you have a written agreement in place to be invoiced after the vehicle has been entered on the RAV.

## Written agreements

A vehicle type approval holder can [request to enter into a written agreement](#) with the department to pay RAV entry charges after vehicles have been entered on the RAV. A condition of a written agreement is that the vehicle type approval holder enters a minimum of 100 vehicles on the RAV each month.

A separate agreement is required for each RAV organisation, but the one agreement will cover all vehicle type approvals they hold.

Where a written agreement is in place, vehicles will be entered on the RAV once the record has been successfully validated and the department will issue entities with an invoice on the first of the month for vehicles entered on the RAV in the previous month. Invoice terms are strictly 30 days<sup>1</sup>.

Failure to pay an invoice by the due date or meet the agreement condition may result in the written agreement being suspended or terminated.

## RAV public search

On the [RAV public search site](#), you can search for vehicles on the RAV by entering the VIN in to the search field.

Records of new entries are transferred to the RAV hourly.

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<sup>1</sup> [Section 5 of the Rules](#) defines a business day as a day that is not a Saturday, Sunday or a public holiday in the Australian Capital Territory.

# RAV submission methods

There are 3 submission methods available to all RAV submitters, being:

- send an email
- upload a file in ROVER
- complete the RAV submission form in ROVER

The same information must be provided, irrespective of your chosen submission method.

## Data requirements

When submitting a vehicle for RAV entry, the data requirements may vary depending on the type of vehicle or entry pathway used.

[Appendix A](#) outlines the RAV data fields and identifies the mandatory, conditional and non-applicable fields for each approval pathway sub-category. A description of data type, format and validation rules for each field is outlined in [Appendix B](#) for the vehicle type approval pathway and [Appendix C](#) for the concessional RAV entry approval pathway.

## File format

When you submit vehicles in a data file, either via email or by uploading it in ROVER, you need to provide it in one of the following file formats:

- **XML** is the format we recommend. See example at [Appendix D](#) and an electronic example [XML file](#)<sup>2</sup>.
- **CSV** is an alternate format. See example at [Appendix D](#). A first row of header information is required.

We recommend RAV submitters develop a system to produce the data file in an approved format.

**Important:** RAV submitters may provide up to 2,000 RAV records in a single submission data file.

When submitting RAV entries, you must leave fields blank that are not applicable. If you include any data in those fields, for example n/a or no, the record will not pass validation and it will need to be amended and resubmitted.

**Note:** Filenames are not validated in any way and may be 50 characters long (recommended length for human readability). Please **avoid** these characters:

- / – forward slash
- \ – backward slash
- ;- semicolon
- : – colon
- @ – ampersand
- ? – question mark
- \* – asterisk.

<sup>2</sup> Data sourced from Road Vehicle Descriptor published on [ROVER](#).

## Permissions and identification requirements

Before submitting vehicles for RAV entry on behalf of an organisation, the RAV submitter will need to have the required identification and permissions in place.

No one is granted permissions automatically and the requirements vary depending on your submission method.

### Submitting vehicles by email

A RAV submitter will require an organisation ID, a submitter ID and an email address before they can email a RAV entry submission. These unique ID numbers are important validations and should be kept confidential. IDs are in the format:

- organisation ID: **RAV00000X**
- submitter ID: **RS000000X**.

The approval holder (or a person with the appropriate permission) can use the [authority to act](#) function to look up the organisation ID in ROVER. Here, you can also create or change RAV submitters for that organisation. For detailed instructions, read the [ROVER guide: Create a RAV submitter ID](#).

When you add a ROVER user or an email address to the organisation's list of RAV submitters, ROVER assigns that record a submitter ID. That submitter ID will allow the associated email address to submit vehicles to the RAV on behalf of that RAV organisation.

When submitting vehicles using this method, the submitter does not need to have a ROVER account.

### Submitting vehicles via ROVER

You must have a ROVER account before you can submit vehicles for RAV entry via this method.

Once you have [created a ROVER account](#), you need to request or be granted 'RAV Submission' permissions to act on behalf of the organisation as a RAV submitter. (Read the step-by-step instructions in the [ROVER guide: Authority to act](#).) Then, you will be able to submit vehicles to the RAV by uploading a file or completing the form in ROVER.

# How to submit a vehicle to the RAV

## Submitting vehicle entries by email

Once you have the [required identification](#), follow these steps:

1. Generate a data file in an XML or CSV format. A [CSV template](#) is available.
2. To help ensure the records pass [RAV validations](#), we recommend you check the data meets the field requirements (see [Appendix A](#), [B](#) and [C](#)).
3. Save the file to your computer.
4. Submit the file by email:
  - with the file attached
  - to the recipient address [RAV.Submissions@infrastructure.gov.au](mailto:RAV.Submissions@infrastructure.gov.au)
  - with a subject line that includes the organisation ID (**RAV00000X**) and submitter ID (**RS000000X**).

5. Monitor your submission's progress. You will receive an auto-response email to confirm your submission has been received and is being processed.

On the **RAV** page in ROVER, you can [monitor your submission's progress](#) and view details of your batch submission.

6. Once your submission has been processed, you will receive an [email notification](#) to confirm the success or any issues with your RAV submission.

**RAV submission completed:** Go to step 7.

**RAV submission failed or completed with errors:** If a record(s) has been rejected due to not passing [data validation](#), your email notification will list all rejection reasons (see [RAV submission response email notifications](#)). You will need to correct all errors and resubmit via email (go to step 1).

7. Pay applicable RAV levies via ROVER, unless the RAV organisation is a vehicle type approval holder with a written agreement in place to pay on invoice.
8. Vehicles are added to the [RAV](#).

## Submitting vehicle entries by uploading a file in ROVER

Once you have been granted [RAV submission authority](#), follow these steps:

1. Generate a data file in an XML or CSV format. A [CSV template](#) is available.
2. To help ensure the records pass [RAV validations](#), we recommend you check the data meets the field requirements (see [Appendix A](#), [B](#) and [C](#)).
3. Save the file to your computer.
4. Sign in to [ROVER](#) and go to the **RAV** page.
5. Select the **Submit RAV entry file** button.
6. Select the **RAV organisation**.
7. Select the **Choose file** button.
8. Select the saved file from your computer, then select **Ok**.
9. Select the **Submit Batch** button.
10. Monitor your submission's progress. A **Batch Submitted Successfully** page will appear to confirm your submission has been received and is being processed.

On the **RAV** page, you can [monitor your submission's progress](#) and view details of your batch submission.

11. Once your submission has been processed, you will receive an [email notification](#) to confirm the success or any issues with your RAV submission.

**RAV submission completed:** Go to step 12.

**RAV submission failed or completed with errors:** If a record(s) has been rejected due to not passing [data validation](#), your email notification will list all rejection reasons (see [RAV submission response email notifications](#)). You will need to correct all errors and resubmit (go to step 1).

12. Pay applicable RAV levies via ROVER, unless the RAV organisation is a vehicle type approval holder with a written agreement in place to pay on invoice.
13. Vehicles are added to the [RAV](#).

