



## Roads (LGATE-012 )

Description: This road centreline dataset is derived from the Road segment layer of Landgate's medium scale Topographic GeoDatabase (TGDB). It is a comprehensive depiction of the state's road and tracks system. All named segments link to Landgate's Geonoma Database via Name\_ID.

Date last reviewed: August 2019  
Reviewed by : Location Data Maintenance

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## 1.1 Data Attribute Table

Field Name	Field Type	Description
<b>ACCESSLEVEL</b>	Variable Character	The user accessibility level. Some datasets are restricted and may be provided upon request
<b>ATTRIBUTERELIABILITYDATE</b>	Date	The date of the source information from which the feature's planimetric position was last verified or modified.
<b>CAPTUREMETHOD</b>	Variable Character	Identifies the method used to capture the feature's spatial extent.
<b>DATA CUSTODIAN</b>	Variable Character	Who is responsible for maintaining the dataset.
<b>DATASOURCE</b>	Variable Character	Identifies the program/source that was used to identify the feature.
<b>DATEFEATURECREATED</b>	Date	The date/time the record for the feature was initially created. This is a system managed attribute and cannot be changed by the user.
<b>DATEFEATUREMODIFIED</b>	Date	The date/time the feature was modified (spatial or aspatial). This is a system managed attribute and cannot be changed by the user.
<b>DATEFEATURERETIRED</b>	Date	The date/time the record for a feature is deleted. This is a system managed attribute and cannot be changed by the user.
<b>DECCATEGORY</b>	Variable Character	Indicates the functional purpose of the road as determined by DBCA (formerly DEC). Refer to DBCA Road Operational Guidelines Subject to DBCA business rules (attributes assignment is the responsibility of DBCA)
<b>DECTYPE</b>	Variable Character	Indicates the strategic purpose of the road as determined by DBCA (formerly DEC). Refer to DBCA Road Operational Guidelines Subject to DBCA business rules (attributes assignment is the responsibility of DBCA)
<b>DIRECTIONCATEGORY</b>	Variable Character	Indicates the traffic flow direction. (for future population)
<b>ELEVATIONACCURACY</b>	Variable Character	An estimate of the accuracy of the elevation for the feature, in metres, based on 90% of well-defined points. The estimate is calculated using the Root Mean Square error and the Linear Map Accuracy Standard Factor. Refer to Data Accuracy Calculation table for further information.
<b>FCSUBTYPE</b>	Variable Character	A generic term used to describe a broad group of features (e.g., pools, ponds, & lakes all have a feature class sub-type of LAKE).
<b>GEOGRAPHIC_NAME</b>	Variable Character	The approved or recorded name of a feature populated from Landgate's Geonoma Database.
<b>GEONOMA_ID</b>	Variable Character	Relates to the Geographic Names feature number and provides the link to the Geonoma Database for display purposes.

<b>LANECOUNT</b>	Variable Character	An indication of whether two vehicles can safely pass each other without having to move off the formed road surface. This information is based on the over 6 metre, Two Or More Lanes", and under 6 metre "One Lane"" category in the original topographic data. Dual Carriageways are classified as "Two Or More Lanes".
<b>MAPCLASSIFICATION</b>	Variable Character	Classification sourced from MRWA for Landgate mapping purposes. Logical extensions of the classifications are made in consultation with MRWA
<b>METADATAID</b>	Variable Character	A unique identifier that links to the metadata table. This is a system managed attribute – cannot be changed by the user other than through the appropriate interface (metadata management )
<b>MRWACLASSIFICATION</b>	Variable Character	Based on the MRWA Road Network Maps. This classification was originally added to service the need for a whole of state road hierarchy. It is not meant to replicate the MRWA system needs. The critical categories are "Highway" and "Main". Note that some roads have been assigned "Highway" and "Main" unlike the original MRWA data to provide a continuous feature (e.g., a roundabout may be classified as "Main")
<b>MRWAROADNUMBER</b>	Variable Character	Main Roads Western Australia's road number. Although termed a number it is in fact a string (maximum of 10 Characters).Assignment is the responsibility MRWA. The default value is Null
<b>OBJECTID</b>	Variable Character	
<b>PLANACCURACY</b>	Variable Character	An estimate of the absolute accuracy of the horizontal coordinates for the feature, in metres. The estimate is calculated using the Root Mean Square error and the Circular Map Accuracy Standard Factor. Refer to Data Accuracy Calculation table for further information.
<b>RD_NAME</b>	Variable Character	The official road name as approved by Landgate's Geographic Names
<b>RD_SUFFIX</b>	Variable Character	Not populated
<b>RD_TYPE</b>	Variable Character	Road, Street, Avenue etc. Road types are determined as part of the road naming approval process.
<b>ROADACCESSRIGHT</b>	Variable Character	Indicates who has the right to use the road. This has no legal status and is assigned with input from MRWA, DBCA and LGA's.
<b>ROADCUSTODIAN</b>	Variable Character	Indicates who is responsible for the road. This has no legal status and is assigned with input from MRWA, DBCA and LGA's.
<b>ROADSTATUS</b>	Variable Character	The indicator for whether a road is trafficable.
<b>ROADSURFACE</b>	Variable Character	The road surface structure e.g., sealed / unsealed
<b>ROADUSAGE</b>	Variable Character	Indicates the type of vehicle that can use the road e.g., 4WD only
<b>SHAPE</b>	Geometry	SLIP system generated field .
<b>SPATIALRELIABILITYDATE</b>	Date	The date of the source information from which the feature's planimetric position was last verified or modified.

