



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Oregon State Office

P.O. Box 2965

Portland, Oregon 97208



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December 17, 2010

EMS TRANSMISSION 12/17/2010

Information Bulletin No. OR-2011-018

To: DMs, DSDs, Staff and Branch Chiefs

From: Oregon/Washington Chief Information Officer

Subject: Review Draft – Easements and Rights-of-Way Spatial Data DD: 1/14/2011
Standard Revision

Attached for your review is a DRAFT revision of the spatial data standard for Easements and Rights-of-Way. The major changes made to the standard are contained in Attachment 1. Attachment 2 is a crosswalk of the geodatabase structure from the existing standard to this new proposed standard. The revised data standard is contained in Attachment 3.

Any questions or comments about this draft can be directed either to Stan Frazier, at 503-808-6009, Pamela Chappel, State Data Steward for Easements/Rights-of-Way, at 503-808-6170, or Pamela Keller, Geographic Information Specialist, at 541-573-4486.

A draft geodatabase for your review can be found at: \\blm\dfs\or\egis\gisdata\Transfer

Districts with Unions are reminded to notify their unions of this information bulletin and satisfy any bargaining obligations before implementation. Your servicing Human Resources Office or Labor Relations Specialist can provide you with assistance in this matter.

Signed by
Lloyd Gilham
Oregon/Washington Chief Information Officer

Authenticated by
Rita Wallberg
Records Section

Attachments

- 1 – Easements and Rights-of-Way Major Revisions (2 pp)
- 2 – ESMTROW Proposed Crosswalk Schema (4 pp)
- 3 – Easements and Rights-of-Way Draft Data Standard Revision (34 pp)

Distribution

OC-530 (Chatfield)

EASEMENTS AND RIGHTS-OF-WAY (ESMTROW)

Data Standard Revision Major Changes

Document Section	Change Made	Reason for Change
Accuracy Requirements	Clarification of accuracy statement. Statement added stating that attributes are to be at least 90% accurate.	Data gov rules requiring data accuracy statements.
Update & Collection Protocols	Clarified wording. Added statement about retaining CLOSED cases in the _P feature classes.	Concern expressed from districts that they often know that an area where a case was closed may have new applications filed. This saves the effort of re-creating the case geometry.
Update Frequency	Wording changed to indicate a requirement to update dataset on a quarterly basis.	Data steward wants more assurance that the corporate data is current and up-to-date.
Geodatabase Schema	<p>A. Made AUTH_USE required. Added attributes GRANTOR_NM and COORD_SRC. Added domain JURISCODE to GRANTOR attribute. Removed domain CASETP from attribute CASETP.</p> <p>B. CASETP attribute added to the _P feature classes. STATUS_P changed to STATUS_ESMTROW and domain values changed.</p>	<p>A. It was found that making maps from corporate data was difficult if AUTH_USE was not filled in. GRANTOR_NM added to be consistent with RGT_HOLDER_NM. JURISCODE domain added to GRANTOR to be consistent with RGT_HOLDER. The CASETP domain was removed because people are just as likely to pick the wrong case type from a domain list as they are to type in the wrong number.</p> <p>B. Making of certain maps was difficult without CASETP as an attribute for the _P feature classes. District input indicated the STATUS options for ESMTROW are different than those found in other datasets. The options also needed to be simplified.</p>
Attribute: ACCESS_ESMTROW	Added domain values.	Additions were primarily to meet the needs of the Western Oregon reciprocal ROW program.

Attribute: AUTH_USE	Changed attribute to REQUIRED. Added wording to indicate that this attribute applies to both authorized and proposed cases. Domain values added.	Wording was unclear as to whether it applied to Proposed cases. Districts identified additional uses that are authorized by easements and ROWs.
Attribute: CASETP	Definition expanded to more clearly define what a case type is and how the numbers are constructed.	Districts comment that the wording was unclear.
Attribute: ESMTROW_FTR	Domain values added.	A companion to the changes in domain made for AUTH_USE.
Attribute: ESMTROW_NM	Examples added to the definition.	No examples were given in the original data standard.
Attribute: ESMTROW_TP	Some additional definition given for the domain values.	Districts stated that it was not clear what these each meant. Also need to note that RECP (reciprocal ROW) occurs only in Western Oregon.
Attribute: GRANTOR	Wording changed to make this attribute similar to RGT HOLDER.	District comments that this attribute (and GRANTOR_NM) should be similar to RGT HOLDER and RGT HOLDER_NM.
Attribute: GRANTOR_NM	Attribute added to make GRANTOR / GRANTOR_NM similar to RGT HOLDER / RGT HOLDER_NM.	See above.
Attribute: STATUS_ESMTROW	Domain simplified.	Field office comments on confusing over what the domain values meant.
Layer Files	GRANTOR_NM added to list of attributes removed from the dataset prior to publishing to the web.	To be consistent with RGT HOLDER_NM.

