

# Other National Designation Area Spatial Data Standard

3/20/2009



## OTHER NATIONAL DESIGNATIONS

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## GENERAL INFORMATION

Data Set Name: Other National Designations

Data Set Abbreviation: OND

### RESPONSIBILITIES

State Data Steward – The State Data Steward approves data standards and business rules for data themes they are responsible for, developing quality assurance/quality control procedures, and ensuring that data is managed as a corporate resource. The State Data Steward coordinates with field office data stewards, the State Data Administrator, Geographic Information System (GIS) Coordinators, and national data stewards. The State Data Steward reviews geospatial metadata for completeness and quality (go to <http://web.or.blm.gov/datamanagement/stewardship/orwa.asp> for a current list of State Data Stewards).

Lead GIS Specialist – The Lead GIS Specialist works with data stewards to interpret business needs into GIS applications and derive data requirements and participates in the development of data standards. The GIS specialist coordinates with System Administrators and GIS Coordinators to manage the GIS databases. The lead GIS Specialist is identified in the Instruction Memorandum that issues this standard.

State Data Administrator – The State Data Administrator provides information management leadership, data modeling expertise, and custodianship of the state data models. The State Data Administrator ensures that defined processes for development of data standards and metadata are followed and that they are consistent and complete. The State Data Administrator is responsible for making data standards and metadata accessible to all users. The data administrator coordinates with data stewards and GIS coordinators to respond to national spatial data requests.

State Records Administrator – The State Records Administrator is responsible for identifying any privacy issues related to spatial data. The records administrator also provides direction and guidance on data release and fees. The State Records Administrator assures that data has been classified under the proper records retention schedule and determines the appropriate Freedom of Information Act category.

### FOIA CATEGORY

Public

### RECORDS RETENTION SCHEDULE

BLM/GRS 20/52c PERMANENT record. Cutoff at the end of the fiscal year (EOFY) in which the layer/data is created or significantly altered by the Bureau of Land Management (BLM). Transfer copy of data to the National Archives and Records Administration at the EOFY.

### SECURITY/ACCESS/SENSITIVITY

The Other National Designation Area (OND) set of themes do not require any additional security other than that provided by the General Support System (the hardware/software infrastructure of the Oregon/Washington ((OR/WA)) BLM).

This data is not sensitive and there are no restrictions on access to this data either from within the BLM or external to the BLM.

There are no privacy issues or concerns associated with these data themes. Privacy Impact Assessment is on file.

## DATA SET OVERVIEW

### DESCRIPTION

This Other National Designation Area data standard contains requirements for National Designation Area boundary polygons and lines that are not included in other datasets. These are areas designated by an Act of Congress, a Presidential Executive Order or an Order of the Secretary of the Interior and are administered in accordance with provisions of the enabling legislation and/or Orders. Some areas in this dataset are part of the National Landscape Conservation System (National Monuments, Cooperative Management and Planning Areas, Outstanding Natural Areas) and some are not. Areas established through the normal land use planning process (even if they are the same type of area) are not included in this dataset.

### USAGE

OND is used in Environmental Assessment and Impact Statements as part of the National Environmental Policy Act analysis of alternatives.

### SPONSOR/AFFECTED PARTIES

The sponsor for this data set is the Deputy State Director, Resource Planning, Use and Protection. OND is not specific to BLM. Matching interagency data across the landscape is not necessary. Our non-governmental partners and the general public are affected to the extent that OND is part of the Resource Management Plans (RMP) that determines management on BLM lands. Implementation of an RMP may preclude certain activities in certain areas either because the enabling legislation/Executive Order prohibits them or because of potential impact to the National Designation Area.

### DATA CATEGORY/ARCHITECTURE LINK

These data themes are a portion of the Oregon Data Framework (ODF). The ODF utilizes the concept of inheritance to define specific instances of data. The ODF divides all OR/WA resource-related data into three general categories: Activities, Resources, and Boundaries. These general categories are broken into sub-categories that inherit spatial characteristics and attributes from their parent category. These sub-categories may be further broken into more specific groups until you get to a basic data set that cannot be further sub-divided. Those basic data sets inherit all characteristics of all groups/categories above them. The basic data sets are where physical data gets populated (those groups/categories above them do not contain actual data but set parameters that all data of that type must follow).

