
TMA Special Purpose Vehicle Monitoring Schemes (NSW)



**Schemes using the Telematics Monitoring Application
(TMA) for Transport for NSW**

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Transport Certification Australia (TCA) is a centre of excellence within Austroads, responsible for assessing and recognising telematics and other vehicle-based technologies. Through its administration of the National Telematics Framework, TCA helps Australian and New Zealand transport agencies collect data from vehicles in ways that are trusted by government and industry, and to provide data and analytical services that enable improved road outcomes.

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1 Introduction

1.1 Purpose

This document describes the following TMA Special Purpose Vehicle (SPV) Monitoring Schemes (NSW), which are made available by Transport for NSW associated with the Telematics Monitoring Application (TMA):

- TMA SPV Monitoring Scheme – Level 1 SPVs (NSW)
- TMA SPV Monitoring Scheme – Level 2 SPVs (NSW)
- TMA SPV Monitoring Scheme – Level 3 SPVs (NSW)
- TMA SPV Monitoring Scheme – Level 4 SPVs (NSW)
- TMA SPV Monitoring Scheme – Level 4/12t per Axle SPVs (NSW)
- TMA SPV Monitoring Scheme – 5-Axle SPVs Up to 55 Tonnes (NSW)
- TMA SPV Monitoring Scheme – Level 6 SPVs (NSW)
- TMA SPV Monitoring Scheme – Level 5 SPVs (NSW).

TMA SPV Monitoring Schemes (NSW) will enable monitoring of eligible large mobile cranes classified as SPVs on the New South Wales (NSW) road network.

1.2 Scope

This document describes the TMA SPV Monitoring Schemes (NSW) and how they are used with the TMA application.

The following information is included:

- Common scheme features
- Key scheme processes
- Roles and responsibilities of scheme participants
- Scheme descriptions in appendices.

Note: This document does not provide information on IAP SPV Monitoring Schemes (NSW) other than the details shown in the appendices.

1.3 Background

A Special Purpose Vehicle (SPV) is defined as a motor vehicle or trailer, other than an agricultural vehicle or a tow truck, built for a purpose other than carrying goods such as a mobile crane, a concrete pump or drill rig. An SPV that exceeds one or more of the general mass and dimension limits set out in the Heavy Vehicle (Mass, Dimension and Loading) National Regulation is considered a Class 1 restricted access heavy vehicle.

Not all roads and road infrastructure can safely provide access to SPVs of particular dimensions and masses. This can be because of bridges that have not been built to cater for the heavier SPVs or the road geometry is not suitable for longer SPVs.

Eligible SPV categories are described in scheme descriptions in the appendices of this document.

Eligible vehicles may be enrolled in a TMA SPV Monitoring Scheme (NSW) and/or a related IAP SPV Monitoring Scheme (NSW) (see appendices).

If eligible vehicles are already enrolled in a related IAP SPV Monitoring Scheme (NSW):

- Enrolment may be cancelled in the IAP SPV Monitoring Scheme (NSW) and commenced in the applicable TMA SPV Monitoring Scheme (NSW); or
- Enrolment may be retained in the IAP SPV Monitoring Scheme (NSW) and commenced in the applicable TMA SPV Monitoring Scheme (NSW) (i.e. enrolment may be in both schemes).

To participate in a TMA SPV Monitoring Scheme (NSW), a transport operator ('Operator') must conform with the requirements specified within the instrument of access approval, which is one of the following as applicable:

- *New South Wales Class 1 Special Purpose Vehicle and Combination Exemption Notice*
- *New South Wales Class 1 4-Axle & 5-Axle All Terrain Mobile Crane Mass and Dimension Exemption Notice*
- *New South Wales Class 1 All Terrain Mobile Crane and Dolly Combination Mass and Dimension Exemption Notice*
- *National Class 1 Special Purpose Vehicle (up to 40t total mass) Mass and Dimension Exemption Notice*
- Heavy Vehicle National Law (HVNL) Mass or Dimension Exemption Permit issued by the National Heavy Vehicle Regulator (NHVR).

Enrolment in the TMA application¹ is performed by the certified Application Service Provider (ASP) selected by the Operator².

The ASP is responsible for the installation of a TCA-approved³ telematics device in the vehicle being utilised in accordance with the Notice. If self-declaration is required (see 2.2c) the ASP is also responsible for providing a TCA-approved user interface.

The ASP is responsible for the collection of data from vehicles enrolled in accordance with the requirements of the TMA application for the scheme.

ASPs provide data records to TCA. TCA analyses the data and makes reporting available to Transport for NSW (and other bodies authorised by the Authority) via the Telematics Analytics Platform (TAP).

The TMA application⁴ is offered at Level 2 Assurance appropriate to these vehicles (see Appendix A for a definition of Level 2 Assurance).

¹ Under Chapter 7 of the Heavy Vehicle National Law (HVNL), the TMA application is referred to as an 'approved intelligent transport system' of the Intelligence Access Program, and is specified as a condition within the applicable instrument of access approval above.

² The Operator may be eligible to perform the role of ASP in full or part, subject to the approval of TCA.

³ TCA approval of a telematics device (and user interface if applicable) may be in the form of type-approval or an equivalent approval mechanism acceptable to TCA. ASPs must meet applicable requirements in the functional and technical specification, irrespective of the approval mechanism.

⁴ The TMA application can be used for a variety of purposes. In this document, TMA is described in the context of the schemes, which have specific business requirements associated with the standard operation of the TMA application.

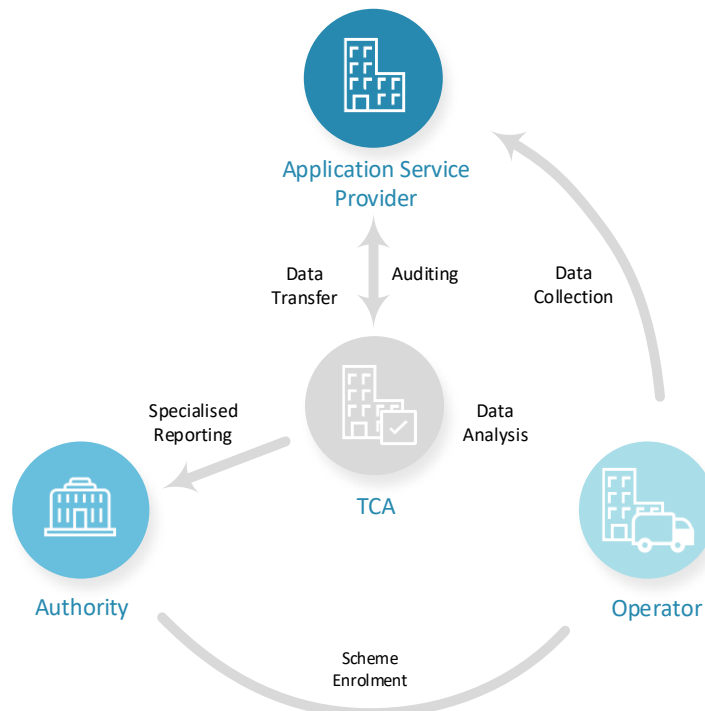
2 TMA Special Purpose Vehicle Monitoring Schemes (NSW)

