



Road Centrelines Spatial Files

Data Dictionary

Version 1.0 DRAFT

**Prepared by
Data Management Group**

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DOCUMENT CONTROL

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Version 0.1	Draft	21/05/2014	Data Management Group	First DRAFT
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1 OVERVIEW

1.1 HOW TO USE THIS DOCUMENT

1.1.1 DOCUMENT STRUCTURE

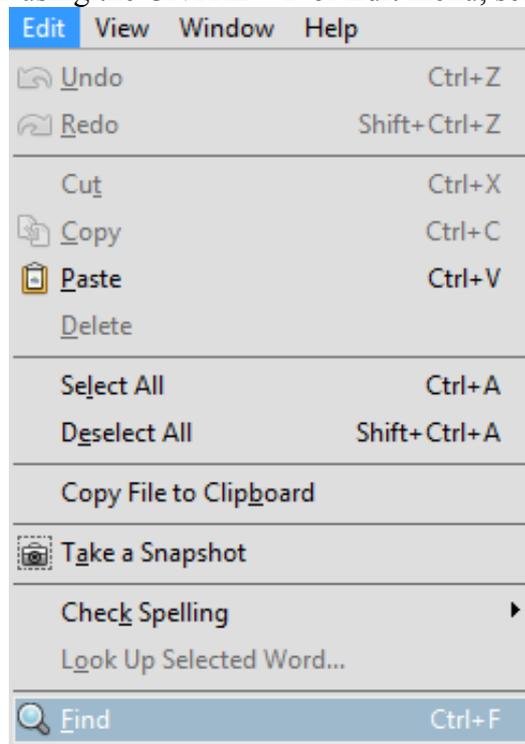
This document has been structured in the following way:-

1. Overview (this section)
 - a. How to search within this document
 - b. Geodatabases, a table containing the themes and the associated Feature Classes (Datasets)
 - c. Common Attributes – all Feature Classes have similar attributes/field names, except for shapes that are specific to that class type, such as shape_length for lines.
2. Workspace – for editors of information, includes generic tables that are provided as part of the Geodatabase themes.
3. Roads Centre Line Theme
4. Attribute Values – a list of all domain values of the attribute

This document includes hyperlinks to relevant Attribute values. The link can be identified by any field name/attribute that is underlined. Clicking on the underlined work will take you directly to the relevant attribute values.

1.1.2 SEARCHING FOR FEATURES

If looking for a particular feature, such as rocks, lakes, hospitals, do a search on the particular feature you are looking for using the CNTRL + F or Edit menu, select “Find”.



These features are part of the attribute values tables (which includes the domain values – the actual feature) at the end of the document. Please note that that some attributes have no spaces in between them or may have an underscore “_” between the words, for example, an attribute may appear as:

- AboriginalOutstation
- SalineCoastal
- NewspaperPublishing
- Scan_Vectorise
- Telephone_Emergency

1.2 GEODATABASES

Landgate provide geodatabase feature datasets, which are a collection of feature classes stored together so they can participate in topological relationships with each other.

The themes are listed below with the class type (Spatial element) and Feature classes (datasets) supplied within each theme.

This document has been sectioned according to the Theme names and each of these sections highlight the field name/attributes unique to each of the feature class datasets.

<i>Themes/Class Name</i>	<i>Related Class/Features</i>	<i>Class Type</i>	<i>Feature Class</i>
ROAD CENTRE LINE	PROPOSED ROAD SEGMENT	LINE	Proposed Road Segment Line
	ROAD JUNCTION	POINT	RoadJunctionPoint
	ROAD SEGMENT	LINE	RoadSegmentLine

1.3 COMMON ATTRIBUTES (FIELD NAMES)

All feature classes have the following common attributes/field name.

