
TMA Special Purpose Vehicle Monitoring Schemes (SA)

Schemes using the Telematics Monitoring Application (TMA) for the Department for Infrastructure and Transport, South Australia

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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 TMA Special Purpose Vehicle (SPV) Monitoring Schemes (SA) which are made available by the Department for Infrastructure and Transport (DIT). The following schemes are associated with the Telematics Monitoring Application (TMA):

- TMA SPV Monitoring Scheme – Up to 40-Tonne SPVs (SA)
- TMA SPV Monitoring Scheme – 3-Axle SPVs (SA)
- TMA SPV Monitoring Scheme – 3-Axle SPVs Towing Dolly (SA)
- TMA SPV Monitoring Scheme – 3-Axle SPVs Towing Equipment Trailer (SA)
- TMA SPV Monitoring Scheme – 4-Axle SPVs (SA)
- TMA SPV Monitoring Scheme – 4-Axle SPVs Towing Dolly (SA)
- TMA SPV Monitoring Scheme – 4-Axle SPVs Towing Equipment Trailer (SA)
- TMA SPV Monitoring Scheme – 5-Axle SPVs (SA)
- TMA SPV Monitoring Scheme – 6-Axle SPVs (SA)
- TMA SPV Monitoring Scheme – 6-Axle SPVs Towing Dolly (SA)
- TMA SPV Monitoring Scheme – 7-Axle SPVs (SA)
- TMA SPV Monitoring Scheme – 7-Axle SPVs Towing Dolly (SA)
- TMA SPV Monitoring Scheme – 8-Axle SPVs (SA)
- TMA SPV Monitoring Scheme – 9-Axle SPVs (SA).

TMA SPV Monitoring Schemes (SA) will enable monitoring of eligible SPVs on the South Australian road network.

Note: Some TMA SPV Monitoring Schemes (SA) allow for enrolment of eligible vehicles on a voluntary basis – see scheme descriptions in appendices for more detail.

1.2 Scope

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

The following information is included:

- Scheme parameters
- Key scheme processes
- Roles and responsibilities
- Scheme descriptions in appendices.

1.3 Background

An SPV is a motor vehicle or trailer, other than an agricultural vehicle or a tow truck, built for a purpose other than carrying goods. Examples in South Australia include mobile cranes, and may include concrete pump trucks and drill rigs in other jurisdictions. An SPV that exceeds one or more of the general mass and dimension limits in the *Heavy Vehicle (Mass, Dimension and Loading) National Regulation* is 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. As a result, eligible SPVs are monitored for parameters such as identity, date and time, location and derived speed. The approved SPV route networks are available within permits issued by the National Heavy Vehicle Regulator (NHVR).

In South Australia, SPVs that tow a dolly or equipment trailer are monitored in separate schemes to SPVs that operate as a drive unit only.

In this document, ‘dolly’ refers to a boom support dolly, which assists in supporting the mass of an SPV’s boom when the boom has been rotated rearwards for on-road travel.

In the context of SPVs operating in South Australia, and under pre-approval, an equipment trailer is a pig trailer that can have one or two axles. A pig trailer is a trailer:

- With one axle group or a single axle near the middle of its load-carrying surface; and
- Connected to the drive unit by a drawbar.

Eligible SPV categories are described in the appendices of this document, as applicable to the scheme.

To participate in a TMA SPV Monitoring Scheme (SA), a transport operator (‘Operator’) must conform with the requirements specified within an applicable instrument of access approval¹ such as:

- An applicable Class 1 permit issued by the National Heavy Vehicle Regulator, and/or
- An applicable Notice, such as
 - *South Australia Class 1 2-Axle up to 28t Articulated Steering Crane Mass and Dimension Exemption Notice*
 - *South Australia Class 1 4-Axle to 6-Axle All Terrain Mobile Crane Mass and Dimension Exemption Notice*, or
 - *South Australia Class 1 6-Axle to 9-Axle Crane Mass and Dimension Exemption Notice*.

