

# DRAFT - Information Delivery Specification v0.2

More information on <https://github.com/buildingSMART/IDS/tree/master/Development>

schema location: [ids.xsd](#)  
 attributeFormDefault: **unqualified**  
 elementFormDefault: **qualified**  
 targetNamespace: <http://standards.buildingsmart.org/IDS>

Elements    Complex types  
[ids](#)        [applicabilityType](#)  
              [classificationType](#)  
              [entityType](#)  
              [idsType](#)  
              [materialType](#)  
              [propertyType](#)  
              [requirementsType](#)  
              [specificationType](#)  
              [systemType](#)

## element **ids**

diagram	<p>The diagram illustrates the 'ids' element as a complex type extension. A box labeled 'ids' is connected to a dashed box labeled 'ids:idsType (extension)'. Inside this dashed box, there is a sequence container (rectangle with three dots) containing two elements: 'ids:specification' (with a multiplicity of 1..∞) and 'ids:info'.</p>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	extension of <a href="#">ids:idsType</a>
properties	content    complex
children	<a href="#">ids:specification</a> <a href="#">ids:info</a>
source	<pre>&lt;xs:element name="ids"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:idsType"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="info"&gt;             &lt;xs:complexType&gt;               &lt;xs:choice&gt;</pre>


	<pre> &lt;xs:element name="ifcversion"/&gt; &lt;xs:element name="description" minOccurs="0"/&gt; &lt;xs:element name="author" minOccurs="0"/&gt; &lt;xs:element name="copyright"/&gt; &lt;xs:element name="version"/&gt; &lt;xs:element name="date" type="xs:date"/&gt; &lt;xs:element name="purpose" minOccurs="0"/&gt; &lt;xs:element name="milestone" minOccurs="0"/&gt; &lt;/xs:choice&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; &lt;/xs:sequence&gt; &lt;/xs:extension&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
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### element **ids/info**

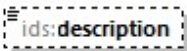
diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
properties	content complex
children	<a href="#">ids:ifcversion</a> <a href="#">ids:description</a> <a href="#">ids:author</a> <a href="#">ids:copyright</a> <a href="#">ids:version</a> <a href="#">ids:date</a> <a href="#">ids:purpose</a> <a href="#">ids:milestone</a>
source	<pre> &lt;xs:element name="info"&gt;   &lt;xs:complexType&gt;     &lt;xs:choice&gt;       &lt;xs:element name="ifcversion"/&gt;       &lt;xs:element name="description" minOccurs="0"/&gt;       &lt;xs:element name="author" minOccurs="0"/&gt;       &lt;xs:element name="copyright"/&gt;       &lt;xs:element name="version"/&gt;       &lt;xs:element name="date" type="xs:date"/&gt;       &lt;xs:element name="purpose" minOccurs="0"/&gt;       &lt;xs:element name="milestone" minOccurs="0"/&gt;     &lt;/xs:choice&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

	<pre>&lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>
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#### element **ids/info/ifcversion**

diagram	
namespace	http://standards.buildingsmart.org/IDS
source	<pre>&lt;xs:element name="ifcversion"/&gt;</pre>

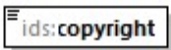
#### element **ids/info/description**

diagram	
namespace	http://standards.buildingsmart.org/IDS
properties	minOcc 0 maxOcc 1
source	<pre>&lt;xs:element name="description" minOccurs="0"/&gt;</pre>


#### element **ids/info/author**

diagram	
namespace	http://standards.buildingsmart.org/IDS
properties	minOcc 0 maxOcc 1
source	<pre>&lt;xs:element name="author" minOccurs="0"/&gt;</pre>


#### element **ids/info/copyright**

diagram	
namespace	http://standards.buildingsmart.org/IDS
source	<pre>&lt;xs:element name="copyright"/&gt;</pre>

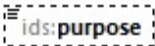
#### element **ids/info/version**

diagram	
namespace	http://standards.buildingsmart.org/IDS
source	<pre>&lt;xs:element name="version"/&gt;</pre>

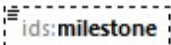
element **ids/info/date**

diagram	
namespace	http://standards.buildingsmart.org/IDS
type	<b>xs:date</b>
properties	content simple
source	<code>&lt;xs:element name="date" type="xs:date"/&gt;</code>

