

# ONRSR Guideline

Network and Railway Operations  
Data Submission Requirements

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## 1 Overview

This guideline is designed to help rail transport operators provide ONRSR with the network and railway operational data required to define key network and railway characteristics, which is required under Regulation 56A of the *Rail Safety National Law National Regulations 2012*.

ONRSR uses a secure online portal to collect and manage this data from operators. The portal is designed to guide a user through the steps required when validating and updating this data.

This document explains the data fields that need to be provided in context with the operator's role as a rail infrastructure manager or rolling stock operator.

### Reporting timeframes

ONRSR will work with an operator to capture the data needed to initially complete these requirements. This will typically occur at the time of any new accreditation or will be undertaken in consultation with operators that are already accredited or registered.

Once established, this data needs to be kept accurate and will be amended as changes occur. Many of these changes will occur through variation of accreditation or notification of change processes, which will trigger the need to update this data.

Rail transport operators will be required to validate the accuracy of the data held by ONRSR on an annual basis.

## 2 Rail Transport Operator

### 2.1 Rail infrastructure manager / Rolling stock operator

Data Item ID	Data Item	Format	Description
O1	Rail Transport Operator	<i>Auto populated</i>	Rail transport operator making the report.

### 3 Mandatory network operations data (Rail Infrastructure Manager)

#### 3.1 Total track managed

The length of track under the effective management and control of a rail infrastructure manager within each state or territory.

Track kilometres is measured in the actual length of track inclusive of dual/multiple tracks, passing loops, yards and sidings. For example, where a line is dual track, both tracks are counted in calculating track kilometres.

Data Item ID	Data Item	Format	Description
O2	State or Territory	Single selection: 1. ACT 2. NSW 3. NT 4. QLD 5. SA 6. TAS 7. VIC 8. WA	Selection from the state and territories the rail infrastructure manager is accredited in.
O3	Operational track length	(numerical, two decimal point)	Total length of track (in kilometres) under the effective management and control of the rail infrastructure manager that is open to rail traffic, regardless of the frequency of use. This includes lines that are operated seasonally and not in operation for the rest of the year.
O4	Non-operational track length	(numerical, two decimal point)	Total length of track (in kilometres) under the effective management and control of the rail infrastructure manager that is not available to rail traffic, other than for condition monitoring purposes.

### 3.2 Line Sections

The network operations data is based on the line-section and track km concept.

Required for each line section forming the rail infrastructure manager's railway, with at least one line section required for any railway having a running line.

Data Item ID	Data Item	Format	Description
O5	Line section	Free Text	Name of the line section that will be commonly used in relation to train or track access operations and for the reporting of notifiable occurrences. Required for each line section.
O6	Line section ID	Free text	Only required for operators using a line section identifier. Line section ID for line sections provided in O5.
O7	Start kilometre point	(numerical, two decimal points)	The start km point for the line section.
O8	End kilometre point	(numerical, two decimal points)	The end km point for the line section.
O2	Jurisdiction	Single selection: 1. ACT 2. NSW 3. NT 4. QLD 5. SA 6. TAS 7. VIC 8. WA	The state or territory where the line section is located. Where the line section spans more than one jurisdiction separate entries for each state or territory is required with the respective start/end kilometre points.
O9	Line section status	Single selection: 1. Operational 2. Non-operational 3. Decommissioned	Select whether the line section is open for rail traffic, irrespective of frequency of use (operational) or not available for rail traffic (non-operational) or permanently removed from service (decommissioned).

### 3.3 Network Interfaces

Data Item ID	Data Item	Format	Description
O14	Network Interfaces	(numerical, integer)	<p>Number of other accredited rail transport operators that have railways that are connected to or otherwise interface (e.g. have a shared operational corridor) with the rail infrastructure manager's railway.</p> <p>This does not include private sidings of registered rail transport operators.</p>

### 3.4 Level Crossings

Required for each level crossing site.

Data Item ID	Data Item	Format	Description
-	Line sections	<i>Selected from <b>Line sections</b> data</i>	Selection from the line sections provided in O5.  Provide all line sections under the rail infrastructure managers effective management and control that are running through the level crossing.
O15	Line kilometre point	(numerical, two decimal points)	Location of the level crossing.
O16	ALCAM LXM ID (Site)	(numerical, integer)	The assigned <i>Australian Level Crossing Assessment Model (ALCAM)</i> level crossing identifier.
O17	Level Crossing ID (Site)	Free Text	The rail infrastructure manager's level crossing identifier. To be provided for operators not using ALCAM or for ALCAM users that also use an additional internal ID.
O18	Level crossing name	Free Text	The common name of the level crossing that is used in operational communications and for the reporting of notifiable occurrences. Typically, this is the intersecting road name.
O19	Operational Status (Rail)	<ol style="list-style-type: none"> <li>1. Operational Track</li> <li>2. Non-Operational Track</li> <li>3. Decommissioned Track</li> </ol>	The status of the lines through the level crossing. This status is inferred from the line section statuses.
O20	Number of tracks	(numerical, integer)	The number of operational tracks running through the level crossing. Only provide the number of tracks under your effective management and control. For example, if the crossing has tracks belonging to two operators, only provide the number of your own tracks and do not count the number of tracks from the other operator.
O21	Track speed	(numerical, integer)	Maximum track speed (in km/h) of trains running through the crossing.



