Schema core.xsd

|  |  |
| --- | --- |
| schema location: | [..\core.xsd](file:./../core.xsd) |
| attributeFormDefault: | unqualified |
| elementFormDefault: | unqualified |
| blockDefault: |  |
| finalDefault: |  |
| targetNamespace: | http://docs.buildingsmartalliance.org/nbims03/lcie/core |

| Elements | Complex types | Simple types | Attributes |
| --- | --- | --- | --- |
| [Attribute](#Link1)  [AttributeKey](#Link3)  [Contact](#Link6)  [ContactKey](#Link8)  [CreateContactRequest](#LinkA)  [CreateHandlerID](#LinkD)  [CreateRequest](#LinkF)  [CreateResult](#Link11)  [CreateResultMessage](#Link16)  [CreateSuccess](#Link15)  [DeleteContactRequest](#Link18)  [DeleteHandlerID](#Link19)  [DeleteRequest](#Link1B)  [DeleteResult](#Link1C)  [DeleteResultMessage](#Link1F)  [DeleteSuccess](#Link1E)  [Document](#Link20)  [DocumentKey](#Link22)  [InformationExchange](#Link25)  [InformationExchangeID](#Link13)  [Issue](#Link2B)  [IssueKey](#Link2D)  [Key](#Link30)  [ProjectID](#LinkC)  [ReadAllRequest](#Link32)  [ReadAllResult](#Link35)  [ReadHandlerID](#Link34)  [ReadRequest](#Link36)  [ReadResult](#Link37)  [RevisionID](#Link14)  [SessionToken](#Link3B)  [UpdateContactRequest](#Link3C)  [UpdateHandlerID](#Link3E)  [UpdateRequest](#Link3F)  [UpdateResult](#Link40)  [UpdateResultMessage](#Link42)  [UpdateSuccess](#Link41)  [UserID](#Link43) | [AttributeClientRequestType](#Link44)  [AttributeReadResultType](#Link45)  [AttributeServerResponseType](#Link46)  [AttributeType](#Link2)  [ClientRequestExchangeType](#Link10)  [ContactClientRequestType](#Link47)  [ContactDeleteRequestType](#Link9)  [ContactReadResultType](#Link4A)  [ContactServerResponseType](#Link4B)  [ContactType](#Link7)  [ContactUpdateRequestType](#Link3D)  [CreateAttributeRequestType](#Link4C)  [CreateContactRequestType](#LinkB)  [CreateDocumentRequestType](#Link4D)  [CreateIssueRequestType](#Link4E)  [CreateRequestType](#LinkE)  [CreateResultType](#Link12)  [DeleteAttributeRequestType](#Link4)  [DeleteDocumentRequestType](#Link23)  [DeleteIssueRequestType](#Link2E)  [DeleteRequestType](#Link1A)  [DeleteResultType](#Link1D)  [DocumentClientRequestType](#Link48)  [DocumentReadResultType](#Link4F)  [DocumentServerResponseType](#Link50)  [DocumentType](#Link21)  [InformationExchangeComplexType](#Link26)  [IssueClientRequestType](#Link49)  [IssueReadResultType](#Link51)  [IssueServerResponseType](#Link52)  [IssueType](#Link2C)  [ReadAllRequestType](#Link33)  [ReadAllResultType](#Link27)  [ReadRequestType](#Link31)  [ReadResultType](#Link38)  [RequestType](#Link29)  [ResultType](#Link2A)  [ServerResponseExchangeType](#Link17)  [UpdateAttributeRequestType](#Link5)  [UpdateDocumentRequestType](#Link24)  [UpdateIssueRequestType](#Link2F)  [UpdateRequestType](#Link39)  [UpdateResultType](#Link3A) | [InformationExchangeSimpleType](#Link28) | [ReadOnly](#Link53) |