PROPOSED CROSSWALK OF ESMTROW SCHEMA

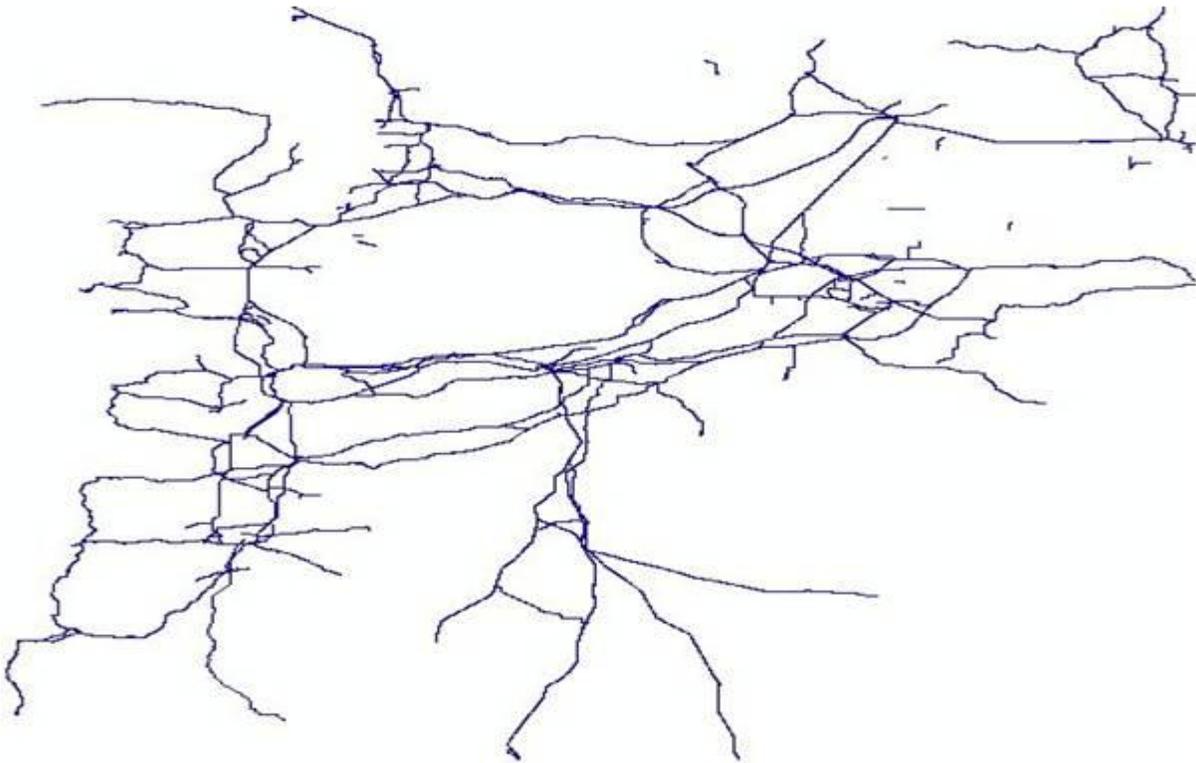
Current attribute and domain assignments (if applicable)	Proposed attribute and domain assignments and modifications (if applicable)
ACCESS_ESMTROW	ACCESS_ESMTROW
<i>New domain code values added - existing attribute values transferred intact</i>	
ADMIN - Access only for BLM administrative purposes	ADMIN - Access only for BLM administrative purposes
PUBLIC - Public access	PUBLIC - Public access
	PRIVATE - Private or corporation access only
	OTH_AGENCY - Access is for a non-BLM agency
	UNKNOWN - Access is unknown or information not needed or desired
AUTH_USE	AUTH_USE
<i>New domain code values added - existing attribute values transferred intact</i>	
Windpower Testing - Testing of an area/site for potential wind power generation	Windpower Testing - Testing of an area/site for potential wind power generation
Windpower Development - Development of a wind power generation area/site	Windpower Development - Development of a wind power generation area/site
Power Transportation - Movement of power across an area (i.e. transmission lines, pipelines)	Power Transportation - Movement of power across an area (i.e. transmission lines, gas pipeline)
Solar Development - Development of an area/site for solar power generation	Solar Development - Development of an area/site for solar power generation
Crossing Access - Crossing the land with a vehicle is authorized	Crossing Access - Crossing the land with a vehicle or fence is authorized (may include construction)
	Water Testing - Testing for water flow or quantity
	Water Transportation - Transportation of water across an area (e.g. pipeline)
	Communication Facility - Development of a communication facility
	Mineral Materials - Development of a mineral materials site (e.g. for road paving material)

CASET	CASET
<i>No change to existing attribute values</i>	
dom_CASET	domain removed
ESMTROW_TP	ESMTROW_TP
<i>New domain code values added - existing attribute values transferred intact</i>	
ESMT - Easement	ESMT - Easement
ROW - Right-of-Way	ROW - Right-of-Way
CONSR_ESMT - Conservation Easement	CNSC - Conservation or Scenic Easement
OTHER - Other	OTHER - Other type of Easement or Right-of-Way
	RECP - Reciprocal Right-of-Way
ESMTROW_FT	ESMTROW_FTR
<i>New domain code values added - existing attribute values transferred intact</i>	
ROAD - Road	ROAD - Road
PIPELINE - Pipeline	PIPELINE - Pipeline
TRAIL - Trail	TRAIL - Trail
PARCEL - Parcel	PARCEL - Parcel
FENCE - Fence	FENCE - Fence
WINDTOWER - Windtower	WINDTOWER - Windtower
POWERLINE - Powerline	POWERLINE - Powerline
TELEPHONE - Telephone	TELEPHONE - Telephone
TELE_BURIED - Telephone Buried	TELE_BURIED - Telephone Buried
ADMIN_SITE - Administrative Site	ADMIN_SITE - Administrative Site
WATER_GAP - Water Gap	WATER_GAP - Water Gap

GEOSURVEY - Geosurvey	GEOSURVEY – Geosurvey
STAGING - Staging	STAGING - Staging
	DITCH_CANAL - Ditch or Canal
	WATER_GAUGE - Water Gauge
	COMM_SITE - Communications Site
	MINMAT_SITE - Mineral Materials Site
	New Field - GRANTOR (3 char length)
Existing GRANTOR field (30 char length) values crosswalked as shown below to new GRANTOR	Juris_Code domain assigned
"BLM", "BLM - Eugene District"	BL - Bureau of Land Management
	BP - Bonneville Power Administration
	BR - Bureau of Reclamation
	CE - Corps of Engineers
	CG - U.S. Coast Guard
	DA - U.S. Dept. of Agriculture (except the Forest Service)
	DD - U.S. Dept. of Defense (except the Corps of Engineers)
	FS - U.S. Forest Service
	FA - Federal Aviation Administration
	FC - Federal Energy Regulatory Commission
	FW - U.S. Fish & Wildlife Service
	GS - U.S. Geological Survey
	GSA - General Services Administration
	IA - Bureau of Indian Affairs and Tribal Units
	LG - Local Government
	NP - National Park Service
<i>All other values (i.e., "Charles and Hazel Culp", "Timber Service Company")</i>	PV - Private Lands
	PVI - Private, Industrial
	PVN - Private, Nonindustrial

	PVU - Private, Urban
"State of Oregon", "OR-Game Commission", "Oregon State Game Commission"	ST - State Managed Lands
	STF - State Forests
"Oregon, Div of Lands",	STL - State Division of Lands
	SDT - State Transportation Department
	STP - State Parks
	STW - State Wildlife Refuges
"Unknown", "NULL",	UN - Undetermined
GRANTOR	GRANTOR_NM
<i>Existing attribute values transferred intact</i>	
<i>Timber Service Company</i>	<i>Timber Service Company</i>
<i>Charles and Hazel Culp</i>	<i>Charles and Hazel Culp</i>
<i>BLM</i>	<i>BLM</i>
<i>etc...</i>	<i>etc...</i>
STATUS_P	STATUS_ESMTROW
<i>STATUS_ESMTROW domain updated... "Suspended" and "Relinquished" values crosswalked to "Closed" "Active" values crosswalked to "Pending"</i>	
Initial - Initial	Initial - Pre-application proposal
Active - Active	Pending - Active proposal, application filed
Rejected - Rejected	Rejected - Proposal rejected by BLM
Suspended - Suspended	Closed - Case closed
Relinquished - Relinquished	

Easements / Rights of Way Spatial Data Standard (Revised) December 17, 2010



EASEMENTS/RIGHTS-OF-WAY

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GENERAL INFORMATION

Data Set (Theme) Name: Easements and Rights-of-Way

Data Set Abbreviation: ESMTROW

RESPONSIBILITIES

State Data Steward - The State Data Steward is responsible for approving data standards and business rules for data themes they are responsible for, 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 with national data stewards. The State Data Steward reviews geospatial metadata for completeness and quality.

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.

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 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 records administrator assures that data has been classified under the proper records retention schedule and determine appropriate Freedom of Information Act (FOIA) category.

FOIA CATEGORY

Public

RECORDS RETENTION SCHEDULE(S)

GRS BLM 20/5

TEMPORARY. Delete when no longer needed for administrative, legal, audit, or other operational purposes.