2.1 Participants

Figure 1 outlines the key interactions between participants for the use of the TMA application for a TMA SPV Monitoring Scheme (NSW):

- Transport for NSW, as the Authority of the scheme, requires the monitoring, with reporting, of the Operator's vehicle(s) as a condition of the Authority allowing the Operator and its vehicle(s) to participate in the scheme. The Authority (or the National Heavy Vehicle Regulator on behalf of the Authority) may conduct compliance activities as necessary.
Note: The functions associated with an Authority may involve a road authority or regulator, or both, as applicable to the scheme.
- Operators are vehicle operators that agree to enrol vehicles into the scheme, and consent to their data collected through the TMA application to be used for the intended purpose (as defined by the Authority and agreed to by the Operator in the ASP–Operator Agreement).
- ASPs, certified by TCA, offer telematics services (hardware, software and associated processes) to enable enrolment of eligible vehicles in the TMA application (as well as other applications available within the National Telematics Framework [NTF]), collection of data from installed telematics devices and reporting of data to TCA.
- TCA administers the TMA application and its schemes within the NTF, ensuring that data security and privacy concerns are managed. TCA receives vehicle enrolment details from Operators via ASPs, and makes ASP–Operator Agreements available to participants. TCA also receives telematics data from ASPs, performs data analysis, and makes standard and specialised reporting available to the Authority (and other bodies authorised by the Authority) via TAP as agreed between the Authority and TCA, and in accordance with the intended purpose as agreed by the Operator in the ASP–Operator Agreement.

Figure 1: Scheme Participants and Key Interactions



Note: Interactions between scheme participants are consistent with interactions between TMA application participants and are not specific to the scheme.

2.2 Common Scheme Features

This section describes the common features of a TMA SPV Monitoring Scheme (NSW). For information on features that are specific to a TMA SPV Monitoring Scheme (NSW), refer to the scheme descriptions in the appendices of this document.

Note: The following information is for TMA SPV Monitoring Schemes (NSW) only. This document does not provide information on IAP SPV Monitoring Schemes (NSW) other than the details shown in appendices.

a. ASP Certification

TCA will certify ASPs to provide services for the TMA application.

b. Enrolment

ASPs will enrol vehicles in the TMA application and a TMA SPV Monitoring Scheme (NSW) at the request of the Operator.

The ASP will manage key steps of enrolment including approval, and as necessary, cancellation and replacement.

Figure 2 shows the pre-enrolment steps for a TMA SPV Monitoring Scheme (NSW).

Figure 3 shows the reporting processes for a TMA SPV Monitoring Scheme (NSW).

Figure 4 shows the enrolment cancellation and reporting processes for a TMA SPV Monitoring Scheme (NSW).

c. Devices and Data Collection

The device used in the TMA application is a telematics device, approved by TCA for use at Level 2 Assurance or higher.

The telematics device will collect:

- Position data at 30-second intervals; and
- Date and time data.

When a vehicle will enrol in more than one TMA SPV Monitoring Scheme (NSW), mass and vehicle configuration must be declared through a TCA-approved user interface provided by the ASP.

When this is the case:

- The vehicle must be enrolled in all the TMA SPV Monitoring Schemes (NSW) the vehicle will operate under; and
- Mass and vehicle configuration must be self-declared once every 24-hour period.

If a vehicle will not change configuration and does not meet the self-declaration requirement criterion above, the Operator does not need to self-declare mass or vehicle configuration.

Important: The Operator of a large mobile crane that might change vehicle configuration must ensure that:

- *The ASP it selects to facilitate enrolment in these schemes is certified by TCA to provide self-declaration services for the TMA application; and*
- *The ASP provides a TCA-approved user interface that allows self-declaration.*

d. Data Reporting

The ASP shall transfer data records collected through TMA to TCA no less frequently than each calendar month, and as described in *Telematics Monitoring Application Functional and Technical Specification*.

e. Data Analysis and Reporting

TCA will make data analysis and reporting available to the Authority and other bodies authorised by the Authority through TAP.

Through TAP, the Authority and other bodies authorised by the Authority will have access to:

- Interactive maps, which represent de-identified data using data elements collected as part of a TMA SPV Monitoring Scheme (NSW); and
- Specialised reporting required for scheme management.

Note:

- (i) The type, number, frequency and graphical output of specialised reporting to the Authority will be subject to agreed terms reached between TCA and the Authority.*
- (ii) Data will also be provided to the regulator consistent with its role and responsibilities in managing heavy vehicle compliance.*
- (iii) The TMA application relies on changes in vehicle position records over a 30-second period to derive vehicle speed. Average and maximum vehicle speed results are estimates only, and may be influenced by factors such as road geometry and Global Navigation Satellite System (GNSS) quality. Authorities should exercise caution when interpreting vehicle speed derived from the TMA application.*

The use of TMA for a TMA SPV Monitoring Scheme (NSW) is intended to provide a basic representation of vehicle movements based on the data collected and the use of data for the intended purpose of the scheme (as agreed by the Operator in the ASP–Operator Agreement).

A Scheme Participation Report will be made available to the Authority on a monthly basis via TAP. This report may include the following standard measures and dimensions as shown in Table 1.

Table 1: Scheme Participation Report

Examples
<ul style="list-style-type: none">• Count of all vehicles enrolled in a TMA SPV Monitoring Scheme (NSW)• Count of vehicles enrolled in a TMA SPV Monitoring Scheme (NSW) that TCA received data from• Vehicles enrolled in a TMA SPV Monitoring Scheme (NSW) that TCA did not receive data from for at least 30 consecutive days <p><i>Note: Reporting of this measure will include vehicle identities. A participating vehicle will only be included in this measure if, without a satisfactory explanation, it has not provided data for at least 30 consecutive days.</i></p> <ul style="list-style-type: none">• Count of Operators with vehicles enrolled in a TMA SPV Monitoring Scheme (NSW)• Count of ASPs reporting data for vehicles enrolled in a TMA SPV Monitoring Scheme (NSW)

2.3 Key Scheme Processes

Figure 2 outlines the key actions taken by each participant during the pre-enrolment stage of the operation of a TMA SPV Monitoring Scheme (NSW).

