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| CHANGE REQUEST | |
| Meeting ID:\* | SDS 61 |
| Source:\* | Miguel Angel Reina Ortega, ETSI, [MiguelAngel.ReinaOrtega@etsi.org](mailto:MiguelAngel.ReinaOrtega@etsi.org) |
| Date:\* | 2023-09-12 |
| Reason for Change/s:\* | action child resource |
| CR against: Release\* | Rel-4 |
| CR against: WI\* | Active < WI-0077>  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  mirror CR number:  STE Small Technical Enhancements / < Work Item number (optional)>  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0001 v4.19.0 |
| Clauses \* |  |
| Type of change: \* | Editorial change  Bug Fix or Correction  Change to existing feature or functionality  New feature or functionality  Only ONE of the above shall be ticked |
| Other TS/TR(s) impacted | None |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES  NO  This CR may break backwards compatibility with the last approved version of the TS? YES  NO |
| Template Version: January 2019 (do not modify) | |

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GUIDELINES for Change Requests:

Provide an informative introduction containing the problem(s) being solved, and a summary list of proposals.

Each CR should contain changes related to only one particular issue/problem.

In case of a correction, and the change apply to previous releases, a separate “mirror CR” should be posted at the same time of this CR

Mirror CR: applies only when the text, including clause numbering are exactly the same.

Companion CR: applies when the change means the same but the baselines differ in some way (e.g. clause number).

Follow the principle of completeness, where all changes related to the issue or problem within a deliverable are simultaneously proposed to be made E.g. A change impacting 5 tables should not only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar to the extent practicable.

Use Change bars for modifications.

The change should include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change. Additions of complete clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the new clause is proposed to be located.

Multiple changes in a single CR shall be clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.

When subsequent changes are made to content of a CR, then the accepted version should not show changes over changes. The accepted version of the CR should only show changes relative to the baseline approved text.

## Introduction

This CR is adding action resource as child of some other resources as already indicated in 9.6.1.1-1 according to issue <https://git.onem2m.org/issues/issues/-/issues/121>

## ----------------------- Start of Change 1--------------------------------------------

#### 9.6.1.1 Resource Type Summary

Table 9.6.1.1-1 introduces the normal and virtual resource types and their related child or parent resource types. Details of each resource type follow in the remainder of this clause.

Table 9.6.1.1-1 lists each specified ordinary - i.e. not announced - resource type. An addition of suffix "Annc" to the respective resource type identifier indicates the associated announced resource type. Resource types that can occur as child resources of announced resources are summarized in table 9.6.26.1-1.

Among the resource types listed in table 9.6.1.1-1, the following are termed "Content Sharing Resources" in oneM2M Specifications for the purpose of referring to any of those resource types:

* *container;*
* *contentInstance;*
* *flexContainer;*
* *flexContainerInstance;*
* *timeSeries;*
* *timeSeriesInstance.*