## Submitting vehicle entries by completing a form in ROVER

Once you have been granted [RAV submission authority](#), [watch the video](#) on how to submit a vehicle(s) via this method or follow these steps:

1. Sign in to [ROVER](#) and go to the **RAV** page.
2. Select the **New RAV entry form** button.
3. Select the **RAV organisation**.
4. Select the **Add item** button.
5. Complete the information in the form. Mandatory fields for all RAV entry pathways are marked with a red asterisk (\*). Please note that some form fields have pre-validations and will be mandatory for the entry pathway selected. These fields are not marked by a red asterisk (\*) but they will have a yellow banner underneath the field to flag pre-validation errors or missing information. If data in those fields do not pass pre-validation, you will need to correct it before you can submit the vehicle to the RAV.
6. To help ensure your vehicle entry passes [RAV validations](#), we recommend you check the data meets the field requirements (see [Appendix A](#), [B](#) and [C](#)). You can also read the help text for a field by selecting the question mark next to the field name (?).
7. Select the **Add** button.
8. On the **Submit RAV Batch** page, you will see your entry. You can either add more vehicle entries to this submission or submit this vehicle to the RAV.  
  
Adding another vehicle: You can add another vehicle by selecting the **Add item** or duplicating and amending the entry. To duplicate the entry, go to the end of the row, select the **down arrow**, then **Duplicate (without VIN)**, amend the entry as required and select the **Add** button.
9. When you are ready to submit the vehicle(s) to the RAV, select the **Submit Batch** button.
10. Monitor your submission's progress. A **Batch Submitted Successfully** page will appear to confirm your submission has been received and is being processed.  
  
On the **RAV** page, you can [monitor your submission's progress](#) and view details of your batch submission.
11. Once your submission has been processed, you will receive an [email notification](#) to confirm the success or any issues with your RAV submission.  
  
**RAV submission completed:** Go to step 12.  
  
**RAV submission failed or completed with errors:** If a record(s) has been rejected due to not passing [data validation](#), your email notification will list all rejection reasons (see [RAV submission response email notifications](#)). You will need to correct all errors and resubmit (go to step 2).
12. Pay applicable RAV levies via ROVER, unless the RAV organisation is a vehicle type approval holder with a written agreement in place to pay on invoice.
13. Vehicles are added to the [RAV](#).

## Monitoring submission progress

After you have submitted a vehicle for RAV entry, you can monitor its progress on the RAV page in [ROVER](#). However, you will need to have a ROVER account and have 'RAV management' permission on behalf of that organisation, regardless of the submission method.

On the RAV page, you can check batch submission details, including the VIN(s) submitted, RAV submitter and submission date. Once the batch has been processed, you can also check if the submission is successful or has validation errors.

## RAV validations

When you submit a vehicle for RAV entry, a validation process happens automatically. You will receive an automated email response with the validation status of each record (see [RAV submission response email notifications](#)).

The RAV will validate a number of fields for each RAV entry record in your submission against details in ROVER and NEVDIS. RAV validations will confirm that the approval is valid and in force, VIN exists in the NEVDIS database and data entered meets any applicable conditions.

Any records that do not pass RAV validation will be rejected, and need to be corrected and resubmitted.

**Note:** If you are submitting a vehicle to the RAV that has been modified by a RAW, there are additional validation rules that apply (see [Appendix C](#)).

To help ensure your submissions pass validation for RAV entry, we recommend that you check all data fields have been completed (see [Appendix A](#)), and the data meets the field rules and formats for vehicles being entered via the type approval pathway (see [Appendix B](#)) or concessional RAV entry pathway (see [Appendix C](#)).

## RAV submission auto-response email notifications

Once you have submitted a vehicle for RAV entry, you will receive an email response from [RAV.Submissions@infrastructure.gov.au](mailto:RAV.Submissions@infrastructure.gov.au), irrespective of the submission method used.

The auto-response email will have one of the following subject headings:

- **RAV Submission Completed:** All the vehicle entries have passed validation.
- **RAV Submission Completed with Errors:** One or more vehicle entries have not passed validation.
- **RAV Submission Failed:** When a RAV submission made via email has a serious error – with the email or file attachment – and your submission was not processed.

An example of each type of auto-response email is provided at [Appendix E](#).

The email response will include the batch ID (if supplied in the submission XML), total number of records submitted, number of records that have passed validation, and total number of records that have failed validation. It also includes a list of all the records (within the email and as an attachment) that were not accepted and the reason(s) why for each record.

If you have submitted vehicles for RAV entry via email, you may receive a 'RAV Submissions Failed' email response with a single error message in the body of the email.

When you submit vehicles for RAV entry via email or by uploading a file in ROVER, it may fail for the following reasons:

- invalid RAV organisation and/or RAV submitter (as extracted from email subject)
- sender email address does not match the RAV submitter email address in ROVER

- no XML or CSV file attached to the email
- more than one RAV submission file is attached
- file does not contain valid RavSubmission XML
- file does not contain any RAV records
- CSV file does not contain a header row
- maximum number of RAV entries exceeded (more than 2,000)

## How to amend an error on the RAV

Anyone with a ROVER account can notify the department about incorrect information on the RAV. Read the [Guidance note—Amending entries on the Register of Approved Vehicles](#) to understand how the department amends entries on the RAV and the steps taken once they determine that an entry needs to be corrected.

To notify the department of an error:

14. Sign in to [ROVER](#) and go to the **RAV** page.
15. Select the **RAV correction** button.
16. Complete the **Notify of an error on the RAV** form.

For step-by-step instructions on how to amend one or more key field errors on the RAV, read the [ROVER guide: Amending a key error on the RAV](#). There are 3 key fields in a RAV entry; VIN, RAV entry pathway, and approval number.

To amend an error in one or more non-key fields, for example, the value for tare, carbon dioxide emissions and motive power, follow the instructions in the [ROVER guide: Amending a non-key error on the RAV](#).

**Note:** When the RAV entry is modified, the original RAV entry date will not change.

## Further information

For further information, please visit the [department's website](#) or submit an [online enquiry](#).

