

Template for comments and secretariat observations

Date: 2/22/6	Document: INCITS Ballot 007-06 INCITS 1574-D, Information technology - Geographic Information Framework Data Content Standards.
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1 MB <sup>1</sup>	2 Clause No./ Subclause No./ Annex (e.g. 3.1)	(3) Paragraph/ Figure/Table/ Note (e.g. Table 1)	4 Type of com- ment <sup>2</sup>	5 Comment (justification for change) by the MB	(6) Proposed change by the MB	(7) Secretariat observations on each comment submitted
	Part 7b: Rail					
Ben	7b		ge	improper, inconsistent reference	Change all references to the Transportation base part to its proper title "Transportation base (Part 7)"	Accepted
Ben	7b:8.2		ge	<p>The following comment has been submitted against Transportation base (Part 7):</p> <p><b>Segmentation Model Change:</b> The segmentation model requires all TranSegs to terminate with TranPoints. This was stipulated to insure that the resultant set of TranSegs form a complete coverage of the transportation system without gaps or overshoots. To accommodate systems without TranPoints, the model allows TranPaths to exist without an underlying TranSeg. Feedback received indicates that some people are incorrectly using TranPaths to model the physical roadway to get around the TranPoint constraint. This defeats the agreed purpose of TranPaths as a particular USE of the TranSegs with TranSegs representing the physical roadway. This normalized view allows the physical transportation system to be defined once and then used in any number of ways.</p> <p>If accepted for Transportation base (Part 7) then the ripple affect would be to change Rail (Part 7b), Roads (Part 7c), and Transit (Part 7d) accordingly.</p>	Make start point and end point RailPoints optional for a RailSeg but make RailSegs mandatory for RailPaths. Specific changes are included below and referenced back to this general comment.	Accepted
Ben	7b:8.2	line 436	ed	better if definition is consistent with definitions section	change "one of the constituent parts into which a transportation network is divided" to "a linear section of the physical transportation network"	Accepted

Type of comment: ge = general te = technical ed = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

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Ben	7b:8.2	line 451-2	ed	misses the point on how TranPaths are different from TranSegs	add “representing how they are organized and used” to the end of the first sentence.  Add “representing Route 1 after “a path” in sentence 3.	Accepted
Ben	7b:8.2	Figure 3	te	See comment 7b:8.2 <b><u>Segmentation Model Change</u></b> above	Change multiplicity of TranSeg side of its association with TranPath from 0..* to 1..*.  Change multiplicities of TranPoint end of associations with TranSeg from 1..* to 0..*  Update Table 1 accordingly: Row 6 O becomes M; rows 23 and 24 change from M to O	Accepted in principle – multiplicities match those in Part 7, Transportation Base
Ben	7b:8.2	Table 1	ed	stereotypes in element rows are redundant with those in the entity rows to which they refer	for all element rows, drop the stereotype value.  Ditto for all other data dictionary tables	Accepted
Ben	7b:8.2	Table 1	te	Equivalencies can involve whole or partial entities on either from or to end	In rows 7 and 8, change the Domain from “Unrestricted” to “Whole or partial TranPaths”.  In rows 21 and 22, change the Domain from “Unrestricted” to “Whole or partial TranSegs”.	Accepted
Ben	7b:8.2	Table 1 rows 14, 26; Table 2 rows 47, 66	ed	Data Type specified as OwnerInformation which is explained in rows 42-45 so there are no domain restrictions beyond this	Change Domain to “Unrestricted”	Accepted