Table 9.6.1.1-1: Resource Types

| Resource Type | Short Description | Child Resource Types | Parent Resource Types | Clause |
| --- | --- | --- | --- | --- |
| *accessControlPolicy* | Stores a representation of privileges. It is associated with resources that shall be accessible to entities external to the Hosting CSE. It controls "who" is allowed to do "what" and the context in which it can be used for accessing resources | *subscription, transaction* | *AE, AEAnnc, remoteCSE, remoteCSEAnnc, CSEBase, CSEBaseAnnc* | 9.6.2 |
| *AE* | Stores information about the AE. It is created as a result of successful registration of an AE with the Registrar CSE | *subscription, container,*  *flexContainer,*  *group, accessControlPolicy,*  *pollingChannel, semanticDescriptor,*  *timeSeries, transaction, transactionMgmt,*  *triggerRequest, crossResourceSubscription, backgroundDataTransfer, semanticMashupInstance, locationPolicy, action, multimediaSession, dynamicAuthorizationConsultation, nwMonitoringReq, timeSyncBeacon, primitiveProfile, softwareCampaign, e2eQosSession* | *CSEBase* | 9.6.5 |
| *container* | Shares data instances among entities. Used as a mediator that buffers data exchanged between AEs and/or CSEs. The exchange of data between AEs (e.g. an AE on a Node in a field domain and the peer-AE on the infrastructure domain) is abstracted from the need to set up direct connections and allows for scenarios where both entities in the exchange do not have the same reachability schedule | *container,*  *flexContainer, contentInstance, subscription, latest, oldest，semanticDescriptor, timeSeries, transaction, action* | *AE, AEAnnc, container, containerAnnc, remoteCSE, remoteCSEAnnc,*  *CSEBase, CSEBaseAnnc,*  *flexContainer, flexContainerAnnc* | 9.6.6 |
| *contentInstance* | Represents a data instance in the *<container>* resource | *semanticDescriptor, transaction* | *container, containerAnnc* | 9.6.7 |
| *flexContainer* | A template which allows to define specialized (customizable) versions of containers with a flexible and lightweight structure | *container,*  *flexContainer, flexContainerInstance, latest, oldest, subscription, semanticDescriptor, timeSeries, transaction, action* | *AE, AEAnnc, container, containerAnnc,*  *flexContainer, flexContainerAnnc, remoteCSE, remoteCSEAnnc,*  *CSEBase, CSEBaseAnnc* | 9.6.35 |
| *flexContainerInstance* | Represents a timestamped Data instance in the *<flexContainer>* resource | *transaction* | *flexContainer* | 9.6.59 |
| *CSEBase* | The structural root for all the resources that are residing on a CSE. Stores information about the CSE itself | *remoteCSE, remoteCSEAnnc, CSEBaseAnnc, node, AE, container, group, accessControlPolicy, subscription, mgmtCmd, locationPolicy, action, statsConfig, statsCollect, request, delivery,*  *schedule,*  *notificationTargetPolicy, semanticRuleRepository,*  *flexContainer,*  *timeSeries, AEContactList, transaction, transactionMgmt, crossResourceSubscription, backgroundDataTransfer, semanticMashupJobProfile, semanticMashupInstance, action, m2mServiceSubscriptionProfile, dynamicAuthorizationConsultation, localMulticastGroup, serviceSubscribedAppRule, authorizationPolicy, authorizationDecision, authorizationInformation, ontologyRepository, nwMonitoringReq, timeSyncBeacon, primitiveProfile, softwareCampaign, e2eQosSession* | *None specified* | 9.6.3 |
| *delivery* | Forwards requests from CSE to CSE | *subscription, transaction* | *CSEBase* | 9.6.11 |
| *eventConfig* | Defines events that trigger statistics collection | *subscription, transaction* | *statsConfig* | 9.6.24 |
