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NVES Regulator IT Testing Program: Phase 1

User Guide

First published December 2024

# **About this guide**

This user guide has been developed for the personnel of a regulated entity who will manage their organisation’s submissions on the [Register of Approved Vehicles](https://www.infrastructure.gov.au/infrastructure-transport-vehicles/vehicles/rvs/rav) (RAV) from **1 July 2025**. These submissions relate to their obligations under the [*New Vehicle Efficiency Standard Act 2024*](https://www.legislation.gov.au/C2024A00034/asmade/text) (NVES Act).

For the purposes of this guide, the term ‘*authorised user’* will represent these personnel.

This user guide is one of a series of guides that will be developed by the NVES Regulator to outline the 3 phases of the Information Technology (IT) testing program.

This guide helps the authorised user understand the requirements of the first phase of testing, such as:

* what data is required in the RAV for the 4 new fields created for the New Vehicle Efficiency Standard (NVES)
* why the new data fields are mandatory from **1 July 2025** for NVES-eligible vehicles
* how to engage in this testing environment and use the template
* what the broader NVES Regulator testing program (the testing program) looks like.

Under the NVES Act the NVES Regulator defines **regulated entities** as:

* + The entity that holds a road vehicle type approval for a covered vehicle and that enters it on the RAV for the first time. (NVES Act S.12(1) (a) to (d))
	+ A road vehicle type approval has the meaning from the [Road Vehicle Standards Act 2018](https://www.legislation.gov.au/Details/C2021C00555) (RVSA)
	+ A covered vehicle is a Type 1 or Type 2 vehicle as defined in the NVES Act

In general:

* + Holders of road vehicle type approvals are vehicle manufacturers or original equipment manufacturers (OEMs), or distributors, suppliers or importers (domestic or international) that provide passenger vehicles or light commercial vehicles (up to 4.5 tonnes) to the Australian market
	+ A covered vehicle is a passenger or light commercial vehicle up to 4.5 tonnes gross vehicle mass (GVM), unless a vehicle class is exempted from the NVES by a legislative instrument.
	+ Entry on to the RAV is an administrative step that must be completed by regulated entities for all vehicles before they are provided to the Australian market for the first time.
	+ Under the RVSA these regulated entities must hold a vehicle type approval and enter covered vehicles on the RAV.
	+ A vehicle type approval holder is responsible for ensuring ongoing compliance.
	+ Regulated entities must enter NVES-specific data onto the RAV from 1 July 2025 when compliance is enforced

## **About the 3-phase testing program**

The NVES Regulator is enhancing current and building new IT systems to support its regulation and administration of the NVES Act.

These IT systems will support NVES to be built over 3 phases. Each of these phases will comprise a testing program for authorised users that is managed by the Department of Infrastructure, Transport, Regional Development, Communications and the Arts (the department) and the NVES Regulator.

The first phase of the testing program is for the NVES-specific data fields on the RAV.

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| --- | --- | --- | --- |
|  | We are here  |  |  |
| Phase | **Phase 1** | **Phase 2** | **Phase 3** |
| Build period | November 2024 to June 2025 | January 2025 to December 2025 | January 2025 to January 2026 |
| About | RAV enhancements built to support the collection of NVES emissions data from regulated entities | Calculation of a vehicle’s emissions performance against targets, and the conversion of results into units that are tradeable.  | Integration with the Clean Energy Regulator (CER) third-party provider (TROVIO) trading software (CorTenX). This will be used to create the NVES Regulator unit registry.  |
| Milestones  | Testing of the additional NVES-specific data in an environment that imitates the RAV.  | Development and testing of a dashboard, reports and other user experience (UX) products.  | Development and testing of the unit registry rules in the CorTenX environment.  |

The testing program makes sure:

* the NVES Regulator’s systems work as required
* a regulated entity’s data and processes translate into NVES Regulator’s systems and processes
* there is sufficient time between testing the system and using the system that amendments can be managed.
* the authorised users of regulated entities have an opportunity to inform the design of the NVES Regulator systems.

**Testing is voluntary** but strongly encouraged ahead of the **1 July 2025** compliance date.

## **About the testing environment**

Under the [NVES Act](https://www.legislation.gov.au/C2024A00034/asmade/text), regulated entities are required to provide data in 4 new NVES-specific fields on the RAV from **1 July 2025**.

To prepare for this, the NVES Regulator has developed a testing environment that imitates the RAV, which will be available for use from **2 January 2025.** This environment is **separate to the RAV portal and will be managed by the NVES Regulator.**

**Please note:** The data provided to the NVES Regulator during the testing program and through the testing environment is for testing purposes only. It will not be used to calculate compliance. Only data received through the RAV from the **1 July 2025** will be counted.

## **About the template**

The template is designed to allow authorised users to test:

* the 4 new NVES-specific data fields required on the RAV
* the data validation rules
* the process of submitting their data.

The template is limited to only 20 data records (rows) per file upload.

The template will be emailed to authorised users. It will also be made available for download on the [NVES Regulator Website](http://www.nvesregulator.gov.au) in CSV (Excel) and XML formatson 9 December 2024.

