

**SOFTWARE COMMUNICATIONS ARCHITECTURE
VERSION 4.1
ERRATA**



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REVISION SUMMARY

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1 SCOPE

This errata sheet contains a number of corrections applied against the content of the following specifications:

- Software Communications Architecture Specification, Version 4.1, 20 August 2015
- Software Communications Architecture Specification Appendix B: SCA Application Environment Profiles, Version 4.1, 20 August 2015
- Software Communications Architecture Specification Appendix D-1: Platform Specific Model - Document Type Definition Files, Version 4.1, 20 August 2015
- Software Communications Architecture Specification Appendix E: Platform Specific Model (PSM) - Transfer Mechanisms and Enabling Technologies, Version 4.1, 20 August 2015
- Software Communications Architecture Specification Appendix E-1: Application Interface Definition Language Platform Independent Model Profiles, Version 4.1, 20 August 2015
- Software Communications Architecture Specification Appendix E-2 - Attachment 1: SCA CORBA Profiles (from CORBA/e), Version 4.1, 20 August 2015
- Software Communications Architecture Specification Appendix E-2 - Attachment 2: SCA CORBA Profiles (from RT CORBA), Version 4.1, 20 August 2015
- Software Communications Architecture Specification Appendix F - Attachment 1: SCA Conformance Mapping, Version 4.1, 20 August 2015

1.1 IMPACTED REQUIREMENTS

The following requirements are impacted by the contents of these errata:

- SCA420 - 2.1.1, 2.8.1
- SCA540 - 2.1.2, 2.8.2
- SCA13 - 2.1.5, 2.1.6, 2.8.3, 2.8.4
- SCA455 - 2.1.7, 2.8.5
- SCA108 - 2.1.9, 2.8.6
- SCA210 - 2.1.11, 2.8.7
- SCA217 - 2.1.12, 2.8.8
- SCA442 - 2.1.13, 2.8.10
- SCA438 - 2.1.14, 2.8.9
- SCA292 - 2.1.15, 2.8.11
- SCA458 - 2.1.16, 2.8.12
- SCA460 - 2.1.17, 2.8.13
- SCA478 - 2.2.3
- SCA482 - 2.2.4
- SCA467 - 2.2.5
- SCA490 - 2.2.6, 2.2.7
- SCA491 - 2.2.8, 2.2.9
- SCA224 - 2.9.3
- SCA227 - 2.9.4
- SCA229 - 2.9.5

Note: The corrections introduced typically provide clarification or administrative changes and do not impact the substance of the requirements.

2 SCA ERRATA

Note: Corrections are highlighted in red font for readability.

2.1 MAIN SPECIFICATION

2.1.1 Section 3.1.3.1.2.1.3 Semantics

Page 33 – Invalid element reference and missing text

From: SCA420 A BaseComponent shall implement a 'configure' kind of property with ~~a name~~ of PRODUCER_LOG_LEVEL.

To: SCA420 A BaseComponent shall implement a 'configure' kind of property with **an id** of PRODUCER_LOG_LEVEL **and a value of type CosLwLog::LogLevelSequence.**

2.1.2 Section 3.1.3.1.2.2.3 Semantics

Page 35 – Clarification; Incorrect Section Reference

From: SCA540 ~~Each BaseFactoryComponent~~ shall support the mandatory Component Identifier execute parameter as described in section ~~3.1.3.3.1.3.5.1~~, in addition to their user-defined execute properties in the component's SPD.

To: SCA540 **A BaseFactoryComponent** shall support the mandatory Component Identifier execute parameter as described in section **3.1.3.3.2.2.3**, in addition to their user-defined execute properties in the component's SPD.

2.1.3 Section 3.1.3.1.3.2 ObjectSequence

Page 36 – Inconsistency between text and the IDL file definition

From: typedef sequence ~~<CF::OctetSeq>~~ ObjectSequence;

To: typedef sequence ~~<Object>~~ ObjectSequence;

2.1.4 Section 3.1.3.1.3.7 OctetSequence

Page 36 – Inconsistency with Appendix C and IDL

From: typedef ~~sequence <CF::OctetType>~~ OctetSequence;

To: typedef **CF::OctetSeq** OctetSequence;

2.1.5 Section 3.1.3.2.1.2.5.3.4 Returns

Page 45 – Clarification

From: SCA13 The getProvidesPorts operation shall return the object references that are associated with the input port names ~~and the connectionIds.~~