See the [Oregon Data Framework Overview](#) section for a simplified schematic of the entire ODF showing the overall organization and entity inheritance. The Wilderness entities are highlighted. A PDF version (which is more readable) can be found at: <http://web.or.blm.gov/datamanagement/standards/ModelMini-OND.pdf>. For additional information and a link to the entire Oregon Data Framework, see: <http://web.or.blm.gov/datamanagement/architecture/datadesign.asp>.

### OTHER NATIONAL DESIGNATION DATA ORGANIZATION / STRUCTURE

For OND there are two paths, one for the polygon features and one for the line (arc) features.

OND Polygon:

Oregon Data Framework

Boundaries

Political and Administrative

Political and Administrative Existing

OND\_POLY

OND Line:

Oregon Data Framework

Boundaries

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Political/Administrative/Special Management Area Line

OND\_ARC

RELATIONSHIP TO THE DEPARTMENT OF THE INTERIOR ENTERPRISE ARCHITECTURE – DATA RESOURCE MODEL

The Department of the Interior's (DOI) Enterprise Architecture contains a component called the Data Resource Model. This model addresses the concepts of Data Sharing, Data Description, and Data Context. This data standard provides information needed to address each of those areas. Data sharing is addressed through complete documentation and simple data structures which make sharing easier. Data description is addressed through the section on Attribute Descriptions. Data context is addressed through the data organization and structure portions of this document. In addition, the DOI Data Resource Model categorizes data by use of standardized Data Subject Areas and Information Classes. For this data set, these are as follows:

Data Subject Area: Geospatial

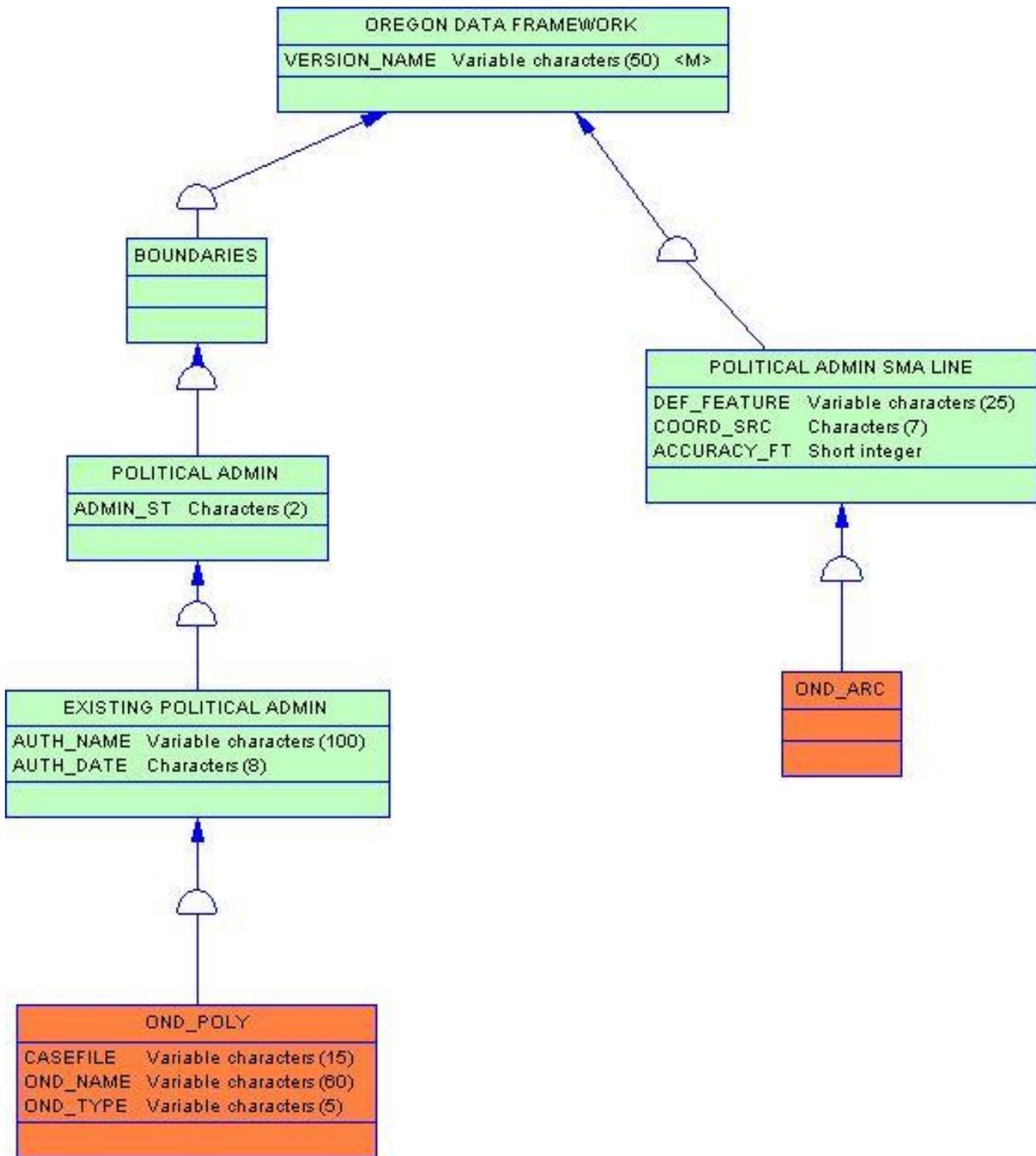
Information Class: Location

A complete list of all DOI Data Subject Areas and Information Classes can be found at:

[http://www.doi.gov/ocio/architecture/documents/core/rpt-DOI\\_DRM\\_2.html](http://www.doi.gov/ocio/architecture/documents/core/rpt-DOI_DRM_2.html)

[Non-Dept. of the Interior personnel may request a copy from the OR/WA State Data Administrator, Bureau of Land Management, P.O. Box 2965, Portland, OR 97208]

DATA ORGANIZATION GRAPHIC



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## DATA MANAGEMENT PROTOCOLS

### ACCURACY REQUIREMENTS

Political and Administrative boundary themes (Other National Designation Area is a boundary theme) often require a higher level of accuracy than other themes. This is because those boundaries often divide very different management and regulation. Some boundaries can by their nature or definition be accurately located and others cannot. Boundary perimeter lines must be defined and segmented accordingly. Individual boundary segment attributes (Feature Level Metadata) provide the information needed to answer questions about why a boundary line is where it is and how accurately it is located. These theme groups therefore require feature class pairs (feature datasets), polygons for the area and lines for the perimeter. A high level of positional and attribute accuracy is required for the OND theme and features are input and maintained with the highest level of accuracy possible short of surveying.

### COLLECTION AND INPUT PROTOCOLS

Boundaries are captured in GIS using legal references and the most accurate GIS themes available (Geographic Coordinate Database for parcel segments; 24k Digital Line Graphs for roads; Global Positioning System (GPS) Coordinates; Digital Raster Graphic backdrop for heads-up digitizing of contours, fences and power lines and Digital Orthophoto Quad backdrop for disturbances like mine areas).

The line feature class pair for OND polygons is required, but existing OND data for OR/WA Districts will be loaded into Spatial Data Engine without populating the attributes. Future OND capture will require populating the line attributes.

### MAINTENANCE PROTOCOLS

Once the OND theme has been created, it is the responsibility of the State Data Steward to ensure that it remains current. It is the responsibility of the District Data Stewards and GIS Coordinators to keep the State Data Steward apprised of improvements to the GIS source data and to assist with updates. Proposed changes will be provided to the State Data Steward and Lead GIS Specialist for inclusion in the theme.

### UPDATE TRANSACTIONS

The unit of processing for updating the OND theme is the State.

### UPDATE FREQUENCY

Except for minor corrections, OND changes only through new or amended legislation or with the acquisition of inholdings.