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Ben	7b:8.2	Table 1 row 34	ed	old definition from a previous version of the standard was never updated	In Definition column, delete “or for representing a significant position along the transportation system such as the start or center of a tunnel or other transportation feature”	Accepted
Ben	7b:8.2	Table 1 row 41	ed	old definition from a previous version of the standard was never updated	In Definition column, delete “or for representing a significant position along the rail system such as the start or center of a tunnel or other transportation feature.”	Accepted
Ben	7b:8.2	Table 1 row 44	ed	When Data Type column value is a CodeList or Enumeration, the Domain is already restricted to these values (or extensions in the case of CodeList) so Domain should be “Unrestricted”. As currently specified on row 44, the domain says that the listed code list values cannot be extended.	Change Domain to “Unrestricted”	Accepted
Ben	7b:8.2.1	Figure 4	ed	RailPoint attributes missing from the figure which is allegedly a context diagram for RailPoint	Add RailPoint attributes to the RailPointbox in figure 4	Accepted in principle – RailPoint has only inherited properties.
Ben	7b:8.2.2	line 501	te	See comment 7c:7 <b>Segmentation Model Change</b> above	Change “must be bounded by” to “it is highly recommended that RailSegs be bounded by”	Accepted
Ben	7b:8.2.3	line 522-3	ed	extraneous, incorrect words	delete “a linear reference method is a RoadLinearFeatureEvent and”	Accepted
Ben	7b:8.2.3	Figure 6, Table 2	ed	ExtendedAttribute should be singularized	change “ExtendedAttributes” to “ExtendedAttribue” in RailSeg class in Figure 6 and in Data Type column of row 63 of Table 2	Accepted
Ben	7b:8.2.3	Table 2	ed	missing inherited RailSeg Role name element rows for from, to, startPoint, and endPoint	Add them	Accepted

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Ben	7b:8.2.4	line 540-2	ed	extraneous, incorrect words	delete” It is an instance of the feature collection metamodel. In practice, this means that members of the feature collection can be all or parts of rail segments.”	Accepted
Ben	7b:8.3	line 556	ed	wrong word – features have these, not events	change “FeatureEvents” to “Features”	Accepted
Ben	7b:8.4	lines 575-6	ed	poor wording	change “model (LRM) and a linear reference expression. This expression” to “method (LRM). A linear referenced position expression”	Accepted
Ben	7b:8.4	line 577	ed	missing (key) component	add “a distance along the RailSeg or RailPath,” after “occurs,”	Accepted
Ben	7b:8.4.1	line 591	ed	wrong word	change “metaclass” to “class”	Accepted

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Ben	7b:8.4.1	Figure 7 Table 3	te	inconsistent with Transportation base and Roads, RailLinear-(and Point)- EventTypes are shown as Unions of values which have differing data types instead of being CodeLists whose corresponding value is an attribute of RailAttributeEvent.attributeValue:CharacterString	In Figure 7, change RailLinearEventType and RailPointEventType to CodeLists and delete the data types of the choices. Add attributeValue:CharacterString attribute to the RailAttributeEvent class. In Table 3, rows 75 and 78, change Data Type column value stereotype to CodeList and Domain to "Unrestricted"	Accepted  Clarification: Did you mean 76 & 79 instead of 75 & 78  NO. Change is for the rows for linearEventType and pointEventType.  BTW, since the comment asks Doug to add an attribute to RailAttributeEvent called attributeValue, this needs to be added to the Table as well. So after (original) row 71 (RailAttributeEvent), add a new row with the following entries:  attributeValue, the value of the attribute, M, 1, CharacterString, Unrestricted..  Add "Line 72 (or whatever number this becomes)" as the Domain for RailAttributeEvent.
Ben	7b:8.4.1	Figure 7	ed	role not public	make public the "locatingFeature" role on the LocatingRailFeature side of its association with RailEvent	Doug

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Ben	7b:8.4.2	lines 620-3	ed	wrong attributes – some are for feature, some for the feature event, and some don't apply to either	Add the underlined text and delete the strikethrough text: “point geometry. <u>Features can also have topology, identifier, metadata, lastUpdateDate, and extendedAttribute attributes.</u> <del>The This</del> feature can also be linearly located along a rail segment or path using a rail feature event. RailFeatureEvents <u>have a location property and a classes</u> <del>contain the inherited properties of geometry, a date/time stamp (lastUpdateDate), a feature identifier (identifier), data source (source), an event type (eventType), an event value (attributeValue), and a feature type (featureType).</del> ”	Accepted
Ben	7b:8.4.2	lines 629-31	ed	misconception about features vs. feature events	On line 629, change “feature event” to “feature” On line 631, change “three” to “two” On line 631, change “feature event geometry” to “feature geometry” On line 631, delete “the feature event class,”	Accepted
Ben	7b:8.4.2	Figure 8	ed	duplicate role name (curiously not duplicated in Figure 7 with both figures coming from the same model)	delete the non-public “locatingFeature” redundant role name from the LocatingRailFeature side of its association with RailEvent	Doug