| *execInstance* | Contains all execution instances of the same Management Command | *subscription, transaction* | *mgmtCmd* | 9.6.17 |
| *fanOutPoint (V)* | Virtual resource containing target for group request  It is used for addressing bulk operations to all the resources that belong to a group | *None specified* | *group* | 9.6.14 |
| *group* | Stores information about resources of the same type that need to be addressed as a Group. Operations addressed to a Group resource shall be executed in a bulk mode for all members belonging to the Group | *fanOutPoint,*  *subscription,*  *semanticFanOutPoint, semanticDescriptor, transaction, action* | *AE, AEAnnc, remoteCSE, remoteCSEAnnc, CSEBase, CSEBaseAnnc* | 9.6.13 |
| *latest (V)* | Virtual resource that points to most recently created *<contentInstance>*, <*timeSeriesInstance*> or <flexContainerInstance> child resource within a *<container>,* *<timeSeries> or <flexContainer>* resource | *None specified* | *container, timeSeries, or flexContainer* | 9.6.27 |
| *locationPolicy* | Includes information to obtain and manage geographical location. It is only referenced within a container, the *contentInstances* of the container provide location information | *subscription, transaction* | *CSEBase, AE* | 9.6.10 |
| *mgmtCmd* | Management Command resource represents a method to execute management procedures required by existing management protocols | *execInstance,*  *subscription, transaction* | *CSEBase* | 9.6.16 |
| *mgmtObj* | Management Object resource represents management functions that provides an abstraction to be mapped to external management technology. It represents the node and the software installed in the node (see note) | *subscription, transaction, semanticDescriptor* | *node, mgmtObjAnnc* | 9.6.15  Annex D |
| *m2mServiceSubscriptionProfile* | Data pertaining to the M2M Service Subscription | *serviceSubscribedNode,*  *subscription, transaction, serviceSubscribedUserProfile* | *CSEBase* | 9.6.19 |
| *node* | Represents specific Node information | *mgmtObj,*  *subscription, semanticDescriptor, schedule, transaction, action* | *CSEBase* | 9.6.18 |
| *notificationTargetMgmtPolicyRef* | Represents a list of notification targets and the deletion policy | *subscription, transaction* | *subscription* | 9.6.31 |
| *notificationTargetPolicy* | Represents a notification target deletion policy with pre-defined action and deletion rules | *subscription, policyDeletionRules, transaction* | *CSEBase* | 9.6.32 |
| *notificationTargetSelfReference (V)* | Virtual resource used to remove the Notification Target | *None specified* | *subscription* | 9.6.34 |
| *oldest (V)* | Virtual resource that points to first created *<contentInstance>*, <*timeSeriesInstance*> or *<flexContainerInstance>* child resource within a *<container>, <timeSeries> or <flexContainer>* resource | *None specified* | *container, timeSeries, or flexContainer* | 9.6.28 |
| *pollingChannel* | Represent a channel that can be used for a request-unreachable entity | *pollingChannelURI* | *remoteCSE, AE* | 9.6.21 |
| *pollingChannelURI (V)* | Virtual resource used to perform service layer long polling of a resource Hosting CSE by a request-unreachable entity | *None specified* | *pollingChannel* | 9.6.22 |
| *policyDeletionRules* | Represents a set of rules which is associated with notification target removal policy | *subscription, transaction* | *notificationTargetPolicy* | 9.6.33 |