### Quick links

- Email RAV submissions to [RAV.Submissions@infrastructure.gov.au](mailto:RAV.Submissions@infrastructure.gov.au)
- [Bulk RAV amendment key update template](#)
- [Bulk RAV amendment non key update template](#)
- [Register of Approved Vehicles](#)

## Appendix A – Requirements for successful RAV entry

Field	Type approval – standard	Type approval – non-standard	Type approval – second stage manufacture	Concessional – RAWs – Specialist & Enthusiast Vehicle	Concessional – RAWs – Used Motorcycle Full Compliance	Concessional – RAWs – Second Stage Manufacture
Date of entry (department to populate)	X	X	X	X	X	X
VIN	X	X	X	X	X	X
Approval number	X	X	X	X	X	X
Vehicle category code	X	X	X	X	X	X
Name of approval holder	X	X	X	X	X	X
Make	X	X	X	X	X	X
Model	X	X	X	X	X	X
GVM/ATM (kg)	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
GTM (kg)	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
Tare (kg)	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
Motive power	O	O	O	O	O	O
Power (kW)	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
Seating capacity	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
NVES vehicle type	C (B)	C (B)	N/A	N/A	N/A	N/A
Carbon dioxide emissions (g/km)	C (B)	C (B)	N/A	N/A	N/A	N/A

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Field	Type approval – standard	Type approval – non-standard	Type approval – second stage manufacture	Concessional – RAWs – Specialist & Enthusiast Vehicle	Concessional – RAWs – Used Motorcycle Full Compliance	Concessional – RAWs – Second Stage Manufacture
Mass in running order (kg)	C (B)	C (B)	N/A	N/A	N/A	N/A
Rated towing capacity (kg)	C (B)	C (B)	N/A	N/A	N/A	N/A
Month and year of build date	X	X	X	X	X	X
Safer Freight Vehicle	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
Gross combination mass (kg)	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
Road train (capable)	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
B double (capable)	C (B)	C (B)	C (B)	C (C)	C (C)	C (C)
Entry pathway sub-category	type approval - standard	type approval non-standard	type approval - second stage manufacture	Concessional - RAWs - Specialist & Enthusiast Vehicle	Concessional - RAWs - Used Motorcycle Full Compliance	Concessional - RAWs - Second Stage Manufacture
Authorised by name	Approval holder name	Approval holder name	Approval holder name	AVV approval holder name	AVV approval holder name	AVV approval holder name
Authorised by number	Approval holder number	Approval holder number	Approval holder number	AVV approval holder number	AVV approval holder number	AVV approval holder number
Added by (department to populate)	N/A	N/A	N/A	X	X	X
<b>Legend:</b> <b>C (B)</b> = Conditional (see rules at <a href="#">Appendix B</a> ) <b>C (C)</b> = Conditional (see rules at <a href="#">Appendix C</a> ) <b>N/A</b> = Not Applicable <b>O</b> = Optional <b>X</b> = Mandatory						

## Appendix B – Data field rules for type approval pathway

Name	Description	Data type	Length	Rules
Date of entry	The date of entry field contains the date on which the vehicle is added to the RAV. This is the date that the vehicle is declared compliant.	Date format (dd/mm/yyyy)	10	<b>Leave blank</b> This field will be populated by the department. It will be auto-created on successful RAV submission.
VIN	Vehicle Identification Number (VIN).	Alphanumeric characters	17	<b>This field is mandatory</b> If the entry pathway is <b>Type Approval - Second Stage Manufacture</b> , the VIN must already exist on the RAV under a <b>Type Approval - Standard</b> or <b>Type Approval - Non -Standard</b> pathway and the RAV levy for the first stage entry must have been paid.
Approval number	Approval number is the type approval number for vehicles supplied under the type approval entry pathway.	String	25	<b>This field is mandatory, e.g. VTA-000001</b> The RAV will check that this is a valid approval and in-force for a new RAV entry.
Vehicle category code	The vehicle category code is as defined in the Vehicle Standard (Australian Design Rules – Definitions and Vehicle Categories) 2005.	Alphanumeric characters	3	<b>This field is mandatory</b> Vehicle category code 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 The RAV will check that the vehicle category code is the same as the approval.
Name of approval holder	The approval holder accepts responsibility for meeting the particular requirements of the RVS legislation. Where the entry pathway is second stage manufacture (SSM) the approval holder is the name of the SSM approval holder.	Alphanumeric characters	Maximum 60	<b>This field is mandatory</b>
Make	Make of vehicle. This is the make or brand as per the approval.	String	Maximum 100	<b>This field is mandatory</b>

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Name	Description	Data type	Length	Rules
				The RAV will check that it matches the make on the approval.
Model	Model as listed on the approval. If a vehicle type approval is for a <b>Low ATM trailer</b> , use a model name as listed on the approval, not the vehicle category code.	String	Maximum 500	<b>This field is mandatory</b> The RAV will check that it matches the model on the approval. For low ATM trailer approvals, the RAV will check the model and variant names match the approval.
GVM/ATM (kg)	Gross vehicle mass (GVM) and aggregate trailer mass (ATM) are as defined in the Australian Design Rules and recorded in kilograms.	Numeric	6	<b>This field is mandatory for vehicle category codes:</b> <b>MD4 ME</b> <b>NB2 NC</b> <b>TA TB TC TD</b> This field is optional for all other vehicle category codes. The GVM will be validated against the vehicle category code selected.
GTM (kg)	Gross trailer mass (GTM) is as defined in the Australian Design Rules and recorded in kilograms.	Numeric	6	<b>This field is mandatory for vehicle category codes:</b> <b>TA TB TC TD</b> You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation. The GTM must be greater than zero and less than or equal to the ATM. The GTM will be validated against the vehicle category code selected.
Tare (kg)	Tare mass of a vehicle (other than a motorcycle or 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.) For light trailers, the definition of tare is outlined in the ADR definition and vehicle categories.	Numeric	6	<b>This field is mandatory for vehicle category codes:</b> <b>LA LB LC LD LEM LEP LEG</b> <b>MA MB MC</b> <b>TA TB TC (if the approval is for a low ATM trailer)</b> This field is optional for: NA NB1 NB2 NC TC (if the approval is for a high ATM trailer) TD

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Name	Description	Data type	Length	Rules
	Where optionally adding tare for cab chassis vehicles in NA, NB1 and NB2 vehicle categories, the tare is as supplied without the rear tray.			
Motive power	Energy sources and systems used to propel the vehicle as defined in the <a href="#">list of motive power options and their descriptions</a> .	Alphanumeric characters Must match one of the following ( <u>not</u> case sensitive): EV FCEV HEV - Diesel HEV - H2 HEV - Petrol ICE - CNG ICE - Diesel ICE - H2 ICE - LPG ICE - Petrol ICE - Petrol + LPG PHEV - Diesel PHEV - H2 PHEV - Petrol Other	18	This field is optional. However, you must leave this field blank for all trailer categories, otherwise your submission will fail validation.  This field will be validated against the motive power options under 'Data type'.
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 decimal 0.1 kW for L category vehicles	4	<b>This field is mandatory for vehicle category codes:</b> <b>LA LB LC LD LEM LEP LEG</b> <b>MA MB MC</b>