element Attribute

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:AttributeType](#Link2) |
| substitution group | Attribute |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | AttributeName  AttributeCategory  AttributeDescription  AttributeValue |
| attributes | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name |  | Type |  | Use |  | Annotation | | externalEntityName |  | ExternalEntityNameSimpleType |  | optional |  | documentation  Definition: The name of an entity from an external data type. In practice, ExternalEntityName is most commonly used to represent the name of the Industry Foundation Class entity corresponding to the specified COBie element. Value: IfcFurnishingElement|IfcDoor|IfcWindow ISO16739Mapping: n/a COBie2.4Header: ExtObject COBie2.4Column: Varies | | externalID |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: A unique id used in an external representation of the specified COBie element. Most commonly ExternalID is used to represent the value of IfcGloballyUniqueID entity. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcRoot.GloballyUniqueId COBie2.4Header: ExtIdentifier COBie2.4Column: Varies | | externalSystemName |  | CobieTextSimpleType |  | optional |  | documentation  Definition: The name of the software application that authored the value of the corresponding COBie element. Value: Revit MEP|Excel|Constructivity|ProjectWise ISO16739Mapping: IfcApplication.ApplicationFullName COBie2.4Header: ExtSystem COBie2.4Column: Varies | | propertySetName |  | PropertySetNameSimpleType |  | optional |  | documentation  Definition: The name of a logically grouped set of properties Value: IfcPropertySet ISO16739Mapping: Pset\_SpaceCommon|Pset\_ElectricalDeviceCommon|Pset\_BaseQuantities COBie2.4Header: Attribute.ExtObject (When originating from an IFC file) COBie2.4Column: J | | propertySetExternalIdentifier |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: The unique identifier of the data structure Object that contains the specified property. Most commonly PropertySetName corresponds to the GlobalId attribute of an IfcPropertySet Object. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcPropertySet.GloballyUniqueId COBie2.4Header: Attribute.ExtIdentifier (If originating from an IFC file) COBie2.4Column: K | |
| annotation | |  | | --- | | documentation | | Information about a specific Attribute. | |

element AttributeKey

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | AttributeKeyType |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | AttributeName  AttributeCategory |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [DeleteAttributeRequestType](#Link4)  [UpdateAttributeRequestType](#Link5) | | |

element Contact

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:ContactType](#Link7) |
| substitution group | Contact |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | ContactEmail  ContactCategory  ContactCompanyName  ContactPhoneNumber  ContactDepartmentName  ContactGivenName  ContactFamilyName  ContactStreet  ContactPostalBoxNumber  ContactTownName  ContactRegionCode  ContactCountryName  ContactPostalCode  ContactURL |
| attributes | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name |  | Type |  | Use |  | Annotation | | externalEntityName |  | ExternalEntityNameSimpleType |  | optional |  | documentation  Definition: The name of an entity from an external data type. In practice, ExternalEntityName is most commonly used to represent the name of the Industry Foundation Class entity corresponding to the specified COBie element. Value: IfcFurnishingElement|IfcDoor|IfcWindow ISO16739Mapping: n/a COBie2.4Header: ExtObject COBie2.4Column: Varies | | externalID |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: A unique id used in an external representation of the specified COBie element. Most commonly ExternalID is used to represent the value of IfcGloballyUniqueID entity. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcRoot.GloballyUniqueId COBie2.4Header: ExtIdentifier COBie2.4Column: Varies | | externalSystemName |  | CobieTextSimpleType |  | optional |  | documentation  Definition: The name of the software application that authored the value of the corresponding COBie element. Value: Revit MEP|Excel|Constructivity|ProjectWise ISO16739Mapping: IfcApplication.ApplicationFullName COBie2.4Header: ExtSystem COBie2.4Column: Varies | |
| annotation | |  | | --- | | documentation | | Information about a specific manufacturer or supplier associated with an AssetType. | |

element ContactKey

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | ContactKeyType |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | ContactEmailReference |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ContactDeleteRequestType](#Link9) | | |

element CreateContactRequest

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:CreateContactRequestType](#LinkB) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:ProjectID](#LinkC)  [lcie:CreateHandlerID](#LinkD)  Contact |

element CreateHandlerID

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:long |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [CreateRequestType](#LinkE) | | |
| annotation | |  | | --- | | documentation | | An ID associated with a server-side handler that handles a create request. For example, this element corresponds to the Deserializer object id in BIMSie. | |

element CreateRequest

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:CreateRequestType](#LinkE) |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | abstract |  | true | | |
| children | [lcie:ProjectID](#LinkC)  [lcie:CreateHandlerID](#LinkD) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ClientRequestExchangeType](#Link10) | | |
| annotation | |  | | --- | | documentation | | A Request to create an LCie element. Typically a Create request should correspond to an element with many children, e.g. the COBieLite Asset. | |

element CreateResult

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:CreateResultType](#Link12) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:RevisionID](#Link14)  [lcie:CreateSuccess](#Link15)  [lcie:CreateResultMessage](#Link16) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ServerResponseExchangeType](#Link17) | | |
| annotation | |  | | --- | | documentation | | Results of the Create Request include the new revision ID, a boolean indicating success, and an optional message. | |

element CreateResultMessage

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:string |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [CreateResultType](#Link12) | | |
| annotation | |  | | --- | | documentation | | A server-provided message generated as confirmation of a handled CreateRequest. | |

element CreateSuccess

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:boolean |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [CreateResultType](#Link12) | | |
| annotation | |  | | --- | | documentation | | Indicating success or failure of a CreateRequest. | |

element DeleteContactRequest

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:ContactDeleteRequestType](#Link9) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:RevisionID](#Link14)  [lcie:DeleteHandlerID](#Link19)  [lcie:ContactKey](#Link8) |