Enrolment in the TMA application is one of the requirements that must be met by the Operator. Enrolment in the TMA application is performed by the 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 instrument of access approval.

The ASP is responsible for the collection of data from vehicles enrolled in accordance with the TMA application for a TMA SPV Monitoring Scheme (SA).

ASPs provide data to TCA. TCA analyses the data and makes reporting available to DIT and participating local councils in South Australia 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).

The use of the TMA application for the scheme provides network-wide movements of enrolled vehicles on the South Australian road network.

¹ The exception is schemes for 3-axle SPVs, which allow for enrolment of eligible vehicles on a voluntary basis – see scheme descriptions in appendices for more detail.

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 may be in the form of type-approval or an equivalent approval mechanism acceptable to TCA. The ASP 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 scheme, which has specific business requirements associated with the standard operation of the TMA application.

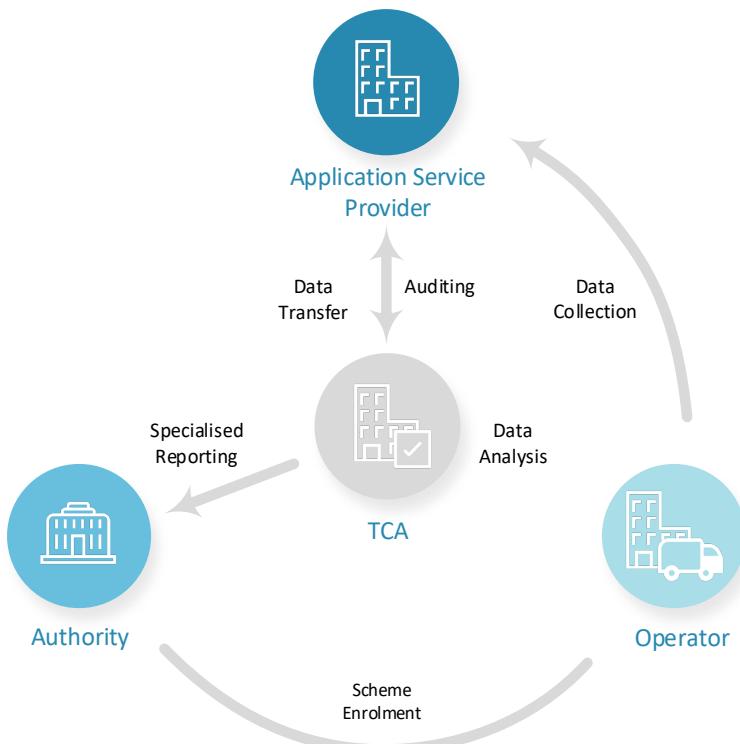
2 TMA Special Purpose Vehicle Monitoring Schemes (SA)

2.1 Participants

Figure 2 outlines the key interactions between participants for the use of the TMA application for a TMA SPV Monitoring Scheme (SA):

- DIT, 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 may conduct compliance activities as necessary.
- 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 (SA) (see note under Purpose). For information on features that are specific to a TMA SPV Monitoring Scheme (SA), refer to the scheme descriptions in the appendices of this document.

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 (SA) at the request of the Operator.

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

Note: Operators are expected to be more inclined to have their vehicles monitored through the TMA application based on the Authority transparently communicating the intended use of the TMA application, and obtaining assurance and safeguards from TCA that data collected through the TMA application will not be used for other, undisclosed purposes (such as compliance and enforcement). Figure 3 shows the pre-enrolment steps for a TMA SPV Monitoring Scheme (SA).

Figure 4 shows the reporting processes for a TMA SPV Monitoring Scheme (SA).

Figure 5 shows the enrolment cancellation and reporting processes for a TMA SPV Monitoring Scheme (SA).

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
- Date and time data.

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 participating local governments through TAP.

