

NHVR National Network Map



DEC 2023

The NHVR continues to deliver on its commitment to improve and simplify the way the heavy vehicle industry accesses information through the NHVR Portal.

Another key initiative is soon to be released in the Portal through the delivery of the first heavy vehicle National Network Map.

The NHVR has been working with jurisdictional and local government partners in South Australia, Victoria, New South Wales, Queensland, and the Australian Capital Territory to transition their networks and achieve this important outcome.

From December 20, the NHVR Portal will become the single and authoritative location for the heavy vehicle industry to map journeys across state and territory borders for their entire fleet.



- Search by **state network** provides a network-based breakdown mirroring the current network structure on state and territory websites, and targets users familiar with the existing structures to reduce the change impacts moving to the National Network Map.

Search for your networks based on specific vehicles

- Current maps don't provide full lists of eligible vehicles, requiring operators to look up operator guides or the legal instrument itself.
- Selecting from vehicle types and seeing all nationally where the vehicle can access, will provide better visibility, and improve fleet management decision making.
- There are over 1,000 different vehicle configurations included, with each associated with its applicable maps. This gives operators a level of detail that has never been available before in the jurisdictional websites.

What is the National Network Map?

- The National Network Map supports improved heavy vehicle access efficiency and decision making by bringing together the state-based heavy vehicle networks and displaying them in one location.
- From December 20, the NHVR Portal will become the single and authoritative location for the heavy vehicle industry to map journeys across state and territory borders for their entire fleet.
- The National Network Map is the first-time operators can view where they can travel, and where they need to seek access approval, on a national level.
- The current state-based maps are administered by state transport departments and only include the relevant state networks. When utilising the Network Management Tools, operators will be able clearly see what conditions and restrictions apply across the country.

How to access the National Network Map

- The National Network Map will be available at maps.nhvr.gov.au.
- The map will also be available through the NHVR Portal.
- States maps will provide a redirection link to the National Network Map.

How you can find a network included on the National Network Map

It is possible to search in several different ways to find networks.

- Search by **vehicle category** provides a vehicle centred approach to find networks and targets new users who are not familiar with access instruments. Vehicles are grouped according to configuration and sub-configuration.
- Group by **access instrument** provides a list of the national and state notices, pre-approval networks and permit schemes, and targets more experienced users who know which instrument they run under.

Innovative features to manage your fleet

- **Favourites:** Easily mark a network map as a favourite using the well understood 'star' button which adds the network to your favourites list. You can save up to 200 favourites.
- **Saved views:** When viewing a network map, you may turn on layers (e.g., height restrictions) or toggle satellite mode, and zoom into a particular location of interest. This feature allows you to save all these selections and name the view as you add it to your views list. You can save up to 200 views.
- **Share:** You can copy a webpage URL to your clipboard and then you can share with anyone over email or SMS. When clicking on the URL the map will open with all your selections reloaded and the map will zoom into the exact location at the time of generating the URL. This means you can easily share maps with all selections to anyone at any time.
- **Recently viewed networks:** For every network map you view a history of which map you viewed and when it was last maintained will be under Recently Viewed Networks. This will make it easy to find a map that was previously viewed, even if you forgot to favourite or save it.

All your information in the one place

- SA, QLD, NSW, and VIC provide additional information panels and map layers (e.g., rest areas, height restrictions, road disruptions) which can be turned on over network maps, to easily identify these points of interest.
- The National Network Map will include all additional information panels and map layers in one place.

NHVR National Network Map



- The National Network Map also includes direct links to the operator guide / information sheet and legal instrument, making it easier for operators to get all the information they need to use a network.

Experience real time updates to the road network

- As roads are upgraded or changed, the road network can have changes proposed very quickly. Currently changes to maps involve specialist teams and inefficient email-based change requests. Following completion of approval, updates are automatically included in network maps.
- This means a richer set of information is displayed on the National Network Map to help plan safer journeys including clear indication of railway crossings and traffic light intersections.
- There is a workflow built into the NHVR Portal for Road Managers to facilitate immediate updates to networks on the National Network Map and will be improved over time with Road Manager Network Management tools.
- Any updates which expand network access can be published immediately.
- Any updates which condition, restrict or remove access (except in cases of emergency) are required to go through 28-day consultation providing forward visibility of such changes to enable operators to better plan for network changes.

The traffic light colour scheme

- The National Network Map has been built to be intuitive for the user – with visual cues including a traffic light colour scheme on roads to denote access:
 - **Green** = approved vehicle access under the conditions of the access instrument
 - **Yellow** = conditional vehicle access where additional road or travel conditions must be met to access the road. Operators can click one or more roads and view the conditions.
 - **Red** = restricted roads where the vehicle is specifically restricted from access. Operators can click one or more roads and view the reasons for the restriction.
- VIC and ACT maps will use yellow and red colours on all conditional or restricted roads. However, SA, QLD and NSW maps also use shaded areas and points that note conditions/restrictions that apply to all roads within that area or in the vicinity of a point.
- This will be improved over time using the Road Manager network management tools.

The Next Generation Route Planner

- All the maps in the National Network Map will also be displayed on the NHVR Portal Next Generation Route Planner, meaning that where a permit is still required, the operator can choose the best route based upon existing networks, to minimise permitted kilometres.
- All the maps displayed on the NHVR Portal Next Generation Route Planner will be sourced live from the National Network Map.
- Having the maps in the NHVR Portal Next Generation Route Planner means operators can leverage routing features with up-to-date maps that can be relied upon when planning a permit application.

What's next?

- Routing and the ability to generate printable route cards will be added over the next 6 months.
- The NHVR will work on digitalising all maps associated with pre-approvals and continue to work with local government road managers to develop faster approvals for these pre-approval maps.

What to do if you can't find your map

- If you cannot find your map, get in touch with the NHVR contact centre at info@nhvr.gov.au. We anticipate there will be a feedback mechanism to request maps in 2024. There is also an email function built into the map itself.

Jurisdiction	Map notes
South Australia	All the maps on the SA RAVnet are included.
Victoria	All the maps on the VicRoads website are included. VicRoads will maintain 3 maps which are also used for non HVNL purposes: curfew, height clearance, OD network
Queensland	Queensland will migrate only Gazetted maps to the National Network Map. Maps that will be included: 23m Route; 25/26m Route; RT1 Route; RT2 Route; HML Route; NORTBD Route; 1TMT. Maps that will be excluded*: Cat 1 and 2 SPV; 3-Axle Steering Cranes; 2-Axle SPV; PBS 2B Route; TMR Mass Conditions Report. These maps will remain on the Queensland Globe.
New South Wales	All the maps on the Transport for NSW website are included.
ACT	All the maps on the ACT website are included.
Tasmania	Tasmanian networks are not included at this stage.
NT	Not a participant in the HVNL.
WA	Not a participant in the HVNL. As part of implementing the NHVR Portal, WA will migrate their maps into the National Network Maps in late 2024.

**In Queensland, all PBS Level 2B combinations are required to be assessed to allow route access. Accordingly, TMR will not include the PBS Level 2B network on the NHVR National Network Map. The PBS Level 2B network in the Queensland Globe should only be used to guide permit applications and route planning.*

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