element DeleteHandlerID

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:long |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [DeleteRequestType](#Link1A) | | |
| annotation | |  | | --- | | documentation | | An ID associated with a server-side handler that handles a delete request. For example, this element corresponds to the Deserializer object id in BIMSie. | |

element DeleteRequest

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:DeleteRequestType](#Link1A) |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | abstract |  | true | | |
| children | [lcie:RevisionID](#Link14)  [lcie:DeleteHandlerID](#Link19) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ClientRequestExchangeType](#Link10) | | |
| annotation | |  | | --- | | documentation | | A delete request must contain a RevisionID, a DeleteHandlerID, and a DeleteKey corresponding to one LCie concept. | |

element DeleteResult

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:DeleteResultType](#Link1D) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:RevisionID](#Link14)  [lcie:DeleteSuccess](#Link1E)  [lcie:DeleteResultMessage](#Link1F) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ServerResponseExchangeType](#Link17) | | |
| annotation | |  | | --- | | documentation | | A DeleteResult must contain a new RevisionID, a boolean indicating success or failure, and an optional message. | |

element DeleteResultMessage

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:string |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [DeleteResultType](#Link1D) | | |
| annotation | |  | | --- | | documentation | | A server-provided message generated as confirmation of a handled DeleteRequest. | |

element DeleteSuccess

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:boolean |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [DeleteResultType](#Link1D) | | |
| annotation | |  | | --- | | documentation | | Indicates success or failure of a handled DeleteRequest. | |

element Document

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:DocumentType](#Link21) |
| substitution group | Document |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | DocumentName  DocumentCategory  DocumentDescription  DocumentURI  DocumentReferenceURI |
| attributes | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name |  | Type |  | Use |  | Annotation | | externalEntityName |  | ExternalEntityNameSimpleType |  | optional |  | documentation  Definition: The name of an entity from an external data type. In practice, ExternalEntityName is most commonly used to represent the name of the Industry Foundation Class entity corresponding to the specified COBie element. Value: IfcFurnishingElement|IfcDoor|IfcWindow ISO16739Mapping: n/a COBie2.4Header: ExtObject COBie2.4Column: Varies | | externalID |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: A unique id used in an external representation of the specified COBie element. Most commonly ExternalID is used to represent the value of IfcGloballyUniqueID entity. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcRoot.GloballyUniqueId COBie2.4Header: ExtIdentifier COBie2.4Column: Varies | | externalSystemName |  | CobieTextSimpleType |  | optional |  | documentation  Definition: The name of the software application that authored the value of the corresponding COBie element. Value: Revit MEP|Excel|Constructivity|ProjectWise ISO16739Mapping: IfcApplication.ApplicationFullName COBie2.4Header: ExtSystem COBie2.4Column: Varies | |
| annotation | |  | | --- | | documentation | | Information about a specific Document. | |

element DocumentKey

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | DocumentKeyType |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | DocumentName |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [DeleteDocumentRequestType](#Link23)  [UpdateDocumentRequestType](#Link24) | | |

element InformationExchange

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:InformationExchangeComplexType](#Link26) |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | abstract |  | true | | |
| children | [lcie:InformationExchangeID](#Link13) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ReadAllResultType](#Link27) | | |
| annotation | |  | | --- | | documentation | | An instance of an LCie information exchange. | |

element InformationExchangeID

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:InformationExchangeSimpleType](#Link28) |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | abstract |  | true | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [InformationExchangeComplexType](#Link26)  [RequestType](#Link29)  [ResultType](#Link2A) | | |
| facets | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Kind |  | Value |  | Annotation | | enumeration |  | 090.02\_ProductTypeTemplate |  |  | | enumeration |  | 100.02\_ProductTypeCandidate |  |  | | enumeration |  | 100.03\_ProductTypeTemplate |  |  | | enumeration |  | 110.01\_ProductTypeCandidate |  |  | | enumeration |  | 180.01\_ProductTypeSelection |  |  | | enumeration |  | 210.01\_ProductInstallationReport |  |  | | enumeration |  | 230.01\_ProductInspection |  |  | | enumeration |  | 250.01\_ProductTypeParts |  |  | | enumeration |  | 250.02\_ProductTypeWarranty |  |  | | enumeration |  | 250.03\_ProductTypeMaintenance |  |  | | enumeration |  | 250.04\_SystemOperation |  |  | | enumeration |  | Other |  |  | |
| annotation | |  | | --- | | documentation | | Corresponds to an LCie information exchange defined in the InformationExchangeSimpleType enumeration | |