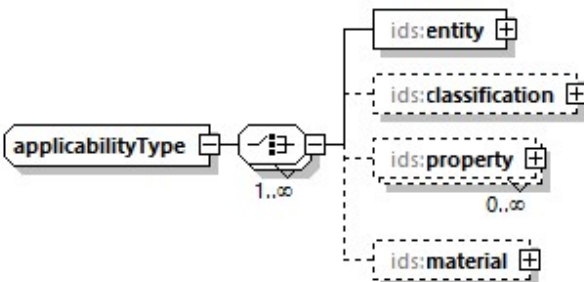
element **ids/info/purpose**

diagram	
namespace	http://standards.buildingsmart.org/IDS
properties	minOcc 0 maxOcc 1
source	<code>&lt;xs:element name="purpose" minOccurs="0"/&gt;</code>

element **ids/info/milestone**

diagram	
namespace	http://standards.buildingsmart.org/IDS
properties	minOcc 0 maxOcc 1
source	<code>&lt;xs:element name="milestone" minOccurs="0"/&gt;</code>

complexType **applicabilityType**

diagram	
namespace	http://standards.buildingsmart.org/IDS
children	<a href="#">ids:entity</a> <a href="#">ids:classification</a> <a href="#">ids:property</a> <a href="#">ids:material</a>
used by	element <a href="#">specificationType/applicability</a>

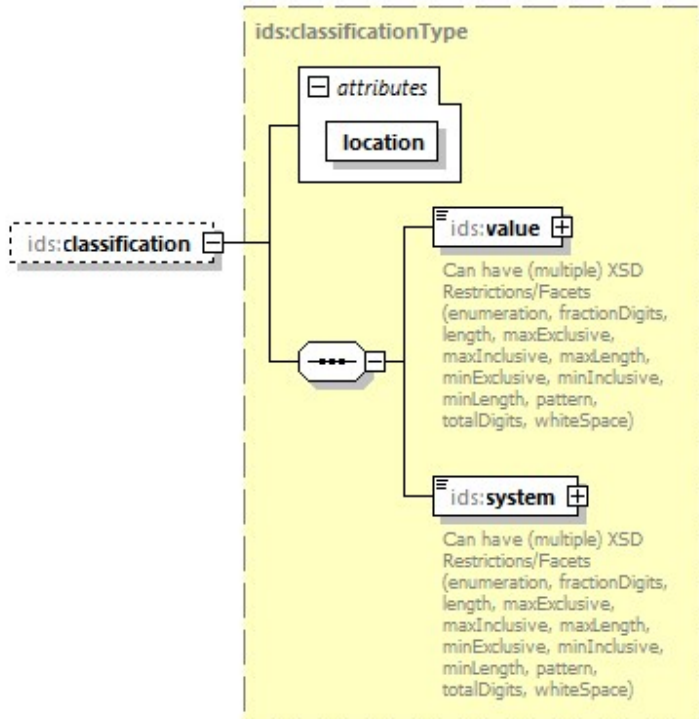
source	<pre> &lt;xs:complexType name="applicabilityType"&gt;   &lt;xs:choice maxOccurs="unbounded"&gt;     &lt;xs:element name="entity" type="ids:entityType"/&gt;     &lt;xs:element name="classification" type="ids:classificationType" minOccurs="0"/&gt;     &lt;xs:element name="property" minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:complexType&gt;         &lt;xs:complexContent&gt;           &lt;xs:extension base="ids:propertyType"/&gt;         &lt;/xs:complexContent&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;     &lt;xs:element name="material" minOccurs="0"&gt;       &lt;xs:complexType&gt;         &lt;xs:complexContent&gt;           &lt;xs:extension base="ids:materialType"/&gt;         &lt;/xs:complexContent&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;   &lt;/xs:choice&gt; &lt;/xs:complexType&gt; </pre>
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#### element **applicabilityType/entity**

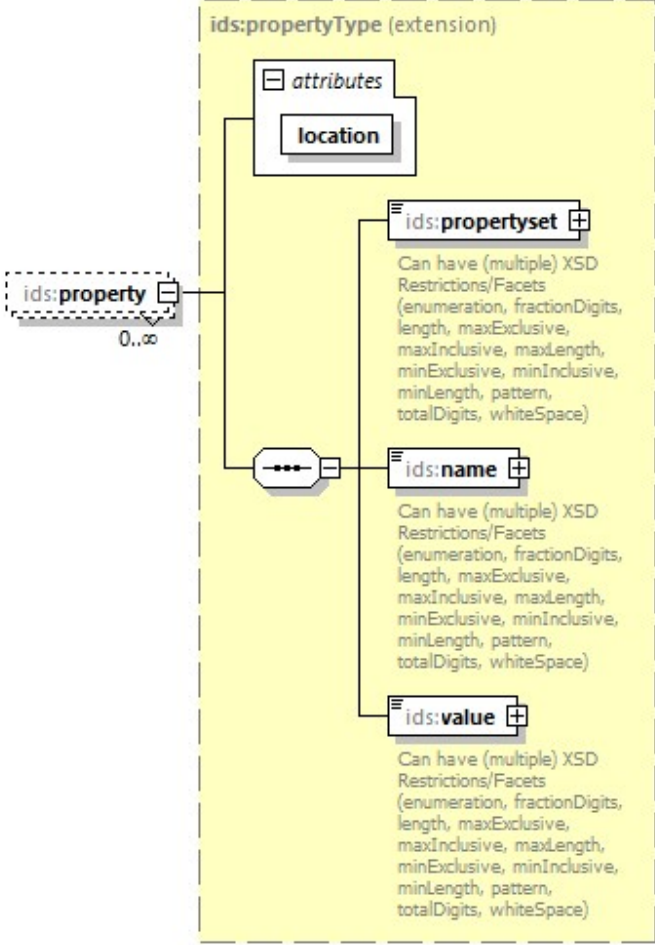
diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:entityType</a>
properties	content complex