Note:

- i) This process assumes that TCA has already certified the ASP to provide TMA application services.
- ii) The following information is for TMA SPV Monitoring Schemes (NSW) only. This document does not provide information on IAP SPV Monitoring Schemes (NSW) other than the details shown in appendices.

Figure 2: Pre-Enrolment Process

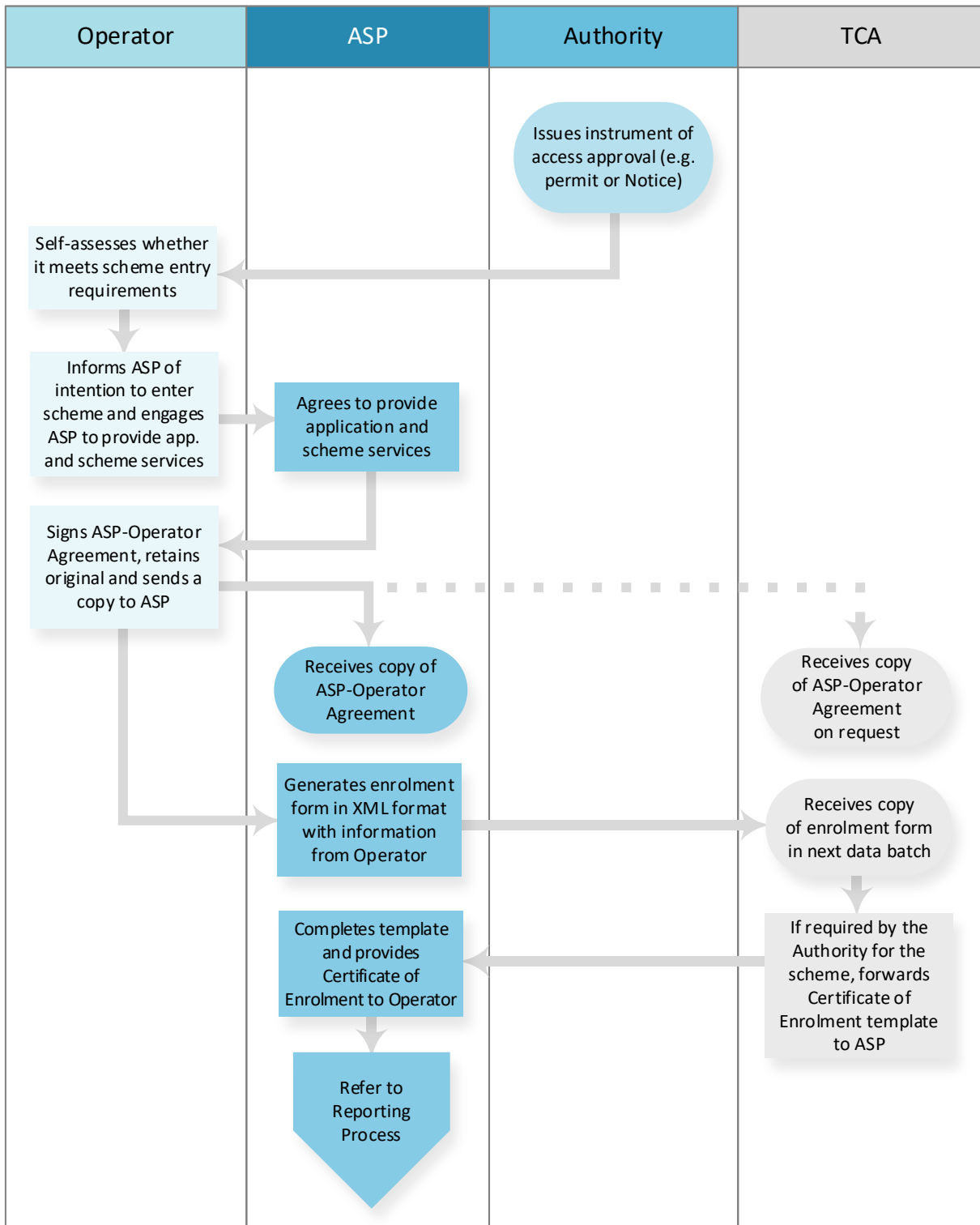
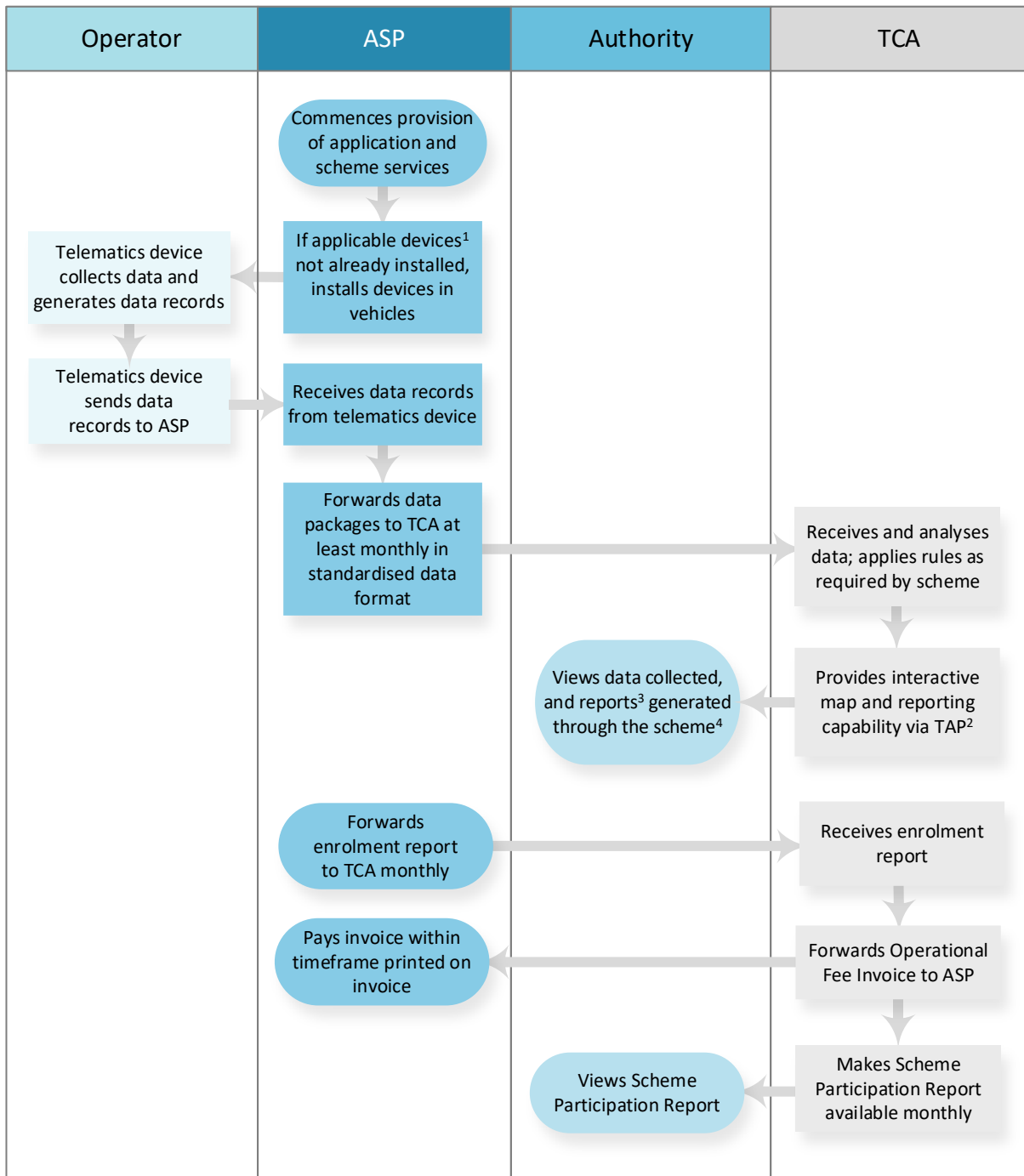