| *remoteCSE* | Represents a remote CSE for which there has been a registration procedure with the registrar CSE identified by the CSEBase resource | *container, containerAnnc,*  *contentInstanceAnnc*  *flexContainer, flexContainerAnnc,*  *group, groupAnnc, accessControlPolicy, accessControlPolicyAnnc, subscription, scheduleAnnc, pollingChannel,*  *timeSeries,*  *timeSeriesAnnc, timeSeriesInstanceAnnc, remoteCSEAnnc,*  *mgmtObjAnnc,*  *nodeAnnc,*  *AEAnnc,*  *locationPolicyAnnc, transaction, crossResourceSubscription, backgroundDataTransfer, semanticDescriptorAnnc, semanticMashupJobProfile, semanticMashupJobProfileAnnc, semanticMashupInstance,*  *semanticMashupInstanceAnnc,*  *action, actionAnnc, dynamicAuthorizationConsultation, dynamicAuthorizationConsultationAnnc, nwMonitoringReq, timeSyncBeacon, primitiveProfile, softwareCampaign, e2eQosSession* | *CSEBase* | 9.6.4 |
| *request* | Expresses/access context of an issued Request | *subscription, transaction* | *CSEBase* | 9.6.12 |
| *schedule* | Contains scheduling information for delivery of messages | *subscription, transaction* | *subscription, CSEBase, node, softwareCampaign* | 9.6.9 |
| *serviceSubscribedNode* | Node information | *subscription, transaction* | *m2mServiceSubscriptionProfile* | 9.6.20 |
| *statsCollect* | Defines triggers for the IN-CSE to collect statistics for applications | *subscription, transaction* | *CSEBase (in IN‑CSE)* | 9.6.25 |
| *statsConfig* | Stores configuration of statistics for applications | *eventConfig,*  *subscription, transaction* | *CSEBase (in IN‑CSE)* | 9.6.23 |
| *subscription* | Subscription resource represents the subscription information related to a resource. Such a resource shall be a child resource for the subscribed-to resource | *schedule, notificationTargetSelfReference, notificationTargetMgmtPolicyRef, transaction* | *accessControlPolicy, accessControlPolicyAnnc, AE, AEAnnc, container, containerAnnc, CSEBase, delivery, eventConfig, execInstance, group, groupAnnc, locationPolicy, locationPolicyAnnc, action, actionAnnc, mgmtCmd, mgmtObj, mgmtObjAnnc, m2mServiceSubscriptionProfile, node, nodeAnnc, serviceSubscribedNode, remoteCSE, remoteCSEAnnc, CSEBaseAnnc, request, schedule, scheduleAnnc,*  *semanticDescriptor, semanticDescriptorAnnc, statsCollect, statsConfig,*  *flexContainer, flexContainerAnnc,*  *timeSeries, timeSeriesAnnc, nwMonitoringReq, semanticRuleRepository, reasoningRules, reasoningJobInstance, timeSyncBeacon, primitiveProfile,*  *state,*  *processManagement* | 9.6.8 |
| *serviceSubscribedAppRule* | Represents a rule that defines allowed App-ID and AE-ID combinations that are acceptable for registering an AE on a Registrar CSE | *subscription, transaction* | *CSEBase* | 9.6.29 |
| *semanticDescriptor* | Stores semantic description pertaining to a resource and potentially sub-resources | *subscription, transaction* | *AE, container, contentInstance, group, node, flexContainer, timeSeries, mgmtObj* | 9.6.30 |
| *semanticFanOutPoint* | Virtual resource used as target for semantic discovery aimed at a logical graph distributed over multiple *semanticDescriptor* resources, which belong to the corresponding *group* parent resource |  | *group* | 9.6.14a |
| *dynamicAuthorizationConsultation* | Represents consultation information used by a CSE when performing consultation-based dynamic authorization | *subscription, transaction* | *AE, AEAnnc, remoteCSE, remoteCSEAnnc, CSEBase, CSEBaseAnnc* | 9.6.40 |
| *timeSeries* | Stores and Shares Time Series Data instances among entities | *timeSeriesInstance, subscription, semanticDescriptor,*  *latest, oldest, transaction, action* | *AE, AEAnnc, remoteCSE, remoteCSEAnnc, CSEBase, CSEBaseAnnc,*  *container, containerAnnc, flexContainer, flexContainerAnnc* | 9.6.36 |