SECURITY/ACCESS/SENSITIVITY

The Easements and Rights-of-Way (ROW) 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) Bureau of Land Management (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 has been completed. This data set falls under the Privacy Act System of Records Notice LLM-32, Land and Minerals Authorization Tracking System.

DATA SET OVERVIEW

DESCRIPTION

This data set represents ROWs and Easements. These are a portion of the total ENCUMBRANCE data category which includes entities about rights and restrictions. The rights and restrictions relate to the use of federal public land or to the use of non-federal land by the federal and public entities. Example uses might be construction or simply crossing the land. Rights-of-way in this data set include ROW and other land use authorizations issued by the United States under the authorities of Title V and Sec. 302(b) of Federal Land Policy and Management Act (FLPMA) (and other ROW authorities repealed by FLPMA), O&C Act of August 28, 1937, plus the Federal Highway Act and the Mineral Leasing Act. Easements in this data set are the spatial representation of partial interests in non-federal land acquired or reserved by the United States. In general, ROWs are rights granted *by* BLM and Easements are rights granted *to* BLM, but there are exceptions. The data set includes both linear and area entities. Rights-of-Way and Easements that is linear in nature, such as roads or powerlines, have associated widths that can be used to buffer the linear features and create polygon areas. Area entities include these linear buffer features as well as ROWs and Easements described by parcels. This data set is not intended to include all ROWs and Easements, but only those most important for common GIS spatial analysis. In addition, only basic information about the ROWs and Easements is provided. Details and the complete rights and restrictions history are found in the authoritative sources: Master Title Plats, case file records, and the LR2000 database.

USAGE

This data set is used for depicting the ROWs and Easements on maps. All BLM planning and management actions must identify any encumbrances on the land. Existing ROWs and Easements are intersected with other resources to determine impact and/or feasibility of the proposed action.

SPONSOR/AFFECTED PARTIES

The sponsor for this data set is the Deputy State Director, Resource Use, Planning and Protection. A ROW or Easement is defined by and specific to BLM. Matching interagency data across the landscape is not necessary, but correcting discrepancies between BLM and non-BLM databases is important.

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 Framework 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 Oregon Data Framework showing the overall organization and entity inheritance. The Easement and ROW entities are highlighted. For additional information about the Oregon Data Framework, contact:

OR/WA State Data Administrator
Stan Frazier
Bureau of Land Management
P.O. Box 2965
Portland, OR 97208

ROW/EASEMENT DATA ORGANIZATION / STRUCTURE

For ROW/EASEMENT, the categories/groups that the data set is part of are:

ROW/EASEMENT Polygon:

Oregon Data Framework

Boundaries

Land Status

Existing Land Status

Encumbrance Area

ESMTROW_POLY

Proposed Land Status

Proposed Encumbrance Area

ESMTROW_P_POLY

ROW/EASEMENT Line:

Oregon Data Framework

Boundaries

Land Status

Existing Land Status

Encumbrance Linear

ESMTROW_ARC

Proposed Land Status

Proposed Encumbrance Linear

ESMTROW_P_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 contact:

OR/WA State Data Administrator

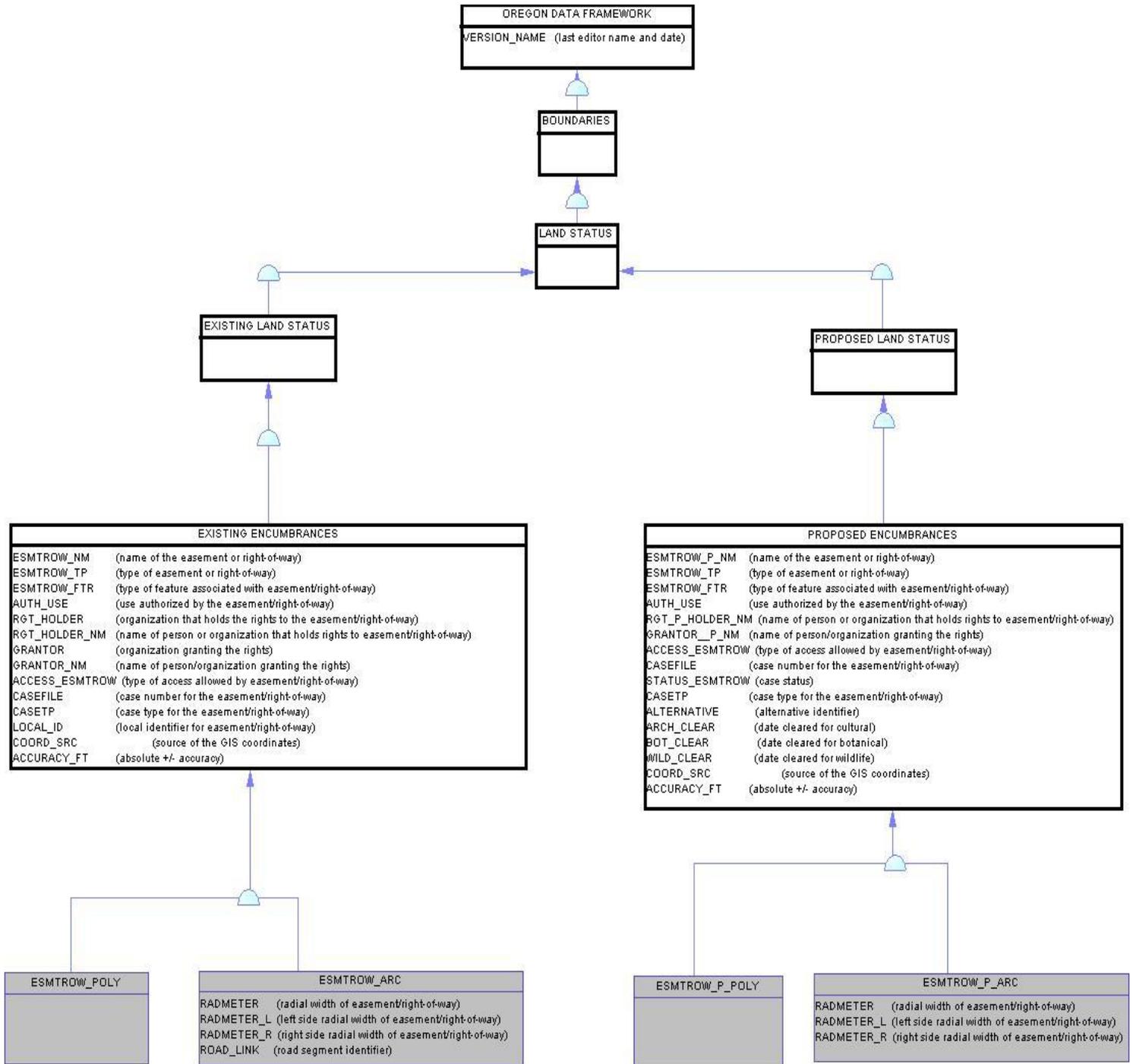
Stan Frazier

Bureau of Land Management

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Portland, OR 97208

DATA ORGANIZATION GRAPHIC



DATA COLLECTION AND MAINTENANCE PROTOCOLS

ACCURACY REQUIREMENTS: This data set requires the highest possible accuracy. Accuracy is determined by availability of survey data and Geographic Coordinate Data Base for the area. Where ROWs and Easements follow road or other physical features, the coordinates are obtained from the most accurate source available (see Collection and Input Protocols).