Attribute/Field Name	Description	Associated Attribute Values Y/N
OBJECTID	A system generated number for an object	N
DATEFEATURECREATED	The date/time the record for the feature was initially created.This is a system managed attribute – cannot be changed by the user.	N
CREATEDBY	The user name/account that created the feature record.This is a system managed attribute – cannot be changed by the user.	N
DATEFEATUREMODIFIED	The date/time the feature was modified (spatial or aspatial).This is a system managed attribute – cannot be changed by the user.	N
MODIFIED BY	The user name/account that modified the feature record (includes modification and deletion).This is a system managed attribute – cannot be changed by the user.	N
DATEFEATURERETIRED	The date/time the record for a feature is deleted.This is a system managed attribute – cannot be changed by the user.	N
ACCESSLEVEL	The user accessibility level.	Y
METADATAID	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).	N
FEATURETEXT	Temporary field (80 characters) to hold feature text that has been migrated from legacy data.This text will eventually be replaced by a valid NameID and set to <Null>.	N
DATEREVIEWED	The date/time the record for a feature has	N

Attribute/Field Name	Description	Associated Attribute Values Y/N
	been reviewed. This is a system managed attribute – cannot be changed by the user.	
NAMEID	An identifier that equates to a pointer in the Geographic names register (database) that references the feature's name. For Tower Point dataset the valid id is >0, or -99 unknown or -98 not applicable	N
SYSTEMID	Only applicable for Hydrography theme. Value is -98 not applicable	N
GLOBALID	A unique identifier that remains associated with a feature for the life of that feature. A "GlobalID" will not change as a result of minor maintenance operations for example, a feature will retain its current "GlobalID" if the digitised co-ordinates describing its geometry are replaced by more accurate values, or the feature's name is changed. Global ID and GUID ESRI field data types store GUID values which are a 36 character sequence of hexadecimal digits enclosed in curly braces e.g. {6B29FC40-CA47-1067-B31D-00DD010662DA}. GUID values are used to uniquely identify each feature within and across geodatabases. GlobalID field values are automatically populated and maintained by ArcGIS, this differs to GUID field values which must be manually attributed. Global IDs are a prerequisite for geodatabase replication. This is a system managed attribute – cannot be changed by the users.	N
AddressText	The street address for the feature	N
FCSubType	Feature class sub type is used with other unique field names to distinguish different types of features. Refer to the Theme sections and Attribute Values.	N
SYMBOLROTATION	Rotation of the symbolised feature. Expressed in decimal degrees, positive in a clockwise direction from the positive Y-axis.	N
BASELEVEL	An unknown value is indicated by the value -99.	N
TEMPID	A programmatically controlled system value. Not editable and of no consequence to users.	N



2 WORKSPACE

2.1 TABLES

There are a number of generic tables that are supplied with all Geodatabases (Cultural, Transport, Hypographic, GroundSurface). These are listed below with the associated attribute/field names.

2.1.1 FEATUREINSTANCEMETADATA

Attribute/Field Name	Description	Associated Attribute Values Y/N
OBJECTID	A system generated number for an object	N
METADATAID	A Feature Number is a unique number, which is automatically assigned to every recorded feature when it is entered into the GEONOMA database. This number is unique and cannot be duplicated. Note: the GENOMA "FeatureNumber" maps to the "NameID" in the Topographic Database.	
CAPTUREMETHOD	Identifies the method used to capture the feature's spatial extent.	Y
DATASOURCE	Identifies the program/source that was used to identify the feature.	Y
ELEVATIONACCURACY	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.	Y
PLANACCURACY	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.	Y
SPATIALRELIABILITYDATE	The date of the source information from which the feature's planimetric position was last verified or modified.	N
ATTRIBUTE RELIABILITYDATE	The date of the source information from which the feature's attribute	N