| *timeSeriesInstance* | Represents a Time Series Data instance in the *<timeSeries>* resource | *transaction* | *timeSeries, timeSeriesAnnc* | 9.6.37 |
| *role* | Represents a role that is assigned to an AE or CSE | *subscription, transaction* | *authorizationInformation* | 9.6.38 |
| *token* | Used for storing a token that is issued to an AE or CSE | *subscription, transaction* | *authorizationInformation* | 9.6.39 |
| *authorizationDecision* | Represents an access control decision point | *subscription, transaction* | *CSEBase* | 9.6.41 |
| *authorizationPolicy* | Represents an access control policy retrieval point | *subscription, transaction* | *CSEBase* | 9.6.42 |
| *authorizationInformation* | Represents an access control information point | *role*  *token*  *subscription, transaction* | *CSEBase* | 9.6.43 |
| *localMulticastGroup* | Stores local multicast group information of member hosting CSE. | *transaction* | *CSEBase* | 9.6.44 |
| *AEContactList* | Contains information about a CSE that has resources that referencing an AE-ID | *AEContactListPerCSE, subscription, transaction* | *CSEBase* | 9.6.45 |
| *AEContactListPerCSE* | Contains information about a CSE that has resources that referencing an AE resource identifier for tracking purposes | *None specified* | *AEContactList* | 9.6.46 |
| *transactionMgmt* |  | *subscription* | *CSEBase, AE, remoteCSE* | 9.6.47 |
| *transaction* |  | *action* | *All non-virtual resource types with the exception of the following:*  *request, delivery, pollingChannel, transactionMgmt, transaction, timeSyncBeacon* | 9.6.48 |
| *triggerRequest* | Used by an AE to initiate, replace or recall a device trigger request | *subscription* | *AE* | 9.6.49 |
| *ontologyRepository* | Represents the collection of the managed ontologies and the semantic validation service | *ontology, semanticValidation, subscription, ontologyMapping, ontologyMappingAlgorithmRepository* | *CSEBase* | 9.6.50 |
| *ontology* | Store the representation of an ontology | *subscription* | *ontologyRepository* | 9.6.51 |
| *semanticValidation* | A virtual resource as the interface to perform semantic validation on the received <semanticDescriptor> resource against the referenced ontology | *None specified* | *ontologyRepository* | 9.6.52 |
| *ontologyMapping* | Represents a mapping operation between two different ontologies | *subscription* | *ontologyRepository* | 9.6.70 |
| *ontologyMappingAlgorithmRepository* | Represents the collection of ontology mapping algorithms | *subscription, ontologyMappingAlogrithm* | *ontologyRepository* | 9.6.71 |
| *ontologyMappingAlogrithm* | Represents an ontology mapping algorithm | *None specified* | *ontologyMappingAlgorithmRepository* | 9.6.72 |
| *semanticMashupJobProfile* | Represents the profile and description of a semantic mashup service | *semanticMashupInstance, semanticDescriptor, subscription* | *CSEBase, remoteCSE* | 9.6.53 |
| *semanitcMashupInstance* | Represents a semantic mashup instance | *semanticMashupResult, semanticDescriptor, mashup, subscription* | *semanticMashupJobProfile, AE, remoteCSE, CSEBase* | 9.6.54 |
| *mashup* | A virtual resource use to trigger the calculation and generation of new mashup result | *Not specified* | *semanticMashupInstance* | 9.6.55 |
| *semanticMashupResult* | Represent semantic mashup results | *semanticDescriptor, subscription* | *semanticMashupInstance* | 9.6.56 |