children	<a href="#">ids:name</a> <a href="#">ids:predefinedtype</a>
source	<code>&lt;xs:element name="entity" type="ids:entityType"/&gt;</code>

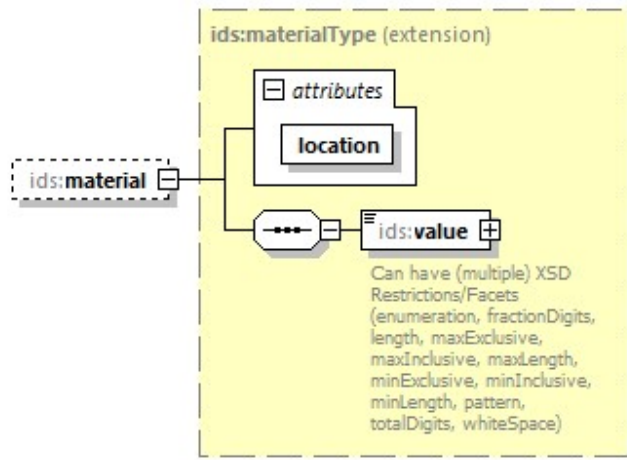
### element **applicabilityType/classification**

diagram						
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>					
type	<a href="#">ids:classificationType</a>					
properties	minOcc	0	maxOcc	1	content	complex
children	<a href="#">ids:value</a> <a href="#">ids:system</a>					
attributes	Name <a href="#">location</a>	Type <b>derived by:</b> <b>xs:string</b>	Use required	Default	Fixed	Annotation
source	<code>&lt;xs:element name="classification" type="ids:classificationType" minOccurs="0"/&gt;</code>					

element **applicabilityType/property**

diagram						
namespace	http://standards.buildingsmart.org/IDS					
type	extension of <a href="#">ids:propertyType</a>					
properties	minOcc	0	maxOcc	unbounded	content	complex
children	<a href="#">ids:propertyset</a> <a href="#">ids:name</a> <a href="#">ids:value</a>					
attributes	Name <a href="#">location</a>	Type <b>derived by:</b> <b>xs:string</b>	Use required	Default	Fixed	Annotation
source	<pre>&lt;xs:element name="property" minOccurs="0" maxOccurs="unbounded"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:propertyType"/&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>					

element **applicabilityType/material**

diagram						
namespace	http://standards.buildingsmart.org/IDS					
type	extension of <a href="#">ids:materialType</a>					
properties	minOcc	0				
	maxOcc	1				
	content	complex				
children	<a href="#">ids:value</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">location</a>	<b>derived by:</b> <b>xs:string</b>	required			
source	<pre>&lt;xs:element name="material" minOccurs="0"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:materialType"/&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>					



complexType **classificationType**

diagram						
namespace	http://standards.buildingsmart.org/IDS					
children	<a href="#">ids:value</a> <a href="#">ids:system</a>					
used by	elements	<a href="#">applicabilityType/classification</a> <a href="#">requirementsType/classification</a>				
attributes	Name <a href="#">location</a>	Type <b>derived by:</b> <b>xs:string</b>	Use required	Default	Fixed	Annotation
source	<pre> &lt;xs:complexType name="classificationType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="value" type="xs:anyType"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace) &lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="system" type="xs:anyType"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="location" use="required"&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:string"&gt;         &lt;xs:enumeration value="type"/&gt;         &lt;xs:enumeration value="instance"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:attribute&gt; &lt;/xs:complexType&gt; </pre>					

	<pre>         &lt;xs:enumeration value="any"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:attribute&gt; &lt;/xs:complexType&gt; </pre>
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**attribute `classificationType/@location`**

type	restriction of <b>xs:string</b>		
properties	use required		
facets	Kind	Value	Annotation
	enumeration	type	
	enumeration	instance	
	enumeration	any	
source	<pre>&lt;xs:attribute name="location" use="required"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="type"/&gt;       &lt;xs:enumeration value="instance"/&gt;       &lt;xs:enumeration value="any"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>		