Figure 3 outlines the key actions related to data collection, record generation and reporting.

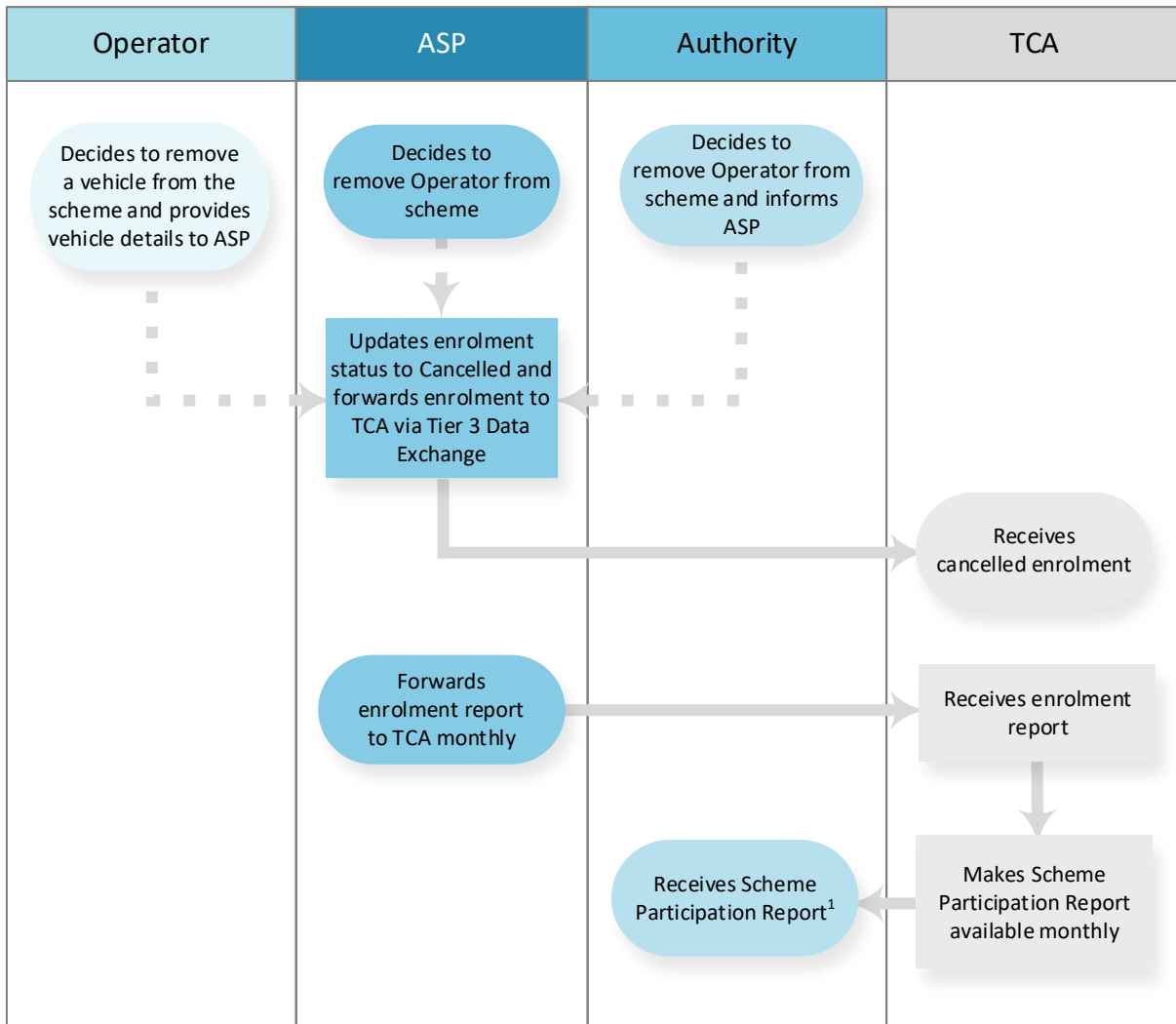
Figure 3: Reporting Processes



1. Applicable devices include a TCA-approved telematics device; and:
 - If comments are self-declared, a user interface connected to the TCA-approved telematics device.
2. Data will be updated at least monthly.
3. The Authority will nominate the locations that will be subject to location-based reports (subject to agreed terms).
4. Other bodies authorised by the Authority may also view this information.

Cancellation of enrolment may be initiated by the Operator, the Authority or the ASP.
 Figure 4 outlines the key actions to discontinue enrolment of a vehicle.

Figure 4: Enrolment Cancellation and Reporting Processes



1. Other bodies authorised by the Authority may also view this information.

2.4 Roles and Responsibilities

Note: The following information is for TMA SPV Monitoring Schemes (NSW) only. This document does not provide information on IAP SPV Monitoring Schemes (NSW) other than the details shown in appendices.

