Component Instantiation Name

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Proposal

This document contains a proposal to change the Draft SCAv4.1 specification to remove the SAD usagename element and to better describe the intend of the DCD usagename element.

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Recommendation

SCA v4.1 Component Instantiation usagename
Issue # 171
Topics

Description of the Issue
Summary of the Proposal
Detailed Proposal
Specifications Changes
Description of the Issue

In the Appendix D-1 document, the usagename element is defined as optional for a SAD componentinstantiation (D-1.10.1.3.1.2), a SAD assemblyinstantiation (D-1.10.1.3.3.1), and a DCD componentinstantiation (D-1.11.1.4.1.5).

However:
- there is no text explaining its use in sections D-1.10.1.3.1.2 and D-1.10.1.3.3.1.
- There is no text in the main specification that ties the value of the usagename element when it is provided (except for a service component).
- There is no way for a component to provides this informational value to others.
Summary of the Proposal

Remove the usagename element as child of SAD componentinstantiation element.

Remove the usagename element as child of SAD assemblyinstantiation element.

Add clarification to section D-1.11.1.4.1.5 componentinstantiation.
Detailed Proposal

Remove the usagename element as a child of SAD componentinstantiation element

D-1.10.1.3.1.2 componentinstantiation

Remove usagename DTD element from figure 22.

```xml
<!ELEMENT componentinstantiation (usagename?, componentproperties?, deploymentdependencies?, findcomponent? )>
<!ATTLIST componentinstantiation id ID #REQUIRED stringifiedobjectref CDATA #IMPLIED>

<!ELEMENT usagename (#PCDATA)>
```
Remove the usagename element as a child of SAD assemblyinstantiation element

D-1.10.1.3.3.1 assemblyinstantiation

Remove usagename DTD element from figure 27.

<!ELEMENT assemblyinstantiation
  (usagename?,
   componentproperties?,
   deviceassignments?,
   deploymentdependencies?)>

<!ATTLIST assemblyinstantiation
  id ID #REQUIRED>
Add clarification to section D-1.11.1.4.1.5 componentinstantiation

D-1.11.1.4.1.5 componentinstantiation

The *componentinstantiation* element (see Figure 38) is intended to describe a particular instantiation of a component relative to a *componentplacement* element. The *componentinstantiation*’s *id* attribute is an implementation specific value that uniquely identifies the component. The *componentinstantiation* element’s *stringifiedobjectref* attribute, when specified, is the component instantiation object reference that requires dynamic connections. The *componentinstantiation* contains a *usagename* element that contains is intended for an applicable a readable name for the component.

The *usagename* element is required for a component service (e.g., Log Service implementation), the *usagename* element is not optional and is not used by other platform components. For ServiceComponents, *usagename* must be provided in an “identifier\type” format. The “identifier” portion of the name must be unique for each service instantiation. The “type” value is common across all instantiations of the same service. The “type” value should be representative of the service that is being provided such as the name or the interfaces. The value “log” represents the type for a Log Service implementation.