| *multimediaSession* | Stores a representation of a multimedia session information requested by a registering AE | *subscription* | *AE* | 9.6.57 |
| *crossResourceSubscription* | represents the cross-resource subscription information related to multiple subscribed-to resources. Such a resource shall include a list of subscribed-to resources as its attribute, or shall be created as a child resource of a <group> resource where member resources shall be the subscribed-to resources | *schedule, notificationTargetSelfReference, notificationTargetMgmtPolicyRef, transaction* | *CSEBase, remoteCSE, AE* | 9.6.58 |
| *backgroundDataTransfer* | Stores information for a background data transfer request | *None specified* | *AE, remoteCSE, CSEBase* | 9.6.60 |
| *action* | Specifies the action(s) that is performed whenever an event is triggered at the <*dependency>* resource | *subscription, transaction, dependency* | *CSEBase, remoteCSE, node, AE, container, flexContainer, group, timeSeries, transaction, state* | 9.6.61 |
| *dependency* | Specifies the condition(s) of a monitored event which triggers the operation(s) specified by the <*action>* resource | *subscription, transaction* | *action* | 9.6.62 |
| *e2eQosSession* | Specifies the end-to-end (E2E) QoS session requirements for the exchange of oneM2M request and response primitives between oneM2M entities | *subscription, transaction* | *CSEBase, remoteCSE, AE* | 9.6.63 |
| *nwMonitoringReq* | Specifiesed the request that an AE retrieves the Underlying Network information. The resource provides the characteristics of the Underlying Network status in a particular geographic area such as congestion status and number of devices. | *subscription* | *CSEBase, remoteCSE, AE* | 9.6.64 |
| *semanticRuleRepository* | Specifies one or multiple <reasoningRules> child resources to represent different sets of reasoning rules in the oneM2M system | *reasoningRules, reasoningJobInstance* | *CSEBase* | 9.6.65 |
| *reasoningRules* | Store a set of related reasoning rules | *subscription* | *semanticRuleRepository* | 9.6.66 |
| *reasoningJobInstance* | Represents a specific reasoning job instance for enabling one-time or continuous reasoning operations | *subscription* | *semanticRuleRepository* | 9.6.67 |
| *serviceSubscribedUserProfile* | Stores user profile information for a given M2M Service User | *subscription, transaction* | *m2mServiceSubscriptionProfile* | 9.6.68 |
| *timeSyncBeacon* | Specifies criteria that a Hosting CSE uses to generate time synchronization beacon notifications | *subscription,*  *transaction* | *CSEBase, remoteCSE, AE* | 9.6.69 |
| *primitiveProfile* | Stores message parameters and/or resource attributes that can be applied (i.e. added, removed or modified) to a request or a response primitive | *subscription, transaction* | *CSEBase, remoteCSE, AE* | 9.6.73 |
| *state* | Stores status information and actions for a given state of a process that is managed by a Hosting CSE | *subscription, transaction, action* | *processManagement* | 9.6.74 |
| *processManagement* | Specifies a process that a Hosting CSE manages on behalf of an AE that consists of sequence of states defined by <*state*> resources | *state, subscription, transaction* | *CSEBase, remoteCSE, AE* | 9.6.75 |
| *softwareCampaign* | Provides policies and rules for the dynamic management of a software by a Hosting CSE | *subscription, transaction, schedule* | *CSEBase, remoteCSE, AE* | 9.6.76 |
| NOTE: See clause 9.6.15 for a summary of specializations of *<mgmtObj>.* | | | | |