To: SCA13 The getProvidesPorts operation shall return the object references that are associated with the input port names **(that are stated in the SCD) within the portConnections parameter.**

2.1.6 Section 3.1.3.2.1.2.5.3.4 Returns

Page 45 – Incorrect placement of requirement

Move SCA13

From: Section 3.1.3.2.1.2.5.3.4 ~~Returns~~

To: Section 3.1.3.2.1.2.5.3.3 Behavior

Delete: "~~The getProvidesPorts operation returns the provides port object references associated with the component's input port names that are stated in its SCD.~~" from Section 3.1.3.2.1.2.5.3.3 BehaviorAdd: "~~This operation does not return a value.~~" to Section 3.1.3.2.1.2.5.3.4 Returns

2.1.7 Section 3.1.3.2.2.3 Semantics

Page 53 – Incorrect section referenceFrom: SCA455 Each ManageableApplicationComponent shall support the mandatory Component Identifier execute parameter as described in section ~~3.1.3.3.1.3.5.1~~, in addition to their userdefined execute properties in the component's SPD.To: SCA455 Each ManageableApplicationComponent shall support the mandatory Component Identifier execute parameter as described in section ~~3.1.3.3.2.2.3~~, in addition to their userdefined execute properties in the component's SPD.

2.1.8 Section 3.1.3.3.1.3.5.1.3 Behavior

Page 65 – Erroneous semicolon

From: 1. A CF::DataType with an id of EXECUTION_ID and value of ExecutableInterface::ExecutionID_Type;

To: 1. A CF::DataType with an id of EXECUTION_ID and value of ExecutableInterface::ExecutionID_Type;

2.1.9 Section 3.1.3.3.1.3.5.1.5 Exceptions/Errors

Page 66 – Clarification

From: SCA108 The InvalidInitConfiguration invalidProperties parameter shall identify the invalid properties.

To: SCA108 The InvalidInitConfiguration ~~exception's~~ invalidProperties parameter shall identify the invalid properties.

2.1.10 Section 3.1.3.3.2.3.3 Semantics

Page 86 – Missing Period

From: The registerComponent operation upon successful BasePlatformComponent registration adds the registeringComponent to its corresponding registered DeviceManagerComponent's CF::ManagerInfo deployedComponents in the DomainManagerComponent's managers attribute

To: The registerComponent operation upon successful BasePlatformComponent registration adds the registeringComponent to its corresponding registered DeviceManagerComponent's CF::ManagerInfo deployedComponents in the DomainManagerComponent's managers attribute.

2.1.11 Section 3.1.3.3.2.3.3 Semantics

Page 87 – Text inconsistency with SCA204

From: SCA210 The unregisterComponent operation shall unmount all DeviceManagerComponent's ~~filesystems~~ from its FileManagerComponent when the unregistering component's type field is DEVICE_MANAGER_COMPONENT.

To: SCA210 The unregisterComponent operation shall unmount all DeviceManagerComponent's ~~FileSystemComponents~~ from its FileManagerComponent when the unregistering component's type field is DEVICE_MANAGER_COMPONENT.

2.1.12 Section 3.1.3.3.2.4.3 Semantics

Page 89 – Clarification

From: SCA217 A DeviceManagerComponent shall create FileSystemComponents implementing the FileSystem interface for each ~~OS file system~~.

To: SCA217 A DeviceManagerComponent shall create FileSystemComponents implementing the FileSystem interface for each ~~filesystemname listed in its DCD~~.

2.1.13 Section 3.1.3.3.2.4.3 Semantics

Page 90, SCA442 – Capitalization error

From: 3. Composite Device IOR - The ~~ID~~ is "~~Composite_DEVICE_IOR~~" and the value is a string that is an AggregateDeviceComponent stringified IOR (this parameter is only used when the DCD componentinstantiation element represents the child device of another componentinstantiation element);

To: 3. Composite Device IOR - The ~~id~~ is ~~COMPOSITE_DEVICE_IOR~~ and the value is a string that is an AggregateDeviceComponent stringified IOR (this parameter is only used when the DCD componentinstantiation element represents the child device of another componentinstantiation element);