Attribute/Field Name	Description	Associated Attribute Values Y/N
	values were last validated or modified.	
TARGETDISPLAYSCALE	The scale at which the feature was originally captured and displayed.	Y
DATACUSTODIAN	The data custodian/owner	Y
GLOBALID	<p>A unique identifier that remains associated with a feature for the life of that feature. A “GlobalID” will not change as a result of minor maintenance operations for example, a feature will retain its current “GlobalID” if the digitised co-ordinates describing its geometry are replaced by more accurate values, or the feature's name is changed. Global ID and GUID ESRI field data types store GUID values which are a 36 character sequence of hexadecimal digits enclosed in curly braces e.g. {6B29FC40-CA47-1067-B31D-00DD010662DA}. GUID values are used to uniquely identify each feature within and across geodatabases. GlobalID field values are automatically populated and maintained by ArcGIS, this differs to GUID field values which must be manually attributed. Global IDs are a prerequisite for geodatabase replication. This is a system managed attribute – cannot be changed by the users.</p>	N

2.1.2 GEONOMA_LOCATION_V

Table of current feature names (approved and non-approved) extracted from the Geographic Names Register (GEONOMA).

Attribute/Field Name	Description	Associated Attribute Values Y/N
Feature_Map_Xref_ID	A system generated number for an object	N
Feature_Number	A Feature Number is a unique number, which is automatically assigned to every recorded feature when it is entered into the GEONOMA database. This number is unique and cannot be duplicated. Note: the GEONOMA "FeatureNumber" maps to the "NameID" in the Topographic Database.	N
Map_Number	The map on which the geographic feature is located. Conventional map numbers are used.	N
Locality	The official Locality name. Localities which are considered to be a part of the metropolitan area are known as Suburbs, and those which fall outside of this area are known as Bounded Localities.	N
ABS_LGA_Number	An LGA Number is a unique four-digit number, which has been assigned to the Local Government Authority name by the Australian Bureau of Statistics.	N
LGA_Name	The official Local Government Authority name. In the form: BELMONT, CITY OF VICTORIA PARK, TOWN OF KALAMUNDA, SHIRE OF	N
Latitude	Latitude is defined as the angle formed by the intersection of a line perpendicular to the Earth's surface at a point and the plane of the Equator. Points north of the Equator have positive latitude values, while points south have negative values. Latitude values range from -90 to +90 degrees. In this case the value is expressed in decimal degrees.	N
Longitude	A meridian, or line of longitude, is formed by a plane that passes through the point and the North and South poles. The longitude value is defined by the angle between that plane and a reference plane. The reference plane is known as the prime meridian. The most common prime meridian passes through Greenwich, United Kingdom. Longitude values range from -180 (west of the meridian) to +180 (east of the meridian)	N

Attribute/Field Name	Description	Associated Attribute Values Y/N
	degrees. In this case the value is expressed in decimal degrees.	
Easting	A Universal Transverse Mercator (UTM) rectangular coordinate recorded in meters. The origin of each UTM zone is the central meridian. The value given to the central meridian is a false easting of 500,000.	N
Northing	A UTM rectangular coordinate recorded in meters. The origin of each UTM zone is the equator. The value given to the equator is a false northing of 10,000,000.	N
Zone_	A Map Zone relates to the Universal Transverse Mercator Grid. For the Universal Transverse Mercator System, the globe is divided into 60 zones, each spanning six degrees of longitude. Each zone has its own central meridian from which it spans 3 degrees west and 3 degrees east. The origin of each zone is the equator and its central meridian.	N

2.1.3 GEONOMA_NAME_V

Table of current feature names (approved and non-approved) extracted from the Geographic Names Register (GEONOMA).

