|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resource Type | Short Description | Child Resource Types | Parent Resource Types | Clause |
| *transaction* | Resource type for transaction management | *None specified* | *All Resources* |  |

### 9.6.31 Resource Type *Transaction*

Transaction resource is a temporary resource to be created based on transaction command included in request message with Transaction Type parameter. After a CSE receives a request message including Transaction Type parameter set to Begin, the CSE shall create the transaction resource under the target resource of the request message as a child resource. Additionally, after a CSE receives a request message with Transaction Type parameter set to Commit or Revoke, the CSE shall initiate or not the CRUD procedure regarding the target resource based on the Transaction Type parameter.



Figure 9.6.31-1: Structure of *<transaction>* resource

The *<transaction>* resource shall contain the attributes specified in table 9.6.31-2.

Table 9.6.31-2: Attributes of *<transaction>* resource

| Attributes of  *<delivery>* | Multiplicity | RW/  RO/  WO | Description |
| --- | --- | --- | --- |
| *resourceType* | 1 | RO | See clause 9.6.1.3. |
| *resourceID* | 1 | RO | See clause 9.6.1.3. |
| *resourceName* | 1 | WO | See clause 9.6.1.3. |
| *expirationTime* | 1 | RW | See clause 9.6.1.3. |
| *parentID* | 1 | RO | See clause 9.6.1.3. |
| *creationTime* | 1 | RO | See clause 9.6.1.3. |
| *lastModifiedTime* | 1 | RO | See clause 9.6.1.3. |
| *accessControlPolicyIDs* | 0..1 (L) | RW | See clause 9.6.1.3. |
| *Labels* | 0..1 (L) | RW | See clause 9.6.1.3. |
| *expirationTime* | 1 | RO | See clause 9.6.1.3. |
| *transactionOperation* | 1 | WO | This attribute contains the operation parameter of the received transaction message. |
| *transactionContent* | 1 | WO | This attribute contains the content parameter of the received transaction message. |
| *transactionStatus* | 1 | RW | This attribute contains the transaction status when the transaction message was received regarding the parent resource. e.g. begin, commit, revoke |
| *transactionID* | 1 | WO | This attribute contains the transaction ID of the received transaction message. |

### Resource Type <transaction>

Table 7.4.11.1‑2: Universal/Common Attributes of <delivery> resource

|  |  |  |
| --- | --- | --- |
| Attribute Name | Request Optionality | |
| Create | Update |
| *@resourceName* | O | NP |
| *resourceType* | NP | NP |
| *resourceID* | NP | NP |
| *expirationTime* | O | O |
| *parentID* | NP | NP |
| *creationTime* | NP | NP |
| *lastModifiedTime* | NP | NP |
| *accessControlPolicyIDs* | O | O |
| *Labels* | O | O |

Table 7.4.11.1‑3: Resource Specific Attributes of <delivery> resource

|  |  |  |
| --- | --- | --- |
| Attribute Name | Data Type | Default Value and Constraints |
|
| *transactionOperation* | m2m:operation | No default |
| *transactionContent* | xs:anySimpleType | No default |
| *transactionStatus* | m2m:transactionStauts | No default |
| *transactionID* | m2m:ID | No default |