Through TAP, the Authority and participating local governments will have access to:

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

Note:

- (i) *The type, number, frequency and graphical output of specific reporting will be subject to agreed terms reached between TCA and the Authority.*
- (ii) *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 (SA) is intended to provide a basic representation of individual and identifiable 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).

The Authority and participating local governments will manually review the operation of vehicles (through TAP) against the approved road network. TCA does not offer automated exception reporting to assess whether a vehicle has not met access conditions granted by the Authority.

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 (SA)• Count of vehicles enrolled in a TMA SPV Monitoring Scheme (SA) that TCA received data from• Vehicles enrolled in a TMA SPV Monitoring Scheme (SA) that TCA did not receive data from for at least 30 consecutive days <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>• Count of Operators with vehicles enrolled in a TMA SPV Monitoring Scheme (SA)• Count of ASPs reporting data for vehicles enrolled in a TMA SPV Monitoring Scheme (SA).

2.3 Key Scheme Processes

Figure 3 outlines the key actions taken by each participant during the pre-enrolment stage of the operation of a TMA SPV Monitoring Scheme (SA).

Note: This process assumes that TCA has already certified the ASP to provide TMA application services.

Figure 2: Pre-Enrolment Process

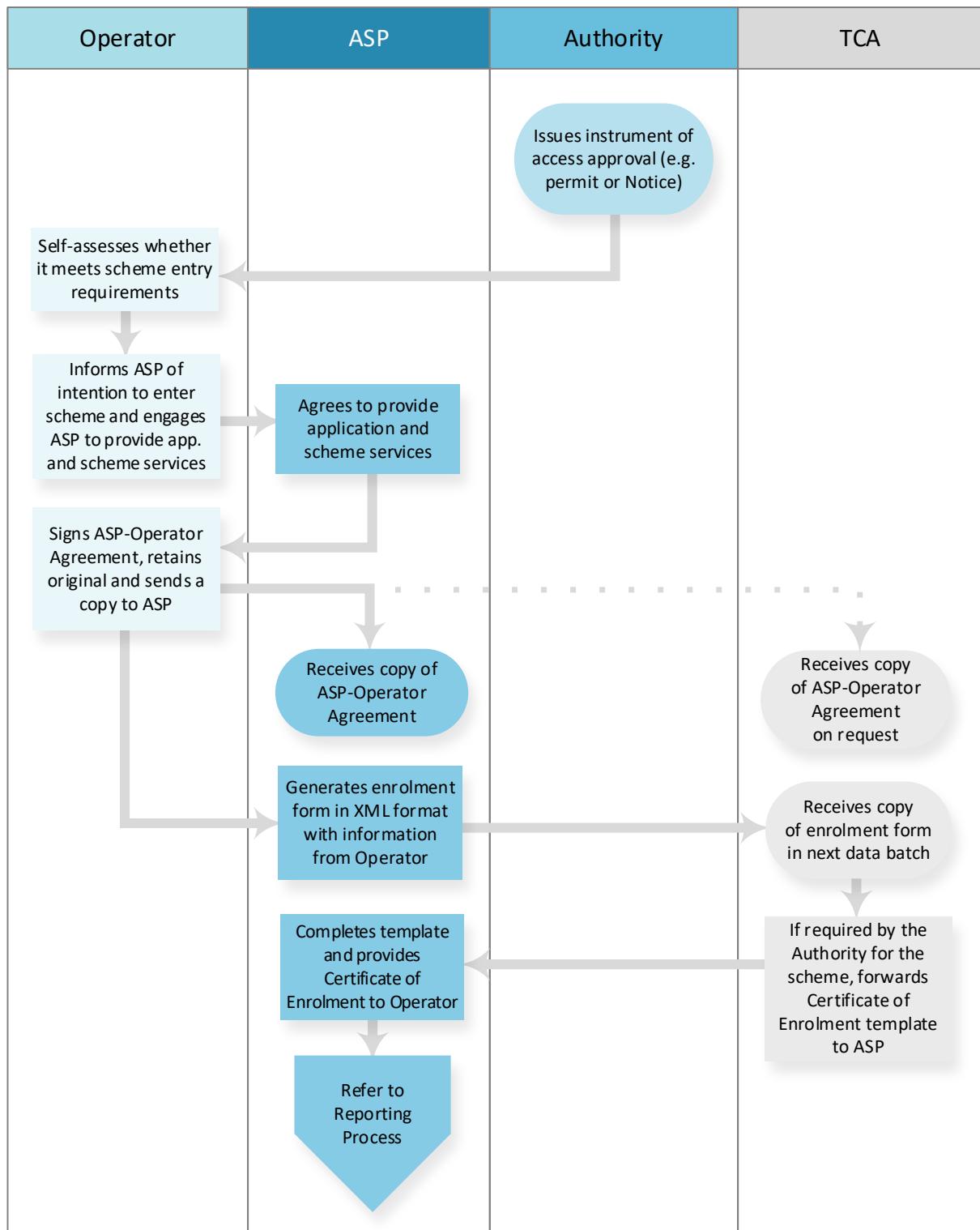
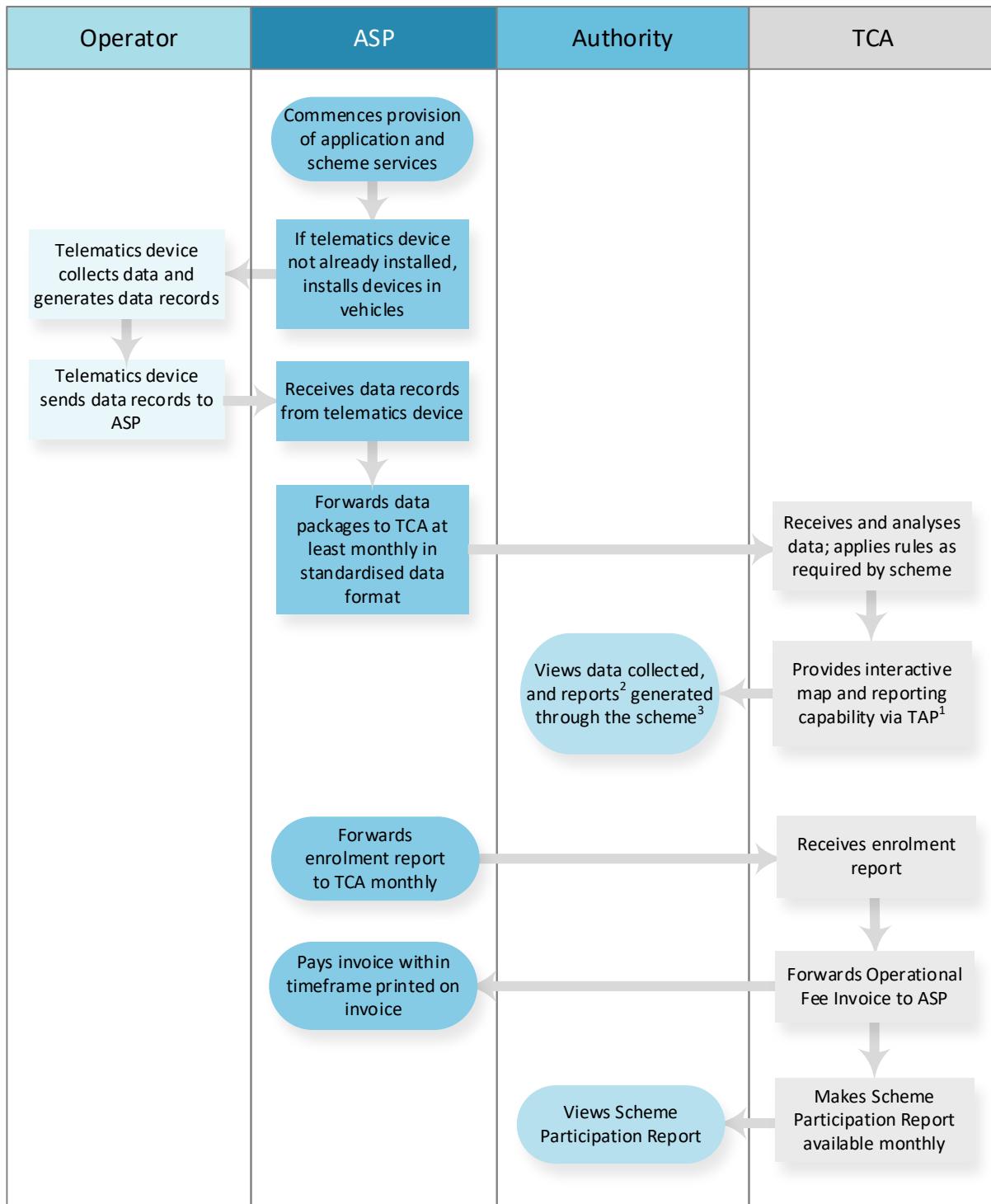


