

# Australian Hydrological Geospatial Fabric (Geofabric) Data Dictionary

Surface Network

Version 2.0 – November 2011



**Australian Government**  
**Bureau of Meteorology**



## Contact details

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## Geofabric Surface Network V2.0

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## Domains

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<a href="#"><u>AHGFCatchmentType</u></a>	Coded Value
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<a href="#"><u>EnabledDomain</u></a>	Coded Value
<a href="#"><u>HydroFlowDirections</u></a>	Coded Value

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### AHGFCatchmentType

<b>Description</b>	Surface water drainage area (terrain based).
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	Integer
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value
<b>Domain Members</b>	
<b>Name</b>	<b>Value</b>
Catchment	21

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## AHGFHierarchy

<b>Description</b>	Importance of associated water feature.
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	String
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value
<b>Domain Members</b>	
<b>Name</b>	<b>Value</b>
Major	Major
Minor	Minor
Not Applicable	Not Applicable

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## AHGFNetworkNodeType

<b>Description</b>	Node types derived from network (terrain based) streams.
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	Integer
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value
<b>Domain Members</b>	
<b>Name</b>	<b>Value</b>
NetworkJunctionNode	4
NetworkTerminusNode	5
NetworkArtificialNode	6
NetworkWaterAreaNode	7
NetworkGhostNode	8
NetworkHeadNode	9
NetworkCliffNode	10

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## AHGFNetworkStreamType

<b>Description</b>	Types of network (terrain based) stream segments.
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	Integer
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value

### Domain Members

<b>Name</b>	<b>Value</b>
NetworkFlowSegment	1
NetworkArtificialFlowSegment	2
NetworkWaterAreaSegment	3

## AHGFPernniality

<b>Description</b>	Water feature perenniality.
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	String
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value

### Domain Members

<b>Name</b>	<b>Value</b>
Perennial	Perennial
Non Perennial	Non Perennial
Not Applicable	Not Applicable

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## AHGFWaterbodyType

<b>Description</b>	Types of surface waterbodies (mapped).
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	Integer
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value
<b>Domain Members</b>	
<b>Name</b>	<b>Value</b>
Reservoir	25
Lake	26
Swamp	27

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## AHGFWaterStoreUse

<b>Description</b>	Uses of reservoir waterbodies.
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	String
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value
<b>Domain Members</b>	
<b>Name</b>	<b>Value</b>
ReservoirTownRural	ReservoirTownRural
ReservoirFloodIrrigation	ReservoirFloodIrrigation
Not Applicable	Not Applicable

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## EnabledDomain

<b>Description</b>	Flag indicating whether a feature allows flow or is blocked.
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	Small Integer
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value
<b>Domain Members</b>	
<b>Name</b>	<b>Value</b>
False	0
True	1

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## HydroFlowDirections

<b>Description</b>	Flow directions in relation to the digitised direction.
<b>Domain Type</b>	Coded Value
<b>Field Type</b>	Integer
<b>Merge Policy</b>	Default Value
<b>Split Policy</b>	Default Value
<b>Domain Members</b>	
<b>Name</b>	<b>Value</b>
Uninitialized	0
WithDigitised	1
AgainstDigitised	2
Indeterminate	3

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## ObjectClasses

ObjectClass Name	Type	Geometry	Subtype
<b>SH_Network</b>			<a href="#">SR</a>
<a href="#">AHGFCatchment</a>	Simple FeatureClass	Polygon	-
<a href="#">AHGFNetworkNode</a>	Simple FeatureClass	Point	NetworkArtificialNode NetworkCliffNode NetworkGhostNode NetworkHeadNode NetworkJunctionNode NetworkTerminusNode NetworkWaterAreaNode
<a href="#">AHGFNetworkStream</a>	Simple FeatureClass	Polyline	NetworkArtificialFlowSegment NetworkFlowSegment NetworkWaterAreaSegment
<a href="#">AHGFWaterbody</a>	Simple FeatureClass	Polygon	Lake Reservoir Swamp
<b>Stand Alone ObjectClass(s)</b>			
<a href="#">AHGFNetworkConnectivityDown</a>	Table	-	-
<a href="#">AHGFNetworkConnectivityUp</a>	Table	-	-
<a href="#">AHGFNetworkStream_FS</a>	Table	-	-