In delivering the objectives of a TMA SPV Monitoring Scheme (NSW), **TCA** will:

- Provide a document (this document) describing the use of the scheme as part of the TMA application
- Produce or maintain collateral, as necessary, to support the scheme. Examples include the provision of current versions of:
 - *Telematics Monitoring Application Functional and Technical Specification*
 - *Telematics Business-to-Business Data Exchange Functional and Technical Specification*
 - *Telematics Device Functional and Technical Specification*
- Support the reporting of data records via Tier 3 Data Exchange using a RESTful API, with these records formatted using a JSON format
- Support the reporting of enrolment forms and enrolment reports using a RESTful API, with these documents formatted using an XML format
- Inform ASPs of scheme details and entry conditions
- Produce an ASP–Operator Agreement for use with the scheme and make it available from the TCA website
- Ensure that TAP is set up to enable the Authority and other bodies authorised by the Authority to access reporting generated by the scheme (in accordance with the intended purpose as agreed by the Operator in the ASP–Operator Agreement), and any malfunctions associated with vehicles enrolled in the scheme
- Maintain the cloud environment and databases, etc. for receipt of data records from the TMA application
- Produce and execute an ASP–TCA Certification Agreement, which formalises the relationship between TCA and the ASP with regard to ASP certification, or update the current Agreement
- Assess and certify whether an ASP meets requirements to provide TMA services
- Approve devices used in the scheme
- Ensure the intellectual property rights of ASPs are protected when assessing whether an ASP can meet operational requirements of the scheme
- If required by the Authority, provide certified ASPs with the Certificate of Enrolment template
- At the end of each month, forward Operational Fee Invoices to ASPs upon receipt of enrolment reports
- With the ASP, monitor via TAP whether a device malfunction has been resolved within agreed timeframes
- Notify the ASP when data from an enrolled vehicle has not been received for one month, followed by the Authority if unresolved
- Provide the Authority with reporting outlined in 2.2e via TAP
- Ensure the confidentiality of ASP data is maintained
- Unless directed by the Authority and consented to by the Operator, de-identify the TMA data it has received relating to the Operator’s nominated vehicle(s) 12 months from its receipt of the data.

The Authority will:

- Maintain documentation required by the Authority for the scheme
- Undertake program coordination activities related to the scheme with TCA
- Monitor whether device malfunctions have been resolved within agreed timeframes
Note: TCA will notify the ASP when data has not been received for one month, followed by the Authority if unresolved.
- Access reporting outlined in 2.2e via TAP, and review data trends and numbers of enrolled vehicles
- In conjunction with TCA, communicate scheme-related policy changes to industry and stakeholders.

ASPs will:

- Interact with TCA to establish the delivery mechanism for provision of data packages to TCA (noting that a data package includes data records, enrolment forms and enrolment reports)
- Receive notification from Operators regarding the enrolment status of vehicles, and forward this information to TCA using an agreed mechanism on a monthly basis
- Provide the ASP–Operator Agreement to an Operator once an agreement to provide services for the scheme has been made
- Be responsible for the installation, operation and maintenance of telematics devices (and provision of user interfaces if applicable) and the reporting of data received from those devices, and as described in the *Telematics Monitoring Application Functional and Technical Specification*
- If required by the Authority, provide Certificates of Enrolment to enrolled Operators, using the template received from TCA, and coordinate their removal from vehicles no longer enrolled in the scheme
- Pay Operational Fee Invoices received from TCA, generated upon receipt of enrolment reports, within the timeframe shown on the invoice
- In the event of a device malfunction: liaise with the Operator and/or device supplier to resolve the issue; report the malfunction (unidentifiable) to TCA within the required time period; monitor via TAP whether the device malfunction has been resolved within agreed timeframes; and notify TCA when the malfunction has been resolved
- Provide back-office capability to process collected data records as required by the scheme
- Deliver data records to TCA, using agreed data delivery mechanism, required data formats and meeting data reporting requirements.

Operators will:

- Access scheme rules and entry conditions on the Authority website and determine whether they meet those conditions
- Access the applicable instrument of access approval from the NHVR website and ensure compliance with its requirements for the scheme
- Upon self-assessment that scheme entry conditions are met, notify the ASP of its intention to enrol in the scheme
- Agree to share data collected by its ASP with TCA for the scheme using a signed TMA ASP–Operator Agreement
- Follow rules for enrolment in the scheme
- Store original signed ASP–Operator Agreement and forward copies to the ASP and TCA (on request)
- Engage an ASP to provide services for the scheme
- Notify the ASP of the date that a vehicle or the Operator will no longer participate in the scheme.

A Acronyms and Definitions

Acronyms

Acronym	Definition
API	application programming interface
ASP	Application Service Provider
GCW	ground contact width
GNSS	Global Navigation Satellite System
HVNL	Heavy Vehicle National Law
IAP	Intelligent Access Program
NHVR	National Heavy Vehicle Regulator
NTF	National Telematics Framework
SPV	Special Purpose Vehicle
TAP	Telematics Analytics Platform
TMA	Telematics Monitoring Application
UTC	Coordinated Universal Time

Definitions

Term	Definition
application	A capability of the NTF that provides business value to stakeholders, delivered as an assembly of policy, business components and technical components, within in the context of an identified level of assurance.
Application Service Provider (ASP)	A service provider that has been certified by TCA as meeting the requirements of one of more telematics applications.
approval mechanism	The mechanism by which TCA approves a device, such as a telematics device or connected device, for use in a telematics application. The approval mechanism used may be type-approval, or an equivalent approval mechanism acceptable to TCA.
ASP–TCA Certification Agreement	The written agreement made between an ASP and TCA that recognises the fact that the ASP, having satisfied TCA’s requirements for appointment as an ASP, is appointed in that capacity, and sets out the legal obligations of each party with respect to the ongoing role of the ASP.
ASP–Operator Agreement	A written agreement between an ASP, an Operator and TCA which sets out the terms on which the ASP will provide application services to the Operator, and the intended purpose for collecting data from the Operator’s vehicle(s) enrolled in the scheme.

Term	Definition
Authority	An entity, associated with a jurisdiction, responsible for the administration of one or more NTF applications. An Authority may appoint an administrator to perform its functions. <i>See also: jurisdiction.</i> <i>Note: The functions associated with an Authority may involve a road authority or regulator, or both, as applicable to the scheme.</i>
connected device	Any device or technology connected to a telematics device.
data collection period	A whole number of days in the UTC time zone for which all application data is provided. Successive data collection periods are contiguous.
data package	A package of information sent via Tier 3 Data Exchange for a data collection period.
data record	A discrete and defined set of data elements generated by a device.
enrolment	Both the process and outcome by which an Operator enters an Authority's scheme. Each vehicle must be enrolled for each scheme it participates in. Enrolment also confirms the application and conditions (if applicable) that the vehicle is monitored under.
enrolment form	An electronic document that formally and simultaneously records the enrolment of a vehicle within a scheme, and within the application required by that scheme.
enrolment report	A summary of enrolments relevant to a given Authority for a specified reporting period, including any aggregated data required by specific applications.
jurisdiction	A geographical area containing a road network (i.e. typically an Australian state or territory).
level of assurance	An assurance level that supports telematics applications, structured around the intended use of a telematics application, risks being managed, and the needs and expectations of consumers and other stakeholders.
Level 2 Assurance	Independent assessment of specific elements of a telematics application. Telematics data is combined with other data sources.
Operator	An entity that operates one or more vehicles eligible to enter a scheme.
regulator	In the context of a scheme, an entity that provides regulatory and/or legislative context for the scheme, and may conduct compliance activities as applicable to the scheme. <i>See also: Authority.</i>
scheme	The generic term for a specific use of an application linked to delivering a policy objective.
self-declaration	The self-declaration of data by an Operator and/or its nominated representative to the ASP.
Special Purpose Vehicle (SPV)	A motor vehicle or trailer, other than an agricultural vehicle or a tow truck, built for a purpose other than carrying goods. Examples include mobile cranes, concrete pump trucks and drill rigs.
telematics device	The primary TCA-approved telematics unit that monitors vehicle parameters, which may include identity, datetime, location, speed, vehicle category or mass.
Tier 1 Data Exchange	A web services solution where structured information is exchanged that complies with requirements such as authentication, security, privacy and certainty of delivery.