Figure 4 outlines the key actions related to data collection, record generation and reporting.

Figure 3: Reporting Processes

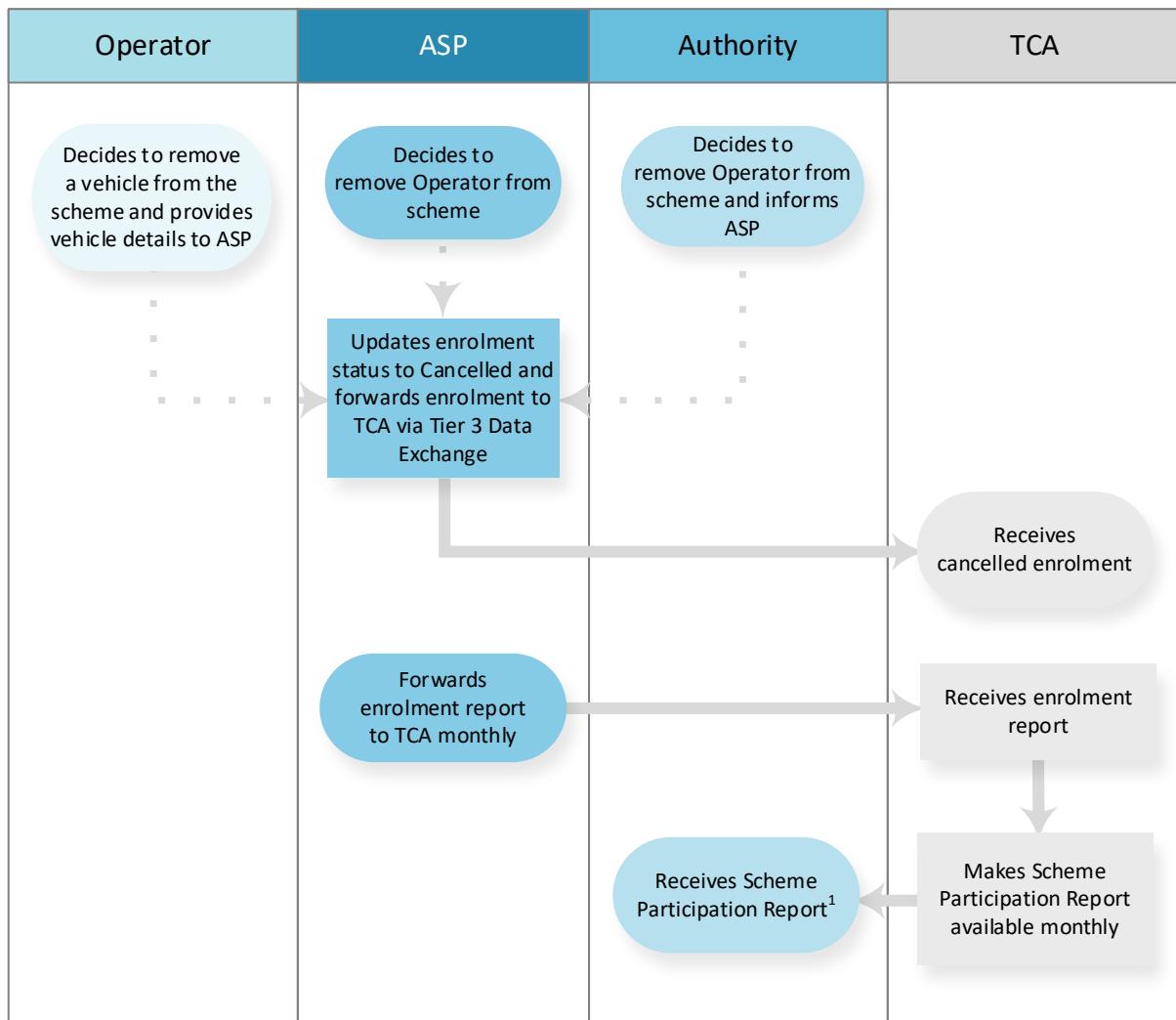


1. Data will be updated at least monthly.
2. The Authority will nominate the locations that will be subject to location-based reports (subject to agreed terms).
3. Local governments approved by the Authority may also view this information.

Cancellation of enrolment may be initiated by the Operator, the Authority or the ASP.

Figure 5 outlines the key actions to discontinue enrolment of a vehicle.

Figure 4: Enrolment Cancellation and Reporting Processes



1. Local governments approved by the Authority may also view this information.

2.4 Roles and Responsibilities

In delivering the objectives of a TMA SPV Monitoring Scheme (SA), **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 JSON
- Support the reporting of enrolment forms and enrolment reports using a RESTful API, with these documents formatted using XML
- 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 participating local governments 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
- Conduct compliance activities as necessary
- 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 any connected devices) and the reporting of data received from those devices
- 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 in the applicable instrument of access approval and determine whether they meet those conditions
- Access the applicable instrument of access approval 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)
- Install telematics devices (and any connected devices) and 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
DIT	Department for Infrastructure and Transport
FTPS	File Transfer Protocol Secure
GNSS	Global Navigation Satellite System
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 or 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.