element Issue

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:IssueType](#Link2C) |
| substitution group | Issue |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | id |  | d2e1495 | | |
| children | IssueName  IssueCategory  IssueRiskText  IssueSeverityText  IssueImpactText  IssueDescription  ContactAssignment  IssueMitigationDescription |
| attributes | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name |  | Type |  | Use |  | Annotation | | externalEntityName |  | ExternalEntityNameSimpleType |  | optional |  | documentation  Definition: The name of an entity from an external data type. In practice, ExternalEntityName is most commonly used to represent the name of the Industry Foundation Class entity corresponding to the specified COBie element. Value: IfcFurnishingElement|IfcDoor|IfcWindow ISO16739Mapping: n/a COBie2.4Header: ExtObject COBie2.4Column: Varies | | externalID |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: A unique id used in an external representation of the specified COBie element. Most commonly ExternalID is used to represent the value of IfcGloballyUniqueID entity. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcRoot.GloballyUniqueId COBie2.4Header: ExtIdentifier COBie2.4Column: Varies | | externalSystemName |  | CobieTextSimpleType |  | optional |  | documentation  Definition: The name of the software application that authored the value of the corresponding COBie element. Value: Revit MEP|Excel|Constructivity|ProjectWise ISO16739Mapping: IfcApplication.ApplicationFullName COBie2.4Header: ExtSystem COBie2.4Column: Varies | |
| annotation | |  | | --- | | documentation | | A specific Issue within this set of Issues. | |

element IssueKey

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | IssueKeyType |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | IssueName  IssueCategory |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [DeleteIssueRequestType](#Link2E)  [UpdateIssueRequestType](#Link2F) | | |

element Key

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | CobieKeyType |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | abstract |  | true | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ReadRequestType](#Link31) | | |
| annotation | |  | | --- | | documentation | | The key corresponding to one particular LCie element or concept. | |

element ProjectID

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:long |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [CreateRequestType](#LinkE) | | |
| annotation | |  | | --- | | documentation | | The ID associated with the project. A project is the server item to which revisions are written. | |

element ReadAllRequest

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:ReadAllRequestType](#Link33) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:RevisionID](#Link14)  [lcie:ReadHandlerID](#Link34) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ClientRequestExchangeType](#Link10) | | |
| annotation | |  | | --- | | documentation | | Requires only credentials, a revisionID, and a ReadHandlerID. | |

element ReadAllResult

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:ReadAllResultType](#Link27) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:InformationExchange](#Link25) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ServerResponseExchangeType](#Link17) | | |
| annotation | |  | | --- | | documentation | | The result of a ReadAllRequest will contain all items relvant to one LCie concept. For example, a ProductTypeTemplate view of all AssetType elements in a model revision. | |

element ReadHandlerID

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:long |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ReadAllRequestType](#Link33)  [ReadRequestType](#Link31) | | |
| annotation | |  | | --- | | documentation | | An ID associated with a server-side handler that produces a transformed result of a project revision. For example, this element corresponds to the Serializer object id in BIMSie. | |

element ReadRequest

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:ReadRequestType](#Link31) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:RevisionID](#Link14)  [lcie:ReadHandlerID](#Link34)  [lcie:Key](#Link30) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ClientRequestExchangeType](#Link10) | | |
| annotation | |  | | --- | | documentation | | A ReadRequest must contain a ReadKey element. | |

element ReadResult

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:ReadResultType](#Link38) |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | abstract |  | true | | |
| children | [lcie:InformationExchangeID](#Link13) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ServerResponseExchangeType](#Link17) | | |
| annotation | |  | | --- | | documentation | | The result of a ReadRequest will contain information relevant to one LCie concept. | |

element RevisionID

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:long |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [CreateResultType](#Link12)  [DeleteRequestType](#Link1A)  [DeleteResultType](#Link1D)  [ReadAllRequestType](#Link33)  [ReadRequestType](#Link31)  [UpdateRequestType](#Link39)  [UpdateResultType](#Link3A) | | |
| annotation | |  | | --- | | documentation | | An ID associated with a specific Project revision. RevisionIDs are required for all read requests and are returned by all create, update, and delete results. | |

element SessionToken

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:string |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [RequestType](#Link29) | | |
| annotation | |  | | --- | | documentation | | Authentication token for the current session. | |

element UpdateContactRequest

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:ContactUpdateRequestType](#Link3D) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:RevisionID](#Link14)  [lcie:UpdateHandlerID](#Link3E)  ContactEmail  ContactCategory  ContactCompanyName  ContactPhoneNumber  ContactDepartmentName  ContactGivenName  ContactFamilyName  ContactStreet  ContactPostalBoxNumber  ContactTownName  ContactRegionCode  ContactCountryName  ContactPostalCode  ContactURL |

element UpdateHandlerID

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:long |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [UpdateRequestType](#Link39) | | |
| annotation | |  | | --- | | documentation | | An ID associated with a server-side handler that handles an update request. For example, this element corresponds to the Deserializer object id in BIMSie. | |