Term	Definition
	It includes exchanges of information related to a vehicle's enrolment in telematics applications, conditions and adherence to those conditions.
Tier 2 Data Exchange	The human-initiated (rather than automated) exchange of business-related information and advice. Typical exchanges via this tier include reporting of issues and resolutions, correspondence regarding certification and re-certification, advice regarding information and communications technology (ICT), data assurance and other reporting.
Tier 3 Data Exchange	The packaging and delivery of data packages, comprising data records and enrolment-related artefacts. Data packages have several uses which include data analysis by the recipient, data assurance, and for research purposes.
user interface	<p>A generic term for any device or interface used by the Operator and/or its nominated representative to enter data into the telematics device or ASP System.</p> <p><i>Note: In the Intelligent Access Program (IAP) application, the user interface is referred to as a self-declaration input device (SDID).</i></p>

B TMA SPV Monitoring Scheme – Level 1 SPVs (NSW)

Purpose

The TMA SPV Monitoring Scheme – Level 1 SPVs (NSW) is a scheme administered by Transport for NSW to monitor road utilisation of SPVs at SPV Level 1 operating under any of the following:

- *National Class 1 Special Purpose Vehicle (up to 40t total mass) Mass and Dimension Exemption Notice*
- *New South Wales Class 1 Special Purpose Vehicle and Combination Exemption Notice*
- Applicable HVNL Mass or Dimension Exemption Permit (NHVR)

on the SPV Level 1 access network of the NSW road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval. Eligible vehicles may be enrolled in the scheme and must be fitted with a TCA-approved telematics device. If self-declaration is required (see 2.2c), eligible vehicles must also be fitted with a TCA-approved user interface associated with the ASP System.

Examples of eligible vehicles include:

- 2-axle Pick and Carry Cranes up to 40 tonnes
- 2-axle or 3-axle Truck Mounted Cranes up to 40 tonnes.

Transport for NSW monitors vehicles enrolled in the scheme on routes as described in the applicable instrument of access approval and indicated on network maps available on the Transport for NSW website.

Scheme Features

Through TAP, the Authority and other bodies authorised by the Authority will have access to reporting as described in 2.2e that includes road utilisation of enrolled vehicles on the NSW road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (NSW) processes, such as ASP Certification, Enrolment, Data Reporting, and Data Analysis and Reports. For more information, see 2.2.

Refer to the following when entering values into data elements for Scheme or Authority Code – for example, in an enrolment report or enrolment form.

Table B.1: TMA Scheme Name and Authority Code

Scheme Name (full)	Scheme Data Element Value (e.g. for enrolment form or report)	Authority Code Data Element Value
TMA SPV Monitoring Scheme – Level 1 SPVs (NSW)	TMASPVNSWL1	NSW

For the related IAP scheme (which is referred to by the term ‘IAP Application’), refer to the following when entering values into business documents such as intelligent access conditions (IACs) and participation reports (PRs).

Table B.2: IAP Scheme Name and Authority Code

Scheme Name (full)	IAP Application Name Data Element Value	Off-the Shelf Conditions ID	Authority Code Data Element Value
IAP SPV Monitoring Scheme – Level 1 SPVs (NSW)	NSW Crane SPV Level 1	NSW_SPVL1	NSW

C TMA SPV Monitoring Scheme – Level 2 SPVs (NSW)

Purpose

The TMA SPV Monitoring Scheme – Level 2 SPVs (NSW) is a scheme administered by Transport for NSW to monitor road utilisation of SPVs at SPV Level 2 operating under either of the following:

- *New South Wales Class 1 All Terrain Mobile Crane and Dolly Combination Mass and Dimension Exemption Notice*
- Applicable HVNL Mass or Dimension Exemption Permit (NHVR)

on the SPV Level 2 access network of the NSW road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval. Eligible vehicles may be enrolled in the scheme and must be fitted with a TCA-approved telematics device. If self-declaration is required (see 2.2c), eligible vehicles must also be fitted with a TCA-approved user interface associated with the ASP System.

Examples of eligible vehicles include:

- 4-axle or 5-axle All Terrain Crane and Dolly combinations up to 70 tonnes
- 6-axle All Terrain Crane and Dolly combinations up to 80 tonnes.

Transport for NSW monitors vehicles enrolled in the scheme on routes as described in the applicable instrument of access approval and indicated on network maps available on the Transport for NSW website.

Scheme Features

Through TAP, the Authority and other bodies authorised by the Authority will have access to reporting as described in 2.2e that includes road utilisation of enrolled vehicles on the NSW road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (NSW) processes, such as ASP Certification, Enrolment, Data Reporting, and Data Analysis and Reports. For more information, see 2.2.

Refer to the following when entering values into data elements for Scheme or Authority Code – for example, in an enrolment report or enrolment form.

Table C.1: TMA Scheme Name and Authority Code

Scheme Name (full)	Scheme Data Element Value (e.g. for enrolment form or report)	Authority Code Data Element Value
TMA SPV Monitoring Scheme – Level 2 SPVs (NSW)	TMASPVNSWL2	NSW

For the related IAP scheme (which is referred to by the term ‘IAP Application’), refer to the following when entering values into business documents such as intelligent access conditions (IACs) and participation reports (PRs).

Table C.2: IAP Scheme Name and Authority Code

Scheme Name (full)	IAP Application Name Data Element Value	Off-the Shelf Conditions ID	Authority Code Data Element Value
IAP SPV Monitoring Scheme – Level 2 SPVs (NSW)	NSW Crane SPV Level 2	NSW_SPVL2	NSW

D TMA SPV Monitoring Scheme – Level 3 SPVs (NSW)

Purpose

The TMA SPV Monitoring Scheme – Level 3 SPVs (NSW) is a scheme administered by Transport for NSW to monitor road utilisation of SPVs at SPV Level 3 operating under any of the following:

- *National Class 1 Special Purpose Vehicle (up to 40t total mass) Mass and Dimension Exemption Notice*
- *New South Wales Class 1 4-Axle & 5-Axle All Terrain Mobile Crane Mass and Dimension Exemption Notice*
- Applicable HVNL Mass or Dimension Exemption Permit (NHVR)

on the SPV Level 3 access network of the NSW road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval. Eligible vehicles may be enrolled in the scheme and must be fitted with a TCA-approved telematics device. If self-declaration is required (see 2.2c), eligible vehicles must also be fitted with a TCA-approved user interface associated with the ASP System.