Name	Description	Data type	Length	Rules
				<p>This field is optional for vehicle category codes:                      NA NB1 NB2 NC                      MD1 MD2 MD3 MD4 ME</p> <p>Not applicable for vehicle category codes:                      TA TB TC TD</p> <p>You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation</p>
Seating capacity	Seating capacity is the number of seated adult persons the vehicle is designed to carry and for which seating positions are provided.	Numeric	3	<p><b>This field is mandatory for vehicle category codes:</b>                      LA LB LC LD LEM LEP LEG                      MA MB MC MD1 MD2 MD3 MD4 ME                      NA NB1 NB2 NC</p> <p>You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.</p>
NVES vehicle type	<p>The type of vehicle as defined in the <a href="#">New Vehicle Efficiency Standard Act 2024 (NVES Act)</a>, division 2.</p> <p><b>Type 1:</b></p> <ul style="list-style-type: none"> <li>MA vehicle category</li> <li>MB vehicle category</li> <li>a light off-road passenger vehicle as defined in section 15 (NVES Act), meaning an MC category vehicle that is not a heavy off-road passenger vehicle.</li> </ul> <p><b>Type 2:</b></p> <ul style="list-style-type: none"> <li>NA vehicle category</li> <li>NB1 vehicle category</li> <li>heavy off-road passenger vehicle as defined in section 15 (NVES Act), meaning:                             <ul style="list-style-type: none"> <li>the vehicle is in the MC vehicle category; and</li> </ul> </li> </ul>	<p>Alphanumeric characters</p> <p>Must match one of the following (<u>not</u> case sensitive):</p> <p>Type 1 vehicle</p> <p>Type 1</p> <p>Type 2 vehicle</p> <p>Type 2</p> <p>Exempt vehicle</p> <p>Exempt</p> <p>Not applicable</p> <p>NA</p> <p>N/A</p>	14	<p><b>From 1 July 2025, this field will be mandatory for vehicle category codes:</b>                      MA MB MC                      NA NB1</p> <p>You must leave this field blank for all other vehicle categories and for <b>Type Approval – Second Stage Manufacture</b>, otherwise your submission will fail validation.</p> <p>If the vehicle is an NB1 category vehicle or MA, MB or MC category with a GVM more than 3,500 kg, please enter <b>Exempt</b> or <b>Exempt vehicle</b>.</p> <p>This field will be validated against the type approval pathway, vehicle category, GVM, and against the options under 'Data type'.</p>

Name	Description	Data type	Length	Rules
	<ul style="list-style-type: none"> <li>– the rated towing capacity first entered on the RAV in relation to the vehicle is 3 tonnes or more; and</li> <li>– the vehicle has a body-on-frame chassis (within the ordinary meaning of that expression).</li> </ul> <p><b>Exempt:</b></p> <ul style="list-style-type: none"> <li>• Any vehicle with a GVM of more than 4.5 tonnes, or</li> <li>• to which an ADR on carbon dioxide emissions does not apply until the first of the following dates, whichever is earlier: <ul style="list-style-type: none"> <li>– 31 December of the year in which an ADR on carbon dioxide emissions is first applicable to a vehicle, or</li> <li>– 31 December 2029.</li> </ul> </li> </ul>			
Carbon dioxide emissions (g/km)	<p>The vehicle's carbon dioxide emissions calculated in accordance with a national road vehicle standard that applies to the vehicle.</p> <p>If the vehicle complies with ADR 81/03, use the NEDC equivalent carbon dioxide emission value calculated for the vehicle in accordance with clause 5.3.7.</p>	Numeric (rounded to the nearest whole grams of carbon dioxide per km)	3	<p><b>From 1 July 2025, this field will be mandatory for NVES Type 1 and Type 2 vehicles with vehicle category codes:</b></p> <p><b>MA MB MC</b></p> <p><b>NA NB1</b></p> <p>You must leave this field blank for all other vehicle categories, for NVES vehicle type <b>Exempt</b> and <b>Not applicable</b>, and <b>Type approval – Second Stage Manufacture</b>, otherwise your submission will fail validation.</p> <p>The vehicle's carbon dioxide emissions must be greater than or equal to zero and less than or equal to 999.</p> <p>This field will be validated against the NVES vehicle type and type approval pathway.</p>
Mass in running order (kg)	<p>The mass of the vehicle in kilograms, including all fluids, standard equipment and a 75 kg passenger as defined in <a href="#">Australian Design Rule 111/00 – Advanced Emission Control for Light Vehicles</a>, Appendix A, clause 3.2.5.</p>	Numeric (rounded to the nearest whole kg)	4	<p><b>From 1 July 2025, this field will be mandatory for NVES Type 1 and Type 2 vehicles with vehicle category codes:</b></p> <p><b>MA MB MC</b></p> <p><b>NA NB1</b></p>

Name	Description	Data type	Length	Rules
	<p>If the vehicle is a chassis-cab with no bodywork fitted:</p> <ol style="list-style-type: none"> <li>the highest mass in running order value declared in the supporting information underpinning the carbon dioxide emissions value declared for the chassis-cab by the manufacturer; or</li> <li>the mass in running order of the chassis-cab without bodywork fitted plus the average mass of the bodywork options offered for fitment to the vehicle by the vehicle's manufacturer; or</li> <li>the mass in running order of the chassis-cab without bodywork fitted plus the maximum area of the body recommended for fitment to the vehicle by the vehicle's manufacturer (in square metres to one decimal place) multiplied by 50 kg.</li> </ol>			<p>You must leave this field blank for all other vehicle categories, for NVES vehicle type <b>Exempt</b> and <b>Not applicable</b>, and <b>Type Approval – Second Stage Manufacture</b>, otherwise your submission will fail validation.</p> <p>The mass in running order must be greater than or equal to 500 and less than or equal to 4500.</p> <p>This field will be validated against the NVES vehicle type and type approval pathway.</p>
Rated towing capacity (kg)	<ul style="list-style-type: none"> <li>The maximum towing mass specified by the vehicle's manufacturer.</li> </ul>	Numeric (rounded to the nearest whole kg)	4	<p><b>From 1 July 2025, this field will be mandatory for NVES Type 1 and Type 2 vehicles with vehicle category code: MC</b></p> <p>You must leave this field blank for all other vehicle categories, for NVES vehicle type <b>Exempt</b> and <b>Not applicable</b>, and <b>Type Approval – Second Stage Manufacture</b>, otherwise your submission will fail validation.</p> <p>The rated towing capacity must be greater than or equal to zero and less than or equal to 9999 for an NVES <b>Type 1</b> vehicle.</p> <p>The rated towing capacity must be greater than or equal to 3000 and less than or equal to 9999 for an NVES <b>Type 2</b> vehicle.</p> <p>This field will be validated against the NVES vehicle type, type approval pathway and vehicle category code.</p>

Name	Description	Data type	Length	Rules
Build date	<p>Build date is the month and year (MM/YYYY) on which the vehicle was substantially completed.</p> <p>Guidance on substantial completion is:</p> <p><b>Motorcycles and passenger cars:</b> 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.</p> <p><b>Commercial vehicles and buses:</b> The calendar month and the year in which the cabin and chassis, or body shell, and power train subassemblies are conjoined and the vehicle is driven or moved from the production line. Alternatively, for a cab/chassis vehicle 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.</p> <p>Where a vehicle leaves a manufacturing location for significant further manufacture that is covered by the approval, such as the installation of seats, the calendar month and the year in which the further manufacture was completed.</p> <p><b>Vehicle modifications including left to right-hand drive conversions:</b> The date of substantial completion of the original vehicle (the left-hand drive vehicle where applicable).</p> <p><b>SSM:</b> The date of substantial completion of the second stage of manufacture.</p> <p>Note: An SSM entry on the RAV is the second entry for the vehicle. It does not change the original vehicle record or original build date.</p> <p><b>Trailers:</b> The calendar month and the year in which the trailer is towed or moved from the production line.</p>	Date format (mm/yyyy)	7	<p><b>This field is mandatory</b></p> <p>Future dates are not allowed.</p>