-------------------------------------------------- End of Change 1---------------------------------------

## ----------------------- Start of Change 2--------------------------------------------

Table 9.6.26.1-1: Announced Resource Types

| **Announced Resource Type** | **Short Description** | **Child Resource Types** | **Clause** |
| --- | --- | --- | --- |
| *accessControlPolicyAnnc* | Announced variant of *accessControlPolicy* | *subscription* | 9.6.2 |
| *actionAnnc* | Announced variant of *action* | *dependencyAnnc, subscription, transaction* | 9.6.61 |
| *AEAnnc* | Announced variant of *AE* | *subscription,*  *container,*  *containerAnnc, flexContainer,*  *flexContainerAnnc,*  *group,*  *groupAnnc,*  *accessControlPolicy,*  *accessControlPolicyAnnc*  *semanticDescriptor,*  *semanticDescriptorAnnc,*  *timeSeries,*  *timeSeriesAnnc* | 9.6.5 |
| *containerAnnc* | Announced variant of *container* | *container,*  *containerAnnc, flexContainer,*  *flexContainerAnnc,*  *contentInstance,*  *contentInstanceAnnc,*  *subscription,*  *semanticDescriptor,*  *semanticDescriptorAnnc,*  *timeSeries,*  *timeSeriesAnnc* | 9.6.6 |
| *contentInstanceAnnc* | Announced variant of *contentInstance* | *semanticDescriptor,*  *semanticDescriptorAnnc* | 9.6.7 |
| *CSEBaseAnnc* | *Announced variant of CSEBase* | *actionAnnc, container,*  *containerAnnc, dynamicAuthorizationConsultationAnnc,*  *flexContainer,*  *flexContainerAnnc,*  *group,*  *groupAnnc,*  *accessControlPolicy,*  *accessControlPolicyAnnc,*  *subscription,*  *scheduleAnnc,*  *semanticDescriptorAnnc, semanticMashupJobProfileAnnc,*  *timeSeries,*  *timeSeriesAnnc,*  *remoteCSEAnnc,*  *nodeAnnc,*  *mgmtObjAnnc,*  *AEAnnc,*  *locationPolicyAnnc* | 9.6.3 |
| *dependencyAnnc* | Announced variant of *dependency* | None specified | 9.6.62 |
| *dynamicAuthorizationConsultationAnnc* | Announced variant of *dynamicAuthorizationConsultation* | None specified | 9.6.40 |
| *flexContainerAnnc* | Announced variant of flexC*ontainer* | *container,*  *containerAnnc,*  *flexContainer,*  *flexContainerAnnc,*  *subscription,*  *semanticDescriptor,*  *semanticDescriptorAnnc,*  *timeSeries,*  *timeSeriesAnnc* | 9.6.35 |
| *groupAnnc* | Announced variant of *group* | *subscription,*  *semanticDescriptor,*  *semanticDescriptorAnnc* | 9.6.13 |
| *locationPolicyAnnc* | Announced variant of *locationPolicy* | None specified | 9.6.10 |
| *mgmtObjAnnc* | Announced variant of *mgmtObj* | *subscription* | 9.6.15 |
| *nodeAnnc* | Announced variant of *node* | *mgmtObjAnnc,*  *subscription, semanticDescriptor,*  *semanticDescriptorAnnc,*  *scheduleAnnc* | 9.6.18 |
| *remoteCSEAnnc* | Announced variant of *remoteCSE* | *actionAnnc, container,*  *containerAnnc, dynamicAuthorizationConsultationAnnc,*  *flexContainer,*  *flexContainerAnnc,*  *group,*  *groupAnnc,*  *accessControlPolicy,*  *accessControlPolicyAnnc,*  *subscription,*  *scheduleAnnc,*  *semanticDescriptorAnnc,*  *semanticMashupJobProfileAnnc,*  *timeSeries,*  *timeSeriesAnnc,*  *remoteCSEAnnc,*  *nodeAnnc,*  *mgmtObjAnnc,*  *AEAnnc,*  *locationPolicyAnnc* | 9.6.4 |
| *scheduleAnnc* | Announced variant of *schedule* | None specified | 9.6.9 |
| *semanticDescriptorAnnc* | Announced variant of *semanticDescriptor* | Subscription | 9.6.30 |
| *semanticMashupInstanceAnnc* | Announced variant of *semanticMashupInstance* | None specified | 9.6.54 |
| *semanticMashupJobProfileAnnc* | Announced variant of *semanticMashupJobProfile* | None specified | 9.6.53 |
| *timeSeriesAnnc* | Announced variant of timeSeries | timeSeriesInstance,  timeSeriesInstanceAnnc,  subscription,  semanticDescriptor,  semanticDescriptorAnnc | 9.6.36 |
| *timeSeriesInstanceAnnc* | Announced variant of timeSeriesInstance | None specified | 9.6.37 |
| *timeSyncBeaconAnnc* | Announced variant of timeSyncBeacon | subscription | 9.6.69 |

-------------------------------------------------- End of Change 2---------------------------------------

