

(U) Data Element Dictionary for Data Element Dictionary XML

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Chapter 1. Data Elements

(U) DataElement

Table 1. (U) DataElement

(U) The DataElement table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) A wrapper element for showing the classification of an Element as a whole and for grouping the values relating to an element.
ElementId	(U) ded:DataElement
ElementName	(U) DataElement

(U) DedHeader

Table 2. (U) DedHeader

(U) The DedHeader table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) A container holding a set of resource-level information relevant to the entire Data Element Dictionary. This captures the following information concepts:
ElementId	(U) ded:DedHeader
ElementName	(U) DedHeader

(U) DedPoc

Table 3. (U) DedPoc

(U) The DedPoc table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The person or organization that Authored the DED.
ElementId	(U) ded:DedPoc
ElementName	(U) DedPoc

(U) DedPurpose

Table 4. (U) DedPurpose

(U) The DedPurpose table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The prose that identifies and describes the reason and scope of the model (e.g., the output) about which this Data Element Dictionary is providing guidance. If the source of the information contained in the DED is different from the DedHeader/edh/ResponsibleEntity, then the author should identify said source.

(U) The DedPurpose table is UNCLASSIFIED	
DED Field Name	Value
ElementId	(U) ded:DedPurpose
ElementName	(U) DedPurpose
ElementObjectType	(U) Data_Structure

(U) DedShortName

Table 5. (U) DedShortName

(U) The DedShortName table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The short abbreviation that captures the intent of the DedTitle of the Data Element Dictionary (This value MUST be unclassified).
ElementId	(U) ded:DedShortName
ElementName	(U) DedShortName
ElementObjectType	(U) Data_Structure

(U) DedSubjectType

Table 6. (U) DedSubjectType

(U) The DedSubjectType table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) A short descriptor that characterizes the format and/or structure of the output about which this Data Element Dictionary is providing guidance. The initial possible values are: Logical, UML, Physical, Ontology, Database, XML, JSON, CSV, CVE, and Other:SomeText. Multiple values may be used. Additional details about the DED Model should be added to DedPurpose.
ElementId	(U) ded:DedSubjectType
ElementName	(U) DedSubjectType

(U) DedTitle

Table 7. (U) DedTitle

(U) The DedTitle table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The descriptive phrase that indicates the content of the Data Element Dictionary.
ElementId	(U) ded:DedTitle
ElementName	(U) DedTitle
ElementObjectType	(U) Data_Structure

(U) DedVersion

Table 8. (U) DedVersion

(U) The DedVersion table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The short string that represents the unique state of the Data Element Dictionary.
ElementId	(U) ded:DedVersion
ElementName	(U) DedVersion
ElementObjectType	(U) Data_Structure

(U) ElementComment

Table 9. (U) ElementComment

(U) The ElementComment table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) Additional clarifying notes, beyond what is contained within the Definition. Also, may contain implementation guidance or processing instructions.
ElementId	(U) ded:ElementComment
ElementName	(U) ElementComment

(U) ElementComments

Table 10. (U) ElementComments

(U) The ElementComments table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) A grouping of additional clarifying notes, beyond what is contained within the Definition. Also, may contain implementation guidance or processing instructions.
ElementId	(U) ded:ElementComments
ElementName	(U) ElementComments

(U) ElementDataType

Table 11. (U) ElementDataType

(U) The ElementDataType table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The format of the allowed values for the Data Element. (e.g., string, integer, float, uuid, datetime, boolean, alphanumeric, enumeration, regex).
ElementId	(U) ded:ElementObjectType

(U) The ElementDataType table is UNCLASSIFIED	
DED Field Name	Value
ElementName	(U) ElementDataType

(U) ElementDefaultValue

Table 12. (U) ElementDefaultValue

(U) The ElementDefaultValue table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The value that should be provided for the Data Element, if the Data Element does not exist or have content.
ElementId	(U) ded:ElementDefaultValue
ElementName	(U) ElementDefaultValue

(U) ElementDefinition

Table 13. (U) ElementDefinition

(U) The ElementDefinition table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) A statement of the meaning of the Data Element, explaining what it is and/or its essential characteristics.
ElementId	(U) ded:ElementDefinition
ElementName	(U) ElementDefinition

(U) ElementDefinitionSource

Table 14. (U) ElementDefinitionSource

(U) The ElementDefinitionSource table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The cited authority(ies) or reference(s) for which the knowledge to develop the ElementDefinition was obtained or derived.
ElementId	(U) ded:ElementDefinitionSource
ElementName	(U) ElementDefinitionSource

(U) ElementDomain

Table 15. (U) ElementDomain

(U) The ElementDomain table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The context within which the Data Element belongs.
ElementName	(U) ElementDomain