element UpdateRequest

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:UpdateRequestType](#Link39) |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | abstract |  | true | | |
| children | [lcie:RevisionID](#Link14)  [lcie:UpdateHandlerID](#Link3E) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ClientRequestExchangeType](#Link10) | | |
| annotation | |  | | --- | | documentation | | An UpdateRequest must have a RevisionID, an UpdateHandlerID, UpdateKey corresponding to an existing element in the project's latest revision, and a packet of information to update. | |

element UpdateResult

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | [lcie:UpdateResultType](#Link3A) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | complex | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:RevisionID](#Link14)  [lcie:UpdateSuccess](#Link41)  [lcie:UpdateResultMessage](#Link42) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ServerResponseExchangeType](#Link17) | | |
| annotation | |  | | --- | | documentation | | The result of an UpdateRequest will contain a new RevsisionID, a boolean indicating success or failure, and an optional message. | |

element UpdateResultMessage

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:string |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [UpdateResultType](#Link3A) | | |
| annotation | |  | | --- | | documentation | | A server-provided message generated as confirmation of a handled UpdateRequest. | |

element UpdateSuccess

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:boolean |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [UpdateResultType](#Link3A) | | |
| annotation | |  | | --- | | documentation | | Indicates success or failure of a handled UpdateRequest. | |

element UserID

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:long |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | content |  | simple | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [RequestType](#Link29) | | |
| annotation | |  | | --- | | documentation | | The ID of the user associated with the current session. | |

complexType AttributeClientRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ClientRequestExchangeType](#Link10) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ClientRequestExchangeType | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:SessionToken](#Link3B)  [lcie:UserID](#Link43)  [lcie:CreateRequest](#LinkF)  [lcie:ReadRequest](#Link36)  [lcie:ReadAllRequest](#Link32)  [lcie:UpdateRequest](#Link3F)  [lcie:DeleteRequest](#Link1B) |

complexType AttributeReadResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | Attribute |

complexType AttributeServerResponseType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ServerResponseExchangeType](#Link17) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ServerResponseExchangeType | | |
| children | [lcie:CreateResult](#Link11)  [lcie:ReadResult](#Link37)  [lcie:ReadAllResult](#Link35)  [lcie:UpdateResult](#Link40)  [lcie:DeleteResult](#Link1C) |

complexType AttributeType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of AttributeType |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | AttributeType | | |
| children | AttributeName  AttributeCategory  AttributeDescription  AttributeValue |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [Attribute](#Link1) | | |
| attributes | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name |  | Type |  | Use |  | Annotation | | externalEntityName |  | ExternalEntityNameSimpleType |  | optional |  | documentation  Definition: The name of an entity from an external data type. In practice, ExternalEntityName is most commonly used to represent the name of the Industry Foundation Class entity corresponding to the specified COBie element. Value: IfcFurnishingElement|IfcDoor|IfcWindow ISO16739Mapping: n/a COBie2.4Header: ExtObject COBie2.4Column: Varies | | externalID |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: A unique id used in an external representation of the specified COBie element. Most commonly ExternalID is used to represent the value of IfcGloballyUniqueID entity. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcRoot.GloballyUniqueId COBie2.4Header: ExtIdentifier COBie2.4Column: Varies | | externalSystemName |  | CobieTextSimpleType |  | optional |  | documentation  Definition: The name of the software application that authored the value of the corresponding COBie element. Value: Revit MEP|Excel|Constructivity|ProjectWise ISO16739Mapping: IfcApplication.ApplicationFullName COBie2.4Header: ExtSystem COBie2.4Column: Varies | | propertySetName |  | PropertySetNameSimpleType |  | optional |  | documentation  Definition: The name of a logically grouped set of properties Value: IfcPropertySet ISO16739Mapping: Pset\_SpaceCommon|Pset\_ElectricalDeviceCommon|Pset\_BaseQuantities COBie2.4Header: Attribute.ExtObject (When originating from an IFC file) COBie2.4Column: J | | propertySetExternalIdentifier |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: The unique identifier of the data structure Object that contains the specified property. Most commonly PropertySetName corresponds to the GlobalId attribute of an IfcPropertySet Object. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcPropertySet.GloballyUniqueId COBie2.4Header: Attribute.ExtIdentifier (If originating from an IFC file) COBie2.4Column: K | |
| annotation | |  | | --- | | documentation | | Information about a specific Attribute. | |

complexType ClientRequestExchangeType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:RequestType](#Link29) |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:RequestType | | abstract |  | true | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:SessionToken](#Link3B)  [lcie:UserID](#Link43)  [lcie:CreateRequest](#LinkF)  [lcie:ReadRequest](#Link36)  [lcie:ReadAllRequest](#Link32)  [lcie:UpdateRequest](#Link3F)  [lcie:DeleteRequest](#Link1B) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [AttributeClientRequestType](#Link44)  [ContactClientRequestType](#Link47)  [DocumentClientRequestType](#Link48)  [IssueClientRequestType](#Link49) | | |

