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| CHANGE REQUEST | |
| Meeting ID:\* | SDS #47.2 |
| Source:\* | Cyrille Bareau, Orange, [cyrille.bareau@orange.com](mailto:cyrille.bareau@orange.com)  Marianne Mohali, Orange, [marianne.mohali@orange.com](mailto:marianne.mohali@orange.com) |
| Date:\* | 2020-11-10 |
| Reason for Change/s:\* | XSD for FlexContainerInstance\_Rel4 |
| CR against: Release\* | Release 4 |
| CR against: WI\* | Active <Work Item number>  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-0004 XSD files (do not exist at the moment) |
| 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 |
| Impacted other TS/TR(s) |  |
| 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 2017 (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 updates the XSD schemas to include the <flexContainerInstance> resource introduced in release 4 of TS-0001 and TS-0004.

Following XSD files are proposed to be updated for realease 4 when available.

* Changes in CDT-commonTypes and CDT-enumerationTypes reflect the introduction of a complexType for flexContainerInstance.
* Changes in CDT-allJoyn\* and CDT-genericInterworking\* reflect the needed modifications for defined specializations of flexContainer.
* Change HD-mod-audioVolume is an *example* of the needed modifications for flexContainer specializations of SDT-related resources, as these files are generated automatically.

------------------ Start of change to CDT-commonTypes ---------------

[…]

<xs:complexType name="announcedFlexContainerResource">

<xs:sequence>

<xs:element name="resourceType" type="m2m:resourceType" />

<xs:element name="resourceID" type="m2m:ID" />

<xs:element name="parentID" type="m2m:nhURI" />

<xs:element name="creationTime" type="m2m:timestamp" minOccurs="0" />

<xs:element name="lastModifiedTime" type="m2m:timestamp" minOccurs="0" />

<xs:element name="labels" type="m2m:labels" minOccurs="0" />

<xs:element name="accessControlPolicyIDs" type="m2m:acpType" />

<xs:element name="expirationTime" type="m2m:timestamp" minOccurs="0" />

<xs:element name="link" type="xs:anyURI" />

<xs:element name="dynamicAuthorizationConsultationIDs" type="m2m:listOfURIs" minOccurs="0" />

<xs:element name="stateTag" type="xs:nonNegativeInteger" minOccurs="0" />

<xs:element name="containerDefinition" type="xs:anyURI" />

<xs:element name="ontologyRef" type="xs:anyURI" minOccurs="0" />

<xs:element name="contentSize" type="xs:nonNegativeInteger" minOccurs="0"/>

<xs:element name="nodeLink" type="xs:anyURI" minOccurs="0" />

</xs:sequence>

<xs:attribute name="resourceName" type="m2m:resourceName" use="required" />

</xs:complexType>

<xs:complexType name="flexContainerInstanceResource">

<xs:sequence>

<xs:element name="resourceType" type="m2m:resourceType" />

<xs:element name="resourceID" type="m2m:ID" />

<xs:element name="parentID" type="m2m:nhURI" />

<xs:element name="creationTime" type="m2m:timestamp" />

<xs:element name="labels" type="m2m:labels" minOccurs="0" />

<xs:element name="expirationTime" type="m2m:timestamp" minOccurs="0" />

<xs:element name="originator" type="m2m:ID" />

<xs:element name="contentSize" type="xs:nonNegativeInteger" />

</xs:sequence>

<xs:attribute name="resourceName" type="m2m:resourceName" use="required" />

</xs:complexType>

<!-- The following Global Elements define substitution groups -->

<xs:element name="sg\_resource" type="m2m:resource" abstract="true" />

<xs:element name="sg\_regularResource" type="m2m:regularResource" abstract="true" />

<xs:element name="sg\_announcedResource" type="m2m:announcedResource" abstract="true" />

<xs:element name="sg\_announceableResource" type="m2m:announceableResource" abstract="true"/>

<xs:element name="sg\_subordinateResource" type="m2m:subordinateResource" abstract="true" />