2.1.14 Section 3.1.3.3.2.4.3 Semantics

Page 91, SCA438 – Capitalization error

From: 2. Composite Device IOR - The ~~ID~~ is "~~Composite_DEVICE_IOR~~" and the value is a string that is an AggregateDeviceComponent stringified IOR (this parameter is only used when the DCD componentinstantiation element represents the child device of another componentinstantiation element);

To: 2. Composite Device IOR - The ~~id~~ is ~~COMPOSITE_DEVICE_IOR~~ and the value is a string that is an AggregateDeviceComponent stringified IOR (this parameter is only used when the DCD componentinstantiation element represents the child device of another componentinstantiation element);

2.1.15 Section 3.1.3.4.1.7.4.1 devices

Page 105 – Clarification

From: SCA292 The readonly devices attribute shall return a list of devices that have been added to this ~~device~~ or a sequence length of zero if ~~the device has no aggregation relationships with other devices~~.

To: SCA292 The readonly devices attribute shall return a list of devices that have been added to this ~~aggregate device~~ or a sequence length of zero if ~~no devices have been added~~.

2.1.16 Section 3.1.3.4.2.1.3 Semantics

Page 107 – Clarification

From: SCA458 A child DeviceComponent shall add itself to a parent device ~~using the executable Composite Device IOR and DEVICE_ID parameters per 3.1.3.3.2.4.3~~.

To: SCA458 A child DeviceComponent shall add itself to a parent device **via the addDevice operation**.

2.1.17 Section 3.1.3.5.2.6.4 Constraints

Page 133 – Incorrect section reference

From: SCA460 Each ServiceComponent shall have an SPD as described in section ~~3.1.3.6.4~~.

To: SCA460 Each ServiceComponent shall have an SPD as described in section **3.1.3.6.1**.

2.2 APPENDIX B

2.2.1 Section B.3 CONVENTIONS

Page 7 – Clarification

From: Within this appendix, the following abbreviations are used:

1. "MAN" indicates that the identified function or option is mandatory for the indicated profile;
2. "NRQ" indicates that the identified function or option is not required for the indicated profile;
3. "PRT" indicates that only a subset of the indicated option or unit of functionality is required. This designation will be followed by a note or cross-reference indicating which elements are required.

To: Within this appendix, the following abbreviations are used:

1. "MAN" indicates that the identified function, **file** or option is mandatory for the indicated profile;
2. "NRQ" indicates that the identified function, **file** or option is not required for the indicated profile;
3. "PRT" indicates that only a subset of the indicated option, **file** or unit of functionality is required. This designation will be followed by a note or cross-reference indicating which elements are required.

2.2.2 Section B.5 INFORMATIVE REFERENCES

Page 7 – Incorrect document version referenced

From: [5] Lw and ULw POSIX AEPs for Resource Constrained Processors, Version ~~V0.4.0~~, WINNF-14-S-0009, ~~17 June 2014~~

To: [5] Lw and ULw POSIX AEPs for Resource Constrained Processors, Version **V1.0.0**, WINNF-14-S-0009, **25 July 2014**

2.2.3 Section B.6.1.5 Signals Function Behavior

Page 12, SCA478 – Spelling error

From: sigsuspend()

To: sigsuspend()

2.2.4 Section B.6.1.8 File System Function Behavior

Page 14, SCA482 – Mandatory reference to obsoleted function in later version POSIX (2008)

From: utime() ~~MAN~~ NRQ NRQ

To: utime() NRQ NRQ NRQ

2.2.5 Section B.6.1.18 POSIX Threading Function Behavior

Page 19, SCA467 – Erroneously placed whitespace

From: pthread_cond_-broadcast()

To: pthread_cond_broadcast()

2.2.6 Section B.6.2.1 C Language-Specific Support Services Function Behavior

Page 21, SCA490 – Mandatory reference to obsoleted function in later version POSIX (2008)

From: asctime() ~~MAN-MAN~~ NRQ

To: asctime() NRQ NRQ NRQ

2.2.7 Section B.6.2.1 C Language-Specific Support Services Function Behavior

Page 22, SCA490 – Mandatory reference to obsoleted function in later version POSIX (2008)