(U) ElementId

Table 16. (U) ElementId

(U) The ElementId table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The locally unique identifier of the Data Element.
ElementId	(U) ded:ElementId
ElementName	(U) ElementId

(U) ElementMultiplicity

Table 17. (U) ElementMultiplicity

(U) The ElementMultiplicity table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) This element follows the UML section 7.8.8 (MultiplicityElement) definition "A multiplicity is a definition of an inclusive interval of non-negative integers beginning with a lower bound and ending with a (possibly infinite) upper bound. A MultiplicityElement embeds this information to specify the allowable cardinalities for an instantiation of the Element." The exact tailoring of the UML is shown in the DES. Example notations [0..1], [0..*], [0..n] [1..1], [1..*], [1..n], [n..m]. Note that n and m here are variables that represent finite numbers. Actual use in a DED would replace n and m with the finite number(s) appropriate for the Element. For example, [0..6] means the Element is optional and can have up to 6 instances. [1..5] means the Element is required and can have up to 5 instances.
ElementId	(U) ded:ElementMutliplicity
ElementName	(U) ElementMultiplicity

(U) ElementName

Table 18. (U) ElementName

(U) The ElementName table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The string identifier that represents the Data Element.
ElementId	(U) ded:ElementName
ElementName	(U) ElementName

(U) ElementObjectType

Table 19. (U) ElementObjectType

(U) The ElementObjectType table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The kind of Data Element that is being defined (e.g., class, attribute, element, keyword, table).
ElementId	(U) ded:ElementObjectType
ElementName	(U) ElementObjectType

(U) ElementObligation

Table 20. (U) ElementObligation

(U) The ElementObligation table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) An indicator of whether the Data Element MUST be populated in all cases (i.e., Mandatory); or if the Data Element is NOT required (i.e., Optional); or whether specific conditions for populating it are specified in ElementRestriction (i.e., Conditional). If conditional, then the condition should be defined in either ElementRestrictions or the Relationship Metadata section.
ElementId	(U) ded:ElementObligation
ElementName	(U) ElementObligation
ElementObjectType	(U) ded:EnumerationLocation: XSD type ObligationEnumType

(U) ElementParentName

Table 21. (U) ElementParentName

(U) The ElementParentName table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The ElementName(s) of another Data Element within the Data Element Dictionary, for which this Data Element is a child element.
ElementId	(U) ded:UsedByLocal
ElementName	(U) ElementParentName

(U) ElementRestriction

Table 22. (U) ElementRestriction

(U) The ElementRestriction table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The additional constraints, if any, on the content entered for the Data Element (e.g., the maximum number of characters, the regex,

(U) The ElementRestriction table is UNCLASSIFIED	
DED Field Name	Value
	uniqueness, min and/or max values, precision, scale). Special Cases: 1) If the DataType is an enumeration, then provide either (A) the enumerated list, or (B) a reference to a specific enumerated list; 2) If the DataType is a regex, then provide the actual regular expression.
ElementId	(U) ded:ElementRestriction
ElementName	(U) ElementRestriction

(U) ElementRestrictions

Table 23. (U) ElementRestrictions

(U) The ElementRestrictions table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) A grouping of the additional constraints, if any, on the content entered for the Data Element (e.g., the maximum number of characters, the regex, uniqueness, min and/or max values, precision, scale). Special Cases: 1) If the DataType is an enumeration, then provide either (A) the enumerated list, or (B) a reference to a specific enumerated list; 2) If the DataType is a regex, then provide the actual regular expression.
ElementId	(U) ded:ElementRestrictions
ElementName	(U) ElementRestrictions

(U) ElementUnitOfMeasure

Table 24. (U) ElementUnitOfMeasure

(U) The ElementUnitOfMeasure table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The kind of determinate quantity or magnitude, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, such as inches, hours, miles.
ElementId	(U) ded:ElementUnitOfMeasure
ElementName	(U) ElementUnitOfMeasure

(U) Relationship

Table 25. (U) Relationship

(U) The Relationship table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) A wrapper element for showing the classification of a Relationship as a whole and for grouping the values relating to a relationship.
ElementId	(U) ded:Relationship

(U) The Relationship table is UNCLASSIFIED	
DED Field Name	Value
ElementName	(U) Relationship

(U) RelationshipComment

Table 26. (U) RelationshipComment

(U) The RelationshipComment table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) Additional clarifying notes, beyond what is contained within the RelationshipDefinition or the Relationship Multiplicities. Also, may contain implementation guidance or processing instructions.
ElementId	(U) ded:RelationshipComment
ElementName	(U) RelationshipComment

(U) RelationshipComments

Table 27. (U) RelationshipComments

(U) The RelationshipComments table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) A grouping of additional clarifying notes, beyond what is contained within the RelationshipDefinition or the Relationship Multiplicities. Also, may contain implementation guidance or processing instructions.
ElementId	(U) ded:RelationshipComments
ElementName	(U) RelationshipComments