**element `classificationType/value`**

diagram	<p>ids:value</p> <p>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p> <p>xs:anyType</p> <p>attributes</p> <p>any</p> <p>any</p> <p>0..∞</p>						
namespace	http://standards.buildingsmart.org/IDS						
type	xs:anyType						
properties	content complex mixed true						
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead></table>	Name	Type	Use	Default	Fixed	Annotation
Name	Type	Use	Default	Fixed	Annotation		
annotation	documentation Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)						

source	<pre> &lt;xs:element name="value" type="xs:anyType"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)   &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>
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### element classificationType/system

diagram	<p>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>												
namespace	http://standards.buildingsmart.org/IDS												
type	<b>xs:anyType</b>												
properties	content complex mixed true												
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td colspan="6"></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation						
Name	Type	Use	Default	Fixed	Annotation								
annotation	documentation Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)												
source	<pre>&lt;xs:element name="system" type="xs:anyType"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>												

complexType **entityType**

diagram	<p>Can only be entities from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p> <p>Can only be predefined types from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
children	<a href="#">ids:name</a> <a href="#">ids:predefinedtype</a>
used by	elements <a href="#">applicabilityType/entity</a> <a href="#">requirementsType/entity</a>
source	<pre> &lt;xs:complexType name="entityType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="name" type="xs:anyType"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Can only be entities from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="predefinedtype" type="xs:anyType" minOccurs="0"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Can only be predefined types from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

element **entityType/name**

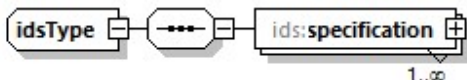
diagram	<p>Can only be entities from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>
namespace	http://standards.buildingsmart.org/IDS
type	<b>xs:anyType</b>
properties	content complex mixed true
attributes	Name Type Use Default Fixed Annotation
annotation	<p>documentation</p> <p>Can only be entities from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>
source	<pre>&lt;xs:element name="name" type="xs:anyType"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Can only be entities from the IFC schema for which the IDS is     created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits,     length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive,     minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

element **entityType/predefinedtype**

diagram	<p>Can only be predefined types from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>
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namespace	http://standards.buildingsmart.org/IDS					
type	<b>xs:anyType</b>					
properties	minOcc	0	maxOcc	1	content	complex
					mixed	true
attributes	Name	Type	Use	Default	Fixed	Annotation
annotation	documentation Can only be predefined types from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)					
source	<pre>&lt;xs:element name="predefinedtype" type="xs:anyType" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Can only be predefined types from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>					

### complexType **idsType**

diagram	
namespace	http://standards.buildingsmart.org/IDS
children	<a href="#">ids:specification</a>
used by	element <a href="#">ids</a>
source	<pre>&lt;xs:complexType name="idsType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="specification" type="ids:specificationType" maxOccurs="unbounded"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt;</pre>

element **idsType/specification**

diagram						
namespace	http://standards.buildingsmart.org/IDS					
type	<a href="#">ids:specificationType</a>					
properties	minOcc	1	maxOcc	unbounded	content	complex
children	<a href="#">ids:applicability</a> <a href="#">ids:requirements</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">name</a>	<b>xs:string</b>	optional			
source	<pre>&lt;xs:element name="specification" type="ids:specificationType" maxOccurs="unbounded"/&gt;</pre>					

complexType **materialType**

diagram						
namespace	http://standards.buildingsmart.org/IDS					
children	<a href="#">ids:value</a>					
used by	elements	<a href="#">applicabilityType/material</a> <a href="#">requirementsType/material</a>				
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">location</a>	<b>derived by:</b> <b>xs:string</b>	required			
source	<pre>&lt;xs:complexType name="materialType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="value" type="xs:anyType"&gt;       &lt;xs:annotation&gt;</pre>					

	<pre>         &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets         (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength,         minExclusive, minInclusive, minLength, pattern, totalDigits,         whitespace)&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="location" use="required"&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:string"&gt;         &lt;xs:enumeration value="type"/&gt;         &lt;xs:enumeration value="instance"/&gt;         &lt;xs:enumeration value="any"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:attribute&gt; &lt;/xs:complexType&gt; </pre>
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#### attribute **materialType/@location**

type	restriction of <b>xs:string</b>		
properties	use	required	
facets	Kind	Value	Annotation
	enumeration	type	
	enumeration	instance	
	enumeration	any	
source	<pre> &lt;xs:attribute name="location" use="required"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="type"/&gt;       &lt;xs:enumeration value="instance"/&gt;       &lt;xs:enumeration value="any"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; </pre>		