<xs:element name="sg\_announceableSubordinateResource" type="m2m:announceableSubordinateResource" abstract="true" />

<xs:element name="sg\_announcedSubordinateResource" type="m2m:announcedSubordinateResource" abstract="true" />

<xs:element name="sg\_mgmtResource" type="m2m:mgmtResource" abstract="true" />

<xs:element name="sg\_announcedMgmtResource" type="m2m:announcedMgmtResource" abstract="true" />

<xs:element name="sg\_flexContainerResource" type="m2m:flexContainerResource" abstract="true" />

<xs:element name="sg\_announcedFlexContainerResource" type="m2m:announcedFlexContainerResource" abstract="true" />

<xs:element name="sg\_flexContainerInstanceResource" type="m2m:flexContainerInstanceResource" abstract="true" />

### -----------------------End of change ---------------------------------------------

-------------- Start of change to CDT-enumerationTypes--------------

[…]

<xs:enumeration value="47" />

<!-- crossResourceSubscription -->

<xs:enumeration value="48" />

<!-- backgroundDataTransfer -->

<xs:enumeration value="49" />

<!-- transactionMgmt -->

<xs:enumeration value="50" />

<!-- transaction -->

<xs:enumeration value="51" />

<!-- ontologyMapping -->

<xs:enumeration value="52" />

<!-- ontologyMappingAlgorithm -->

<xs:enumeration value="53" />

<!-- ontologyMappingAlgorithmRepository -->

<xs:enumeration value="54" />

<!-- reasoningJobInstance -->

<xs:enumeration value="55" />

<!-- reasoningRules -->

<xs:enumeration value="56" />

<!-- semanticRuleRepository -->

<xs:enumeration value="57" />

<!-- flexContainerInstance -->

<xs:enumeration value="58" />

[…]

### -----------------------End of change ---------------------------------------------

-----Start of change to CDT-genericInterworkingOperationInstance ------------

<xs:element name="genericInterworkingOperationInstanceInst" substitutionGroup="m2m:sg\_flexContainerInstanceResource">

<xs:complexType>

<xs:complexContent>

<xs:extension base="m2m:flexContainerInstanceResource">

<xs:sequence>

<!-- Resource Specific Attributes -->

<xs:element name="operationName" type="xs:string" />

<xs:element name="operationState" type="xs:string" />

<xs:element name="inputDataPointLinks" type="m2m:listOfDataLinks" minOccurs="0" />

<xs:element name="outputDataPointLinks" type="m2m:listOfDataLinks" minOccurs="0" />

<xs:element name="inputLinks" type="m2m:listOfDataLinks" minOccurs="0" />

<xs:element name="outputLinks" type="m2m:listOfDataLinks" minOccurs="0" />

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

### -----------------------End of change ---------------------------------------------

### ----Start of change to CDT-genericInterworkingService--------

<xs:element name="genericInterworkingServiceInst" substitutionGroup="m2m:sg\_flexContainerInstanceResource">

<xs:complexType>

<xs:complexContent>

<xs:extension base="m2m:flexContainerInstanceResource">

<xs:sequence>

<!-- Resource Specific Attributes -->

<xs:element name="serviceName" type="xs:string" />

<xs:element name="inputDataPointLinks" type="m2m:listOfDataLinks" minOccurs="0" />

<xs:element name="outputDataPointLinks" type="m2m:listOfDataLinks" minOccurs="0" />

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

### -----------------------End of change ---------------------------------------------

### -----------------------Start of change to CDT-allJoynSvcObject-------------

<xs:element name="allJoynSvcObjectInst" substitutionGroup="m2m:sg\_flexContainerInstanceResource">