It is also the responsibility of the Data Steward to ensure that any database external to the GIS remains current. The district GIS Coordinator will approve update processes and provide assistance and oversight. At this time there are no digital databases associated with OND, but this responsibility extends to paper records. Reports or tables containing OND acreages must be checked against the GIS acres and, ideally, should come directly from the GIS which supplied the official OND acres for the relevant legislation.

### STATEWIDE MONITORING

Regular review of the OND theme is not needed since there will be close review at the time of any change.

GEODATABASE SCHEMA (simplified)

General Information: Attributes are listed in the order they appear in the geodatabase feature class. The order is an indication of the importance of the attribute for theme definition and use. There are no aliases unless specifically noted. Spreadsheets for the domains are found at: <http://web.or.blm.gov/datamanagement/metadata/domains.asp>

Other\_National\_Designation\_Area Data Set includes:

## OND\_POLY (Other National Designation Area Polygons)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
OND_NAME	String	60		Yes	
OND_TYPE	String	5		Yes	dom_OND_TYPE
CASEFILE	String	15			
AUTH_NAME	String	100			
AUTH_DATE	String	8			
ADMIN_ST	String	2	OR		dom_ADMIN_ST
VERSION_NAME	String	50	InitialLoad	Yes	

## OND\_ARC (Other National Designation Area Lines)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
DEF_FEATURE	String	25		Yes	dom_DEF_FEATURE
COORD_SRC	String	7		Yes	dom_COORD_SRC
ACCURACY_FT	Short Integer				
VERSION_NAME	String	50	InitialLoad	Yes	

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**PROJECTION AND SPATIAL EXTENT**

All feature classes and feature datasets are in Geographic, NAD83. Units are decimal degrees. Spatial extent (area of coverage) includes all lands managed by the BLM in the states of Oregon and Washington. See the metadata for this data set for more precise description of the extent.

**SPATIAL ENTITY CHARACTERISTICS****OTHER NATIONAL DESIGNATION AREA POLYGON (OND\_POLY)**

Description: Instance of Political and Administrative Existing group.

Geometry: Polygons cover a small percentage of BLM lands. There should be no overlap between adjacent areas.

Topology: Yes. OND\_POLY lines are coincident with OND\_ARC lines and together make the feature dataset, OND.

Integration Requirements: None

**OTHER NATIONAL DESIGNATION LINE (OND\_ARC)**

Description: Instance of Political Admin SMA Line group. Lines making up the area perimeters of OND\_POLY and segmented as needed to indicate a change in either what defines the section of boundary and/or the source of the actual GIS coordinates.

Geometry: Simple, non-overlapping lines that are split between endpoints as needed.

Topology: Yes. OND\_POLY lines are coincident with OND\_ARC lines and together make the feature dataset, OND

Integration Requirements: Line segments must be coincident with the source data indicated by attributes DEF\_FEATURE and COORD\_SRC either through duplication or snapping.

**ATTRIBUTE CHARACTERISTICS AND DEFINITIONS**

(in alphabetical order)

ACCURACY\_FT

<i>Geodatabase Name</i>	ACCURACY_FT
<i>BLM Structured Name</i>	ACCURACY_FEET_MEASURE
<i>Notes</i>	Inherited from Entity POLITICAL ADMIN SMA LINE
	Used in Feature Classes: OND_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Short integer
<i>Length</i>	

Description

[Optional]

How close, in feet, the spatial GIS depiction is to the actual location on the ground. There are several factors to consider in GIS error: scale and accuracy of map-based sources, accuracy of GPS equipment, and the skill level of the data manipulators. A value of '0' indicates no entry was made. This is the correct value when the COORD\_SRC is another GIS theme (DLG, GCD, Digital Elevation Model) because the accuracy is determined by that theme. If COORD\_SRC is MAP or GPS, however, a value of '0' indicates a missing value that should be filled in either with a non-zero number or '-1'. A value of '-1' indicates that the accuracy is unknown and no reliable estimate can be made.