element **materialType/value**

diagram	<div><div><div>ids:value</div><div>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</div></div><div><div>xs:anyType</div><div><div>attributes</div><div>any</div><div>any 0..∞</div></div></div></div>						
namespace	http://standards.buildingsmart.org/IDS						
type	xs:anyType						
properties	content complex mixed true						
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></table>	Name	Type	Use	Default	Fixed	Annotation
Name	Type	Use	Default	Fixed	Annotation		
annotation	documentation Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)						
source	<xs:element name="value" type="xs:anyType"> <xs:annotation> <xs:documentation>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</xs:documentation> </xs:annotation> </xs:element>						

complexType **propertyType**

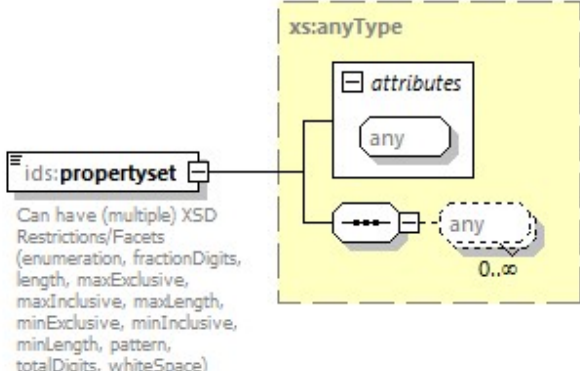
diagram						
namespace	http://standards.buildingsmart.org/IDS					
children	<a href="#">ids:propertyset</a> <a href="#">ids:name</a> <a href="#">ids:value</a>					
used by	elements <a href="#">applicabilityType/property</a> <a href="#">requirementsType/property</a>					
attributes	Name <a href="#">location</a>	Type <b>derived by:</b> <b>xs:string</b>	Use required	Default	Fixed	Annotation
source	<pre> &lt;xs:complexType name="propertyType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="propertyset" type="xs:anyType"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="name" type="xs:anyType"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="value" type="xs:anyType"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>					

	<pre>         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="value" type="xs:anyType"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)         &lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="location" use="required"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:string"&gt;           &lt;xs:enumeration value="type"/&gt;           &lt;xs:enumeration value="instance"/&gt;           &lt;xs:enumeration value="any"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; </pre>
--	--

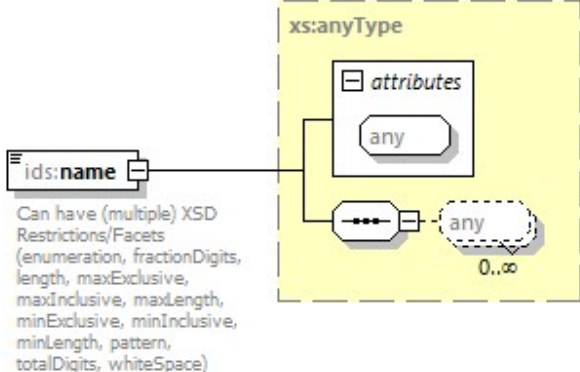
#### attribute **propertyType**/@location

type	restriction of <b>xs:string</b>		
properties	use	required	
facets	Kind	Value	Annotation
	enumeration	type	
	enumeration	instance	
	enumeration	any	
source	<pre> &lt;xs:attribute name="location" use="required"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="type"/&gt;       &lt;xs:enumeration value="instance"/&gt;       &lt;xs:enumeration value="any"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; </pre>		

element **propertyType/propertyset**

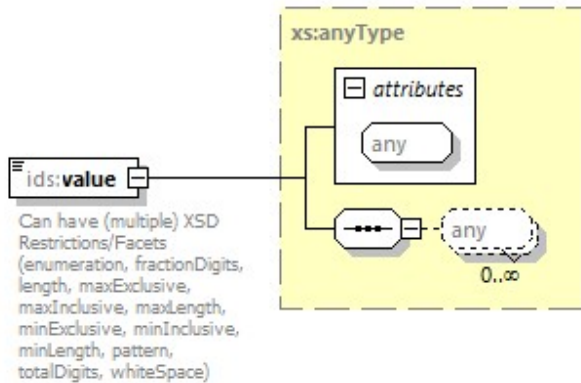
diagram	 <p>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>
namespace	http://standards.buildingsmart.org/IDS
type	<b>xs:anyType</b>
properties	content    complex mixed    true
attributes	Name                      Type                      Use                      Default                      Fixed                      Annotation
annotation	documentation Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)
source	<pre>&lt;xs:element name="propertyset" type="xs:anyType"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

element **propertyType/name**

diagram	 <p>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>
namespace	http://standards.buildingsmart.org/IDS
type	<b>xs:anyType</b>
properties	content    complex mixed    true

attributes	Name	Type	Use	Default	Fixed	Annotation
annotation	documentation	Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)				
source	<pre>&lt;xs:element name="name" type="xs:anyType"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>					