complexType ContactClientRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ClientRequestExchangeType](#Link10) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ClientRequestExchangeType | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:SessionToken](#Link3B)  [lcie:UserID](#Link43)  [lcie:CreateRequest](#LinkF)  [lcie:ReadRequest](#Link36)  [lcie:ReadAllRequest](#Link32)  [lcie:UpdateRequest](#Link3F)  [lcie:DeleteRequest](#Link1B) |

complexType ContactDeleteRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:DeleteRequestType](#Link1A) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:DeleteRequestType | | |
| children | [lcie:RevisionID](#Link14)  [lcie:DeleteHandlerID](#Link19)  [lcie:ContactKey](#Link8) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [DeleteContactRequest](#Link18) | | |

complexType ContactReadResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ReadResultType](#Link38) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ReadResultType | | |
| children | [lcie:InformationExchangeID](#Link13)  Contact |

complexType ContactServerResponseType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ServerResponseExchangeType](#Link17) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ServerResponseExchangeType | | |
| children | [lcie:CreateResult](#Link11)  [lcie:ReadResult](#Link37)  [lcie:ReadAllResult](#Link35)  [lcie:UpdateResult](#Link40)  [lcie:DeleteResult](#Link1C) |

complexType ContactType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of ContactType |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | ContactType | | |
| children | ContactEmail  ContactCategory  ContactCompanyName  ContactPhoneNumber  ContactDepartmentName  ContactGivenName  ContactFamilyName  ContactStreet  ContactPostalBoxNumber  ContactTownName  ContactRegionCode  ContactCountryName  ContactPostalCode  ContactURL |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [Contact](#Link6) | | |
| attributes | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name |  | Type |  | Use |  | Annotation | | externalEntityName |  | ExternalEntityNameSimpleType |  | optional |  | documentation  Definition: The name of an entity from an external data type. In practice, ExternalEntityName is most commonly used to represent the name of the Industry Foundation Class entity corresponding to the specified COBie element. Value: IfcFurnishingElement|IfcDoor|IfcWindow ISO16739Mapping: n/a COBie2.4Header: ExtObject COBie2.4Column: Varies | | externalID |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: A unique id used in an external representation of the specified COBie element. Most commonly ExternalID is used to represent the value of IfcGloballyUniqueID entity. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcRoot.GloballyUniqueId COBie2.4Header: ExtIdentifier COBie2.4Column: Varies | | externalSystemName |  | CobieTextSimpleType |  | optional |  | documentation  Definition: The name of the software application that authored the value of the corresponding COBie element. Value: Revit MEP|Excel|Constructivity|ProjectWise ISO16739Mapping: IfcApplication.ApplicationFullName COBie2.4Header: ExtSystem COBie2.4Column: Varies | |
| annotation | |  | | --- | | documentation | | Information about a specific company who can provide the type of equipment. | |

complexType ContactUpdateRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:UpdateRequestType](#Link39) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:UpdateRequestType | | |
| children | [lcie:RevisionID](#Link14)  [lcie:UpdateHandlerID](#Link3E)  ContactEmail  ContactCategory  ContactCompanyName  ContactPhoneNumber  ContactDepartmentName  ContactGivenName  ContactFamilyName  ContactStreet  ContactPostalBoxNumber  ContactTownName  ContactRegionCode  ContactCountryName  ContactPostalCode  ContactURL |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [UpdateContactRequest](#Link3C) | | |

complexType CreateAttributeRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | Attribute |

complexType CreateContactRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:CreateRequestType](#LinkE) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:CreateRequestType | | |
| children | [lcie:ProjectID](#LinkC)  [lcie:CreateHandlerID](#LinkD)  Contact |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [CreateContactRequest](#LinkA) | | |

complexType CreateDocumentRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | Document |

complexType CreateIssueRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | Issue |

complexType CreateRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | abstract |  | true | | |
| children | [lcie:ProjectID](#LinkC)  [lcie:CreateHandlerID](#LinkD) |
| used by | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [CreateRequest](#LinkF) | | complexType |  | [CreateContactRequestType](#LinkB) | | |

complexType CreateResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ResultType](#Link2A) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ResultType | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:RevisionID](#Link14)  [lcie:CreateSuccess](#Link15)  [lcie:CreateResultMessage](#Link16) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [CreateResult](#Link11) | | |

complexType DeleteAttributeRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:AttributeKey](#Link3) |

complexType DeleteDocumentRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:DocumentKey](#Link22) |

complexType DeleteIssueRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:IssueKey](#Link2D) |