This data set will never be complete. Over time, more and more approved ROWs and Easements will be added to the data set, but it will never contain the complete record (found in the case files).

The proposed ROWs and Easements (ESMTROW_P_ARC and ESMTROW_P_POLY) are transitory and have varying degree of accuracy. Accuracy is reviewed and improved if possible if a proposed feature becomes authorized and is moved to ESMTROW_POLY or ESMTROW_ARC.

Required attributes have an accuracy of at least ninety percent.

COLLECTION AND INPUT PROTOCOLS: Existing Easements and ROWs are defined and described by the case file record and sometimes depicted on Master Title Plats (MTP). If a digital MTP with GIS features or a digital survey are available, the appropriate spatial features are selected and copied from these. If there is no digital source, the lines and polygons are created from the legal description and other information in the authoritative sources (MTPs, LR2000 and the case file record). Where the feature is described by legal land line parcels or surveyed lines, a vertex is placed at every Geographic Coordinate Data (GCD) point and snapped to it. Where the feature is described as a road or other physical feature and case file description says “as built”, the coordinates are obtained from Global Positioning System (GPS) or Digital Line Graphic (DLG), imagery or other digital data with a total locational accuracy of 100 ft or better. Existing linework is not replaced unless a more accurate spatial representation of the legal description is provided. It is important to note that even if a better road centerline is available in GIS, the associated easement or ROW may not be changed depending on the language in the case file.

Polygons representing the widths of Easement and ROW linear features do not need to be created since they can be created “on-the-fly” as needed using the RADMETER attribute. If, however, the data steward wishes to keep the polygons created by buffering the lines on ESMTROW_ARC, the polygons can be put on ESMTROW_POLY.

Proposed Easements and ROWs are created from legal descriptions in the same way as described above for existing Easements and ROWs. If a proposed Easement or ROW becomes fact (is authorized), it is copied to the corresponding existing ESMTROW feature class and deleted from the proposed feature class. At the district data steward’s discretion, when a ROW that was authorized becomes “closed” for whatever reason (relinquished, terminated, expired), the feature can be moved back to the proposed feature class with STATUS_ESMTROW of “Closed.” This might be done if the data steward feels the feature has potential to become a proposal again.

MAINTENANCE PROTOCOLS: If there is a GCD update which shifts the points the ESMTROW lines and polygons need to be re-snapped. Other updates to correct or improve locational accuracy are done when discovered.

UPDATE TRANSACTIONS: The unit of processing for the ESMTROW group of themes is the individual Easement or ROW.

UPDATE FREQUENCY: At a minimum, this dataset is to be updated on a quarterly basis (January 1, April 1, July 1, October 1). Updates can be done at any time and do not need to be done only on these quarterly dates.

RELATIONSHIP TO OTHER THEMES: Easement and ROWs are legal entities. They are often related to physical entities such as roads and powerlines. The Easement or ROW is described in relation to the constructed entity, but is not necessarily identical. To associate facilities with the rights and restrictions attached to them, an ESMTROW “flag” can be added as an attribute on the relevant constructed feature arc segment or point. Similarly,

to associate an Easement or ROW with the road it encumbers, there is a "ROADLINK" attribute.

STATEWIDE MONITORING: District Realty Specialists are required to check the themes for spatial and attribute accuracy within their districts and to keep the themes consistent and current with LR2000 and the case files and to confirm that proposed Easements and ROWs were moved to existing Easements and ROWs after approval. The State Data Steward is responsible for checking consistency across districts. At least once yearly, ESMTROW_ARC and ESMTROW_POLY will be checked by comparing to LR2000. Number of cases in LR2000 and not in ESMTROW_ARC/POLY and vice versa will be used to determine completeness. Over time, the gap should narrow.

EASEMENT ROW 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. The domains used in this data standard can be found in Appendix A. These are the domains at the time the data standard was approved. Domains can be changed without a re-issue of the data standard so those shown in the Appendix may not be current. Contact the OR/WA State Data Administrator for the current lists.

OR/WA State Data Administrator
 Stan Frazier
 Bureau of Land Management
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 Portland, OR 97208

ESMTROW_POLY (Easement/ROW Polygons)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
ESMTROW_NM	String	30		Yes	
ESMTROW_TP	String	10		Yes	dom_ESMTROW_TP
ESMTROW_FTR	String	20		Yes	dom_ESMTROW_FTR
AUTH_USE	String	30		Yes	dom_AUTH_USE
RGT HOLDER	String	3		Yes	dom_JURISCODE
RGT HOLDER_NM	String	30		No	dom_JURISNAME
GRANTOR	String	3		Yes	dom_JURISCODE
GRANTOR_NM	String	30		No	
ACCESS_ESMTROW	String	10		Yes	dom_ACCESS_ESMTROW
CASEFILE	String	15		Yes	
CASETP	String	6		No	
LOCAL_ID	String	10		No	
COORD_SRC	String	7		No	dom_COORD_SRC
ACCURACY_FT	Short Integer		-1	No	
VERSION_NAME	String	50	InitialLoad	Yes	

ESMTROW_ARC (Easement/ROW Arcs)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
ESMTROW_NM	String	30		Yes	
ESMTROW_TP	String	10		Yes	dom_ESMTROW_TP
ESMTROW_FTR	String	20		Yes	dom_ESMTROW_FTR
AUTH_USE	String	30		Yes	dom_AUTH_USE
RGT HOLDER	String	3		Yes	dom_JURISCODE
RGT HOLDER_NM	String	30		No	
GRANTOR	String	3		Yes	dom_JURISCODE
GRANTOR_NM	String	30		No	
ACCESS_ESMTROW	String	10		Yes	dom_ACCESS_ESMTROW
CASEFILE	String	15		Yes	
CASETP	String	6		No	

LOCAL_ID	String	10		No	
COORD_SRC	String	7		No	dom_COORD_SRC
ACCURACY_FT	Short Integer		-1	No	
RADMETER	Number	8,2	-1	No	
RADMETER_L	Number	8,2	-1	No	
RADMETER_R	Number	8,2	-1	No	
ROAD_LINK	String	20		No	
VERSION_NAME	String	50	InitialLoad	Yes	

ESMTROW_P_POLY (Easement/ROW Proposed Polygons)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
ESMTROW_P_NM	String	30		Yes	
ESMTROW_TP	String	10		Yes	dom_ESMTROW_TP
ESMTROW_FTR	String	20		Yes	dom_ESMTROW_FTR
AUTH_USE	String	30		Yes	dom_AUTH_USE
RGT_P_HOLDER_NM	String	30		No	
GRANTOR_P_NM	String	30		Yes	
ACCESS_ESMTROW	String	10		Yes	dom_ACCESS_ESMTROW
CASEFILE	String	15		No	
STATUS_ESMTROW	String	10		Yes	dom_STATUS_ESMTROW
CASETP	String	6		No	
ALTERNATIVE	String	2		No	
ARCH_CLEAR	String	8		No	
BOT_CLEAR	String	8		No	
WILD_CLEAR	String	8		No	
COORD_SRC	String	7		No	dom_COORD_SRC
ACCURACY_FT	Short Integer		-1	No	
VERSION_NAME	String	50	InitialLoad	Yes	