### element **propertyType/value**

element	property/value					
diagram	 <p>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>					
namespace	http://standards.buildingsmart.org/IDS					
type	xs:anyType					
properties	content	complex				
	mixed	true				
attributes	Name	Type	Use	Default	Fixed	Annotation
annotation	documentation	Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)				
source	<pre>&lt;xs:element name="value" type="xs:anyType"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace) &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>					

## complexType requirementsType

diagram	
namespace	http://standards.buildingsmart.org/IDS
children	<a href="#">ids:entity</a> <a href="#">ids:classification</a> <a href="#">ids:property</a> <a href="#">ids:material</a>
used by	element <a href="#">specificationType/requirements</a>
source	<pre> &lt;xs:complexType name="requirementsType"&gt;   &lt;xs:choice maxOccurs="unbounded"&gt;     &lt;xs:element name="entity" type="ids:entityType" minOccurs="0"/&gt;     &lt;xs:element name="classification" minOccurs="0"&gt;       &lt;xs:complexType&gt;         &lt;xs:complexContent&gt;           &lt;xs:extension base="ids:classificationType"&gt;             &lt;xs:sequence&gt;               &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;                 &lt;xs:annotation&gt;                   &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;                 &lt;/xs:annotation&gt;               &lt;/xs:element&gt;             &lt;/xs:sequence&gt;             &lt;xs:attribute name="use" use="optional"&gt;               &lt;xs:simpleType&gt;                 &lt;xs:restriction base="xs:string"&gt;                   &lt;xs:enumeration value="required"/&gt;                   &lt;xs:enumeration value="optional"/&gt;                 &lt;/xs:restriction&gt;               &lt;/xs:simpleType&gt;             &lt;/xs:attribute&gt;           &lt;/xs:extension&gt;         &lt;/xs:complexContent&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;     &lt;xs:element name="property" minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:complexType&gt;         &lt;xs:complexContent&gt;           &lt;xs:extension base="ids:propertyType"&gt;             &lt;xs:sequence&gt;               &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;                 &lt;xs:annotation&gt;                   &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;                 &lt;/xs:annotation&gt;               &lt;/xs:element&gt;             &lt;/xs:sequence&gt;           &lt;/xs:extension&gt;         &lt;/xs:complexContent&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;     &lt;xs:element name="material" minOccurs="0"&gt;       &lt;xs:complexType&gt;         &lt;xs:complexContent&gt;           &lt;xs:extension base="ids:materialType"&gt;             &lt;xs:sequence&gt;               &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;                 &lt;xs:annotation&gt;                   &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;                 &lt;/xs:annotation&gt;               &lt;/xs:element&gt;             &lt;/xs:sequence&gt;           &lt;/xs:extension&gt;         &lt;/xs:complexContent&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;   &lt;/xs:choice&gt; </pre>

```

        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="href" type="xs:string" use="optional"/>
    <xs:attribute name="use" use="optional">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="required"/>
          <xs:enumeration value="optional"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="material" minOccurs="0">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="ids:materialType">
        <xs:sequence>
          <xs:element name="instructions" type="xs:string" minOccurs="0">
            <xs:annotation>
              <xs:documentation>Author of the IDS can leave instructions for the
authors of the IFC. This text could/should be displayed in the BIM/IFC authoring
tool.</xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute name="use" use="optional">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="required"/>
              <xs:enumeration value="optional"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:attribute>
        <xs:attribute name="href" type="xs:string"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>

```

element **requirementsType/entity**

diagram	<p><b>ids:entityType</b></p> <p><b>ids:name</b> </p> <p>Can only be entities from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p> <p><b>ids:predefinedtype</b> </p> <p>Can only be predefined types from the IFC schema for which the IDS is created. Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:entityType</a>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">ids:name</a> <a href="#">ids:predefinedtype</a>
source	<pre>&lt;xs:element name="entity" type="ids:entityType" minOccurs="0"/&gt;</pre>



element **requirementsType/classification**

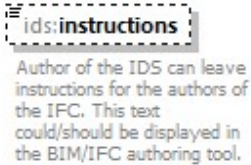
diagram	<p><b>ids:classificationType (extension)</b></p> <p><b>attributes</b></p> <p><b>location</b></p> <p><b>ids:value</b> +</p> <p>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p> <p><b>ids:system</b> +</p> <p>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</p> <p><b>attributes</b></p> <p><b>use</b></p> <p><b>ids:instructions</b></p> <p>Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.</p>																		
namespace	http://standards.buildingsmart.org/IDS																		
type	extension of <a href="#">ids:classificationType</a>																		
properties	minOcc 0 maxOcc 1 content complex																		
children	<a href="#">ids:value</a> <a href="#">ids:system</a> <a href="#">ids:instructions</a>																		
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td><a href="#">location</a></td><td><b>derived by:</b> <b>xs:string</b></td><td>required</td><td></td><td></td><td></td></tr><tr><td><a href="#">use</a></td><td><b>derived by:</b> <b>xs:string</b></td><td>optional</td><td></td><td></td><td></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">location</a>	<b>derived by:</b> <b>xs:string</b>	required				<a href="#">use</a>	<b>derived by:</b> <b>xs:string</b>	optional			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">location</a>	<b>derived by:</b> <b>xs:string</b>	required																	
<a href="#">use</a>	<b>derived by:</b> <b>xs:string</b>	optional																	
source	<pre>&lt;xs:element name="classification" minOccurs="0"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:classificationType"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;</pre>																		