(U) RelationshipDefinition

Table 28. (U) RelationshipDefinition

(U) The RelationshipDefinition table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The additional information of how Link A and Link B interact with each other, beyond multiplicity information.
ElementId	(U) ded:RelationshipDefinition
ElementName	(U) RelationshipDefinition

(U) RelationshipDefinitionSource

Table 29. (U) RelationshipDefinitionSource

(U) The RelationshipDefinitionSource table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The cited authority(ies) or reference(s) for which the knowledge to develop the RelationshipDefinition was obtained or derived.
ElementId	(U) ded:RelationshipDefinitionSource
ElementName	(U) RelationshipDefinitionSource

(U) RelationshipId

Table 30. (U) RelationshipId

(U) The RelationshipId table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The locally unique identifier of the Relationship.
ElementId	(U) ded:RelationshipId
ElementName	(U) RelationshipId

(U) RelationshipLinkADomain

Table 31. (U) RelationshipLinkADomain

(U) The RelationshipLinkADomain table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The context within which the Data Element A belongs.
ElementId	(U) ded:RelationshipLinkADomain
ElementName	(U) RelationshipLinkADomain

(U) RelationshipLinkAMultiplicity

Table 32. (U) RelationshipLinkAMultiplicity

(U) The RelationshipLinkAMultiplicity table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) This element follows the UML section 7.8.8 (MultiplicityElement) definition "A multiplicity is a definition of an inclusive interval of non-negative integers beginning with a lower bound and ending with a (possibly infinite) upper bound. A MultiplicityElement embeds this information to specify the allowable cardinalities for an instantiation of the Element." The exact tailoring of the UML is shown in the DES. Example notations [0..1], [0..*], [0..n] [1..1], [1..*], [1..n], [n..m]. Note that n and m here are variables that represent finite numbers. Actual use in a DED would replace n and m with the finite number(s) appropriate for the Relationship. For example, [0..6] means the

(U) The RelationshipLinkAMultiplicity table is UNCLASSIFIED	
DED Field Name	Value
	Relationship is optional and can have up to 6 instances. [1..5] means the Relationship is required and can have up to 5 instances. This element indicates the multiplicity of instances of A that must exist for a single instance of B and the greatest (or maximum) number of instances of A that can exist for a single instance of B.
ElementId	(U) ded:RelationshipLinkAMultiplicity
ElementName	(U) RelationshipLinkAMultiplicity

(U) RelationshipLinkAName

Table 33. (U) RelationshipLinkAName

(U) The RelationshipLinkAName table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The string identifier that represents the Data Element A.
ElementId	(U) ded:RelationshipLinkAName
ElementName	(U) RelationshipLinkAName

(U) RelationshipLinkBDomain

Table 34. (U) RelationshipLinkBDomain

(U) The RelationshipLinkBDomain table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The context within which the Data Element B belongs.
ElementId	(U) ded:RelationshipLinkBDomain
ElementName	(U) RelationshipLinkBDomain

(U) RelationshipLinkBMultiplicity

Table 35. (U) RelationshipLinkBMultiplicity

(U) The RelationshipLinkBMultiplicity table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) This element follows the UML section 7.8.8 (MultiplicityElement) definition "A multiplicity is a definition of an inclusive interval of non-negative integers beginning with a lower bound and ending with a (possibly infinite) upper bound. A MultiplicityElement embeds this information to specify the allowable cardinalities for an instantiation of the Element." The exact tailoring of the UML is shown in the DES. Example notations [0..1], [0..*], [0..n] [1..1], [1..*], [1..n], [n..m]. Note that n and m here are variables that represent finite numbers. Actual use in a DED would replace n and m with the finite number(s) appropriate for the Relationship. For example, [0..6] means the Relationship is optional and can have up to 6 instances. [1..5] means

(U) The RelationshipLinkBMultiplicity table is UNCLASSIFIED	
DED Field Name	Value
	the Relationship is required and can have up to 5 instances. This element indicates the multiplicity of instances of B that must exist for a single instance of A and the greatest (or maximum) number of instances of B that can exist for a single instance of A.
ElementId	(U) ded:RelationshipLinkBMultiplicity
ElementName	(U) RelationshipLinkBMultiplicity

(U) RelationshipLinkBName

Table 36. (U) RelationshipLinkBName

(U) The RelationshipLinkBName table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The string identifier that represents the Data Element B.
ElementId	(U) ded:RelationshipLinkBName
ElementName	(U) RelationshipLinkBName

(U) RelationshipName

Table 37. (U) RelationshipName

(U) The RelationshipName table is UNCLASSIFIED	
DED Field Name	Value
ElementDefinition	(U) The string identifier that represents the Relationship.
ElementId	(U) ded:RelationshipName
ElementName	(U) RelationshipName

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