From: ctime() ~~MAN-MAN~~ NRQ

To: ctime() NRQ NRQ NRQ

2.2.8 Section B.6.2.2 C Language-Specific Mathematical Function Behavior

Page 25, SCA491 – Erroneous MAN assignment

From: hypot() NRQ NRQ ~~MAN~~

To: hypot() NRQ NRQ NRQ

2.2.9 Section B.6.2.2 C Language-Specific Mathematical Function Behavior

Page 25, SCA491 – Spelling error on second occurrence of hypot(); Erroneous MAN assignment

From: hypot() NRQ NRQ ~~MAN~~

To: hypotf() NRQ NRQ NRQ

2.2.10 Section B.6.3 POSIX Standard C Library Header Files

Page 27 – Clarification

From: All symbols (other than ~~operations~~) included within the header files with a MAN or PRT designation are considered elements of the profile.

To: All symbols (other than ~~functions~~) included within the header files with a MAN or PRT designation are considered elements of the profile. **The functions, that are available for use by an ApplicationComponent from each header file for each SCA profile (e.g. UltraLw profile) with a PRT designation, are identified as specified in Sections B-6.1 and B-6.2.**

2.3 APPENDIX D-1

2.3.1 Section D-1.8.1.4.1 configurationkind

Page 38 – Incorrect placement of sentence and correct cardinality

Move sentence to end of first paragraph in section D-1.8.1.4;

From: A property can have **multiple configurationkind elements** and **their** default *kindtype* is configure.

To: A property can have **a configurationkind element** and **its** default *kindtype* is configure.

2.3.2 Section D-1.9.1.2 componenttype

Page 41 – Descriptive list missing a component type

From: The *componenttype* describes properties of the component. For SCA components, the component types include APPLICATION_COMPONENT, DEVICE_COMPONENT, LOADABLE_DEVICE_COMPONENT, EXECUTABLE_DEVICE_COMPONENT, MANAGEABLE_SERVICE_COMPONENT, SERVICE_COMPONENT, DEVICE_MANAGER_COMPONENT, DOMAIN_MANAGER_COMPONENT, APPLICATION_MANAGER_COMPONENT, APPLICATION_FACTORY_COMPONENT, APPLICATION_COMPONENT_FACTORY_COMPONENT and PLATFORM_COMPONENT_FACTORY_COMPONENT.

To: The *componenttype* describes properties of the component. For SCA components, the component types include APPLICATION_COMPONENT, **MANAGEABLE_APPLICATION_COMPONENT**, DEVICE_COMPONENT, LOADABLE_DEVICE_COMPONENT, EXECUTABLE_DEVICE_COMPONENT, MANAGEABLE_SERVICE_COMPONENT, SERVICE_COMPONENT, DEVICE_MANAGER_COMPONENT, DOMAIN_MANAGER_COMPONENT, APPLICATION_MANAGER_COMPONENT, APPLICATION_FACTORY_COMPONENT, APPLICATION_COMPONENT_FACTORY_COMPONENT and PLATFORM_COMPONENT_FACTORY_COMPONENT.

2.3.3 Section D-1.10.1.3.3.1.3 deploymentdependencies

Page 55 – Incorrect section reference

From: The *deploymentdependencies* element (described generically in section **D-1.10.1.3.3.1.4**) overrides referenced SAD dependencies.

To: The *deploymentdependencies* element (described generically in section **D-1.10.1.4**) overrides referenced SAD dependencies.

2.3.4 Section D-1.10.1.6.1.1.1 identifier

Page 60 – Clarification

From: This identifier will correspond with an *id* for one of the component ports specified in the SCD.

To: This identifier will correspond with an *id* for one of the component ports specified in the SCD **or the usesidentifier of an assembly instantiation's external port**.

2.3.5 Section D-1.10.1.6.1.2.1 identifier

Page 63 – Incorrect reference to repid attribute; Clarification

From: This identifier will correspond with **a repid attribute** for one of the component ports elements, specified in the SCD.

To: This identifier will correspond with **an id** for one of the component ports elements specified in the SCD **or the *providesidentifier of an assembly instantiation's external port***.

2.3.6 Section D-1.10.1.6.1.3.3

Page 64 – Missing subsections

Add the following subsections after section D-1.10.1.6.1.3.3:

D-1.10.1.6.1.3.4 devicethatloadedthiscomponentref

See D-1.10.1.6.1.1.4 for a description of the *devicethatloadedthiscomponentref* element.