Name	Description	Data type	Length	Rules
	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.			
Safer Freight Vehicle	<p>The safer freight information can be entered where the vehicle type has been shown to meet applicable safer freight Australian Design Rules (ADRs).</p> <p>Information must be in the format <b>SFV-XX-Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub>-Y<sub>2</sub>Y<sub>2</sub>Y<sub>2</sub></b></p> <p>The first part <b>SFV</b> is mandatory for all eligible entries. Vehicles that meet all ADR requirements in order to exceed an 'Overall Width' of 2,500 mm are considered eligible and must contain a field entry. A vehicle may have an 'Overall Width' no greater than 2,500 mm but still be an eligible vehicle. The ADR requirements that allow sub-category NB2 vehicles and category NC vehicles to exceed an 'Overall Width' of 2,500 mm are contained within ADR 43/04 – Vehicle Configuration &amp; Dimensions or a later version.</p> <p>The <b>XX</b> descriptor is to be used as follows:</p> <ul style="list-style-type: none"> <li>• PM – for 'Prime Mover' vehicles as defined in <a href="#">Australian Design Rule – Definitions and Vehicle Categories</a>.</li> <li>• CC – for 'Chassis-Cab' vehicles as defined in <a href="#">Australian Design Rule – Definitions and Vehicle Categories</a>.</li> <li>• IO – for a 'Partially Completed Vehicle' as defined in <a href="#">Australian Design Rule – Definitions and Vehicle Categories</a>, other than 'Chassis-Cab' vehicles.</li> </ul>	String (Format SFV-XX-Y <sub>1</sub> Y <sub>1</sub> Y <sub>1</sub> -Y <sub>2</sub> Y <sub>2</sub> Y <sub>2</sub> )	50	<p><b>This field is optional for NB2 and NC category vehicles</b></p> <p>You must leave this field blank for all other categories, otherwise your submission will fail validation.</p> <p><b>Note:</b> When creating an XML file, the name of this field must be 'OdometerReading' as shown in the example at <a href="#">Appendix D</a>.</p>

Name	Description	Data type	Length	Rules
	<ul style="list-style-type: none"> <li>For other vehicle types comprising completed sub-category NB2 and category NC vehicles, the XX descriptor is not required.</li> </ul> <p>The <b>Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub></b> descriptor is the maximum 'Overall Width' (in mm) of the vehicle at the time of RAV entry. This is the manufacturer's nominal value plus upper (positive) manufacturing tolerance, for the particular design variant, and is required for both complete and incomplete vehicles. The 'Overall Width' of the actual vehicle may be less, within manufacturing tolerances for the design. In this respect, it is important to note that for some ADRs all variations in vehicle width must be specifically accounted for during testing. For example, ADR 14/03 – Devices for Indirect Vision, and ADR 105/00 – Blind Spot Information Systems (as applicable).</p> <p>The <b>Y<sub>2</sub>Y<sub>2</sub>Y<sub>2</sub>Y<sub>2</sub></b> descriptor is the maximum certified 'Overall Width' (in mm) of the vehicle in accordance with its approval under s15(2) of the RVSA, at the time of RAV entry. Where this value does not differ from the 'Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub>' it is not entered. However, it will differ (be greater) under various circumstances. These circumstances include:</p> <ul style="list-style-type: none"> <li>where a 'Chassis-Cab' vehicle is intended to have a (wider) body fitted during a later stage of manufacture (or through modification in accordance with <a href="#">Vehicle Standards Bulletin 6 – Heavy Vehicle Modifications</a>), and this increased vehicle width has been accounted for within the original approval to relevant ADRs (for example ADR 14/03 – Devices for Indirect Vision where dummy headboards may be used to simulate a range of body widths during testing, and ADR 105/00 – Blind Spot Information Systems where performance and test requirements include prescribed distance of a test dummy from</li> </ul>			

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Name	Description	Data type	Length	Rules
	<p>the extreme outer edge on the near side of the vehicle)</p> <ul style="list-style-type: none"> <li>where a goods vehicle is complete at the point of RAV entry but has been certified to relevant ADRs (see above) in order to allow for an increase in 'Overall Width' without requirement for re-certification to those ADRs.</li> </ul>			
GCM (kg)	<p>The gross combination mass (GCM) value specified for the vehicle by the 'Manufacturer' is 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.</p> <p>The GCM recorded on the RAV is the value established by the manufacturer which would occur if the vehicle were fitted with the highest rated tow coupling recommended by the manufacturer and the vehicle was operated in the most favourable manner.</p> <p>Multiple GCMs cannot be provided, however, the manufacturer can place caveats around the use of the vehicle at the GCM or specify in the owner's manual or other documentation other values for the maximum carrying capacity and maximum towing capacity that apply to the vehicle when used in other conditions.</p>	Numeric	6	<p><b>This field is mandatory for vehicle category codes: NB2 NC</b></p> <p>The field is optional for vehicle category codes: MD4 ME</p> <p>You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.</p>
Road train capable	<p>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').</p>	<p>True / False</p> <p>Yes / No</p> <p>Y / N</p>	-	<p><b>This field is mandatory for vehicle category codes: NC TD</b></p> <p>This field is optional for vehicle category code: TC</p> <p>You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.</p>
B-double capable	<p>A combination of vehicles consisting of a prime mover towing 2 'Semi-trailers'.</p>	<p>True / False</p>	-	<p><b>This field is mandatory for vehicle category codes: NC</b></p>

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Name	Description	Data type	Length	Rules
		Yes / No Y / N		You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.
Entry pathway sub-category	<p>Entry pathway is the method through which the vehicle was approved to be provided for the first time in Australia.</p> <p>A sub-category refers to a particular set of circumstances that are relevant to the approval under the relevant entry pathway.</p> <p>There are 3 sub-categories. Each refers to a particular set of circumstances relevant to the approval:</p> <ul style="list-style-type: none"> <li>• Type Approval - Standard</li> <li>• Type Approval - Non - Standard</li> <li>• Type Approval - Second Stage Manufacture</li> </ul>	<p>Alphanumeric characters</p> <p>Must exactly match one of the following:</p> <p>Type Approval - Standard</p> <p>Type Approval - Non - Standard</p> <p>Type Approval - Second Stage Manufacture</p>	Maximum 60	<p><b>This field is mandatory</b></p> <p>For entry pathway <b>Type Approval - Second Stage Manufacture</b>, a RAV record with this VIN and entry pathway of <b>Type Approval - Standard</b> or <b>Type Approval - Non - Standard</b> must already exist.</p> <p>Vehicles covered by a type approval with minor and inconsequential non-compliance are to be added to the RAV as <b>Type Approval - Standard</b>.</p>
Authorised by name	<p>The name of the entity or authority authorised to add the vehicle to the RAV:</p> <ul style="list-style-type: none"> <li>• Type approval holder's name.</li> </ul>	Alphanumeric characters	Maximum 60	<p><b>This field is mandatory</b></p> <p>Add the name in the approval.</p> <p>The name must be the name of the vehicle's approval holder.</p>
Authorised by number	<p>The number of the entity or authority authorised to add the vehicle to the RAV:</p> <ul style="list-style-type: none"> <li>• Type approval holder's RAV organisation Number.</li> </ul>	Alphanumeric characters	Maximum 10	<p><b>This field is mandatory</b></p> <p>The RAV will check that the RAV organisation number is valid and is the number corresponding to the vehicle's approval</p> <p><b>Note:</b> This field will not be visible on the RAV public search.</p>