ESMTROW_P_ARC (Easement/ROW Proposed Arcs)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
ESMTROW_P_NM	String	30		Yes	
ESMTROW_TP	String	10		Yes	dom_ESMTROW_TP
ESMTROW_FTR	String	20		Yes	dom_ESMTROW_FTR
AUTH_USE	String	30		Yes	dom_AUTH_USE
RGT_P_HOLDER_NM	String	30		No	
GRANTOR_P_NM	String	30		Yes	
ACCESS_ESMTROW	String	10		Yes	dom_ACCESS_ESMTROW
CASEFILE	String	15		No	
STATUS_ESMTROW	String	10		Yes	dom_STATUS_ESMTROW
CASETP	String	6		No	
RADMETER	Number	8,2	-1	No	
RADMETER_L	Number	8,2	-1	No	
RADMETER_R	Number	8,2	-1	No	
ALTERNATIVE	String	2		No	
ARCH_CLEAR	String	8		No	
BOT_CLEAR	String	8		No	
WILD_CLEAR	String	8		No	
COORD_SRC	String	7		No	dom_COORD_SRC
ACCURACY_FT	Short Integer		-1	No	
ROAD_LINK	String	20		No	
VERSION_NAME	String	50	InitialLoad	Yes	

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 OR/WA but are not "wall-to-wall," and may cover only a small percentage of the total. See the metadata for this data set for more precise description of the extent.

SPATIAL ENTITY CHARACTERISTICS

ESMTROW_POLY

Description: Instance of Land Status Existing group.

Geometry: Polygons may overlap entirely or in part.

Topology: No.

Integration Requirements: If polylines are defined as parcels they must have a vertex for every GCD point and be snapped to it. There is usually no coincidence between ESMTROW arcs and ESMTROW polys.

ESMTROW_P_POLY

Description: Instance of Land Status Proposed group.

Geometry: Polygons may overlap each other entirely or in part and may overlap ESMTROW_POLY features.

Topology: No.

Integration Requirements: If polylines are defined as parcels they must have a vertex for every GCD point and be snapped to it.

ESMTROW_ARC

Description: Instance of Land Status Existing group.

Geometry: Arcs may overlap each other entirely or in part.

Topology: No

Integration Requirements: There is usually no coincidence between ESMTROW arcs and ESMTROW polys.

ESMTROW_P_ARC

Description: Instance of Land Status Proposed group.

Geometry: Arcs may overlap each other entirely or in part and may overlap ESMTROW_ARC features.

Topology: No.

Integration Requirements: There is usually no coincidence between ESMTROW arcs and ESMTROW polys.

ATTRIBUTE CHARACTERISTICS AND DEFINITIONS

ACCESS_ESMTROW

<i>Geodatabase Name</i>	ACCESS_ESMTROW
<i>BLM Structured Name</i>	ACCESS_ESMTROW_CODE
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES or PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	dom_ACCESS_ESMTROW
<i>Data Type</i>	Variable characters (10)

Description

[Required]

Access rights associated with the Easement or ROW. There are two types of easements. Exclusive easements are generally open to the public and Nonexclusive easements are generally administrative only, not open to the public or third parties. Reciprocal ROW Agreements provide access rights for the haul and management of timber and include third party rights.

Examples: PUBLIC, ADMIN (BLM), UNKNOWN (UNK), OTH_AGENCY, PRIVATE (includes corporations).

=====

ACCURACY_FT

<i>Geodatabase Name</i>	ACCURACY_FT
<i>BLM Structured Name</i>	ACCURACY_FEET_MEASURE
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES or PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Short integer

Description

[Optional]

How close, in feet, the spatial GIS depiction is to the actual location on the ground **or to the legal description**. 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 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.

=====

ALTERNATIVE

<i>Geodatabase Name</i>	ALTERNATIVE
<i>BLM Structured Name</i>	ALTERNATIVE_TEXT
<i>Notes</i>	Inherited from PROPOSED ENCUMBRANCES
	Used by Feature Classes: ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Characters (2)

Description

[Optional]

Identifier for the alternative during the planning process (e.g., A, B, C, D, E). Free choice values for different plans but not more than 2 characters.

=====

ARCH_CLEAR

<i>Geodatabase Name</i>	ARCH_CLEAR
<i>BLM Structured Name</i>	ARCHAEOLOGICAL_CLEARANCE_DATE
<i>Notes</i>	Inherited from PROPOSED ENCUMBRANCES
	Used by Feature Classes: ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Characters (8)

Description

[Optional]

Date the facility/site received archaeological clearance.

YYYYMMDD

=====

AUTH_USE

<i>Geodatabase Name</i>	AUTH_USE
<i>BLM Structured Name</i>	EASEMENT_ROW_AUTHORIZED_USE_CODE
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES or PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	dom_AUTH_USE
<i>Data Type</i>	Variable characters (30)

Description

[Required]

Use that is authorized or proposed for authorization by the Easement or ROW. Additional, related, information is found in the ESMTROW_FTR and CASETP attributes. For example, if the AUTH_USE is "Crossing Access" then ESMTROW_FTR might be "ROAD", "TRAIL", or "FENCE".

Examples: Windpower Testing, Windpower Development, Solar Development, Power Transportation, Crossing Access, Water Testing, Water Transportation, Communication Facility, Mineral Materials.

BOT_CLEAR

<i>Geodatabase Name</i>	BOT_CLEAR
<i>BLM Structured Name</i>	BOTANICAL_CLEARANCE_DATE
<i>Notes</i>	Inherited from PROPOSED ENCUMBRANCES
	Used by Feature Classes: ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Characters (8)

Description

[Optional]

Date the facility/site received botanical clearance.

YYYYMMDD

CASEFILE

<i>Geodatabase Name</i>	CASEFILE
<i>BLM Structured Name</i>	CASEFILE_NUMBER
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES or PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (15)

Description

[Required for Existing]

Case number assigned by the LR2000 database when an action is begun (either by BLM action or due to receipt of an application). Includes suffix and case part.

=====

CASETP

<i>Geodatabase Name</i>	CASETP
<i>BLM Structured Name</i>	CASE_TYPE_CODE
<i>Notes</i>	Inherited from EXISTING and PROPOSED ENCUMBRANCES
	Used by Feature Classes: ESMTROW_POLY ESMTROW_ARC ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Characters (6)

Description

[Optional]

A coded number system that identifies a case (e.g., authorization, conveyances, withdrawals, acquisitions, etc). The 6-digit code is constructed as follows:

First two digits "00" through "99" denotes major groups generally listed in 43 CFR; [examples: 21=acquisitions, 22=exchanges, 23=withdrawals, 28=rights-of-way].