<b>SPEEDLIMIT</b>	Variable Character	The posted (or legal) speed limit for the section of road. Not populated
<b>TARGETDISPLAYSCALE</b>	Variable Character	The scale at which the feature was originally captured and displayed.
<b>TRACKHEIRARCHY</b>	Variable Character	Indicates the level of importance assigned to the track.

### 1.1.2 ACCESSLEVEL TABLE

Values	Description	
	Access Right	Data
0	Public	Data for public use. This is the default.
10	Public (licensed)	Data for public use but under license with Army.
11	Public (licensed)	Data for public use but under license with DMP.
12	Public (licensed)	Data for public use but under license with DEC.
13	Public (licensed)	Data for public use but under license with Water Corporation
14	Public (licensed)	Data for public use but under license with Western Power.
20	Level 1 Restriction (Low)	Data not for public use. For internal LANDGATE use only, under license with DMP.
21	Level 1 Restriction (Low)	Data not for public use. For internal LANDGATE use only, under license with Water Corporation
22	Level 1 Restriction (Low)	Data not for public use. For internal LANDGATE use only, under license with Western Power
23	Level 1 Restriction (Low)	Data not for public use. For DEC use only. DEC to specify who can have access to this category of data. Note: refer to conditions associated with Access Level 24
24	Level 1 Restriction (Low)	Data not for public use. For internal LANDGATE use only. Provides alignment to DEC restricted roads (i.e., used to ensure road connectivity is preserved).Note: if ACCESSLEVEL 23 data is suppressed so should ACCESSLEVEL 24 data.
40	Level 2 Restriction (Medium)	Data not for public use. Medium restriction dissemination policy.
60	Level 3 Restriction (High)	Data not for public use. Highly restricted dissemination policy
80	Secure	Data not for public use. Data totally restricted.

### 1.1.3 CAPTURE METHOD TABLE

<b>Values</b>	<b>Description</b>
7	MathematicalInterpolation
3	OnScreenDigitising
4	Scan_Vectorise
5	TableDigitising
6	Various

### 1.1.4 DECCATEGORY

<b>Values</b>	<b>Description</b>
A_MAJORROAD (1)	Major road; Commonly provides for main movements through a region.
B_SECONDARYROAD (2)	Secondary road; Generally, provides formoderate use areas in a region.
C_MINORROAD (3)	Minor road; Provides a link to moderate and low usage areas.
D_INTERNALROAD (4)	Internal road; Provides for internal access for low use areas.
E_TRACK (5)	Track; Provides access primarily for four-wheel drive vehicles.
NOTAPPLICABLE (-98)	The DECCATEGORY is not relevant for the particular feature. This is the default DECCATEGORY value.
Unknown (-99)	The DECCATEGORY is not known for the particular feature: however, a value may be populated in the future

#### 1.1.4.1 DECTYPE

<b>Values</b>	<b>Description</b>
DESIGNATED_PUBLICACCESS (1)	Roads that are primarily used to provide access for the general public and are considered of high importance. Visitor access to recreational sites, community thoroughfares, private property and coastal/river access.