complexType DeleteRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | abstract |  | true | | |
| children | [lcie:RevisionID](#Link14)  [lcie:DeleteHandlerID](#Link19) |
| used by | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [DeleteRequest](#Link1B) | | complexType |  | [ContactDeleteRequestType](#Link9) | | |

complexType DeleteResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ResultType](#Link2A) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ResultType | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:RevisionID](#Link14)  [lcie:DeleteSuccess](#Link1E)  [lcie:DeleteResultMessage](#Link1F) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [DeleteResult](#Link1C) | | |

complexType DocumentClientRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ClientRequestExchangeType](#Link10) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ClientRequestExchangeType | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:SessionToken](#Link3B)  [lcie:UserID](#Link43)  [lcie:CreateRequest](#LinkF)  [lcie:ReadRequest](#Link36)  [lcie:ReadAllRequest](#Link32)  [lcie:UpdateRequest](#Link3F)  [lcie:DeleteRequest](#Link1B) |

complexType DocumentReadResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | Document |

complexType DocumentServerResponseType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ServerResponseExchangeType](#Link17) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ServerResponseExchangeType | | |
| children | [lcie:CreateResult](#Link11)  [lcie:ReadResult](#Link37)  [lcie:ReadAllResult](#Link35)  [lcie:UpdateResult](#Link40)  [lcie:DeleteResult](#Link1C) |

complexType DocumentType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of DocumentType |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | DocumentType | | |
| children | DocumentName  DocumentCategory  DocumentDescription  DocumentURI  DocumentReferenceURI |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [Document](#Link20) | | |
| attributes | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name |  | Type |  | Use |  | Annotation | | externalEntityName |  | ExternalEntityNameSimpleType |  | optional |  | documentation  Definition: The name of an entity from an external data type. In practice, ExternalEntityName is most commonly used to represent the name of the Industry Foundation Class entity corresponding to the specified COBie element. Value: IfcFurnishingElement|IfcDoor|IfcWindow ISO16739Mapping: n/a COBie2.4Header: ExtObject COBie2.4Column: Varies | | externalID |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: A unique id used in an external representation of the specified COBie element. Most commonly ExternalID is used to represent the value of IfcGloballyUniqueID entity. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcRoot.GloballyUniqueId COBie2.4Header: ExtIdentifier COBie2.4Column: Varies | | externalSystemName |  | CobieTextSimpleType |  | optional |  | documentation  Definition: The name of the software application that authored the value of the corresponding COBie element. Value: Revit MEP|Excel|Constructivity|ProjectWise ISO16739Mapping: IfcApplication.ApplicationFullName COBie2.4Header: ExtSystem COBie2.4Column: Varies | |
| annotation | |  | | --- | | documentation | | Information about a specific Document. | |

complexType InformationExchangeComplexType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | abstract |  | true | | |
| children | [lcie:InformationExchangeID](#Link13) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [InformationExchange](#Link25) | | |

complexType IssueClientRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ClientRequestExchangeType](#Link10) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ClientRequestExchangeType | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:SessionToken](#Link3B)  [lcie:UserID](#Link43)  [lcie:CreateRequest](#LinkF)  [lcie:ReadRequest](#Link36)  [lcie:ReadAllRequest](#Link32)  [lcie:UpdateRequest](#Link3F)  [lcie:DeleteRequest](#Link1B) |

complexType IssueReadResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | Issue |

complexType IssueServerResponseType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ServerResponseExchangeType](#Link17) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ServerResponseExchangeType | | |
| children | [lcie:CreateResult](#Link11)  [lcie:ReadResult](#Link37)  [lcie:ReadAllResult](#Link35)  [lcie:UpdateResult](#Link40)  [lcie:DeleteResult](#Link1C) |

complexType IssueType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of IssueType |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | IssueType | | |
| children | IssueName  IssueCategory  IssueRiskText  IssueSeverityText  IssueImpactText  IssueDescription  ContactAssignment  IssueMitigationDescription |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [Issue](#Link2B) | | |
| attributes | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Name |  | Type |  | Use |  | Annotation | | externalEntityName |  | ExternalEntityNameSimpleType |  | optional |  | documentation  Definition: The name of an entity from an external data type. In practice, ExternalEntityName is most commonly used to represent the name of the Industry Foundation Class entity corresponding to the specified COBie element. Value: IfcFurnishingElement|IfcDoor|IfcWindow ISO16739Mapping: n/a COBie2.4Header: ExtObject COBie2.4Column: Varies | | externalID |  | ExternalIdentifierSimpleType |  | optional |  | documentation  Definition: A unique id used in an external representation of the specified COBie element. Most commonly ExternalID is used to represent the value of IfcGloballyUniqueID entity. Value: 1hypqXnMHDlwKZc9bkVjNR|3QYFkhRmzECBGi\_FDC88Pu|30b56ZPunCX9x5gIL$UTx9 ISO16739Mapping: IfcRoot.GloballyUniqueId COBie2.4Header: ExtIdentifier COBie2.4Column: Varies | | externalSystemName |  | CobieTextSimpleType |  | optional |  | documentation  Definition: The name of the software application that authored the value of the corresponding COBie element. Value: Revit MEP|Excel|Constructivity|ProjectWise ISO16739Mapping: IfcApplication.ApplicationFullName COBie2.4Header: ExtSystem COBie2.4Column: Varies | |
| annotation | |  | | --- | | documentation | | A specific Issue within this set of Issues. | |