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Ben	7b:8.4.2.2	Table 3	te	missing entity Framework::Feature	add rows for Framework::Feature and its role linearLocation	Accepted. Clarification: I need more specificity on this one Add two rows to Table 3 from Figure 7: (shaded) (n), Framework:Feature, A feature from any Framework Part, (blank), (blank), <<Abstract>>, Line (n+1) (n+1), Role name: LinearLocation, the location of the Framework Feature along a RailSeg or RailPath, O, *, RailFeatureEvent, Unrestricted
Ben	7b:8.4.2.2	Table 3 row 70	ed	The Data Type is explained in rows 86-89. No further restriction is appropriate when used on line 70	Change Domain value to "unrestricted"	Accepted
Ben	7b:8.4.2.2	Table 3 row 92	ed	When Data Type column value is a CodeList or Enumeration, the Domain is already restricted to these values (or extensions in the case of CodeList) so Domain should be "Unrestricted". As stated on row 92, the domain says that the listed code list values cannot be extended.	Change Domain to "Unrestricted"	Accepted
Ben	7b:8.5	Figure 9, Table 4	ed	ExtendedAttributes should be singularized	change "ExtendedAttributes" to "ExtendedAttribute" in RailFacilityOrAdminFeature class in Figure 9 and in Data Type column of row 105 of Table 4	Doug

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Ben	7b:8.5	Table 4 row 105	ed	Data Type specified as OwnerInformation which is explained in rows 42-45 so there are no domain restrictions beyond this	Change Domain to “Unrestricted”	Accepted.  Already shows as Unrestricted  Should be row 99 (owner)
Ben	7b:8.5.1-13	Figures 10-22  Tables 5-17	ed	A context diagram should only show attributes for the class being contexted. The attributes for RailFacilityOrAdminFeature should not be shown redundantly in each of these figures since it already appears in Figure 9 – a convention agreed by all. The danger is that redundant info can easily get out of step (e.g., ExtendedAttributes instead of ExtendedAttribute would have to be changed in all diagrams.	In Figures 10-22, suppress attributes for RailFacilityOrAdminFeature class, else change ExtendedAttributes in every one to singular.  Similarly suppress attributes in the RoadPoint(or Linear)FeatureEvent class box.  In Tables 5-17, delete the RailFacilityOrAdminFeature entity and all its elements, else make extendedAttributes singular and make operator Domain “Unrestricted” in all of these Tables; Similarly, remove RailPoint(or Linear)FeatureEvent entity and elements from these tables, else correct in each one the Definition for atposition from “attribute value applies” to “feature is located” or the Definition for start- and endPosition from “attribute value” to “feature” where feature is the name of the feature, e.g., RailStation in Table 5, row 121.	Doug          Accepted. I’ve made these changes as I understand them.  Should be “owner”, not “operator”, e.g., old line 107 new line 111. Change domain to Unrestricted. Ditto for all subsequent Tables .    Old 107 already says “owner”, so left unchanged. I did change 107 domain to “Unrestricted” and all subsequent tables.
Ben	7b:8.5.1-13	Figures 10-22  Tables 5-17	te	To be consistent with Figure 8, the Role name “event” should be changed to “linearLocation”. This was purposely used in Figure 8 to reinforce the notion that the sole purpose of the event is to linearly locate the feature.	Change “event” to “linearLocation” in Figures and Tables	

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Ben	7b:8.5.1-13	Tables 5-17	te	The Definitions for all Role name = event are incorrect. The event is not located by the feature, it locates the feature	In each table, change “located by the feature” to “which linearly locates the <i>feature</i> ”, where <i>feature</i> is replaced by the appropriate RailFacilityOrAdminFeature (e.g., RailStation on line 119)	
Ben	7b:8.6.1	Tables 18-31	te	missing definitions		
Ben	7b:8.6.1.1-12	lines 833, 838, 843, 848, 853, 858, 863, 868, 873, 879, 884, and 889	ed	code lists are non-exhaustive which is why they are not enumerations	delete the redundant “non-exhaustive” CodeList adjective	
	end of comments					

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