	<pre>         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;Author of the IDS can leave instructions for the           authors of the IFC. This text could/should be displayed in the BIM/IFC authoring           tool.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="use" use="optional"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:string"&gt;           &lt;xs:enumeration value="required"/&gt;           &lt;xs:enumeration value="optional"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:attribute&gt;   &lt;/xs:extension&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
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#### attribute **requirementsType/classification/@use**

type	restriction of <b>xs:string</b>		
properties	use	optional	
facets	Kind enumeration enumeration	Value required optional	Annotation
source	<pre>&lt;xs:attribute name="use" use="optional"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="required"/&gt;       &lt;xs:enumeration value="optional"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>		

#### element **requirementsType/classification/instructions**

diagram							
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>						
type	<b>xs:string</b>						
properties	<table> <tr> <td>minOcc</td><td>0</td></tr> <tr> <td>maxOcc</td><td>1</td></tr> <tr> <td>content</td><td>simple</td></tr> </table>	minOcc	0	maxOcc	1	content	simple
minOcc	0						
maxOcc	1						
content	simple						

annotation	documentation Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.
source	<pre>&lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

element **requirementsType/property**

diagram	<div><div><div><div><div><div>ids:propertyType (extension)</div><div><div>attributes</div><div>location</div></div></div><div><div>ids:propertyset</div><div>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</div></div><div><div>ids:name</div><div>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</div></div><div><div>ids:value</div><div>Can have (multiple) XSD Restrictions/Facets (enumeration, fractionDigits, length, maxExclusive, maxInclusive, maxLength, minExclusive, minInclusive, minLength, pattern, totalDigits, whiteSpace)</div></div></div></div><div><div>ids:property</div><div>0..∞</div></div><div><div>attributes</div><div><div>href</div><div>use</div></div><div><div>ids:instructions</div><div>Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.</div></div></div></div></div>
namespace	http://standards.buildingsmart.org/IDS
type	extension of <a href="#">ids:propertyType</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">ids:propertyset</a> <a href="#">ids:name</a> <a href="#">ids:value</a> <a href="#">ids:instructions</a>
attributes	Name                      Type                      Use                      Default                      Fixed                      Annotation

	<a href="#">location</a> <b>derived by:</b> required <b>xs:string</b> <a href="#">href</a> <b>xs:string</b> optional <a href="#">use</a> <b>derived by:</b> optional <b>xs:string</b>
source	<pre> &lt;xs:element name="property" minOccurs="0" maxOccurs="unbounded"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:propertyType"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;             &lt;xs:annotation&gt;               &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;             &lt;/xs:annotation&gt;           &lt;/xs:element&gt;         &lt;/xs:sequence&gt;         &lt;xs:attribute name="href" type="xs:string" use="optional"/&gt;         &lt;xs:attribute name="use" use="optional"&gt;           &lt;xs:simpleType&gt;             &lt;xs:restriction base="xs:string"&gt;               &lt;xs:enumeration value="required"/&gt;               &lt;xs:enumeration value="optional"/&gt;             &lt;/xs:restriction&gt;           &lt;/xs:simpleType&gt;         &lt;/xs:attribute&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

attribute **requirementsType/property/@href**

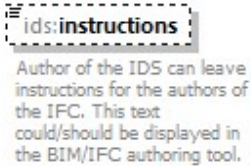
type	<b>xs:string</b>
properties	use optional
source	<pre>&lt;xs:attribute name="href" type="xs:string" use="optional"/&gt;</pre>

attribute **requirementsType/property/@use**

type	restriction of <b>xs:string</b>		
properties	use optional		
facets	Kind	Value	Annotation
	enumeration	required	
	enumeration	optional	
source	<pre>&lt;xs:attribute name="use" use="optional"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="required"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>		