## Appendix C – Data field rules for concessional RAV entry pathway

Name	Description	Data type	Length	Rules
Date of entry	The date of entry field contains the date on which the vehicle is added to the RAV. This is the date that the vehicle is declared compliant.	Date format (dd/mm/yyyy)	10	<b>Leave blank</b>  This field will be populated by the department. It will be auto-created on successful RAV submission.
VIN	Vehicle Identification Number (VIN).	Alphanumeric characters	17	<b>This field is mandatory</b>  The RAV will check that the VIN matches that on the concessional RAV entry approval.  If the entry pathway is <b>Concessional - RAWs - Second Stage Manufacture</b> , the VIN must already exist on the RAV under a <b>Type Approval - Standard</b> or <b>Type Approval - Non - Standard</b> pathway and the RAV levy for the first stage entry must have been paid.
Approval number	Approval number is the concessional approval number for the vehicle as well as the Model Report Approval Number separated by a space	String  Approval number format: CRE-XXXXXX MRE-XXXXXX	25	<b>This field is mandatory</b>  The RAV will check that both approval numbers have been added, and that they are valid and in-force. The concessional RAV entry approval number will also be checked against the entry pathway sub-category.
Vehicle category code	The vehicle category code is as defined in the Vehicle Standard (Australian Design Rules – Definitions and Vehicle Categories) 2005.	Alphanumeric characters	3	<b>This field is mandatory</b>  Vehicle category code 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  The RAV will check that the vehicle category code is the same as the Model Report.

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Name	Description	Data type	Length	Rules
Name of approval holder	The approval holder (the RAW) accepts responsibility for meeting the particular requirements of the RVS legislation.  If you are submitting a vehicle on behalf of a RAW, add the relevant RAW approval number.	Alphanumeric characters  Format: RAW-XXXXXX	Maximum 60	<b>This field is mandatory</b>  The RAV will check that the RAW approval is in force.
Make	Make of vehicle. This is the make or brand as per the approval.	String	Maximum 100	<b>This field is mandatory</b>  The RAV will check that it matches the make in the approval and the Model Report.
Model	Model as listed on the approval (for the concessional RAV entry approval).	String	Maximum 500	<b>This field is mandatory</b>  The RAV will check that it matches the model in the approval and the Model Report.
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	<b>This field is mandatory for vehicle category codes:</b> <b>MD1 MD2 MD3 MD4 ME</b> <b>NA NB1 NB2 NC</b> <b>TA TB TC TD</b>  This field is optional for all other vehicle category codes.  The GVM will be validated against the vehicle category code selected.
GTM (kg)	Gross trailer mass is as defined in the Australian Design Rules and recorded in kilograms.	Numeric	6	<b>This field is mandatory for vehicle category codes:</b> <b>TA TB TC TD</b>  You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.  The GTM must be greater than zero and less than or equal to the ATM.  The GTM will be validated against the vehicle category code selected.
Tare (kg)	Tare mass of a vehicle (other than a motorcycle or motor tricycle) ready for service, unoccupied and unladen, with	Numeric	6	<b>This field is mandatory for vehicle category codes:</b> <b>LA LB LC LD LEM LEP LEG</b>

Name	Description	Data type	Length	Rules
	<p>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.)</p> <p>For light trailers, the definition of tare is outlined in the ADR definition and vehicle categories.</p> <p>Where optionally adding tare for cab chassis vehicles in NA, NB1 and NB2 categories, the tare is as supplied without the rear tray.</p>			<p><b>MA MB MC</b>  <b>TA TB TC (if the approval is for a low ATM trailer)</b></p> <p>This field is optional for:            NA NB1 NB2 NC            TC (if the approval is for a high ATM trailer) TD</p>
Motive power	<p>Energy sources and systems used to propel the vehicle as defined in the <a href="#">list of motive power options and their descriptions</a>.</p>	<p>Alphanumeric characters</p> <p>Must match one of the following (<u>not</u> case sensitive):</p> <p>EV</p> <p>FCEV</p> <p>HEV - Diesel</p> <p>HEV - H2</p> <p>HEV - Petrol</p> <p>ICE - CNG</p> <p>ICE - Diesel</p> <p>ICE - H2</p> <p>ICE - LPG</p> <p>ICE - Petrol</p> <p>ICE - Petrol + LPG</p> <p>PHEV - Diesel</p> <p>PHEV - H2</p> <p>PHEV - Petrol</p> <p>Other</p>	18	<p>This field is optional. However, you must leave this field blank for all trailer categories, otherwise your submission will fail validation.</p> <p>This field will be validated against the motive power options under 'Data type'.</p>

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Name	Description	Data type	Length	Rules
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 decimal 0.1 kW for L category vehicles	4	<p><b>This field is mandatory for vehicle category codes:</b>  <b>LA LB LC LD LEM LEP LEG</b>  <b>MA MB MC</b></p> <p>This field is optional for vehicle category codes:            NA NB1 NB2 NC            MD1 MD2 MD3 MD4 ME</p> <p>Not applicable for vehicle category codes:            TA TB TC TD</p> <p>You must leave this field blank for not applicable vehicle category codes, otherwise your submission will fail validation.</p>
Seating capacity	Seating capacity is the number of seated adult persons the vehicle is designed to carry and for which seating positions are provided.	Numeric	3	<p><b>This field is mandatory for vehicle category codes:</b>  <b>LA LB LC LD LEM LEP LEG</b>  <b>MA MB MC MD1 MD2 MD3 MD4 ME</b>  <b>NA NB1 NB2 NC</b></p> <p>You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.</p>
Build date	<p>Build date is the month and year (MM/YYYY) on which the vehicle was substantially completed.</p> <p>Guidance on substantial completion is:</p> <p><b>Motorcycles and passenger cars:</b> 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.</p> <p><b>Commercial vehicles and buses:</b> The calendar month and the year in which the cabin and chassis, or body shell, and power train subassemblies are conjoined and the vehicle is driven or moved from the production line. Alternatively, for a cab/chassis vehicle 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</p>	Date format (mm/yyyy)	7	<p><b>This field is mandatory.</b></p> <p>Future dates are not allowed.</p>

Name	Description	Data type	Length	Rules
	<p>the body is fitted to the cab/chassis and the vehicle is driven or moved from the production line.</p> <p>Where a vehicle leaves a manufacturing location for significant further manufacture that is covered by the approval, such as the installation of seats, the calendar month and the year in which the further manufacture was completed.</p> <p><b>Vehicle modifications including left to right-hand drive conversions:</b> The date of substantial completion of the original vehicle (the left-hand drive vehicle where applicable).</p> <p><b>SSM:</b> The date of substantial completion of the second stage of manufacture.</p> <p>Note: An SSM entry on the RAV is the second entry for the vehicle. It does not change the original vehicle record or original build date.</p> <p><b>SSM:</b> The date of substantial completion of the second stage of manufacture.</p> <p>Note: An SSM entry on the RAV is the second entry for the vehicle. It does not change the original vehicle record or original build date.</p> <p><b>Trailers:</b> 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.</p>			
Safer Freight Vehicle	The safer freight information can be entered where the vehicle type has been shown to meet applicable safer freight Australian Design Rules (ADRs).	String (Format SFV-XX-Y <sub>1</sub> Y <sub>1</sub> Y <sub>1</sub> -Y <sub>2</sub> Y <sub>2</sub> Y <sub>2</sub> )	50	<b>This field is optional for NB2 and NC category vehicles</b> You must leave this field blank for all other categories, otherwise your submission will fail validation.