Attribute/Field Name	Description	Associated Attribute Values Y/N
GEONOMA_ID	A system generated number for an object	N
FEATURE_NUMBER	A Feature Number is a unique number, which is automatically assigned to every recorded feature when it is entered into the GEONOMA database. This number is unique and cannot be duplicated. Note: the GEONOMA “FeatureNumber” maps to the “NameID” in the Topographic Database.	N
Full_Name	The name of the feature, in Title Case e.g. a road name – Boulder, a stream e.g. Linfarne Brook	N
Name	The name of the feature, in Capitals e.g. a road name – BOULDER, a stream e.g. LINFARNE BROOK	N
Display_Name	The name of the feature, in Title Case e.g. a road name – Boulder, a stream e.g. Linfarne Brook	N
Road_Type	The suffix of a road name (e.g. ST)	N
Road_Suffix	A road’s cardinal directional indicator (e.g. W)	N
Road_uffix_Description	Cardinal direction description (e.g. West)	N
Derived_Name	The name of the feature (concatenation of field) in the case of a road. E.g. BOULDER ST West All other feature classes Derived_name = Name	N
Description	Null	N
Name_Type	The Name Type is an administrative field used to determine if a feature is current or archived (e.g. C, U).	N
Feature_Class	A Feature Class is a classification, which is assigned to all features stored within the GEONOMA computer system. This classification is then used to categorise features into 'like' groups, for example, streams, rivers and creeks all have the feature class of STREAM (STRM), Place of worship have a feature class of WSHP. Note: These feature class do not equate to the Topographic Database feature classes; they are independent of the topographic data. Users of the topographic data should use the topographicdatabase feature classes.	N

Attribute/Field Name	Description	Associated Attribute Values Y/N
Feature_Class_Category	A – Admin, R – Roads, T - Topography	N
Feature_Class_Description	English descriptions of the feature class codes/categories.e.g. “Place of worship” for the feature class of “WSHP”	N

2.2 TECHNICAL NOTES

The model is made up of two components - a set of UML diagrams (PDF or JPEG) and this data dictionary (PDF). The model was developed in Visio 2002 and is available on request, subject to Departmental approval.

- Geodatabase versioning is used to support optimistic locking strategies, manage transactions and provide detached editing capability. Thus, although not specifically referenced in the model, this functionality in itself affords compliance with the incremental update requirements defined by the ICSM Topographic Working Group.
- The model contains the following component types: abstract classes, feature classes (spatial), object classes (aspatial), relationship classes, class subtypes and attributes controlled by fixed value domains.
- All features have a unique, persistent identifier called “GlobalID”. This value is guaranteed unique across all Geodatabase feature classes and remaining unchanged throughout the life of the feature (subject to business rules).
- Some feature attributes have been included in anticipation of a future requirement and availability. However it may be some time before these attributes are populated.

2.3 CONVENTIONS AND DEFAULTS

2.3.1 COORDINATE SYSTEM

- The coordinate system for the database has been defined as:

- Coordinates - Lat/Long (Geographic)
- Datum - GDA94
- Geometry types do not have M or Z
- High Precision Database
- Extent:

Practical physical extents for Western Australia

Minimum Longitude: 93 Degrees Maximum Longitude: 131 Degrees

Minimum Latitude: -46 Degrees Maximum Latitude: -8 Degrees

Database Extents (limits calculated based on precision)

Min X - 399.999999991152 Degrees Max X 159383152.222656 Degrees

Min Y - 399.999999982305 Degrees Max Y 159383152.222656 Degrees

- Dataset Tolerance:

XY Tolerance 0.000000035390258 Degrees (approx. 3.8mm)

- Dataset Precision:

XY Resolution 0.000000017695129 Degrees (approx. 1.9mm)

- Minimum length between vertices

XY Tolerance 0.000000035390258 Degrees (approx. 3.8mm)

2.3.2 2D VERSUS 3D DATA STRUCTURES

All data has been model as 2D, however provision has been made for certain features, in particular, contours (land surface and bathymetric), spot heights and soundings to have an “Elevation” or altitude (height above a reference datum – AHD) as an attribute. Certain features can also have a “Height” (the vertical distance from its base to its top).

2.3.3 DOMAIN TABLE ENTRIES

Domain list cater for both ‘Not Applicable’ (-98) and ‘Unknown’ (-99) definitions; however the assignment of these is subject to business rules – refer to the attribute values.