### What are the new NVES-specific data fields on the RAV?

The 4 new NVES-specific data fields on the RAV are:

1. NVES vehicle type
2. Carbon dioxide (CO2) emissions (grams per kilometre)
3. Mass in running order (MIRO) (kilograms)
4. Rated towing capacity (kilograms)

### What is the process?

From **2 January 2025**, authorised users can submit their completed template for validation.

The end-to-end process is as follows:

1. Download CSV (excel) or XML testing template from the [NVES Regulator Website](http://www.nvesregulator.gov.au).
2. Follow the instructions in the template and complete all required fields. Remember the template is limited to only 20 data records (rows) per submission.
3. Send the completed template via email to NVESTestSubmissions@infrastructure.gov.au. No specific subject line is required before you send the email.
4. The NVES Regulator will upload submissions into its testing environment.
5. Only NVES-specific data fields will be tested.
6. Authorised users will receive an email notification from the testing environment detailing a successful test, or highlighting validation or testing errors.

**Please note:** Authorised users are able to submit the template multiple times.

### Need help?

Please contact NVESRegulator@infrastructure.gov.au if you have questions about the:

* 3 phases of NVES Regulator IT testing program
* 4 new NVES-specific data fields on the RAV
* testing environment
* testing template.

Please do not contact the RAV team if you need help. As this is a separate process and does not require submissions to the RAV, you will need to contact the NVES Regulator.

## **NVES data field specifications**

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| --- | --- | --- | --- | --- |
| Data field | Definition/ Description | Data Type | Range / Length | Rules |
| NVES Vehicle Types | Type 1, Type 2 and Exempt vehicles as defined in the NVES Act. **Type 1:*** MA (passenger car)
* MB (forward‑control passenger vehicle)
* a light off‑road passenger vehicle as defined in section 15 of the NVES Act.

**Type 2:*** NA (light goods vehicle) vehicle category
* NB1 vehicle subcategory of the NB (medium goods vehicle) vehicle category
* heavy off‑road passenger vehicle as defined in section 15 of the NVES Act.
* a class of road vehicle determined to have type 2 vehicle status in an instrument in force [under section 29 (NVES Act).](https://www.legislation.gov.au/C2024A00034/asmade/text)

**MC category** * vehicles that are generally Type 1, but may be Type 2 if the vehicle has a towing capacity over 3,000kg and a ladder-frame chassis.

**Exempt*** vehicles with a GVM (gross vehicle mass) exceeding 4.5 tonnes
 | Alphanumeric characters | 14 | 1. This field is mandatory for vehicle category codes: MA, MB, MC, NA and NB1
2. Must exactly match one of the following:
* type 1 vehicle (If a vehicle is MA, MB or MC category vehicle)
* type 2 vehicle (If a vehicle is MC, NA or NB1 category)
* exempt vehicle (if it is a class of vehicle listed as ‘exempt’ under the NVES Act)
* not applicable (if it is a category not listed as ‘type 1 vehicle’, ‘type 2 vehicle’ or Exempt under the NVES Act)
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| Carbon dioxide (CO2) emissions | The vehicle’s (combined cycle) carbon dioxide (CO2) emissions (measured in grams of carbon dioxide per kilometre) calculated in accordance with a national road vehicle standard that applies to the vehicle. | Numeric  | 0-999 | 1. This field is mandatory for vehicle category codes: MA, MB, MC, NA and NB1
2. The value must be in grams/kilometre (g/km)
3. If the NVES Vehicle Type is “exempt vehicle” or “not applicable”, this field should be left blank.
4. This field is limited to maximum 3 digits.
5. This field only allows for whole numbers.
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| Mass in Running Order (MIRO) | The mass of a vehicle including all fluids, standard equipment and a 75kg passenger, defined by clause  3.2.5 of [Appendix A of Australian Design Rule (ADR) 111/00.](https://www.legislation.gov.au/F2024L00446/latest/text) | Numeric | 500-4500 | 1. This field is mandatory for vehicle category codes: MA, MB, MC, NA and NB1
2. The value must be in Kilograms (kg)
3. This field allows for either a whole number or a number with no more than one decimal place (e.g. 2187 or 2187.8 are acceptable values)
4. If the NVES Vehicle Type is “exempt vehicle” or “not applicable”, this field should be left blank.
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| Rated Towing Capacity | The lesser of either:* the rating given to the towing equipment fitted to the motor vehicle
* the difference between ‘Gross Combination Mass’ and ‘Gross Vehicle Mass’, as defined in the [ADR Definitions and Vehicle Categories 2005.](https://www.legislation.gov.au/F2005L03850/latest/text)
 | Numeric | 0-9999 | 1. This field is mandatory only for vehicle category code: MC
2. This field must be between 0-9999 if the vehicle category code is MC and NVES vehicle type is Type 1 3000-9999, if the vehicle category code is MC and NVES vehicle type is Type 2
3. The value must be in kilograms (kg)
4. This field allows for either a whole number or a number with no more than one decimal place (e.g. 2187 or 2187.8 are acceptable values)
5. If the NVES Vehicle Type is “exempt vehicle” or “not applicable”, this field should be left blank.
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