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## AHGFCatchment

<b>Alias</b>		AHGFCatchment		<b>Geometry:</b> Polygon	
<b>Dataset Type</b>		FeatureClass		<b>Average Number of Points:</b> 0	
<b>FeatureType</b>		Simple		<b>Has M:</b> No	
				<b>Has Z:</b> No	
				<b>Grid Size:</b> 1,000	
<b>Field Name</b>	<b>Alias Name</b>	<b>Model Name</b>	<b>Type</b>	<b>Length</b>	<b>Null</b>
OBJECTID	OBJECTID	OBJECTID	OID	4	No
Shape	Shape	Shape	Geometry	0	Yes
HydroID			Integer	4	No
AHGFFType	AHGFFeatureType	AHGFFType	Integer	4	No
NetNodeID	NetworkNodeID	NetNodeID	Integer	4	Yes
NCB_ID			Integer	4	No
SegmentNo			Integer	4	Yes
StreamName			String	60	Yes
HasSegment			Integer	4	Yes
ExtrnlBasn	ExternalBasin	ExtrnlBasn	Integer	4	Yes
NextDownID			Integer	4	Yes
SrcFCName	SourceFeatureClassName	SrcFCName	String	25	No
SrcFType	SourceFeatureType	SrcFType	String	32	No
SrcType	SourceType	SrcType	Integer	4	Yes
SourceID			Integer	4	Yes
FeatRel	FeatureReliability	FeatRel	Date	8	Yes
FSource	FeatureSource	Fsource	String	25	No
AttrRel	AttributeReliability	AttrRel	Date	8	Yes
AttrSource	AttributeSource	AttrSource	String	25	No
PlanAcc	PlanimetricAccuracy	PlanAcc	Small Integer	2	Yes
Symbol			Small Integer	2	Yes
TextNote			String	50	Yes
AlbersArea			Double	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	8	Yes
<b>Subtype Name</b>	<b>Default Value</b>	<b>Domain</b>			
<b>ObjectClass</b>					
AHGFFType	21	<a href="#">AHGFCatchmentType</a>			

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID
FDO_Shape	No	No	Shape
GDB_26_HydroID	Yes	No	HydroID
GDB_26_NetNodeID	Yes	No	NetNodeID

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## AHGFNetworkConnectivityDown

**Alias** AHGFNetworkConnectivityDown

**Dataset Type** Table

**FeatureType**

Field Name	Alias Name	Model Name	Type	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	4	No
From_ID			Integer	4	No
To_ID			Integer	4	No
Segment_ID			Integer	4	No

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID

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## AHGFNetworkConnectivityUp

**Alias** AHGFNetworkConnectivityUp

**Dataset Type** Table

**FeatureType**

Field Name	Alias Name	Model Name	Type	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	4	No
From_ID			Integer	4	No
To_ID			Integer	4	No
Segment_ID			Integer	4	No

Subtype Name	Default Value	Domain

Index Name	Ascending	Unique	Fields
FDO_OBJECTID	Yes	Yes	OBJECTID

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## AHGFNetworkNode

<b>Alias</b>	AHGFNetworkNode		<b>Geometry:</b> Point		
<b>Dataset Type</b>	FeatureClass		<b>Average Number of Points:</b> 0		
<b>FeatureType</b>	Simple		<b>Has M:</b> No		
			<b>Has Z:</b> No		
			<b>Grid Size:</b> 1,000		
Field Name	Alias Name	Model Name	Type	Length	Null
OBJECTID	OBJECTID	OBJECTID	OID	4	No
Shape	Shape	Shape	Geometry	0	Yes
HydroID			Integer	4	No
AHGFFType	AHGFFeatureType	AHGFFType	Integer	4	No
ConNodeID	ContractedNodeID	ConNodeID	Integer	4	Yes
ConLevel	ContractLevel	ConLevel	Small Integer	2	Yes
MapNodeID	MappedNodeID	MapNodeID	Integer	4	Yes
NextDownID			Integer	4	Yes
Enabled	Enabled	Enabled	Small Integer	2	No
UpstrGeoLn	UpstreamGeodesicLength	UpstrGeoLn	Double	8	Yes
UpstrDArea	UpstreamDrainageArea	UpstrDArea	Double	8	Yes
SrcFCName	SourceFeatureClassName	SrcFCName	String	25	No
SrcFType	SourceFeatureType	SrcFType	String	32	No
SrcType	SourceType	SrcType	Integer	4	Yes
SourceID			Integer	4	Yes
FeatRel	FeatureReliability	FeatRel	Date	8	Yes
FSource	FeatureSource	FSource	String	25	No
AttrRel	AttributeReliability	AttrRel	Date	8	Yes
AttrSource	AttributeSource	AttrSource	String	25	No
PlanAcc	PlanimetricAccuracy	PlanAcc	Small Integer	2	Yes
Symbol			Small Integer	2	Yes
TextNote			String	50	Yes
Subtype Name	Default Value	Domain			
<b>ObjectClass</b>					
AHGFFType	5	<a href="#">AHGFNetworkNodeType</a>			
Enabled		<a href="#">EnabledDomain</a>			
<b>NetworkArtificialNode (AHGFFType=6)</b>					
AHGFFType	6	<a href="#">AHGFNetworkNodeType</a>			
Enabled		<a href="#">EnabledDomain</a>			
<b>NetworkCliffNode (AHGFFType=10)</b>					
AHGFFType	10	<a href="#">AHGFNetworkNodeType</a>			
Enabled		<a href="#">EnabledDomain</a>			