Name	Description	Data type	Length	Rules
	<p>Information must be in the format <b>SFV-XX-Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub>-Y<sub>2</sub>Y<sub>2</sub>Y<sub>2</sub></b></p> <p>The first part <b>SFV</b> is mandatory for all eligible entries. Vehicles that meet all ADR requirements in order to exceed an 'Overall Width' of 2,500 mm are considered eligible and must contain a field entry. A vehicle may have an 'Overall Width' no greater than 2,500 mm but still be an eligible vehicle. The ADR requirements that allow sub-category NB2 vehicles and category NC vehicles to exceed an 'Overall Width' of 2,500 mm are contained within ADR 43/04 – Vehicle Configuration &amp; Dimensions or a later version.</p> <p>The <b>XX</b> descriptor is to be used as follows:</p> <ul style="list-style-type: none"> <li>• PM – for 'Prime Mover' vehicles as defined in <a href="#">Australian Design Rule – Definitions and Vehicle Categories</a>.</li> <li>• CC – for 'Chassis-Cab' vehicles as defined in <a href="#">Australian Design Rule – Definitions and Vehicle Categories</a>.</li> <li>• IO – for a 'Partially Completed Vehicle' as defined in <a href="#">Australian Design Rule – Definitions and Vehicle Categories</a>, other than 'Chassis-Cab' vehicles.</li> <li>• For other vehicle types comprising completed sub-category NB2 and category NC vehicles, the XX descriptor is not required.</li> </ul> <p>The <b>Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub></b> descriptor is the maximum 'Overall Width' (in mm) of the vehicle at the time of RAV entry. This is the manufacturer's nominal value plus upper (positive) manufacturing tolerance, for the particular design variant, and is required for both complete and incomplete vehicles. The 'Overall Width' of the actual vehicle may be less, within manufacturing tolerances for the design. In this respect, it is important to note that for some ADRs all variations in vehicle width must be</p>			<p><b>Note:</b> When creating an XML file, the name of this field must be 'OdometerReading' as shown in the example at <a href="#">Appendix D</a></p>

Name	Description	Data type	Length	Rules
	<p>specifically accounted for during testing. For example, ADR 14/03 – Devices for Indirect Vision, and ADR 105/00 – Blind Spot Information Systems (as applicable).</p> <p>The Y<sub>2</sub>Y<sub>2</sub>Y<sub>2</sub>Y<sub>2</sub> descriptor is the maximum certified ‘Overall Width’ (in mm) of the vehicle in accordance with its approval under s15(2) of the RVSA, at the time of RAV entry. Where this value does not differ from the ‘Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub>Y<sub>1</sub>’ it is not entered. However, it will differ (be greater) under various circumstances. These circumstances include:</p> <ul style="list-style-type: none"> <li>• where a ‘Chassis-Cab’ vehicle is intended to have a (wider) body fitted during a later stage of manufacture (or through modification in accordance with <a href="#">Vehicle Standards Bulletin 6 – Heavy Vehicle Modifications</a>), and this increased vehicle width has been accounted for within the original approval to relevant ADRs (for example ADR 14/03 – Devices for Indirect Vision where dummy headboards may be used to simulate a range of body widths during testing, and ADR 105/00 – Blind Spot Information Systems where performance and test requirements include prescribed distance of a test dummy from the extreme outer edge on the near side of the vehicle)</li> <li>• where a goods vehicle is complete at the point of RAV entry but has been certified to relevant ADRs (see above) in order to allow for an increase in ‘Overall Width’ without requirement for re-certification to those ADRs.</li> </ul>			
GCM (kg)	The gross combination mass (GCM) value specified for the vehicle by the ‘Manufacturer’ is 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	<p><b>This field is mandatory for vehicle category codes:</b> NB2 NC</p> <p>The field is optional for vehicle category codes: MD4 ME</p>

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Name	Description	Data type	Length	Rules
	<p>The GCM recorded on the RAV is the value established by the manufacturer which would occur if the vehicle were fitted with the highest rated tow coupling recommended by the manufacturer and the vehicle was operated in the most favourable manner.</p> <p>Multiple GCMs cannot be provided, however, the manufacturer can place caveats around the use of the vehicle at the GCM or specify in the owner's manual or other documentation other values for the maximum carrying capacity and maximum towing capacity that apply to the vehicle when used in other conditions.</p>			You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.
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').	True / False Yes / No Y / N	-	<p><b>This field is mandatory for vehicle category codes:</b> NC TD</p> <p>This field is optional for vehicle category code: TC</p> <p>You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.</p>
B-double capable	A combination of vehicles consisting of a prime mover towing 2 'semi-trailers'.	True / False Yes / No Y / N	-	<p><b>This field is mandatory for vehicle category codes:</b> NC</p> <p>You must leave this field blank for all other vehicle categories, otherwise your submission will fail validation.</p>
Entry pathway sub-category	<p>Entry pathway is the method through which the vehicle was approved to be provided for the first time in Australia.</p> <p>A sub-category refers to a particular set of circumstances that are relevant to the approval under the relevant entry pathway.</p> <p>There are 3 sub-categories. Each refers to a particular set of circumstances relevant to the approval:</p> <ul style="list-style-type: none"> <li>Concessional RAWs - Specialist &amp; Enthusiast Vehicle</li> </ul>	<p>Alphanumeric characters</p> <p>Must exactly match one of the following:</p> <p>Concessional RAWs - Specialist &amp; Enthusiast Vehicle</p> <p>Concessional - RAWs - Used</p>	Maximum 60	<p><b>This field is mandatory</b></p> <p>For entry pathway <b>Concessional - RAWs - Second Stage Manufacture</b>, a RAV record with this VIN and entry pathway of <b>Type Approval - Standard</b> or <b>Type Approval - Non - Standard</b> must already exist.</p>

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Name	Description	Data type	Length	Rules
	<ul style="list-style-type: none"> <li>Concessional - RAWs - Used Motorcycle Full Compliance</li> <li>Concessional - RAWs - Second Stage Manufacture</li> </ul>	Motorcycle Full Compliance Concessional - RAWs - Second Stage Manufacture		
Authorised by name	The name of the entity or authority authorised to add the vehicle to the RAV: <ul style="list-style-type: none"> <li>AVV approval holder's name.</li> </ul>	Alphanumeric characters	Maximum 60	<b>This field is mandatory</b> Add the name in the AVV's approval. The name must match the AVV approval holder.
Authorised by number	The number of the entity or authority authorised to add the vehicle to the RAV: <ul style="list-style-type: none"> <li>AVV approval holder's RAV organisation Number.</li> </ul>	Alphanumeric characters	Maximum 10	<b>This field is mandatory</b> The RAV will check that the RAV organisation number is valid and corresponds to the AVV's approval number. <b>Note:</b> This field will not be visible on the RAV public search.