2.3.4 FEATURE ATTRIBUTES

- All relief elevations have been assigned a default value of 1500 (Null); greater than the highest peak in Western Australia.
- The stream hierarchy numeric attribute has been assigned a default value of 9999 (Null).
- All other numeric attributes, where applicable, have been assigned a default value of –99 (“Unknown”).
- Symbol Rotation. Point symbols should be created in the geographic coordinate system (i.e. positive Y-axis is 0 degrees). The symbol should be orientated in the direction of the positive Y-axis. A number of exceptions exist where the symbol has been created in the direction of the positive X-axis. Within the ESRI environment



these symbols have been rotated 90 degrees in the Table of Content to make them conform with the “Geographic” coordinate axis. ALL rotation angles in the database relate to the “Geographic” coordinate system.

- Defaults attributes for all features have been predefined. To assist editors in selecting appropriate feature attributes please refer to the Data Load Files (lists the feature attribute assigned when the computer aided drafting (CAD) files were loaded).

2.3.5 MAPPING SPECIFICATION

The data dictionary provides information about the feature attributes and their valid combinations. For specific information on capture rules please refer to The Australian Topographic Specification – All Scales (ATSAS Draft 3, 1984 – National Mapping Council) and Symbolisation – All Scales (SYMBAS 1988 – Royal Australian Survey Corp).

3 ROADS CENTRE LINE

Each theme may or may not have feature classes for types of point, Line and/or polygon. In most cases, the attributes/field names for each type are the same with some having additional unique attributes.

Feature Classes for RoadCentreLines (Datasets within the Geodatabase), that are represented in the table are:

- Proposed Road Segment
- Road Junction
- Road Segment

Feature Class and Class Type	Unique Attribute/Field Name (linked to Attribute Values section in this document if applicable – attribute underlined)
<p>Proposed Road Segment A proposed open way for the passage of vehicles, persons or animals on land. May be surveyed or conceptual. (WA)</p> <p>Road Junction An artificial feature generated at the intersection of two or more road segments.</p> <p>Road Segment An open way for the passage of vehicles, persons or animals on land. (ICSM)</p>	<u>RoadAccessRight</u>
	<u>RoadCustodian</u>
	<u>RoadDirection Category</u>
	<u>RoadMapClassification</u>
	<u>RoadMRWAClassification</u>
	<u>RoadStatus</u>
	<u>Road SurfaceType</u>
	<u>RoadUsageType</u>
	<u>TrackHierarchyType</u>
	<u>LaneCount</u>
	<u>DECCategory</u>
	<u>DECType</u>
	<u>SpeedLimit</u>

4 ATTRIBUTE VALUES

This section provides the associated Attribute values where it is shown in the theme section tables with the link from the Attribute/Field Name underlined.

Also shown prior to each table is the related Feature Class (datasets) the attribute values pertain to.

Attribute Name: [ACCESSLEVEL](#)

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.

Attribute Name: CAPTUREMETHOD

Values	Description
DIRECTPHOTOGRAMMETRICCAPTURE (1)	
GLOGALPOSITIONINGSYSTEM (2)	
MATHEMATICALINTERPOLATION (7)	
ONSCREENDIGITISING (3)	This is the default value.
SCAN_VECTORISE (4)	
TABLEDIGITISING (5)	
VARIOUS (6)	

Attribute Name: DATA ACCURACY CALCULATION

PLANIMETRIC ACCURACY

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)*		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

VERTICAL ACCURACY

MAPPING SCALE	CONTOUR INTERVAL	RMS(metres)		LINEAR MAP ACCURACY STANDARD FACTOR	90% OF "WELL DEFINED" POINTS WILL BE WITHIN (METRES)	
		CONTOURS	SPOTHEIGHTS ("WELL DEFINED")	LMAS AT THE 90% CONFIDENCE LEVEL	CONTOURS	HAND/SCAN DIGITISED OR DERIVED
1:25,000	5	1.67	0.83	1.6449	2.7	1.4
1:50000	10	3.34	1.66	1.6449	5.5	2.7
1:100000	20	6.68	3.32	1.6449	11.0	5.5