<b>NetworkGhostNode (AHGFFType=8)</b>			
AHGFFType	8		<a href="#">AHGFNetworkNodeType</a>
Enabled			<a href="#">EnabledDomain</a>
<b>NetworkHeadNode (AHGFFType=9)</b>			
AHGFFType	9		<a href="#">AHGFNetworkNodeType</a>
Enabled			<a href="#">EnabledDomain</a>
<b>NetworkJunctionNode (AHGFFType=4)</b>			
AHGFFType	4		<a href="#">AHGFNetworkNodeType</a>
Enabled			<a href="#">EnabledDomain</a>
<b>NetworkTerminusNode (AHGFFType=5) [Default]</b>			
AHGFFType	5		<a href="#">AHGFNetworkNodeType</a>
Enabled			<a href="#">EnabledDomain</a>
<b>NetworkWaterAreaNode (AHGFFType=7)</b>			
AHGFFType	7		<a href="#">AHGFNetworkNodeType</a>
Enabled			<a href="#">EnabledDomain</a>
<b>Index Name</b>	<b>Ascending</b>	<b>Unique</b>	<b>Fields</b>
FDO_OBJECTID	Yes	Yes	OBJECTID
FDO_Shape	No	No	Shape
GDB_24_HydroID	Yes	No	HydroID

## AHGFNetworkStream

<b>Alias</b>		AHGFNetworkStream		<b>Geometry:</b> Polyline	
<b>Dataset Type</b>		FeatureClass		<b>Average Number of Points:</b> 0	
<b>FeatureType</b>		Simple		<b>Has M:</b> No	
				<b>Has Z:</b> No	
				<b>Grid Size:</b> 1,000	
<b>Field Name</b>	<b>Alias Name</b>	<b>Model Name</b>	<b>Type</b>	<b>Length</b>	<b>Null</b>
OBJECTID	OBJECTID	OBJECTID	OID	4	No
Shape	Shape	Shape	Geometry	0	Yes
HydroID			Integer	4	No
AHGFFType	AHGFFeatureType	AHGFFType	Integer	4	No
Name			String	60	Yes
Hierarchy	Hierarchy	Hierarchy	String	255	No
Perennial	Perenniality	Perennial	String	255	No
AusHydroID			Integer	4	Yes
AusHydroEr	AusHydroIDError	AusHydroEr	Small Integer	2	Yes
SegmentNo			Integer	4	Yes
DrainID			Integer	4	Yes
From_Node			Integer	4	Yes
To_Node			Integer	4	Yes
NextDownID			Integer	4	Yes
Enabled	Enabled	Enabled	Small Integer	2	No
FlowDir	FlowDir	FlowDir	Integer	4	No
SrcFCName	SourceFeatureClassName	SrcFCName	String	25	No
SrcFType	SourceFeatureType	SrcFType	String	32	No
SrcType	SourceType	SrcType	Integer	4	Yes
SourceID			Integer	4	Yes
FeatRel	FeatureReliability	FeatRel	Date	8	Yes
FSource	FeatureSource	FSource	String	25	No
AttrRel	AttributeReliability	AttrRel	Date	8	Yes
AttrSource	AttributeSource	AttrSource	String	25	No
PlanAcc	PlanimetricAccuracy	PlanAcc	Small Integer	2	Yes
Symbol			Small Integer	2	Yes
TextNote			String	50	Yes
GeodesLen	GeodesicLength	GeodesLen	Double	8	Yes
UpstrGeoLn	UpstreamGeodesicLength	UpstrGeoLn	Double	8	Yes
UpstrDArea	UpstreamDrainageArea	UpstrDArea	Double	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	8	Yes