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>

Term	Definition
boom support dolly	A dolly which assists in supporting the mass of an SPV's boom when the boom has been rotated rearwards for on-road travel.
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.
dolly	A specialised, unpowered trailing unit with one or more axles and a coupling mechanism designed for connection to a drive unit with strong traction power. In the context of SPVs operating in South Australia, 'dolly' means a boom support dolly. See: <i>boom support dolly</i>
drive unit	That part of a vehicle which contains the power unit to which the telematics device is affixed.
equipment trailer	In the context of SPVs operating in South Australia, and under pre-approval, a pig trailer that can have one or two axles. See: <i>pig trailer</i>
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. a state, territory or region; or an entire country).
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.
pig trailer	A trailer: <ul style="list-style-type: none"> • With one axle group or a single axle near the middle of its load-carrying surface; and • Connected to the drive unit by a drawbar.
scheme	The generic term for a specific use of an application linked to delivering a policy objective.

Term	Definition
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. 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.

B TMA SPV Monitoring Scheme – Up to 40-Tonne SPVs (SA)

Purpose

The *TMA SPV Monitoring Scheme – Up to 40-Tonne SPVs (SA)* is a scheme administered by DIT to monitor road utilisation of SPVs up to 40 tonnes operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Eligible DIT vehicle categories for the scheme include the following example, and must be fitted with a telematics device:

- 2-axle crane operating at up to 14 tonnes per axle.

DIT 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 NHVR website.