Second two digits "00" through "99" denotes major "Parts"; [examples: 2810=ROW, Roads, 2830=ROW, Wind, 2840=ROW, Railroad]

Last two digits "00" through "99" identifies a unique case type.

Examples: 281007 - ROW-ROADS FEDERAL FAC
 283003 - ROW-WIND DEV FAC
 284004 - ROW-RR SPECIAL ACTS

For a complete list of Casetypes go to: http://www.blm.gov/lr2000/codes/CodeCasetype_code.pff

COORD_SRC

<i>Geodatabase Name</i>	COORD_SRC
<i>BLM Structured Name</i>	COORDINATE_SOURCE_CODE
<i>Notes</i>	
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (7)

Description

[Optional]

The actual source of the GIS coordinates for the polylines.

Examples: GPS, GCD, DLG, DRG, DEM, MAP, SOURCEC, and UNK.

ESMTROW_FTR

<i>Geodatabase Name</i>	ESMTROW_FTR
<i>BLM Structured Name</i>	EASEMENT_ROW_FEATURE_CODE
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES OR PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	dom_ESMTROW_FTR
<i>Data Type</i>	Variable characters (20)

Description

[Required]

Type of geographic or legal feature associated with an Easement or ROW.

Examples: ROAD, PIPELINE, TRAIL, PARCEL, FENCE, WINDTOWER_AREA, POWERLINE, TELEPHONE, TELE_BURIED, ADMIN_SITE, WATER_GAP, GEOSURVEY, STAGING, DITCHCANAL..WATER_GAUGE, COMM_SITE, MINMAT_SITE

ESMTROW_NM

<i>Geodatabase Name</i>	ESMTROW_NM
<i>BLM Structured Name</i>	EASEMENT_ROW_NAME
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES.
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (30)

Description

[Required]

Name of the project the ROW or Easement is part of.

Examples: Kiger Fence, Ponderosa Timber Access, Horizon Wind Access, Steens Easement, Public Hiking Trail, Hodges ROW.

=====

ESMTROW_P_NAME

<i>Geodatabase Name</i>	ESMTROW_P_NAME
<i>BLM Structured Name</i>	EASEMENTT_ROW_PROPOSED_NAME
<i>Notes</i>	Inherited from PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (30)

Description

[Required]

Unique identifying name for a Proposed ROW or Easement project.

Examples: Kiger Fence, Ponderosa Timber Access, Horizon Wind Access, Steens Easement, Public Hiking Trail, Hodges ROW

=====

ESMTROW_TP

<i>Geodatabase Name</i>	ESMTROW_TP
<i>BLM Structured Name</i>	EASEMENT_ROW_TYPE_CODE
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES and PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	dom_ESMTROW_TP
<i>Data Type</i>	Variable characters (10)

Description

[Required]

Indicates whether feature is an Easement or a ROW and the general type.

Examples: ESMT (Easement – rights granted to the BLM), ROW (rights granted by the BLM), RECP (Reciprocal ROW – normally used in Western Oregon for roads used by both the BLM and timber companies), CNSC (Conservation/Scenic Easement), OTHER

GRANTOR

<i>Geodatabase Name</i>	GRANTOR
<i>BLM Structured Name</i>	GRANTOR_ORGANIZATION_CODE
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC
<i>Domain</i>	dom_JURISCODE
<i>Data Type</i>	Variable characters (3)

Description

[Required]

The organization (in general terms) that is granted the easement or ROW.

Examples: Examples: FS (Forest Service), BL (Bureau of Land Management), FW (Fish and Wildlife Service), BP (Bonneville Power Administration), ST (State), PV (Private).

GRANTOR_NM

<i>Geodatabase Name</i>	GRANTOR_NM
<i>BLM Structured Name</i>	GRANTOR_NM
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (30)

Description

[Optional]

Name of the organization or person that granted the rights in the ROW or Easement.

Examples: MOUNT HOOD NF, HART MOUNTAIN NAT ANTELOPE REF, WALLOWA LAKE STATE PARK, DIAMOND RANCH LLC.

GRANTOR_P_NM

<i>Geodatabase Name</i>	GRANTOR_P_NM
<i>BLM Structured Name</i>	EASEMENT_ROW_PROPOSED_GRANTOR_NAME
<i>Notes</i>	Inherited from PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (30)

Description

[Required]

The name of the entity (person, organization) that would grant the proposed easement or ROW.

Examples: USFS, BLM, USFWS, BPA, ST, PV, DIAMOND RANCH LLC.

LOCAL_ID

<i>Geodatabase Name</i>	LOCAL_ID
<i>BLM Structured Name</i>	EASEMENT_ROW_LOCAL_IDENTIFIER
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (10)

Description

[Optional]

A local identifier, unique by District, used by Western Oregon Districts. Called "Action Remarks" in LR2000.

Examples: RE-R-460C, RE-M-20, R-645 where RE-R, RE-M and RE-C are easements and R-645 is a Reciprocal ROW. The first letters stand for the District (R = Roseburg, C = Coos Bay, M= Medford, etc.).

RADMETER

<i>Geodatabase Name</i>	RADMETER
<i>BLM Structured Name</i>	RADIAL_BUFFER_METERS
<i>Notes</i>	Not Inherited
	Used in Feature Classes: ESMTROW_ARC ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Decimal (8,2)

Description

[Optional]

Radial width of the ROW or Easement in meters to the nearest hundredth or tenth. Rudimentary or average widths. The derived acreages will be approximate. Detailed widths which may vary by segment are found in casefile.

RADMETER_L

<i>Geodatabase Name</i>	RADMETER_L
<i>BLM Structured Name</i>	RADIAL_BUFFER_LEFT_METERS
<i>Notes</i>	Not inherited
	Used in Feature Classes: ESMTROW_ARC ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Decimal (8,2)

Description

[Required if RADMETER_R has something other than -1]

“Left-side” radial width of the ROW or Easement in meters to the nearest hundredth or tenth. If this attribute is filled in then RADMETER must be set to -1 and RADMETER_R must be set to something other than -1 (0 or a positive number). This width and derived acreages are approximate. Detailed widths are found in casefile.

RADMETER_R

<i>Geodatabase Name</i>	RADMETER_R
<i>BLM Structured Name</i>	RADIAL_BUFFER_RIGHT_METERS
<i>Notes</i>	Not Inherited
	Used in Feature Classes: ESMTROW_ARC ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Decimal (8,2)

Description

[Required if RADMETER_L has something other than -1]

“Right-side” radial width of the ROW or Easement in meters to the nearest hundredth or tenth. If this attribute is filled in then RADMETER must be set to -1 and RADMETER_L must be set to something other than -1 (0 or a positive number). This width and derived acreages are approximate. Detailed widths are found in casefile.

RGT HOLDER

<i>Geodatabase Name</i>	RGT HOLDER
<i>BLM Structured Name</i>	RIGHT HOLDER_ORGANIZATION_CODE
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC
<i>Domain</i>	dom_JURISCODE
<i>Data Type</i>	Variable characters (3)

Description

[Required]

Code for the organization (in general terms) that holds the rights granted in the ROW or Easement.