VERTICAL ACCURACY (based on DEM Data)

PHOTOGRAPHY SCALE OR DATA	CONTOUR INTERVAL	RMS(metres)	LINEAR MAP ACCURACY STANDARD FACTOR	90% OF "WELL DEFINED" POINTS WILL BE WITHIN (METRES)	
			LMAS AT THE 90% CONFIDENCE LEVEL	DERIVED CONTOURS **	DEM POSTS ("WELL DEFINED")
STRM DATA		9.73	1.6449	16.0	
1:40000	2	1	1.6449	1.6	1.6

** The accuracy of the contours derived from the DEM will be influenced by a number (not exhaustive) of factors:

- 1 DEM Grid spacing which dictates whether pinnacles and depressions are sampled or not
2. Whether the DEM has been edited to remove heighting errors
3. Accuracy of the posts
4. The area (cleared or vegetated)
5. Contour generation method (exact interpolation with or without smoothing)
6. Degree of contour editing after generation

Due to the lack of research on the quantitative effect of these factors, the accuracy of the derived contours (for the 1:40,000 scale data) has been stated to be equivalent to the accuracy of the DEM Posts. These accuracy statements exclude gross errors SRTM = Shuttle Radar Topography Mission DEM data

Attribute Name: DATACUSTODIAN

Values	Description
--------	-------------

Values	Description
DAFWA (1)	Department of Agriculture and Food
ARMY (7)	Australia Defence Force
DEC (2)	Department of Environment and Conservation
LANDGATE (3)	Western Australia Land Information Authority (trading as LANDGATE) This is the default value
DMP (4)	Department of Mines and Petroleum
GA (8)	Geoscience Australia
WC (5)	Water Corporation
DOW (6)	Department of Water
WP (9)	Western Power
MRWA (10)	Main Roads Western Australia

Attribute Name: DATASOURCE

Values	Description
1:2000TopographicSeriesBy LANDGATE (1)	
1:5000TopographicSeries By LANDGATE (2)	
1:25000TopographicSeries By LANDGATE (3)	This is the default value
1:25000TopographicSeriesByDEC (4)	
1:25000TopographicSeriesByDOW (5)	
1:50000TopographicSeriesByARMY (16)	
1:50000TopographicSeriesByDEC (18)	
1:50000TopographicSeriesByLANDGATE (6)	
1:50000TopographicSeriesByDOW (7)	
1:100000TopographicSeriesByDMP (9)	
1:100000TopographicSeriesByGA (8)	
1:100000TopographicSeriesByDOW (10)	
Cadastral Database (11)	Survey Data

Values	Description
Concept Plan (19)	Un-surveyed Data
Cities And Towns Series By LANDGATE (12)	
DECRoadAsset Management (28)	
DigitalElevationModel (24)	
GasOilPipelinesByDMP (22)	
GeographicNamesRegister (25)	
MetropolitanStreetSmartDirectoryByLANDGATE(13)	
MetropolitanWallMapByLANDGATE (14)	
ModifiedAMBIS1:100000Data (17)	
MRWA_IRIS (27)	
OrthoImagery (26)	
PlantationsByDEC (23)	
StateMapSeriesByLANDGATE (15)	
TransmissionLinesByWP (20)	
WaterPipelinesByWC (21)	

Attribute Name: DECCATEGORY

Values	Description
A_MAJORROAD (1)	Major road; Commonly provides for main movements through a region.
B_SECONDARYROAD (2)	Secondary road; Generally provides for moderate 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

Attribute Name: DECTYPE

<i>Values</i>	<i>Description</i>
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_MAINTAINEDBYDEC (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



Values	Description
	populated in the future.