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Subtype Name	Default Value	Domain	
<b>ObjectClass</b>			
AHGFFType	1	<a href="#">AHGFNetworkStreamType</a>	
Hierarchy		<a href="#">AHGFHierarchy</a>	
Perennial		<a href="#">AHGFPerenniality</a>	
Enabled		<a href="#">EnabledDomain</a>	
FlowDir		<a href="#">HydroFlowDirections</a>	
<b>NetworkArtificialFlowSegment (AHGFFType=2)</b>			
AHGFFType	2	<a href="#">AHGFNetworkStreamType</a>	
Enabled		<a href="#">EnabledDomain</a>	
FlowDir		<a href="#">HydroFlowDirections</a>	
Hierarchy		<a href="#">AHGFHierarchy</a>	
Perennial		<a href="#">AHGFPerenniality</a>	
<b>NetworkFlowSegment (AHGFFType=1) [Default]</b>			
AHGFFType	1	<a href="#">AHGFNetworkStreamType</a>	
Enabled		<a href="#">EnabledDomain</a>	
FlowDir		<a href="#">HydroFlowDirections</a>	
Hierarchy		<a href="#">AHGFHierarchy</a>	
Perennial		<a href="#">AHGFPerenniality</a>	
<b>NetworkWaterAreaSegment (AHGFFType=3)</b>			
AHGFFType	3	<a href="#">AHGFNetworkStreamType</a>	
Enabled		<a href="#">EnabledDomain</a>	
FlowDir		<a href="#">HydroFlowDirections</a>	
Hierarchy		<a href="#">AHGFHierarchy</a>	
Perennial		<a href="#">AHGFPerenniality</a>	
<b>Index Name</b>			
<b>Ascending</b>		<b>Unique</b>	
<b>Fields</b>			
FDO_OBJECTID	Yes	Yes	OBJECTID
FDO_Shape	No	No	Shape
GDB_23_DrainID	Yes	No	DrainID

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## AHGFNetworkStream\_FS

<b>Alias</b>	AHGFNetworkStream_FS				
<b>Dataset Type</b>	Table				
<b>FeatureType</b>					
<b>Field Name</b>	<b>Alias Name</b>	<b>Model Name</b>	<b>Type</b>	<b>Length</b>	<b>Null</b>
OBJECTID	OBJECTID	OBJECTID	OID	4	No
FeatureID			Integer	4	Yes
NextDownID			Integer	4	Yes
<b>Subtype Name</b>	<b>Default Value</b>		<b>Domain</b>		
<b>Index Name</b>	<b>Ascending</b>	<b>Unique</b>	<b>Fields</b>		
FDO_OBJECTID	Yes	Yes	OBJECTID		

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## AHGFWaterbody

<b>Alias</b>		AHGFWaterbody		<b>Geometry:</b> Polygon	
<b>Dataset Type</b>		FeatureClass		<b>Average Number of Points:</b> 0	
<b>FeatureType</b>		Simple		<b>Has M:</b> No	
				<b>Has Z:</b> No	
				<b>Grid Size:</b> 1,000	
<b>Field Name</b>	<b>Alias Name</b>	<b>Model Name</b>	<b>Type</b>	<b>Length</b>	<b>Null</b>
OBJECTID	OBJECTID	OBJECTID	OID	4	No
Shape	Shape	Shape	Geometry	0	Yes
HydroID			Integer	4	No
AHGFFType	AHGFFeatureType	AHGFFType	Integer	4	No
Name			String	60	Yes
Perennial	Perenniality	Perennial	String	255	No
NetNodeID	NetworkNodeID	NetNodeID	Integer	4	Yes
MapNodeID	MappedNodeID	MapNodeID	Integer	4	Yes
WStoreUse	WaterStoreUse	WstoreUse	String	30	Yes
SLAKE_Name			String	60	Yes
SLAKE_Syst	SLAKE_System	SLAKE_Syst	String	60	Yes
SLAKE_URN			String	100	Yes
SrcFCName	SourceFeatureClassName	SrcFCName	String	25	No
SrcFType	SourceFeatureType	SrcFType	String	32	No
SrcType	SourceType	SrcType	Integer	4	Yes
SourceID			Integer	4	Yes
FeatRel	FeatureReliability	FeatRel	Date	8	Yes
Fsource	FeatureSource	Fsource	String	25	No
AttrRel	AttributeReliability	AttrRel	Date	8	Yes
AttrSource	AttributeSource	AttrSource	String	25	No
PlanAcc	PlanimetricAccuracy	PlanAcc	Small Integer	2	Yes
Symbol			Small Integer	2	Yes
TextNote			String	50	Yes
AlbersArea			Double	8	Yes
Shape_Length	Shape_Length	Shape_Length	Double	8	Yes
Shape_Area	Shape_Area	Shape_Area	Double	8	Yes