D-1.10.1.6.1.3.5 deviceusedbythiscomponentref

See D-1.10.1.6.1.1.5 for a description of the *deviceusedbythiscomponentref* element.

2.4 APPENDIX E

2.4.1 Section N/A

Page i – Incorrect title

From: APPENDIX E - ~~PLATFORM SPECIFIC MODEL (PSM) – TRANSFER MECHANISMS AND ENABLING TECHNOLOGIES~~

To: APPENDIX E - **MODEL DRIVEN SUPPORT TECHNOLOGIES**

2.5 APPENDIX E-1

2.5.1 Section N/A

Page i – Spelling error

From: APPENDIX E-1: APPLICATION INTERFACE DEFINITION **LANGAUGE** PLATFORM INDEPENDENT MODEL PROFILES

To: APPENDIX E-1: APPLICATION INTERFACE DEFINITION **LANGUAGE** PLATFORM INDEPENDENT MODEL PROFILES

2.6 APPENDIX E-2 ATTACHMENT 1

2.6.1 Section N/A

Page 1 – Incorrect title in header

From: Appendix E-~~1~~ - Attachment 1: SCA CORBA Profiles (from CORBA/e)

To: Appendix E-~~2~~ - Attachment 1: SCA CORBA Profiles (from CORBA/e)

2.7 APPENDIX E-2 ATTACHMENT 2

2.7.1 Section N/A

Page 1 – Incorrect title in header

From: Appendix E-~~1~~ - Attachment 2: SCA CORBA Profiles (from RT CORBA)

To: Appendix E-~~2~~ - Attachment 2: SCA CORBA Profiles (from RT CORBA)

2.8 APPENDIX F ATTACHMENT 1

2.8.1 Section N/A

Page 1 – Invalid element reference and missing text

From: SCA420 A BaseComponent shall implement a 'configure' kind of property with ~~a name~~ of PRODUCER_LOG_LEVEL.

To: SCA420 A BaseComponent shall implement a 'configure' kind of property with **an id** of PRODUCER_LOG_LEVEL **and a value of type CosLwLog::LogLevelSequence**.

2.8.2 Section N/A

Page 2 – Incorrect section reference

From: SCA540 ~~Each BaseFactoryComponent~~ shall support the mandatory Component Identifier execute parameter as described in section ~~3.1.3.3.1.3.5.1~~, in addition to their user-defined execute properties in the component's SPD.

To: SCA540 **A BaseFactoryComponent** shall support the mandatory Component Identifier execute parameter as described in section **3.1.3.3.2.2.3**, in addition to their user-defined execute properties in the component's SPD.

2.8.3 Section N/A

Page 3 – Clarification

From: SCA13 The getProvidesPorts operation shall return the object references that are associated with the input port names ~~and the connectionIds~~.

To: SCA13 The getProvidesPorts operation shall return the object references that are associated with the input port names **(that are stated in the SCD) within the portConnections parameter**.

2.8.4 Section N/A

Page 3 – Incorrect placement of requirement

For SCA13 change the associated Section number.

From: 3.1.3.2.1.2.5.3-4

To: 3.1.3.2.1.2.5.3.3

2.8.5 Section N/A

Page 4 – Incorrect section reference

From: SCA455 Each ManageableApplicationComponent shall support the mandatory Component Identifier execute parameter as described in section ~~3.1.3.3.1.3.5.1~~, in addition to their userdefined execute properties in the component's SPD.

To: SCA455 Each ManageableApplicationComponent shall support the mandatory Component Identifier execute parameter as described in section **3.1.3.3.2.2.3**, in addition to their userdefined execute properties in the component's SPD.

2.8.6 Section N/A

Page 8 – Clarification

From: SCA108 The InvalidInitConfiguration invalidProperties parameter shall identify the invalid properties.

To: SCA108 The InvalidInitConfiguration **exception's** invalidProperties parameter shall identify the invalid properties.

2.8.7 Section N/A

Page 14 – Text inconsistency with SCA204

From: SCA210 The unregisterComponent operation shall unmount all DeviceManagerComponent's **file systems** from its FileManagerComponent when the unregistering component's type field is DEVICE_MANAGER_COMPONENT.

To: SCA210 The unregisterComponent operation shall unmount all DeviceManagerComponent's **FileSystemComponents** from its FileManagerComponent when the unregistering component's type field is DEVICE_MANAGER_COMPONENT.