Scheme Features

Through TAP, the Authority and participating local governments in South Australia will have access to specific reporting that includes road utilisation of SPVs up to 40 tonnes on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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: 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 – Up to 40-Tonne SPVs (SA)	SPVSA40T	SA

C TMA SPV Monitoring Scheme – 3-Axle SPVs (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 3-Axle SPVs (SA)* is a scheme administered by DIT to monitor road utilisation of 3-axle SPVs operating under an applicable instrument of access approval on approved routes on the South Australian road network.

Note: Enrolment in this scheme is not mandatory for 3-axle SPVs travelling under an applicable instrument of access approval. Scheme telematics data from enrolled vehicles may be provided to National Telematics Framework systems on a voluntary basis.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 3-axle SPVs, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

Enrolled vehicles must not tow a dolly or an equipment trailer.

DIT 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 NHVR website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 3-axle SPVs on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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: 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 – 3-Axle SPVs (SA)	SPVSA3AX	SA

D TMA SPV Monitoring Scheme – 3-Axle SPVs Towing Dolly (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 3-Axle SPVs Towing Dolly (SA)* is a scheme administered by DIT to monitor road utilisation of 3-axle SPVs towing a dolly operating under an applicable instrument of access approval on approved routes on the South Australian road network.

Note: Enrolment in this scheme is not mandatory for 3-axle SPVs towing a dolly and travelling under an applicable instrument of access approval. Scheme telematics data from enrolled vehicles may be provided to National Telematics Framework systems on a voluntary basis.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 3-axle SPVs towing a dolly, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

SPVs operating as a drive unit only, or SPVs towing an equipment trailer, must not enrol in this scheme.

DIT 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 NHVR website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 3-axle SPVs towing a dolly on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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: 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 – 3-Axle SPVs Towing Dolly (SA)	SPVSA3AXD	SA

E TMA SPV Monitoring Scheme – 3-Axle SPVs Towing Equipment Trailer (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 3-Axle SPVs Towing Equipment Trailer (SA)* is a scheme administered by DIT to monitor road utilisation of 3-axle SPVs towing an equipment trailer operating under an applicable instrument of access approval on approved routes on the South Australian road network.

Note: Enrolment in this scheme is not mandatory for 3-axle SPVs towing an equipment trailer and travelling under an applicable instrument of access approval. Scheme telematics data from enrolled vehicles may be provided to National Telematics Framework systems on a voluntary basis.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 3-axle SPVs towing an equipment trailer, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

SPVs operating as a drive unit only, or SPVs towing a dolly, must not enrol in this scheme.

DIT 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 NHVR website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 3-axle SPVs towing an equipment trailer on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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: 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 – 3-Axle SPVs Towing Equipment Trailer (SA)	SPVSA3AXET	SA

F TMA SPV Monitoring Scheme – 4-Axle SPVs (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 4-Axle SPVs (SA)* is a scheme administered by DIT to monitor road utilisation of 4-axle SPVs operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 4-axle SPVs, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

Enrolled vehicles must not tow a dolly or an equipment trailer.

DIT 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 NHVR website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 4-axle SPVs on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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: 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 – 4-Axle SPVs (SA)	SPVSA4AX	SA

G TMA SPV Monitoring Scheme – 4-Axle SPVs Towing Dolly (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 4-Axle SPVs Towing Dolly (SA)* is a scheme administered by DIT to monitor road utilisation of 4-axle SPVs towing a dolly operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 4-axle SPVs towing a dolly, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

SPVs operating as a drive unit only, or SPVs towing an equipment trailer, must not enrol in this scheme.

DIT 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 NHVR website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 4-axle SPVs towing a dolly on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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: 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 – 4-Axle SPVs Towing Dolly (SA)	SPVSA4AXD	SA

H TMA SPV Monitoring Scheme – 4-Axle SPVs Towing Equipment Trailer (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 4-Axle SPVs Towing Equipment Trailer (SA)* is a scheme administered by DIT to monitor road utilisation of 4-axle SPVs towing an equipment trailer operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 4-axle SPVs towing an equipment trailer, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

SPVs operating as a drive unit only, or SPVs towing a dolly, must not enrol in this scheme.