Subtype Name	Default Value	Domain	
<b>ObjectClass</b>			
AHGFFType	25	<a href="#">AHGFWaterbodyType</a>	
Perennial		<a href="#">AHGFPerenniality</a>	
WStoreUse		<a href="#">AHGFWaterStoreUse</a>	
<b>Lake (AHGFFType=26)</b>			
AHGFFType	26	<a href="#">AHGFWaterbodyType</a>	
Perennial		<a href="#">AHGFPerenniality</a>	
WStoreUse	Not Applicable	<a href="#">AHGFWaterStoreUse</a>	
<b>Reservoir (AHGFFType=25) [Default]</b>			
AHGFFType	25	<a href="#">AHGFWaterbodyType</a>	
Perennial		<a href="#">AHGFPerenniality</a>	
WStoreUse	ReservoirTownRural	<a href="#">AHGFWaterStoreUse</a>	
<b>Swamp (AHGFFType=27)</b>			
AHGFFType	27	<a href="#">AHGFWaterbodyType</a>	
Perennial		<a href="#">AHGFPerenniality</a>	
WStoreUse	Not Applicable	<a href="#">AHGFWaterStoreUse</a>	
<b>Index Name                      Ascending                      Unique                      Fields</b>			
FDO_OBJECTID	Yes	Yes	OBJECTID
FDO_Shape	No	No	Shape
GDB_25_NetNodeID	Yes	No	NetNodeID

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## Relationships

Name	Origin	Destination	Attributed	Composite	Rules
<a href="#">CatchmentDrainsToSegment</a>	AHGFCatchment	AHGFNetworkStream	No	No	No
<a href="#">NetNodeDrainsCatchment</a>	AHGFNetworkNode	AHGFCatchment	No	No	No
<a href="#">NetNodeDrainsWaterbody</a>	AHGFNetworkNode	AHGFWaterbody	No	No	No

### CatchmentDrainsToSegment

<b>Composite</b>	No	
<b>Cardinality</b>	One To Many	
<b>Notification</b>	None	
<b>Attributed</b>	No	
	<b>Origin</b>	<b>Destination</b>
<b>ObjectClass</b>	AHGFCatchment	AHGFNetworkStream
<b>Key</b>	HydroID ( <i>Origin Primary Key</i> )	DrainID ( <i>Origin Foreign Key</i> )
<b>Labels</b>	drains	Is drained by

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### NetNodeDrainsCatchment

<b>Composite</b>	No	
<b>Cardinality</b>	One To Many	
<b>Notification</b>	None	
<b>Attributed</b>	No	
	<b>Origin</b>	<b>Destination</b>
<b>ObjectClass</b>	AHGFNetworkNode	AHGFCatchment
<b>Key</b>	HydroID ( <i>Origin Primary Key</i> )	NetNodeID ( <i>Origin Foreign Key</i> )
<b>Labels</b>	is drained by	drains

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### NetNodeDrainsWaterbody

<b>Composite</b>	No	
<b>Cardinality</b>	One To Many	
<b>Notification</b>	None	
<b>Attributed</b>	No	
	<b>Origin</b>	<b>Destination</b>
<b>ObjectClass</b>	AHGFNetworkNode	AHGFWaterbody
<b>Key</b>	HydroID ( <i>Origin Primary Key</i> )	NetNodeID ( <i>Origin Foreign Key</i> )
<b>Labels</b>	is drained by	drains

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## Spatial references

Dimension	Minimum	Precision
<b>SH_Network</b>		
<b>X</b>	-400	1,000,000,000
<b>Y</b>	-400	
<b>M</b>	0	100,000
<b>Z</b>	0	100,000
<b>Coordinate System Description</b> GEOGCS["GCS_GDA_1994", DATUM["D_GDA_1994", SPHEROID["GRS_1980",6378137.0,298.257222101]], PRIMEM["Greenwich",0.0], UNIT["Degree",0.0174532925199433], AUTHORITY["EPSG",4283]]		

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