complexType ReadAllRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:RevisionID](#Link14)  [lcie:ReadHandlerID](#Link34) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [ReadAllRequest](#Link32) | | |

complexType ReadAllResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:InformationExchange](#Link25) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [ReadAllResult](#Link35) | | |

complexType ReadRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:RevisionID](#Link14)  [lcie:ReadHandlerID](#Link34)  [lcie:Key](#Link30) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [ReadRequest](#Link36) | | |

complexType ReadResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ResultType](#Link2A) |
| properties | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ResultType | | abstract |  | true | | |
| children | [lcie:InformationExchangeID](#Link13) |
| used by | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [ReadResult](#Link37) | | complexType |  | [ContactReadResultType](#Link4A) | | |

complexType RequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | abstract |  | true | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:SessionToken](#Link3B)  [lcie:UserID](#Link43) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [ClientRequestExchangeType](#Link10) | | |

complexType ResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | abstract |  | true | | |
| children | [lcie:InformationExchangeID](#Link13) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [CreateResultType](#Link12)  [DeleteResultType](#Link1D)  [ReadResultType](#Link38)  [UpdateResultType](#Link3A) | | |

complexType ServerResponseExchangeType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | abstract |  | true | | |
| children | [lcie:CreateResult](#Link11)  [lcie:ReadResult](#Link37)  [lcie:ReadAllResult](#Link35)  [lcie:UpdateResult](#Link40)  [lcie:DeleteResult](#Link1C) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | complexType |  | [AttributeServerResponseType](#Link46)  [ContactServerResponseType](#Link4B)  [DocumentServerResponseType](#Link50)  [IssueServerResponseType](#Link52) | | |

complexType UpdateAttributeRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:AttributeKey](#Link3)  Attribute |

complexType UpdateDocumentRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:DocumentKey](#Link22)  Document |

complexType UpdateIssueRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| children | [lcie:IssueKey](#Link2D)  Issue |

complexType UpdateRequestType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | abstract |  | true | | |
| children | [lcie:RevisionID](#Link14)  [lcie:UpdateHandlerID](#Link3E) |
| used by | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [UpdateRequest](#Link3F) | | complexType |  | [ContactUpdateRequestType](#Link3D) | | |

complexType UpdateResultType

|  |  |
| --- | --- |
| diagram |  |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | extension of [lcie:ResultType](#Link2A) |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | lcie:ResultType | | |
| children | [lcie:InformationExchangeID](#Link13)  [lcie:RevisionID](#Link14)  [lcie:UpdateSuccess](#Link41)  [lcie:UpdateResultMessage](#Link42) |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [UpdateResult](#Link40) | | |

simpleType InformationExchangeSimpleType

|  |  |
| --- | --- |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | restriction of xs:string |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | base |  | xs:string | | |
| used by | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | element |  | [InformationExchangeID](#Link13) | | |
| facets | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Kind |  | Value |  | Annotation | | enumeration |  | 090.02\_ProductTypeTemplate |  |  | | enumeration |  | 100.02\_ProductTypeCandidate |  |  | | enumeration |  | 100.03\_ProductTypeTemplate |  |  | | enumeration |  | 110.01\_ProductTypeCandidate |  |  | | enumeration |  | 180.01\_ProductTypeSelection |  |  | | enumeration |  | 210.01\_ProductInstallationReport |  |  | | enumeration |  | 230.01\_ProductInspection |  |  | | enumeration |  | 250.01\_ProductTypeParts |  |  | | enumeration |  | 250.02\_ProductTypeWarranty |  |  | | enumeration |  | 250.03\_ProductTypeMaintenance |  |  | | enumeration |  | 250.04\_SystemOperation |  |  | | enumeration |  | Other |  |  | |

attribute ReadOnly

|  |  |
| --- | --- |
| namespace | http://docs.buildingsmartalliance.org/nbims03/lcie/core |
| type | xs:boolean |
| properties | |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | default |  | true | | |
| annotation | |  | | --- | | documentation | | Used in LCie subschema app-info annotations to indicate whether or not the element is editable at the modeled stage of the facility life-cycle. Default value is true and if asumed true if this app-info tag is not present in a subschema element. | |