## ----------------------- Start of Change 3--------------------------------------------

Table 9.6.4-1: Child resources of *<remoteCSE>* resource

| Child Resources of *<remoteCSE>* | Child Resource Type | Multiplicity | Description | *<remoteCSEAnnc>* Child Resource Types |
| --- | --- | --- | --- | --- |
| *[variable]* | *<container>* | 0..n | See clause 9.6.6 | *<container>* |
| *[variable]* | *<containerAnnc>* | 0..n | Announced variant of <*container>.* See clause 9.6.6 | *<containerAnnc>* |
| *[variable]* | *<flexContainer>* | 0..n | See clause 9.6.35 | *<flexContainer>* |
| *[variable]* | *<flexContaineAnnc>* | 0..n | Announced variant of <flexC*ontainer>.* See clause 9.6.35 | *<flexContainerAnnc>* |
| *[variable]* | *<group>* | 0..n | See clause 9.6.13 | *<group>* |
| *[variable]* | *<groupAnnc>* | 0..n | Announced variant of <*group>.* See clause 9.6.13 | *<groupAnnc>* |
| *[variable]* | *<accessControlPolicy>* | 0..n | See clause 9.6.2 | *<accessControlPolicy>* |
| *[variable]* | *<accessControlPolicyAnnc>* | 0..n | Announced variant of <*accessControlPolicy>.* See clause 9.6.2 | *<accessControlPolicyAnnc>* |
| *[variable]* | *<subscription>* | 0..n | See clause 9.6.8 | *<subscription>* |
| *[variable]* | *<pollingChannel>* | 0..1 | See clause 9.6.21. If *requestReachability* is FALSE, the CSE that created this *<remoteCSE>* resource should create a *<pollingChannel>* resource and perform long polling. The <*pollingChannel*> shall be utilized by the parent resource | *None* |
| *[variable]* | *<nodeAnnc>* | 0..n | Announced variant of <*node>.* This announced resource is associated with a <node> resource that is hosted on a CSE which is represented by the parent <*remoteCSE*> or <*remoteCSEAnnc*> resource. See clause 9.6.18 for *<node>* | *<nodeAnnc>* |
| *[variable]* | *<dynamicAuthorizationConsultation>* | 0..n | See clause 9.6.40 |  |
| *[variable]* | *<timeSeries>* | 0..n | See clause 9.6.36 | *<timeSeries>* |
| *[variable]* | *<timeSeriesAnnc>* | 0..n | Announced variant of <*timeSeries>.* See clause 9.6.36 | *<timeSeriesAnnc>* |
| *[variable]* | *<AEAnnc>* | 0..n | Announced variant of <*AE>.* See clause 9.6.5 | <*AEAnnc>* |
| *[variable]* | *<locationPolicyAnnc>* | 0..n | Announced variant of <*locationPolicy>.* See clause 9.6.10 | <*locationPolicyAnnc>* |
| *[variable]* | *<transactionMgmt>* | 0..n | See clause 9.6.47 | *<transactionMgmt>* |
| *[variable]* | *<transaction>* | 0..n | See clause 9.6.48 | *<transaction>* |
| *[variable]* | *<ontologyRepositoryAnnc>* | 0..1 | Announced variant of <*ontologyRepository>.* See clause 9.6.50 | <*ontologyRepositoryAnnc>* |
| *[variable]* | *<ontologyMappingAnnc>* | 0..n | Announced variant of <ontologyMapping>. See clause 9.6.70 | *<ontologyMappingAnnc>* |
| *[variable]* | *<ontologyMappingAlgorithmRepositoryAnnc>* | 0..n | Announced variant of <ontologyMappingAlgorithmRepository>. See clause 9.6.71 | *<ontologyMappingAlgorithmRepositoryAnnc>* |
| *[variable]* | *<semanticMashupJobProfile>* | 0..n | See clause 9.6.53 | *<semanticMashupJobProfile>* |
| *[variable]* | *<semanticMashupJobProfileAnnc>* | 0..n | Announced variant of <*semanticMashupJobProfile>.* See clause 9.6.53 | *<semanticMashupJobProfileAnnc>* |
| *[variable]* | *<semanticMashupInstance>* | 0..n | See clause 9.6.54 | *<semanticMashupInstance>* |
| *[variable]* | *<semanticMashupInstanceAnnc>* | 0..n | Announced variant of <*semanticMashupInstance >.* See clause 9.6.54 | *<semanticMashupInstanceAnnc>* |
| *[variable]* | *<action>* | 0..n | See clause 9.6.61 | *<actionAnnc>* |
| *[variable]* | *<actionAnnc>* | 0..n | Announced variant of <*action>.* See clause 9.6.54 | *<actionAnnc>* |
| *[variable]* | *<e2eQosSession>* | 0..1 | See clause 9.6.63 | <*e2eQosSession*> |
| *[variable]* | *<nwMonitoringReq>* | 0..n | See clause 9.6.64 | *<nwMonitoringReq>* |
| *[variable]* | <*softwareCampaign*> | 0..n | See clause 9.6.76 | <*softwareCampaignAnnc*> |

-------------------------------------------------- End of Change 3---------------------------------------