## Appendix D – Creation of RAV files

### Instructions

These instructions accompany the RAV examples provided by the department for CSV.

#### CSV RAV data file

- This data file is a text file (Mac or MS-DOS, UTF-8 encoded) with a **.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 CSV file with the RAV data as per [Appendix A](#)
- Follow the rules of each field as per [Appendix B](#)
- For 'Build date', the number format must be set manually to mm/yyyy. (Tip: use one space before mm/yyyy to prevent the format reverting each time the file is reopened.)
- Save / download file.

### XML example

This [XML example](#) has been provided for illustration purposes only.

```
<?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>RAV074D23A0000399</VIN>
```

```
    <ApprovalNumber>VTA-062113</ApprovalNumber>
```

```
    <VCC>MA</VCC>
```

```
    <ApprovalHolder>Hoang Vo</ApprovalHolder>
```

```
    <VehicleMake>Make VTA-2024-0000942</VehicleMake>
```

```
    <VehicleModel>Model VTA-2024-0000942</VehicleModel>
```

```
    <GVM_ATM>2500</GVM_ATM>
```

```
    <GTM/>
```

```
    <Tare>1200</Tare>
```

```
    <Power>1200</Power>
```

```
    <SeatingCapacity>2</SeatingCapacity>
```

```
    <BuildDate>05/2024</BuildDate>
```

```
    <OdometerReading>More Info</OdometerReading>
```

```
  </RAVRecord>
```

<IsBDouble>>false</IsBDouble>

<IsRoadTrain>>false</IsRoadTrain>

<MotivePower>ICE - Petrol</MotivePower>

<NVESVehicleType>type 1 vehicle</NVESVehicleType>

<CarbonDioxideEmissions>11</CarbonDioxideEmissions>

<MassInRunningOrder>3300</MassInRunningOrder>

<RatedTowingCapacity/>

<AuthorisedByNumber>RAV000025</AuthorisedByNumber>

<AuthorisedByName>Hoang Vo</AuthorisedByName>

</RAVRecord>

</RavSubmission>

## CSV example

VIN	Approval	Vehicle C	Name of H	Make	Model	GVM / AT	GTM (kg)	Tare (kg)	Power (kW)	Seating C	Build Date	Safer Freij	Gross Con	Road Trair	B Double	Entry Path	Authorise	Authorise	NVES Veh	Carbon Di	Mass In R	Rated Tow	Motive Power
6F500000	VTA-0423	NC	Vivaldi Ca	Trkr	T909	32000				3	Feb-25	SFV-CC-25	240000		TRUE	Type Appi	Vivaldi Ca	RA00000#					

# Appendix E – RAV entry submission notifications examples

## RAV Submission Complete example

RAV Submission Completed [SEC=OFFICIAL]  
To [mycar@cars2go.com](mailto:mycar@cars2go.com)

OFFICIAL

Hello,

Your recent RAV Submission with file name RAVSubmission\_VTA37\_build\_date.xml has been processed.

All 2 vehicle records submitted have passed RAV validations.

Please note that you must pay the RAV charge upfront in ROVER or have a written agreement to pay on invoice before the validated vehicles will be added to the RAV.

Vehicle records are added to the RAV public search regularly, every day.

Summary:

Submission	RAV Records
<b>File:</b> RAVSubmission_VTA37_build_date.xml	<b>Total:</b> 2
<b>Date:</b> 15/08/2023 6:35 PM	<b>Loaded:</b> 2
<b>Email:</b> <a href="mailto:mycar@cars2go.com">mycar@cars2go.com</a>	<b>Rejected:</b> 0
<b>Your batch ID:</b> c55f24d3-8f24-4514-8e98-4e68fc68bc56	<b>RAV batch ID:</b> {FEC7D3E9-3F3B-EE11-BDF5-000D3AD07820}

For any queries please email the [RAV Help Desk](#).

Regards,  
RAV Help Desk

# RAV Submission Complete with Errors example

**RAV Submission Completed With Errors [SEC=OFFICIAL]**

To [mycar@cars2go.com](mailto:mycar@cars2go.com)

RAVExceptions.xml  
7 KB

OFFICIAL

Hello,

Your recent RAV Submission with file name RAVSubmission\_VTA26\_email\_attachment\_check.csv has been processed.

0 of the 9 vehicle records submitted have passed RAV validations.

Please note that you must pay the RAV charge upfront in ROVER or have a written agreement to pay on invoice before the validated vehicles will be added to the RAV.

Vehicle records are added to the RAV public search regularly, every day.

Summary:

	<b>RAV Records</b>
<b>Submission</b>	
<b>File:</b> RAVSubmission_VTA26_email_attachment_check.csv	<b>Total:</b> 9
<b>Date:</b> 30/08/2023 9:42 AM	<b>Loaded:</b> 0
<b>Email:</b> <a href="mailto:mycar@cars2go.com">mycar@cars2go.com</a>	<b>Rejected:</b> 9
<b>Your batch ID:</b>	<b>RAV batch ID:</b> {CD1D2E97-C546-EE11-BE6F-000D3AD0ABB8}

The list of RAV records not accepted (below) includes the reason(s) why individual records were not accepted. Refer to the appropriate RAV guide on the RVS guides and resources webpage for more information.

For any queries please email the [RAV Help Desk](#).

Regards,  
RAV Help Desk

**RAV records not accepted:**

VIN	Entry Pathway	Approval Number	Reason(s)
RRSTDST12WW110008	Type Approval - Standard	VTA-000026	Vehicle Model TB does not match model/variant of VTA-000026
RRSTDST12WW110008	Type Approval - Standard	VTA-000026	Authorised By Number RAV000044 is not a valid Rover RAV Organisation
RRSTDST12WW110008	Type Approval - Standard	VTA-000026	Approval VTA-000026 is not in-force

## RAV Submission Failed example

RAV Submission Failed [SEC=OFFICIAL]

To [mycar@cars2go.com](mailto:mycar@cars2go.com)

---

OFFICIAL

Hello,

Your recent RAV Submission has failed. No records have been processed.

File name: RAVSubmission\_VTA-000008\_2000-2.csv

Error: Maximum number of RAV items exceeded. 2001 items found in file - limit is 2000

For any queries please email the [RAV Help Desk](#).

Regards,

RAV Help Desk

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