Attribute Name: DIRECTIONCATEGORY

Values	Description
Bi-directional (1)	Traffic can flow in either (both) directions. (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.

Attribute Name: LANECOUNT

Values	Description
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
UNKNOWN (-99)	future.

Attribute Name: MAPCLASSIFICATION

Values	Description
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)

Values	Description
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.

Attribute Name: MRWAClassification

Values	Description
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).

Values	Description
NOTAPPLICABLE (-98)	The MRWAClassification is not relevant for the particular feature
UNKNOWN (-99)	This is an invalid attribute for MRWAClassification

Attribute Name: NAME_ID

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 "NotApplicable" or a valid GEONOMA_ID.

Attribute Name: ROADACCESSRIGHT

Values	Description
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.

Attribute Name: ROADCUSTODIAN

Values	Description
DEC (1)	Department of Environment And Conservation. Note: Department names change with time;

Values	Description
	however this attribute 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

Attribute Name: **ROADDIRECTIONCATEGORY**

Values	Description
BI-DIRECTIONAL(1)	Traffic can flow in either (both) directions. (WA)
ONEWAY_TOFROM(2)	Traffic can only flow in one direction (in the direction of the vector). (WA)
ONEWAY_FROMTO(3)	Traffic can only flow in one direction (in the opposite direction of the vector). (WA)
NOTAPPLICABLE(-98)	The DirectionCategory is not relevant for the particular feature.
UNKNOWN(-99)	The DirectionCategory is not known for the particular feature; however a value may be populated in the future. This is the default DirectionCategory.

Attribute Name: ROADEDGETYPE

Values	Description
KERBED (1)	A sealed road or area with raised concrete edging defining its width. (WA)
UNKERBED (2)	A sealed or unsealed road without raised concrete edging defining its width. (WA)
UNKNOWN (-99)	The ROADEDGETYPE is not known for this feature.

Attribute Name: ROADFEATURE

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

Attribute Name: ROADSTATUS

Values	Description
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.

Attribute Name: ROADSURFACE

Values	Description
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.

zAttribute Name: ROADUSAGE

Values	Description
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.

Attribute Name: SPEEDLIMIT

<i>Values</i>	<i>Description</i>
10km/hr (10)	10km/hr.
20km/hr (20)	20km/hr
30km/hr (30)	30km/hr.
40km/hr (40)	40km/hr
50km/hr (50)	50km/hr.
50km/hr_inBUA_110km/hr_out BUA (51)	50km/hr_inBUA_110km/hr_outBUA
50km/hr_40km/hr_SchoolZone (59)	50km/hr_40km/hr_SchoolZone
60km/hr (60)	60km/hr
60km/hr_40km/hr_SchoolZone (69)	60km/hr_40km/hr_SchoolZone
70km/hr (70)	70km/hr
70km/hr_40km/hr_SchoolZone (79)	70km/hr_40km/hr_SchoolZone
80km/hr (80)	80km/hr
80km/hr_40km/hr_SchoolZone (89)	80km/hr80km/hr_40km/hr_SchoolZone
90km/hr (90)	90km/hr
100km/hr (100)	100km/hr
110km/hr (110)	110km/hr
Not Applicable (-98)	The Speed Limit is not relevant for the particular feature.
Unknown (-99)	The Speed Limit is not known for the particular feature; however a value may be populated in the future.

Attribute Name: TARGETDISPLAYSCALE

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

Attribute Name: TRACKHIERARCHY

Values	Description
Driveway (3)	Access way from the road to the dwelling. (WA)
Major (1)	Tracks of significant importance. (WA)
Minor (2)	Tracks of no significant importance. (WA)
Not Applicable (-98)	The Track Hierarchy is not relevant for the particular feature. The default Track Hierarchy.
Unknown (-99)	This is an invalid attribute for Track Hierarchy.