	<pre> &lt;xs:enumeration value="optional"/&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; </pre>
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### element **requirementsType/property/instructions**

diagram	
namespace	http://standards.buildingsmart.org/IDS
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.
source	<pre> &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>

element **requirementsType/material**

diagram						
namespace	http://standards.buildingsmart.org/IDS					
type	extension of <a href="#">ids:materialType</a>					
properties	minOcc	0	maxOcc	1	content	complex
children	<a href="#">ids:value</a> <a href="#">ids:instructions</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">location</a>	<b>derived by:</b> <b>xs:string</b>	required			
	<a href="#">use</a>	<b>derived by:</b> <b>xs:string</b>	optional			
	<a href="#">href</a>	<b>xs:string</b>				
source	<pre>&lt;xs:element name="material" minOccurs="0"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:materialType"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;             &lt;xs:annotation&gt;               &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;             &lt;/xs:annotation&gt;           &lt;/xs:element&gt;         &lt;/xs:sequence&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>					

	<pre>         &lt;/xs:element&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="use" use="optional"&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:string"&gt;             &lt;xs:enumeration value="required"/&gt;             &lt;xs:enumeration value="optional"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:attribute&gt;       &lt;xs:attribute name="href" type="xs:string"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
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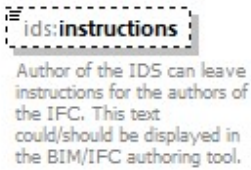
**attribute requirementsType/material/@use**

attribute <b>requirementsType/material/@use</b>			
type	restriction of <b>xs:string</b>		
properties	use optional		
facets	Kind	Value	Annotation
	enumeration	required	
	enumeration	optional	
source	<pre>&lt;xs:attribute name="use" use="optional"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="required"/&gt;       &lt;xs:enumeration value="optional"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>		

**attribute requirementsType/material/@href**

type	<b>xs:string</b>
source	<pre> &lt;xs:attribute name="href" type="xs:string"/&gt; </pre>

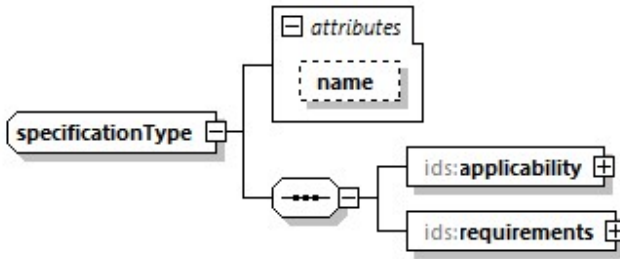
**element requirementsType/material/instructions**

diagram	
namespace	http://standards.buildingsmart.org/IDS
type	<b>xs:string</b>



properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.
source	<pre>&lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### complexType **specificationType**

diagram						
namespace	http://standards.buildingsmart.org/IDS					
children	<a href="#">ids:applicability</a> <a href="#">ids:requirements</a>					
used by	element <a href="#">idsType/specification</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">name</a>	xs:string	optional			
source	<pre>&lt;xs:complexType name="specificationType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="applicability" type="ids:applicabilityType"/&gt;     &lt;xs:element name="requirements" type="ids:requirementsType"/&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="name" type="xs:string" use="optional"/&gt; &lt;/xs:complexType&gt;</pre>					

### attribute **specificationType/@name**

type	xs:string
properties	use optional
source	<pre>&lt;xs:attribute name="name" type="xs:string" use="optional"/&gt;</pre>

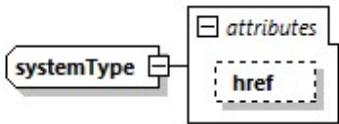
element **specificationType/applicability**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:applicabilityType</a>
properties	content complex
children	<a href="#">ids:entity</a> <a href="#">ids:classification</a> <a href="#">ids:property</a> <a href="#">ids:material</a>
source	<code>&lt;xs:element name="applicability" type="ids:applicabilityType"/&gt;</code>

element **specificationType/requirements**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:requirementsType</a>
properties	content complex
children	<a href="#">ids:entity</a> <a href="#">ids:classification</a> <a href="#">ids:property</a> <a href="#">ids:material</a>
source	<code>&lt;xs:element name="requirements" type="ids:requirementsType"/&gt;</code>

complexType **systemType**

diagram						
namespace	http://standards.buildingsmart.org/IDS					
type	extension of <b>xs:string</b>					
properties	base xs:string					
attributes	Name <a href="#">href</a>	Type <b>xs:anyURI</b>	Use optional	Default	Fixed	Annotation
source	<pre>&lt;xs:complexType name="systemType"&gt;   &lt;xs:simpleContent&gt;     &lt;xs:extension base="xs:string"&gt;       &lt;xs:attribute name="href" type="xs:anyURI" use="optional"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:simpleContent&gt; &lt;/xs:complexType&gt;</pre>					

attribute **systemType/@href**

type	<b>xs:anyURI</b>
properties	use optional
source	<pre>&lt;xs:attribute name="href" type="xs:anyURI" use="optional"/&gt;</pre>