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ADMIN\_ST

<i>Geodatabase Name</i>	ADMIN_ST
<i>BLM Structured Name</i>	ADMINISTRATIVE_STATE_CODE
<i>Notes</i>	Inherited from Entity POLITICAL ADMIN POLY.
	Used in Feature Class: OND_POLY
<i>Domain</i>	dom_ADMIN_ST
<i>Data Type</i>	Characters (2)
<i>Length</i>	2

Description

[Required]

The two-character abbreviation for the State with administrative responsibilities. Some BLM State Offices have administrative responsibilities for more than one State. For instance, the administrative state of Oregon is responsible for both Oregon and Washington.

e.g. OR=Oregon, ID=Idaho, NV=Nevada

Codes are from:

[http://ilmniop3ap6/DataShopper/ENT\\_ELEM\\_detail.asp?tid=100118&entnm=ENT+ELEM&eid=734269079&name=STATE+UNITED+STATES+ALPHABETIC+CODE](http://ilmniop3ap6/DataShopper/ENT_ELEM_detail.asp?tid=100118&entnm=ENT+ELEM&eid=734269079&name=STATE+UNITED+STATES+ALPHABETIC+CODE)

AUTH\_DATE

<i>Geodatabase Name</i>	AUTH_DATE
<i>BLM Structured Name</i>	AUTHORITY_DATE
<i>Notes</i>	Inherited from entity POLITICAL ADMIN EXISTING
	Used in feature class: OND_POLY
<i>Domain</i>	<None>
<i>Data Type</i>	Characters (8)
<i>Length</i>	8

Description

[Optional]

Date the area was legally established (YYYYMMDD) It is allowable to enter only YEAR or YEAR and MONTH.

AUTH\_NAME

<i>Geodatabase Name</i>	AUTH_NAME
<i>BLM Structured Name</i>	AUTHORITY_TEXT
<i>Notes</i>	Inherited from entity POLITICAL ADMIN EXISTING
	Used in feature class: OND_POLY
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (100)
<i>Length</i>	100

Description

[Optional]

Public Law or Order that established the designation.

Examples: Presidential Proclamation 7318, Cascade-Siskiyou National Monument; Steens Mountain Cooperative Management and Protection Act of 2000, Public Law 106-399

CASEFILE

<i>Geodatabase Name</i>	CASEFILE
<i>BLM Structured Name</i>	CASEFILE_NUMBER
<i>Notes</i>	Not inherited.
	Used in feature class: OND_POLY
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (15)
<i>Length</i>	15

Description

[Required]

The serialized case file number for each designated area. This field should be in uppercase. For example: OR-19189. Inholding polygons should not be given a casefile number.

COORD\_SRC

<i>Geodatabase Name</i>	COORD_SRC
<i>BLM Structured Name</i>	COORDINATE_SOURCE_CODE
<i>Notes</i>	Inherited from Entity POLITICAL ADMIN SMA LINE
	Domain is a subset of Coordinate Source Code domain common to all Political Admin SMA lines.
	Used in Feature Classes: OND_ARC
<i>Domain</i>	dom_COORD_SRC
<i>Data Type</i>	Characters (7)
<i>Length</i>	7

Description

[Required]

The actual source of the GIS coordinates for the line segments.

Examples: DLG, GCD, SOURCEL

DEF\_FEATURE

<i>Geodatabase Name</i>	DEF_FEATURE
<i>BLM Structured Name</i>	DEFINING_FEATURE_CODE
<i>Notes</i>	Inherited from Entity POLITICAL ADMIN SMA LINE
	Domain is a subset of Defining Feature Code domain common to all Political Admin SMA lines.
	Used in Feature Classes: OND_ARC
<i>Domain</i>	dom_DEF_FEATURE
<i>Data Type</i>	Variable characters (25)
<i>Length</i>	25

Description

[Required]

Physical feature that forms the boundary.