Data Item ID	Data Item	Format	Description
O22	Traffic density	(numerical, one decimal point)	<p>Annualised average number of trains per day using the crossing. This includes trains in each direction and/or trains operating on multiple lines through the line section.</p> <p>Only provide the traffic density for lines under your effective management and control. For example, if the crossing has tracks belonging to two operators, only provide the traffic density of your own tracks and do not count the traffic density of tracks from the other operator.</p>
O2	Jurisdiction	Assigned <ol style="list-style-type: none"> <li>1. ACT</li> <li>2. NSW</li> <li>3. NT</li> <li>4. QLD</li> <li>5. SA</li> <li>6. TAS</li> <li>7. VIC</li> <li>8. WA</li> </ol>	Auto populated from line section data.
O23	Suburb or Town	Free text	Name of the suburb or town in which the level crossing is located.
O25	Road Manager	Selection of: <ol style="list-style-type: none"> <li>1. Local Council</li> <li>2. State/Territory Government</li> <li>3. Private</li> </ol>	Multiple Selection Provide the type of road manager.
O24	Local Council Area	Single selection	<p>To be provided if O25 selection is "Local Council".</p> <p>Name of the local council area in which the level crossing is located. Only local councils in the applicable State/Territory will be available for selection.</p>
O26	Number of individual crossings	(numerical, integer)	The number of separate level crossing pathways that are provided at the crossing location. (e.g. a

Data Item ID	Data Item	Format	Description
			single vehicle crossing with two pedestrian crossings will have 3 individual crossings)
<b>For each individual crossing</b>			
<b>O16-1</b>	ALCAM LXM ID (Road/Path)	(numerical, integer)	Provide the ALCAM identifier for the individual pedestrian crossing that is attached to a road crossing.
<b>O17-1</b>	Level Crossing ID (Road/Path)	Free Text	The rail infrastructure manager's identifier for each individual crossing path. To be provided for operators not using ALCAM or for ALCAM users that also use an additional internal ID.
<b>O27</b>	Level Crossing Type	Selection of: 1. Road Vehicle 2. Pedestrian	Provide the type of level crossing.
<b>O28</b>	Level Crossing Protection	If <b>Level Crossing Type</b> is road vehicle, selection of: 1. Active – lights 2. Active – boom gates 3. Passive – Stop 4. Passive – Give Way 5. Unprotected  If <b>Level Crossing Type</b> is pedestrian, selection of: 1. Active – lights 2. Active – gates 3. Passive 4. Unprotected	Provide the protection type for each individual crossing.

#### ONRSR maintained data

Data Item ID	Data Item	Format	Description
<b>O29</b>	Local Council List	List of local councils for 1. ACT 2. NSW 3. NT 4. QLD 5. SA	List of local councils for each state and territory.

Data Item ID	Data Item	Format	Description
		6. TAS 7. VIC 8. WA	

## 4 Mandatory railway operations data (rolling stock operator)

### 4.1 Stations/Stops Utilised

Required for all railway operations.

Data Item ID	Data Item	Format	Description
O30	Station/Stops Utilised	Number	Total number of passenger stations or stops that are publicly available for passengers to use the passenger rail service.  Includes any stops on the operator's own or other operator's railway.

## 5 Optional network operation data (rail infrastructure manager)

The following network operation data is sought in order to provide an improved notifiable occurrence reporting experience and remove the free text nature of location details.

This information will enable operators to reporting occurrences with reference to:

- The name of a key location on the network (e.g. a station, yard or passing loop); or
- A line section and line kilometre point.

Without this information, operators reporting occurrences will be required to provide the line section and line kilometre points for every relevant occurrence in order to generate useable location data.

The data provide here, along with that provided under 3.2 and 3.4 will be made available to rolling stock operators that operate on the rail infrastructure manager's railway in order to provide a common manner for describing locations and offer the same location reporting options to all occurrence reporting operators.

### 5.1 Key Locations

Required for any key location on the railway that may be used as a reference point for the reporting of notifiable occurrences.

Data Item ID	Data Item	Format	Description
-	Line section	<i>Selected from <b>Line sections</b> data</i>	Data link back to the defined line sections used to describe the railway.  Provide all line sections under the rail infrastructure managers effective management and control that the key location is located on.
<b>O31</b>	Line kilometre point	(numerical, two decimal points)	The line kilometre location that best represents the location, e.g. midpoint of a station, entry points to/from a yard.
<b>O32</b>	Location Name	Free text	The operational name of the location.  This value will then be presented as selectable location when reporting a notifiable occurrence.
<b>O33</b>	Location ID	Alphanumeric	The rail infrastructure manager's identifier for the location.
<b>O34</b>	Location Type	Single selection of: 1. Station 2. Crossing loop 3. Yard / Siding 4. Private siding 5. Bridge (rail) 6. Control Point*	The location type.  * used as a default for other locations that an operator may choose to identify.

## 6 Private Sidings (registered rail infrastructure managers)

### 6.1 Private Sidings

Required for each private siding location

Data Item ID	Data Item	Format	Description
O35	Private siding name	Free text	Registered rail infrastructure manager's name for the siding.
O36	Connected Rail Infrastructure Manager	<i>Selected from ONRSR data of accredited rail infrastructure managers</i>	
-	Line Section	<i>Selected from <b>Line sections</b> data for the relevant infrastructure manager</i>	
O37	Line kilometre point	(numerical, two decimal points)	The location of the primary connection point to/from the private siding.
O38	Siding Operations	Multiple selection: 1. Rolling stock maintenance 2. Rolling stock stabling 3. Loading / unloading 4. Train marshalling	