OPERATIONAL_OPENTOPUBLIC (2)	Roads that are primarily used for DEC related activities although they are not closed to the public. Roads required for management purposes including fire prevention and suppression activities or are important for timber harvesting or other industry operations. Most State Forest roads and tracks, National Parks and Reserve boundaries and management tracks, firebreaks etc.
OPERATIONAL_RESTRICTEDACCESS(3)	Roads that are subject to restricted access and are not open to the public without authorization. Access may be restricted due to DEC policies or regulations, such as control of disease and weeds, public safety during mining or timber harvesting activities. Access is restricted through adequate signage and gating where necessary. Any roads in the Disease Risk Area (DRA), mine exclusion zones and temporary exclusion zones for timber harvesting activities.
UNMAINTAINED (4)	Roads that have no perceived functional value and are unworthy of further maintenance. The condition of these roads is unknown and may become untrafficable. Roads excluded from asset management including relegated roads.
DECROAD_MAINTAINEDBYOTHER AGENCY (5)	Roads on DEC Managed Lands that are maintained by an agency other than DEC. These roads may be open to the public or restricted. These roads are maintained under an agreement between DEC and another party (frequently a Local Government Authority). Such arrangements may be to facilitate public or private access to a non-DEC site via DEC Managed Lands.
NONDECROAD_MAINTAINEDBYD E C (6)	Roads not on DEC Managed Lands that are maintained by DEC. These roads may be open to the public or restricted. These roads are maintained under an agreement between DEC and the road custodian. Such arrangements may be to facilitate access for DEC management purposes or for public access through non DEC Managed Lands to a DEC site.
Not Applicable (-98)	The DECTYPE is not relevant for the particular feature. This is the default DECTYPE value.
Unknown (-99)	The DECTYPE is not known for the particular feature; however, a value may be populated in the future.

#### 1.1.4.2 DIRECTIONCATEGORY

<b>Values</b>	<b>Description</b>
Bi-directional (1)	Traffic can flow in either direction (both). (WA)
One Way To From (2)	Traffic can only flow in one direction (in the direction of the vector) (WA)
One Way From To (3)	Traffic can only flow in one direction (in the opposite direction of the vector).(WA)
Not Applicable (-98)	The Direction Category is not relevant for the particular feature.
Unknown (-99)	The Direction Category is not known for the particular feature; however, a value may be populated in the future This is the default Direction Category.

#### 1.1.4.3 LANECOUNT

<b>Values</b>	<b>Description</b>
ONELANE (1)	Two vehicles cannot pass each other without both having to move off the formed surface. (WA)
TWOORMORELANES (2)	Two vehicles can pass each other without having to move off the formed surface. (WA)This is the default LANECOUNT.
NOTAPPLICABLE (-98))	The LANECOUNT is not relevant for the particular feature.
UNKNOWN (-99)	The LANECOUNT is not known for the particular feature; however, a value may be populated in the future.
UNKNOWN (-99)	

#### 1.1.4.4 MAPCLASSIFICATION

<b>Values</b>	<b>Description</b>
Arcade (13)	A passage or walkway, often including retailers. (WA)
Freeway (1)	Those roads whose main function is to provide for major regional and inter-regional traffic movement and carry large volumes of generally fast moving traffic. (Modified MRWA)



State Highway (9)	Those roads, excluding National Highways, whose main function is to form the principal avenue of communication for movements, between a capital city and adjoining States and their capital cities or, between a capital city and key towns, or between key towns. Within the metropolitan area this category includes those roads whose main function is to form the principal avenue of communication for massive traffic movements. (Modified MRWA)
Laneway (11)	Predominantly those roads that were previously classed as a "right of way". They generally have some practical restriction on traffic usage as they are narrow in nature. (WA)
Main (10)	Those roads, excluding National Highways and State Highways, whose function is to provide an avenue of communication for movements, between important centres and National Highways and Highways and/or key towns, or between important centres, or of an arterial nature within a town in a rural area. (Modified MRWA)
Mall (6)	A sheltered walk or promenade, a section of ROAD closed to vehicular traffic for a promenade.(CGNA)
Minor (5)	Those roads whose main function is to provide access to abutting property. (Modified MRWA)This is the default for Map Classification.
Minor Arterial (12)	Those roads whose main function is to provide through access within urban areas. The major linkage between main and minor roads.
National Highway (8)	Those roads which form the principal avenue for communication between major regions of the Commonwealth, including direct connections between capital cities. (Modified MRWA)
Track (7)	An unimproved road that does not form part of the public communication system, but which provides access to individual properties or areas used for pastoral or industrial purposes. The surface of which may vary from poorly surfaced, to tracks beaten by the passage of vehicles.(Modified CGNA)
Not Applicable (-98)	The Map Classification is not relevant for the particular feature