Examples of eligible vehicles include:

- 3-axle All Terrain Cranes up to 36 tonnes
- 4-axle All Terrain Cranes up to 43 tonnes.

Transport for NSW monitors vehicles enrolled in the scheme on routes as described in the applicable instrument of access approval and indicated on network maps available on the Transport for NSW website.

Scheme Features

Through TAP, the Authority and other bodies authorised by the Authority will have access to reporting as described in 2.2e that includes road utilisation of enrolled vehicles on the NSW road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (NSW) processes, such as ASP Certification, Enrolment, Data Reporting, and Data Analysis and Reports. For more information, see 2.2.

Refer to the following when entering values into data elements for Scheme or Authority Code – for example, in an enrolment report or enrolment form.

Table D.1: TMA Scheme Name and Authority Code

Scheme Name (full)	Scheme Data Element Value (e.g. for enrolment form or report)	Authority Code Data Element Value
TMA SPV Monitoring Scheme – Level 3 SPVs (NSW)	TMASPVNSWL3	NSW

For the related IAP scheme (which is referred to by the term ‘IAP Application’), refer to the following when entering values into business documents such as intelligent access conditions (IACs) and participation reports (PRs).

Table D.2: IAP Scheme Name and Authority Code

Scheme Name (full)	IAP Application Name Data Element Value	Off-the Shelf Conditions ID	Authority Code Data Element Value
IAP SPV Monitoring Scheme – Level 3 SPVs (NSW)	NSW Crane SPV Level 3	NSW_SPVL3	NSW

E TMA SPV Monitoring Scheme – Level 4 SPVs (NSW)

Purpose

The TMA SPV Monitoring Scheme – Level 4 SPVs (NSW) is a scheme administered by Transport for NSW to monitor road utilisation of SPVs at SPV Level 4 operating under any of the following:

- *New South Wales Class 1 4-Axle & 5-Axle All Terrain Mobile Crane Mass and Dimension Exemption Notice*
- Applicable HVNL Mass or Dimension Exemption Permit (NHVR)

on the SPV Level 4 access network of the NSW road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval. Eligible vehicles may be enrolled in the scheme and must be fitted with a TCA-approved telematics device. If self-declaration is required (see 2.2c), eligible vehicles must also be fitted with a TCA-approved user interface associated with the ASP System.

Examples of eligible vehicles include:

- 4-axle All Terrain Cranes up to 45.8 tonnes
- 5-axle All Terrain Cranes up to 50 tonnes with a ground contact width (GCW) of at least 2650 mm.

Transport for NSW monitors vehicles enrolled in the scheme on routes as described in the applicable instrument of access approval and indicated on network maps available on the Transport for NSW website.

Scheme Features

Through TAP, the Authority and other bodies authorised by the Authority will have access to reporting as described in 2.2e that includes road utilisation of enrolled vehicles on the NSW road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (NSW) processes, such as ASP Certification, Enrolment, Data Reporting, and Data Analysis and Reports. For more information, see 2.2.

Refer to the following when entering values into data elements for Scheme or Authority Code – for example, in an enrolment report or enrolment form.

Table E.1: TMA Scheme Name and Authority Code

Scheme Name (full)	Scheme Data Element Value (e.g. for enrolment form or report)	Authority Code Data Element Value
TMA SPV Monitoring Scheme – Level 4 SPVs (NSW)	TMASPVNSWL4	NSW

For the related IAP scheme (which is referred to by the term 'IAP Application'), refer to the following when entering values into business documents such as intelligent access conditions (IACs) and participation reports (PRs).

Table E.2: IAP Scheme Name and Authority Code

Scheme Name (full)	IAP Application Name Data Element Value	Off-the Shelf Conditions ID	Authority Code Data Element Value
IAP SPV Monitoring Scheme – Level 4 SPVs (NSW)	NSW Crane SPV Level 4	NSW_SPVL4	NSW

F TMA SPV Monitoring Scheme – Level 4/12t per Axle SPVs (NSW)

Purpose

The TMA SPV Monitoring Scheme – Level 4/12t per Axle SPVs (NSW) is a scheme administered by Transport for NSW to monitor road utilisation of SPVs at SPV Level 4/12t per Axle operating under any of the following:

- *New South Wales Class 1 4-Axle & 5-Axle All Terrain Mobile Crane Mass and Dimension Exemption Notice*
- Applicable HVNL Mass or Dimension Exemption Permit (NHVR)

on the SPV Level 4/12t per Axle access network of the NSW road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval. Eligible vehicles may be enrolled in the scheme and must be fitted with a TCA-approved telematics device. If self-declaration is required (see 2.2c), eligible vehicles must also be fitted with a TCA-approved user interface associated with the ASP System.

Examples of eligible vehicles include:

- 4-axle All Terrain Cranes up to 48 tonnes
- 5-axle All Terrain Cranes up to 50 tonnes with a ground contact width (GCW) of at least 2450 mm.

Transport for NSW monitors vehicles enrolled in the scheme on routes as described in the applicable instrument of access approval and indicated on network maps available on the Transport for NSW website.

Scheme Features

Through TAP, the Authority and other bodies authorised by the Authority will have access to reporting as described in 2.2e that includes road utilisation of enrolled vehicles on the NSW road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (NSW) processes, such as ASP Certification, Enrolment, Data Reporting, and Data Analysis and Reports. For more information, see 2.2.

Refer to the following when entering values into data elements for Scheme or Authority Code – for example, in an enrolment report or enrolment form.

Table F.1: TMA Scheme Name and Authority Code

Scheme Name (full)	Scheme Data Element Value (e.g. for enrolment form or report)	Authority Code Data Element Value
TMA SPV Monitoring Scheme – Level 4/12t per Axle SPVs (NSW)	TMASPVNSWL4_12T	NSW

For the related IAP scheme (which is referred to by the term ‘IAP Application’), refer to the following when entering values into business documents such as intelligent access conditions (IACs) and participation reports (PRs).