Examples: SUBDIVISION, RIGHT-OF-WAY, WATERCOURSE, SHORELINE, NLCS BOUNDARY

OND\_NAME

<i>Geodatabase Name</i>	OND_NAME
<i>BLM Structured Name</i>	OTHER_NATIONAL_DESIGNATION_AREA_NAME
<i>Notes</i>	Not inherited
	Used in Feature Class: OND_POLY
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (60)
<i>Length</i>	60

Description

[Required]

This value refers to the official name of the National Designation Area. It may contain spaces, plus a combination of upper and lowercase alpha characters. For example, Cascade-Siskiyou National Monument. Inholding polygons should be labeled "inholding".

OND\_TYPE

<i>Geodatabase Name</i>	OND_TYPE
<i>BLM Structured Name</i>	OTHER_NATIONAL_DESIGNATION_TYPE_CODE
<i>Notes</i>	Not inherited
	Used in Feature Class: OND_POLY
<i>Domain</i>	dom_OND_TYPE
<i>Data Type</i>	Variable characters (5)
<i>Length</i>	5

Description

[Required]

The type of national designation the area represents. These are either Congressional or Presidential designations. Coded domain with values like: LONA (Legislated Outstanding Natural Area); NM (National Monument); CMPA (Cooperative Management and Protection Area); LCMA (Legislated Cooperative Management Area); LSC (Legislated Scenic Corridor); WPA (Watershed Protection Area).

Areas (such as Cooperative Management Areas, Outstanding Natural Areas, Scenic Corridors) that are established through the land use planning process are not in this dataset. This dataset only contains those areas established by an Act of Congress, Executive Order, or Secretarial Order.

VERSION\_NAME

<i>Geodatabase Name</i>	VERSION_NAME
<i>BLM Structured Name</i>	VERSION_NAME
<i>Notes</i>	<p>Only appears in the transactional (edit) version. Public version (which is also the version used internally for mapping or analysis) does not contain this attribute.</p> <p>Used in Feature Classes:  OND_POLY  OND_ARC</p>
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (50)
<i>Length</i>	50

Description

[Required] (automatically generated)

Name of the corporate geodatabase version previously used to edit the record.

InitialLoad = feature has not been edited in ArcSDE.

Format: username.XXX-mmddyy-hhmmss = version name of last edit (hours might be a single digit; leading zeros are trimmed for hours only). XXX=theme abbreviation.

Note: This attribute only appears in the edit (transactional) version of the data.

**ASSOCIATED FILES OR DATABASES**

There are no external files or databases currently associated with the OND data sets.

**PUBLICATION FEATURE CLASSES**

Publication feature classes will be created through scripts that can be automatically executed. These feature classes, since they are derivative products, are not master corporate data and can be easily rebuilt whenever necessary. Publication feature classes may be added in the future without documenting them in this document.

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## **EDITING PROCEDURES**

### Cluster Tolerance

The topology cluster tolerance of 0.000002 degrees

### Topology Rules

1. Adjacent polygons must not overlap
2. Polygon boundaries in the OND\_POLY feature class must be covered by lines in the OND\_ARC feature class.
3. Line features must not have dangles
4. Line features must not intersect, self-overlap, or overlap adjacent lines

### Allowed Exceptions

There are no allowed exceptions for the OND editing group.

### Reference Themes and Tables

### Editing Symbology

For this Edit group, there are no Symbology standards at this time.

### Editing Workflow

### Snapping Guidelines

#### Ranks

Feature classes listed in order of reliability: OND\_ARC, OND\_POLY

#### Tolerances

### "Do's and Don'ts"

### QC Checklist



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**ABBREVIATIONS AND ACRONYMS USED IN THIS STANDARD**

(does not include abbreviations/acronyms used as codes for particular data attributes)

BLM - Bureau of Land Management  
DEM - Digital Elevation Model  
DLG - Digital Line Graphs  
FOIA - Freedom of Information Act  
GIS - Geographic Information System  
GPS – Global Positioning System  
IDP - Interdisciplinary  
NAD - North American Datum  
NARA - National Archives and Records Administration  
ODF - Oregon Data Framework  
OND - Other National Designation  
OR/WA - Oregon / Washington  
RMP - Resource Management Plan  
RMPA - Resource Management Plan Amendment  
ROD - Record of Decision  
SDE - Spatial Data Engine