Unknown (-99)	The Map Classification is not known for the particular feature, however a value may be populated in the future.
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#### 1.1.4.5 MRWAClassification

<b>Values</b>	<b>Description</b>
LOCALROAD (1)	MRWA classification based on their "State Road Network" and "Road Surface" maps. (WA) This is the default MRWAClassification.
HIGHWAY (2)	MRWA classification based on their "State Road Network" and "Road Surface" maps. (WA)
MAINROAD (3)	MRWA classification based on their "State Road Network" and "Road Surface" maps. (WA).
NOTAPPLICABLE (-98)	The MRWAClassification is not relevant for the particular feature
UNKNOWN (-99)	This is an invalid attribute for MRWAClassification

#### 1.1.4.6 ROADACCESSRIGHT

<b>Values</b>	<b>Description</b>
DEC_DISEASERESTRICTEDACCESS(1)	A road or track within Disease Risk Area and designated as having restricted access (except for pedestrians and holders of permits issued by the DEC). Access to these roads or tracks may be blocked by obstacles or gates.
DEC_MANAGEMENTACCESS (2)	A road or track for DEC use only. They are generally in national parks and are usually gated to restrict public access.
DEC_FIREACCESS (5)	A road or track designated as "fire access" by DEC.
PRIVATE (3)	Restricted for the use of a group.
PUBLIC (4)	For general use. This is the default for ROADACCESSRIGHT.
RESTRICTED (6)	A road or track not intended for general use.
NOTAPPLICABLE (-98)	The ROADACCESSRIGHT is not relevant for the particular feature.
UNKNOWN (-99)	The ROADACCESSRIGHT is not known for the particular feature. however, a value may be populated in the future.

#### 1.1.4.7 ROADCUSTODIAN

<b>Values</b>	<b>Description</b>
DEC (1)	Was Department of Environment And Conservation is now Department of Bio-conservation and Attractions. Note: Department names change with time; however, this attribute (DEC) will remain constant.
LGA (2)	Local Government Authority.
MRWA (3)	Main Roads Western Australia. Note: Department names change with time. However, this attribute will remain constant.
Private (4)	Belonging to an individual company or group.
Not Applicable (-98)	The Road Custodian is not relevant for the particular feature.
Unknown (-99)	The Road Custodian is not known for the particular feature; however, a value may be populated in the future. This is the default for Road Custodian

#### 1.1.4.8 ROADFEATURETYPE

<b>Values</b>	<b>Description</b>
ARCADE (9)	
CONNECTOR (4)	
NAMECONNECTOR (7)	
ONOFFRAMP (3)	
ONOFFRAMPOVERPASS (10)	
OVERPASS (2)	
ROAD (1)	THIS IS THE DEFAULT SUB TYPE
ROUNDAABOUT (5)	
TRACK (6)	
UNDERGROUNDROAD (8)	

#### 1.1.4.9 ROADSTATUS

<b>Values</b>	<b>Description</b>
Operational (1)	The road is trafficable. (WA)This is the default for Road Status.
Relegated (3)	The road is no longer in use (overgrown), however could be used by heavy vehicles in a case of an emergency (DEC specific). (WA)
Trafficability Unknown(4)	The trafficability of the road is unknown. (WA)
Under Construction (2)	The road is not trafficable. (WA)
Not Applicable (-98)	The Road Status is not relevant for the particular feature.
Unknown (-99)	The Road Status is not known for the particular feature; however, a value may be populated in the future.