Table F.2: IAP Scheme Name and Authority Code

Scheme Name (full)	IAP Application Name Data Element Value	Off-the Shelf Conditions ID	Authority Code Data Element Value
IAP SPV Monitoring Scheme – Level 4/12t per Axle SPVs (NSW)	NSW Crane SPV Level 4 and 12t Axle	NSW_SPVL4_12T	NSW

G TMA SPV Monitoring Scheme – 5-Axle SPVs Up to 55 Tonnes (NSW)

Purpose

The TMA SPV Monitoring Scheme – 5-Axle SPVs Up to 55 Tonnes (NSW) is a scheme administered by Transport for NSW to monitor road utilisation of 5-Axle SPVs up to 55 tonnes operating under any of the following:

- *New South Wales Class 1 4-Axle & 5-Axle All Terrain Mobile Crane Mass and Dimension Exemption Notice*
- Applicable HVNL Mass or Dimension Exemption Permit (NHVR)

on the 5-Axle SPVs up to 55 tonnes access network of the NSW road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval. Eligible vehicles may be enrolled in the scheme and must be fitted with a TCA-approved telematics device. If self-declaration is required (see 2.2c), eligible vehicles must also be fitted with a TCA-approved user interface associated with the ASP System.

Examples of eligible vehicles include:

- 5-axle All Terrain Cranes up to 55 tonnes.

Transport for NSW monitors vehicles enrolled in the scheme on routes as described in the applicable instrument of access approval and indicated on network maps available on the Transport for NSW website.

Scheme Features

Through TAP, the Authority and other bodies authorised by the Authority will have access to reporting as described in 2.2e that includes road utilisation of enrolled vehicles on the NSW road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (NSW) processes, such as ASP Certification, Enrolment, Data Reporting, and Data Analysis and Reports. For more information, see 2.2.

Refer to the following when entering values into data elements for Scheme or Authority Code – for example, in an enrolment report or enrolment form.

Table G.1: TMA Scheme Name and Authority Code

Scheme Name (full)	Scheme Data Element Value (e.g. for enrolment form or report)	Authority Code Data Element Value
TMA SPV Monitoring Scheme – 5-Axle SPVs Up to 55 Tonnes (NSW)	TMASPVNSW55T	NSW

For the related IAP scheme (which is referred to by the term ‘IAP Application’), refer to the following when entering values into business documents such as intelligent access conditions (IACs) and participation reports (PRs).

Table G.2: IAP Scheme Name and Authority Code

Scheme Name (full)	IAP Application Name Data Element Value	Off-the Shelf Conditions ID	Authority Code Data Element Value
IAP SPV Monitoring Scheme – 5-Axle SPVs Up to 55 Tonnes (NSW)	NSW Crane 5-Axle SPV Up to 55 T	NSW_SPV55T	NSW

H TMA SPV Monitoring Scheme – Level 6 SPVs (NSW)

Purpose

The TMA SPV Monitoring Scheme – Level 6 SPVs (NSW) is a scheme administered by Transport for NSW to monitor road utilisation of SPVs at SPV Level 6 operating under any of the following:

- *New South Wales Class 1 4-Axle & 5-Axle All Terrain Mobile Crane Mass and Dimension Exemption Notice*
- Applicable HVNL Mass or Dimension Exemption Permit (NHVR)

on the SPV Level 6 access network of the NSW road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval. Eligible vehicles may be enrolled in the scheme and must be fitted with a TCA-approved telematics device. If self-declaration is required (see 2.2c), eligible vehicles must also be fitted with a TCA-approved user interface associated with the ASP System.

Examples of eligible vehicles include:

- 5-axle All Terrain Cranes up to 60 tonnes.

Transport for NSW monitors vehicles enrolled in the scheme on routes as described in the applicable instrument of access approval and indicated on network maps available on the Transport for NSW website.

Scheme Features

Through TAP, the Authority and other bodies authorised by the Authority will have access to reporting as described in 2.2e that includes road utilisation of enrolled vehicles on the NSW road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (NSW) processes, such as ASP Certification, Enrolment, Data Reporting, and Data Analysis and Reports. For more information, see 2.2.

Refer to the following when entering values into data elements for Scheme or Authority Code – for example, in an enrolment report or enrolment form.

Table H.1: TMA Scheme Name and Authority Code

Scheme Name (full)	Scheme Data Element Value (e.g. for enrolment form or report)	Authority Code Data Element Value
TMA SPV Monitoring Scheme – Level 6 SPVs (NSW)	TMASPVNSWL6	NSW

For the related IAP scheme (which is referred to by the term 'IAP Application'), refer to the following when entering values into business documents such as intelligent access conditions (IACs) and participation reports (PRs).

Table H.2: IAP Scheme Name and Authority Code

Scheme Name (full)	IAP Application Name Data Element Value	Off-the Shelf Conditions ID	Authority Code Data Element Value
IAP SPV Monitoring Scheme – Level 6 SPVs (NSW)	NSW Crane SPV Level 6	NSW_SPVL6	NSW

I TMA SPV Monitoring Scheme – Level 5 SPVs (NSW)

Purpose

The TMA SPV Monitoring Scheme – Level 5 SPVs (NSW) is a scheme administered by Transport for NSW to monitor road utilisation of SPVs that are not eligible to enrol in other TMA SPV Monitoring Schemes (NSW), operating under the applicable HVNL Mass or Dimension Exemption Permit ('HVNL Permit') on approved routes of the NSW road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within their HVNL Permit. SPVs that are not eligible to enrol in other TMA SPV Monitoring Schemes (NSW) may be enrolled in the scheme and must be fitted with a TCA-approved telematics device. If self-declaration is required (see 2.2c), eligible vehicles must also be fitted with a TCA-approved user interface associated with the ASP System.

Transport for NSW monitors vehicles enrolled in the scheme on routes as described in the applicable instrument of access approval and indicated on network maps available on the Transport for NSW website.

Scheme Features

Through TAP, the Authority and other bodies authorised by the Authority will have access to reporting as described in 2.2e that includes road utilisation of enrolled vehicles on the NSW road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (NSW) processes, such as ASP Certification, Enrolment, Data Reporting, and Data Analysis and Reports. For more information, see 2.2.

Refer to the following when entering values into data elements for Scheme or Authority Code – for example, in an enrolment report or enrolment form.

Table I.1: TMA Scheme Name and Authority Code

Scheme Name (full)	Scheme Data Element Value (e.g. for enrolment form or report)	Authority Code Data Element Value
TMA SPV Monitoring Scheme – Level 5 SPVs (NSW)	TMASPVNSWL5	NSW

For the related IAP scheme (which is referred to by the term 'IAP Application'), refer to the following when entering values into business documents such as intelligent access conditions (IACs) and participation reports (PRs).

Table I.2: IAP Scheme Name and Authority Code

Scheme Name (full)	IAP Application Name Data Element Value	Off-the Shelf Conditions ID	Authority Code Data Element Value
IAP SPV Monitoring Scheme – Level 5 SPVs (NSW)	NSW Crane SPV Level 5	NSW_SPVL5	NSW



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