Examples: FS, BL, FW, BP, ST, PV.

RGT HOLDER_NM

<i>Geodatabase Name</i>	RGT HOLDER_NM
<i>BLM Structured Name</i>	RIGHT HOLDER_NAME
<i>Notes</i>	Inherited from EXISTING ENCUMBRANCES
	Used in Feature Classes: ESMTROW_POLY ESMTROW_ARC
<i>Domain</i>	dom_JURISNAME
<i>Data Type</i>	Variable characters (30)

Description

[Optional]

Name of the organization or person that holds the rights granted in the ROW or Easement.

Examples: MOUNT HOOD NF, HART MOUNTAIN NAT ANTELOPE REF, WALLOWA LAKE STATE PARK, DIAMOND RANCH LLC.

RGT_P HOLDER_NM

<i>Geodatabase Name</i>	RGT_P HOLDER_NM
<i>BLM Structured Name</i>	RIGHT HOLDER_PROPOSED_NAME
<i>Notes</i>	Inherited from PROPOSED ENCUMBRANCES
	Used by feature classes: ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (30)

Description

[Optional]

Name of the person or entity applying for a ROW or easement.

Examples: MOUNT HOOD NF, HART MOUNTAIN NAT ANTELOPE REF, WALLOWA LAKE STATE PARK, DIAMOND RANCH LLC.

ROAD_LINK

<i>Geodatabase Name</i>	ROAD_LINK
<i>BLM Structured Name</i>	ROAD_LINK
<i>Notes</i>	Not inherited
	Used in Feature Classes: ESMTROW_ARC ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (20)

Description

[Optional]

Unique identifier (FRMWK_ID) for each road segment copied from the Ground Transportation (GTRN) dataset.

=====

STATUS_ESMTROW

<i>Geodatabase Name</i>	STATUS_ESMTROW
<i>BLM Structured Name</i>	ESMTROW_PROPOSED_STATUS_CODE
<i>Notes</i>	Inherited from PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	dom_STATUS_ESMTROW
<i>Data Type</i>	Variable characters (10)

Description

[Required]

Status of the proposed ROW or Easement.

Examples: Initial (pre-application), Pending (application filed), Rejected (proposal rejected by BLM via planning process), Closed (case closed for any number of reasons including relinquished or expired rights or withdrawn proposals).

VERSION_NAME

<i>Geodatabase Name</i>	VERSION_NAME
<i>BLM Structured Name</i>	GEODATABASE_VERSION_TEXT
<i>Notes</i>	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.
	Used in Feature Class: ESMTROW_ARC ESMTROW_POLY ESMTROW_P_ARC ESMTROW_P_POLY
<i>Domain</i>	<None>
<i>Data Type</i>	Variable characters (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 the last edit (hours might be a single digit; leading zeros are trimmed for hours only). XXX = theme abbreviation.

WILD_CLEAR

<i>Geodatabase Name</i>	WILD_CLEAR
<i>BLM Structured Name</i>	WILDLIFE_CLEARANCE_DATE
<i>Notes</i>	Inherited from PROPOSED ENCUMBRANCES
	Used in Feature Classes: ESMTROW_P_POLY ESMTROW_P_ARC
<i>Domain</i>	<None>
<i>Data Type</i>	Characters (8)

Description

[Optional]

Date the facility/site received wildlife clearance (YYYYMMDD).

ASSOCIATED FILES OR DATABASES

Data pertaining to individual ROWs or easements is found in the LR2000 national database. Additional information may also be found in the Master Title Plats and the official case file record.

LAYER FILES (PUBLICATION VIEWS)

Master corporate feature classes/datasets maintained in the edit database (currently orsoedit) are “published” to the user database (currently orsovctr) in several ways:

1. Copied completely with no changes (replicated).
2. Copied with no changes except to omit one or more feature classes from a feature dataset.
3. Minor changes made (for example clip, dissolve, union with ownership) in order to make the data easier to use. These “Publication feature classes” are indicated by “PUB” in their name. They are created through scripts that can be automatically executed and are easily rebuilt from the master (orsoedit) data whenever necessary.

Layer files point to existing data and are not new data requiring storage and maintenance. They have appropriate selection and symbolization for correct use and display of the data. They provide the guidance for data published on the web. Layer files are created by simple documented process and can be deleted and recreated at any time.

A publication feature class will be created for publishing to the web/release to the public that has the attributes RGT HOLDER_NM and GRANTOR_NM removed (for Privacy reasons). All datasets are published, both internally and externally, with the attribute VERSION_NAME removed (also for Privacy reasons).

EDITING PROCEDURES**MANAGING OVERLAP (General Guidance)**

“Overlap” means there are potentially more than one feature **in the same feature class** that occupies the same space (“stacked” polygons).

POLY/ARC feature dataset means that there is a polygon feature class with an arc feature class that represents the perimeter of the polygon and must be kept coincident with the polyline.

In this discussion, a polygon feature may consist of more than one polygon and an arc feature may consist of more than one arc. They would have multiple records in the spatial table (with identical attributes). Multi-part features are not allowed. Multi-part features are easily created inadvertently and not always easy to identify. If they are not consciously and consistently avoided, feature classes will end up with a mixture of single and multi-part features. Multi-part features can be more difficult to edit, query, and select, along with impacting overall performance.

Overlap is only allowed in the Oregon Data Framework in limited and controlled scenarios. In each case, the “cause” of the overlap (what attribute changes will “kick off” a new feature which may overlap an existing feature) is carefully defined and controlled. In other words, in feature classes that permit overlap when there is a change in spatial extent there is always a new feature created which may overlap an existing feature, but in addition there are certain attribute(s) that will result in a new feature even if there is no spatial change. The feature classes (and the one feature dataset) that allow overlap and the attributes that lead to a new, possibly overlapping, feature are described below.

Overlapping Polygons where polygons are part of a POLY/ARC feature dataset

Topology rules apply only to the POLY/ARC relationship (Polylines in the POLY feature class covered by arcs in the ARC feature class and vice versa; Arcs must not have dangles, intersect, self-overlap or overlap adjacent arcs).

PLANBDY *Any number of plans or projects might overlap. A new PLANID creates a new polygon.*

Overlapping Polygons where polygons are a stand-alone feature class

No topology rules.

Species Occurrence Group: These are distinct sites defined by species and time. A different species create a new polygon which may overlap another site in whole or part. A change in time (new visit date) will create a new polygon if it is desired that the old spatial extent and date is retained (as historic). Additionally, for wildlife, a different season/type of use (e.g., winter range vs. spring breeding) will create new polygon that may overlap others.