#### 1.1.4.10 ROADSURFACE

<b>Values</b>	<b>Description</b>
Sealed(1)	Surface comprising, brick, concrete, or tar. (WA)This is the default Road Surface.
Unsealed (2)	Surface other than brick, concrete, or tar. (WA)
Not Applicable (-98)	The Road Surface is not relevant for the particular feature.
Unknown (-99)	The Road Surface is not known for the particular feature; however, a value may be populated in the future.

#### 1.1.4.11 ROADUSAGE

<b>Values</b>	<b>Description</b>
4WheelDrive (1)	Suitable for only four-wheel drive vehicles. (Modified NSW)
All Vehicle (2)	Suitable for all vehicles. (WA)This is the default Road Usage.
Bus Lane Only (3)	Designated for Bus use only. (WA)
Not Applicable (-98)	The Road Usage is not relevant for the particular feature.

Unknown (-99)	The Road Usage is not known for the particular feature, however a value may be populated in the future.
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### 1.1.5 DATACUSTODIAN TABLE

Values	Description
7	ARMY
1	DAFWA – Department Agriculture and Foods WA
2	DEC – Department of Environment and Conservation
4	DMP – Department of Mines and Petroleum
6	DOW – Department of Water
8	GA
3	LANDGATE
10	MRWA – Main Roads
5	WC – Water Corporation
9	WP – Western Power

### 1.1.6 DATASOURCE TABLE

2	Values	Description
	1	1:2000TopographicSeriesByLANDGATE
	6	1:50000TopographicSeriesByLANDGATE
	9	1:100000TopographicSeriesByDMP
	10	1:100000TopographicSeriesByDOW
	7	1:50000TopographicSeriesByDOW
	8	1:100000TopographicSeriesByGA
	18	1:50000TopographicSeriesByDEC
	3	1:25000TopographicSeriesByLANDGATE
	2	1:5000TopographicSeriesByLANDGATE
	4	1:25000TopographicSeriesByDEC

5	1:25000TopographicSeriesByDOW
16	1:50000TopographicSeriesByARMY
11	CadastralDatabase
12	CitiesAndTownsSeriesByLANDGATE
19	ConceptPlan
28	DECRoadAssetManagement
24	DigitalElevationModel
22	GasOilPipelinesByDMP
25	GeographicNamesRegister
13	MetropolitanStreetSmartDirectoryByLANDGATE
14	MetropolitanWallMapByLANDGATE
17	ModifiedAMBIS1:100000Data
27	MRWA_IRIS
26	OrthoImagery
23	PlantationsByDEC
15	StateMapSeriesByLANDGATE
20	TransmissionLinesByWP
21	WaterPipelinesByWC

### 1.1.7 NAMEID TABLE

Values	Description
Number greater than 0	Valid GEONOMA_ID
-98	Not Applicable. Indicates the feature will never have a name. This is the default.
-99	Unknown. Indicates the feature can possibly have a valid name but it is not known at the point of capture. This attribute type needs to be resolved and assigned "Not Applicable" or a valid GEONOM_ID.

### 1.1.8 PLANIMETRIC ACCURACY TABLE

MAPPING SCALE	RMS(metres)		CIRCULAR MAP ACCURACY STANDARD FACTOR	90% OF "WELL DEFINED" POINTS WILL BE WITHIN (METRES)	
	DIRECT STEREO CAPTURE	HAND/SCAN DIGITISED(0.25mm AT MAP SCALE)*	CMAS AT THE 90% CONFIDENCE LEVEL	DIRECT STEREO CAPTURE	HAND/SCAN DIGITISED OR DERIVED
1:2000	0.25		2.146	0.5	
1:25000	3.13	6.2	2.146	6.7	13.3
1:50000	6.26	12.5	2.146	13.4	26.8
1:100000	12.52	25	2.146	26.9	53.7

\*Additional errors associated with Hand Digitised and Scanned data include (over and above photogrammetric instrument setup):

- 1) Drafting errors (machine plot)
- 2) Digitiser setup errors
- 3) Digitising errors

### 1.1.9 TARGET DISPLAY SCALE TABLE

Values
1:1000 (1000)
1:2000 (2000)
1:5000 (5000)
1:20000 (20000)
1:25000 (25000) This is the default value.
1:50000 (50000)
1:100000 (100000)