<xs:complexType>

<xs:complexContent>

<!-- Inherit attributes common to flexContainerInstance specializations -->

<xs:extension base="m2m:flexContainerInstanceResource">

<xs:sequence>

<!-- Resource Specific Attributes -->

<xs:element name="objectPath" type="xs:string" />

<xs:element name="enable" type="xs:boolean" />

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

### -----------------------End of change ---------------------------------------------

### -----------------------Start of change CDT-allJoynProperty--------------------------

<xs:element name="allJoynPropertyInst" substitutionGroup="m2m:sg\_flexContainerInstanceResource">

<xs:complexType>

<xs:complexContent>

<!-- Inherit attributes common to flexContainerInstance specializations -->

<xs:extension base="m2m:flexContainerInstanceResource">

<xs:sequence>

<!-- Resource Specific Attributes -->

<xs:element name="currentValue" type="xs:string" />

<xs:element name="requestedValue" type="xs:string" minOccurs="0" />

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

### -----------------------End of change ---------------------------------------------

### -----------------------Start of change CDT-allJoynMethodCall-----------

<xs:element name="allJoynMethodCallInst" substitutionGroup="m2m:sg\_flexContainerInstanceResource">

<xs:complexType>

<xs:complexContent>

<!-- Inherit attributes common to flexContainerInstance specializations -->

<xs:extension base="m2m:flexContainerInstanceResource">

<xs:sequence>

<!-- Resource Specific Attributes -->

<xs:element name="input" type="xs:string" minOccurs="0" />

<xs:element name="callStatus" type="xs:string" minOccurs="0" />

<xs:element name="output" type="xs:string" minOccurs="0" />

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

### -----------------------End of change ---------------------------------------------

### -----------------------Start of change to CDT-allJoynApp-----------------

<xs:element name="allJoynAppInst" substitutionGroup="m2m:sg\_flexContainerInstanceResource">

<xs:complexType>

<xs:complexContent>

<!-- Inherit attributes common to flexContainerInstance specializations -->

<xs:extension base="m2m:flexContainerInstanceResource">

<xs:sequence>

<!-- Resource Specific Attributes -->

<xs:element name="direction" type="m2m:allJoynDirection" />

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

### -----------------------End of change ---------------------------------------------

### -----------------------Start of change to CDT-allJoynInterface------------------------

<xs:element name="allJoynInterfaceInst" substitutionGroup="m2m:sg\_flexContainerInstanceResource">

<xs:complexType>

<xs:complexContent>

<!-- Inherit attributes common to flexContainerInstance specializations -->

<xs:extension base="m2m:flexContainerInstanceResource">

<xs:sequence>

<!-- Resource Specific Attributes -->

<xs:element name="interfaceIntrospectXmlRef" type="xs:anyURI" />

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

</xs:element>

### -----------------------End of change ---------------------------------------------

### -----------------------Start of change to HD-mod-audioVolume-------------

<xs:element name="audioVolumeInst" type="hd:audioVolumeInst" substitutionGroup="m2m:sg\_flexContainerInstanceResource" />

<xs:complexType name="audioVolumeInst">

<xs:complexContent>

<xs:extension base="m2m:flexContainerInstanceResource">

<xs:sequence>

<xs:element name="volumePercentage" minOccurs="0" type="xs:integer" />

<xs:element name="stepValue" minOccurs="0" type="xs:integer" />

<xs:element name="maxValue" minOccurs="0" type="xs:integer" />

<xs:element name="muteEnabled" minOccurs="0" type="xs:boolean" />

</xs:sequence>

</xs:extension>

</xs:complexContent>

</xs:complexType>

### -----------------------End of change ---------------------------------------------

CHECK LIST

* Does this Change Request include an informative introduction containing the problem(s) being solved, and a summary list of proposals.?
* Does this CR contain changes related to only one particular issue/problem?
* Have any mirror CRs been posted?
* Does this Change Request make **all** the changes necessary to address the issue or problem? E.g. A change impacting 5 tables should not include a proposal to change only 3 tables?Does this Change Request follow the drafting rules?
* Are all pictures editable?
* Have you checked the spelling and grammar?
* Have you used change bars for all modifications?
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* Are multiple changes in this CR 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.?