WEEDS

GB_FLORA_SITES

GB_FAUNA_SITES

WILDSITE_POLY

Survey Group: *Within each feature class a new survey is created only for a new date. This group might also include **proposed** surveys in separate feature classes. (WEED_P_SURV, etc).*

WEED_SURV

CULT_SURV

FAUNA_SURV

FLORA_SURV

Treatment Activity Group: *Within each feature class a new treatment area is created only for a new date and sometimes for a different method if it is not possible to SPLIT the treatment area by method and it is important to capture more than one method applied to the same area on the same day. This group also includes proposed treatments in separate feature classes (BURN_P , etc. and these could have additional overlap created by different alternatives).*

BURN, HARV, MECH, REVEG, PROT, BIO, CHEM

Land Status Encumbrances Group: *A new polygon is created for a change in casefile number even if it is the same area.*

ESMTROW_POLY

WITHDWL

Overlapping Arcs where arcs are a stand-alone feature class

No topology rules.

ESMTROW_ARC

Overlapping Points:

Not nearly as big of a problem because they have no spatial extent, but still should be checked and duplicates deleted.

Editing and Quality Control Guidelines

Checking for *undesired* duplicates is critical. Polygons or arcs that are 100% duplicate can be easily found by searching for identical attributes along with identical Shape_Area and/or Shape_Length. Searching for partially overlapping arcs or polygons is harder and each case must be inspected to determine if the overlap is desired or not.

Where polygons are created with the buffer tool the correct option must be selected. The default option is “None,” which means overlap will be retained. Sometimes the overlap should be dissolved and the option changed to “All.”

If the dissolve tool is used on polygons or arcs, the “Create multipart features” should be unchecked.

Snapping Guidelines

Where line segments with different COORD_SRC meet, the most accurate or important (in terms of legal boundary representation) are kept unaltered and other lines snapped to them. In general, the hierarchy of importance is LLI (GCD points/lines) first with DLG or SOURCE next and Digital Elevation Model and map last.

When snapping to the data indicated in COORD_SRC (as opposed to duplicating with copy/paste), be sure there are exactly the same number of vertices in the target and source theme arcs.

When the DEF_FEATURE is “SUBDIVISION” snap the line segment to GCD points and make sure there are the same number of vertices in the line as GCD points.

On themes with ACCURACY_FT but no COORD_SRC or DEF_FEATURE, the line with better ACCURACY_FT is kept unaltered.

ABBREVIATIONS AND ACRONYMS USED IN THIS STANDARD

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

BLM - Bureau of Land Management
DLG - Digital Line Graphs
DRG - Digital Raster Graphic
FOIA - Freedom of Information Act
GCD - Geographic Coordinate Database
GIS - Geographic Information System
GPS - Global Positioning System
LR2000 - Land Records 2000 Database
MTP - Master Title Plat
NAD - North American Datum
NARA - National Archives and Records Administration
ODF - Oregon Data Framework
OR/WA - Oregon / Washington
SDE - Spatial Data Engine

APPENDIX A - DOMAINS (VALID VALUES)

The domains listed below are those that were in effect at the time the data standard was approved and may not be current. Contact the State Data Administrator for current lists:

OR/WA State Data Administrator
Bureau of Land Management
P.O. Box 2965
Portland, OR 97208

<u>Domain Name</u>	<u>Page Number</u>
ACCESS_ESMTROW	32
AUTH_USE	32
COORD_SRC	33
ESMTROW_FTR	33
ESMTROW_TP	33
JURISCODE	33
STATUS_ESMTROW	34

Note that domain CODE, as seen in the geodatabase, is added to the DESCRIPTION. For example, the CODE is "ADMIN" and the DESCRIPTION is "ADMIN - Access only for BLM administrative purposes."

DOMAIN: ACCESS_ESMTROW

<u>CODE</u>	<u>DESCRIPTION</u>
ADMIN	Access only for BLM administrative purposes
PUBLIC	Public access
PRIVATE	Private or corporation access only
OTH_AGENCY	Access is for a non-BLM agency
UNKNOWN	Access is unknown or information not needed or desired

DOMAIN: AUTH_USE

<u>CODE</u>	<u>DESCRIPTION</u>
Windpower Testing	Testing of an area/site for potential wind power generation
Windpower Development	Development of a wind power generation area/site
Power Transportation	Movement of power across an area (e.g., transmission line, gas pipeline)
Solar Development	Development of an area/site for solar power generation
Crossing Access	Crossing the land with a vehicle or fence is authorized (may include construction)
Water Testing	Testing for water flow or quantity
Water Transportation	Transportation of water across an area (e.g., pipeline)
Communication Facility	Development of a communication facility
Mineral Materials	Development of a mineral materials site (e.g., for road paving material)

DOMAIN: COORD_SRC

<u>CODE</u>	<u>DESCRIPTION</u>
DEM	Digital Elevation Model
DLG	Lines duplicated or buffered from (24k scale accuracy) USGS Digital Line Graphs
DRG	Screen digitized linework over Digital Raster Graphic (USGS) backdrop
GCD	Lines snapped to Geographic Coordinate Database points
GPS	Lines obtained from a Global Positioning System device
MAP	Digitized line work from hardcopy map
SOURCEL	Source layer from BLM GIS
UNK	Unknown coordinate source

DOMAIN: ESMTROW_FTR

<u>CODE</u>	<u>DESCRIPTION</u>
ROAD	Road
PIPELINE	Pipeline
TRAIL	Trail
PARCEL	Parcel
FENCE	Fence
WINDTOWER	Windtower
POWERLINE	Powerline
TELEPHONE	Telephone
TELE_BURIED	Telephone Buried
ADMIN_SITE	Administrative Site
WATER_GAP	Water Gap
GEOSURVEY	Geosurvey
STAGING	Staging
DITCH_CANAL	Ditch or Canal
WATER_GAUGE	Water Gauge
COMM_SITE	Communication Site
MINMAT_SITE	Mineral Materials Site

DOMAIN: ESMTROW_TP

<u>CODE</u>	<u>DESCRIPTION</u>
ESMT	Easement
ROW	Right-of-Way
CNSC	Conservation or Scenic easement
RECP	Reciprocal Right-of-Way
OTHER	Other type of Easement or Right-of-Way

DOMAIN: JURISCODE

<u>CODE</u>	<u>DESCRIPTION</u>
BL	Bureau of Land Management
BP	Bonneville Power Administration
BR	Bureau of Reclamation
CE	Corps of Engineers
CG	U.S. Coast Guard
DA	U.S. Dept. of Agriculture (except the Forest Service)
DD	U.S. Dept. of Defense (except the Corps of Engineers)
FS	U.S. Forest Service
FA	Federal Aviation Administration
FC	Federal Energy Regulatory Commission
FW	U.S. Fish and Wildlife Service
GS	U.S. Geological Survey
GSA	General Services Administration
IA	Bureau of Indian Affairs and Tribal Units
LG	Local Government
NP	National Park Service
PV	Private Lands
PVI	Private, Industrial
PVN	Private, NonIndustrial
PVU	Private, Urban
ST	State Managed Lands
STF	State Forests
STL	State Division of Lands
SDT	State Transportation Department
STP	State Parks
STW	State Wildlife Refuges
UN	Undetermined

DOMAIN: STATUS_ESMTROW

<u>CODE</u>	<u>DESCRIPTION</u>
Initial	Pre-application proposal
Pending	Active proposal, application filed
Rejected	Proposal rejected by BLM
Closed	Case closed