2.8.8 Section N/A

Page 15 – Clarification

From: SCA217 A DeviceManagerComponent shall create FileSystemComponents implementing the FileSystem interface for each **OS file system**.

To: SCA217 A DeviceManagerComponent shall create FileSystemComponents implementing the FileSystem interface for each **filesystemname listed in its DCD**.

2.8.9 Section N/A

Page 16, SCA438 – Capitalization error

From: 2. Composite Device IOR - The **ID** is "**Composite_DEVICE_IOR**" and the value is a string that is an AggregateDeviceComponent stringified IOR (this parameter is only used when the DCD componentinstantiation element represents the child device of another componentinstantiation element);

To: 2. Composite Device IOR - The **id** is **COMPOSITE_DEVICE_IOR** and the value is a string that is an AggregateDeviceComponent stringified IOR (this parameter is only used when the DCD componentinstantiation element represents the child device of another componentinstantiation element);

2.8.10 Section N/A

Page 17, SCA442 – Capitalization error

From: 3. Composite Device IOR - The **ID** is "**Composite_DEVICE_IOR**" and the value is a string that is an AggregateDeviceComponent stringified IOR (this parameter is only used when the DCD componentinstantiation element represents the child device of another componentinstantiation element);

To: 3. Composite Device IOR - The **id** is **COMPOSITE_DEVICE_IOR** and the value is a string that is an AggregateDeviceComponent stringified IOR (this parameter is only used when the DCD componentinstantiation element represents the child device of another componentinstantiation element);

2.8.11 Section N/A

Page 20 – Clarification

From: SCA292 The readonly devices attribute shall return a list of devices that have been added to this **device** or a sequence length of zero if **the device has no aggregation relationships with other devices**.

To: SCA292 The readonly devices attribute shall return a list of devices that have been added to this **aggregate device** or a sequence length of zero if **no devices have been added**.

2.8.12 Section N/A

Page 21 – Clarification

From: SCA458 A child DeviceComponent shall add itself to a parent device ~~using the executable Composite Device IOR and DEVICE_ID parameters per 3.1.3.3.2.4.3.~~

To: SCA458 A child DeviceComponent shall add itself to a parent device **via the addDevice operation**.

2.8.13 Section N/A

Page 27 – Incorrect section reference

From: SCA460 Each ServiceComponent shall have an SPD as described in section ~~3.1.3.6.4~~.

To: SCA460 Each ServiceComponent shall have an SPD as described in section **3.1.3.6.1**.

2.9 APPENDIX F ATTACHMENT 1 (.PDF FILE ONLY)

2.9.1 Section N/A

Page 15, <DEMOTED> SCA219 – Missing end of sentence

From: Upon successful BasePlatformComponent deployment, the DeviceManagerComponent adds the deployed component to its

To: Upon successful BasePlatformComponent deployment, the DeviceManagerComponent adds the deployed component to its **deployedComponents attribute**.

2.9.2 Section N/A

Page 15, <DELETED> SCA221 – Missing end of sentence

From: The DeviceManagerComponent shall add the DeviceComponent and ServiceComponent components launched by a

To: The DeviceManagerComponent shall add the DeviceComponent and ServiceComponent components launched by a **PlatformComponentFactoryComponent to the registeredComponents attribute of the DeviceManagerComponent**.

2.9.3 Section N/A

Page 15, SCA224 – Missing end of sentence

From: A DeviceManagerComponent shall use the stacksize and priority elements as specified in the componentinstantiation element's SPD implementation code for

To: A DeviceManagerComponent shall use the stacksize and priority elements as specified in the componentinstantiation element's SPD implementation code for **the execute operation options parameter**.

2.9.4 Section N/A

Page 15, SCA227 – Missing end of sentence

From: The DeviceManagerComponent shall initialize deployed components that are

To: The DeviceManagerComponent shall initialize deployed components that are **instantiated by the DeviceManagerComponent provided they realize the LifeCycle interface.**

2.9.5 Section N/A

Page 16, SCA229 – Missing end of sentence

From: The DeviceManagerComponent shall configure a DCD's componentinstantiation element provided the componentinstantiation element has configure readwrite

To: The DeviceManagerComponent shall configure a DCD's componentinstantiation element provided the componentinstantiation element has configure readwrite **or writeonly properties with values.**