DIT 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 NHVR website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 4-axle SPVs towing an equipment trailer on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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: 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 – 4-Axle SPVs Towing Equipment Trailer (SA)	SPVSA4AXET	SA

I TMA SPV Monitoring Scheme – 5-Axle SPVs (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 5-Axle SPVs (SA)* is a scheme administered by DIT to monitor road utilisation of 5-axle SPVs operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 5-axle SPVs, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

DIT 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 NHVR website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 5-axle SPVs on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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 I1: 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 (SA)	SPVSA5AX	SA

J TMA SPV Monitoring Scheme – 6-Axle SPVs (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 6-Axle SPVs (SA)* is a scheme administered by DIT to monitor road utilisation of 6-axle SPVs operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 6-axle SPVs, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

Enrolled vehicles must not tow a dolly or an equipment trailer.

DIT 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 NHVR website as applicable.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 6-axle SPVs on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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 J.1: 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 – 6-Axle SPVs (SA)	SPVSA6AX	SA

K TMA SPV Monitoring Scheme – 6-Axle SPVs Towing Dolly (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 6-Axle SPVs Towing Dolly (SA)* is a scheme administered by DIT to monitor road utilisation of 6-axle SPVs towing a dolly operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 6-axle SPVs towing a dolly, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

SPVs operating as a drive unit only, or SPVs towing an equipment trailer, must not enrol in this scheme.

DIT 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 DIT or NHVR website as applicable.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 6-axle SPVs towing a dolly on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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 K.1: 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 – 6-Axle SPVs Towing Dolly (SA)	SPVSA6AXD	SA

L TMA SPV Monitoring Scheme – 7-Axle SPVs (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 7-Axle SPVs (SA)* is a scheme administered by DIT to monitor road utilisation of 7-axle SPVs operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 7-axle SPVs, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

Enrolled vehicles must not tow a dolly or an equipment trailer.

DIT 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 DIT website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 7-axle SPVs on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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 L.1: 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 – 7-Axle SPVs (SA)	SPVSA7AX	SA

M TMA SPV Monitoring Scheme – 7-Axle SPVs Towing Dolly (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 7-Axle SPVs Towing Dolly (SA)* is a scheme administered by DIT to monitor road utilisation of 7-axle SPVs towing a dolly operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 7-axle SPVs towing a dolly, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

SPVs operating as a drive unit only, or SPVs towing an equipment trailer, must not enrol in this scheme.

DIT 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 DIT website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 7-axle SPVs towing a dolly on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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 M.1: 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 – 7-Axle SPVs Towing Dolly (SA)	SPVSA7AXD	SA

N TMA SPV Monitoring Scheme – 8-Axle SPVs (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 8-Axle SPVs (SA)* is a scheme administered by DIT to monitor road utilisation of 8-axle SPVs operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 8-axle SPVs, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

DIT 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 DIT website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 8-axle SPVs on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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 N.1: 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 – 8-Axle SPVs (SA)	SPVSA8AX	SA

O TMA SPV Monitoring Scheme – 9-Axle SPVs (SA)

Purpose

The *TMA SPV Monitoring Scheme (SA) – 9-Axle SPVs (SA)* is a scheme administered by DIT to monitor road utilisation of 9-axle SPVs operating under the applicable instrument of access approval on approved routes on the South Australian road network.

Background

To participate in the scheme, Operators must conform with the requirements specified within the applicable instrument of access approval.

Only 9-axle SPVs, as described in the applicable instrument of access approval, may enrol in the scheme, and must be fitted with a telematics device.

DIT 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 DIT website.

Scheme Features

Through TAP, the Authority and participating local governments will have access to specific reporting that includes road utilisation of 9-axle SPVs on the South Australian road network.

Other aspects of this scheme operate in accordance with generic TMA SPV Monitoring Scheme (SA) 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 O.1: 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 – 9-Axle SPVs (SA)	SPVSA9AX	SA

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