Legend: Colors indicate differences between SCA 4.1 and 4.0.1
Blue - Demoted / Grey - Deleted / Red - Modified / **Green** - New

Full Set of SCA Requirements				
SCA Requirement Number	**SCA Requirement Text**	**Applicable SCA Component(s)**	**Applicable Unit(s) of Functionality**	**Document Section**
SCA1	The OE and related file systems shall support a maximum filename length of 40 characters and a maximum pathname length of 1024 characters.	OS		3.1.1
SCA451	The OE shall provide the functions and options designated as mandatory by a profile defined in Appendix B.	OS	AEP Provider	3.1.1
SCA452	The OE shall provide a transfer mechanism that, at a minimum, provides the features specified in Appendix E for the specific platform technology implemented.	ORB	CORBA Provider	3.1.2
SCA453	The log service shall conform to the OMG Lightweight Log Service Specification [1].	Log Service	Log Capable	3.1.2.1
<DELETED_4.1DRAFT> SCA2	The OE shall provide an implementation of an Event Service.	Event Service	Event Channel	3.1.2.2.1
SCA3	The OE shall provide two standard event channels: Incoming Domain Management and Outgoing Domain Management.	DomainManagerComponent	Event Channel	3.1.2.2.1
SCA454	The OE shall provide an event capability which implements the PushConsumer and PushSupplier interfaces of the CosEventComm module as described in OMG Event Service Specification [2] consistent with the IDL found in that specification.	Event Service	Event Channel	3.1.2.2.1
SCA386	The createComponent operation shall create a component if no component exists for the given componentId.	BaseFactoryComponent		3.1.3.1.1.1.5.1.3
SCA387	The createComponent operation shall assign the given componentId to a new component.	BaseFactoryComponent		3.1.3.1.1.1.5.1.3
SCA388	The createComponent operation shall return a CF::ComponentType structure.	BaseFactoryComponent		3.1.3.1.1.1.5.1.4
SCA389	The createComponent operation shall raise the CreateComponentFailure exception when it cannot create the component or the component already exists.	BaseFactoryComponent		3.1.3.1.1.1.5.1.5
<DELETED> SCA391	The getComponent operation shall return a structure that contains a reference to the existing component identified by the componentId parameter.	ComponentManagerComponent		3.1.3.1.1.2.5.1.4
<DELETED> SCA392	The getComponent operation shall return a structure with a nil object reference when the component does not exists.	ComponentManagerComponent		3.1.3.1.1.2.5.1.5
<DELETED> SCA395	The releaseComponent operation shall return TRUE for a successful release, or FALSE if the release is not successful or an invalid componentId is specified.	ComponentManagerComponent		3.1.3.1.1.2.5.2.4
SCA420	A BaseComponent shall implement a 'configure' kind of property with a name of PRODUCER_LOG_LEVEL.	BaseComponent	Log Producer, Configurable	3.1.3.1.2.1.3
SCA421	A BaseComponent shall output only those log records to a log service that correspond to enabled log level values in the PRODUCER_LOG_LEVEL attribute.	BaseComponent	Log Producer	3.1.3.1.2.1.3
SCA423	A BaseComponent shall operate normally in the case where the connections to a log service are nil or an invalid reference.	BaseComponent	Log Producer	3.1.3.1.2.1.3
SCA424	A BaseComponent that produces events shall implement the CosEventComm::PushSupplier interface and use the CosEventComm::PushConsumer interface for generating the events.	BaseComponent	Event Producer	3.1.3.1.2.1.3
SCA425	A producer BaseComponent shall not forward or raise any exceptions when the connection to a CosEventComm::PushConsumer is a nil or invalid reference.	BaseComponent	Event Producer	3.1.3.1.2.1.3

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SCA444	A BaseComponent (e.g., ManageableApplicationComponent, DomainManagerComponent, etc.) that consumes events shall implement the CosEventComm::PushConsumer interface.	BaseComponent	Event Consumer	3.1.3.1.2.1.3
SCA518	The releaseObject operation shall disconnect any ports that are still connected.	BaseComponent	Releaseable	3.1.3.1.2.1.3
SCA426	A BaseComponent shall realize the ComponentIdentifier interface.	BaseComponent	Interrogable	3.1.3.1.2.1.4
SCA427	A BaseComponent shall be associated with a domain profile file.	BaseComponent		3.1.3.1.2.1.4
SCA428	A BaseComponent shall provide a test implementation for all properties whose kindtype is "test" as defined in its descriptor files.	BaseComponent	Testable	3.1.3.1.2.1.4
SCA429	A BaseComponent shall configure or retrieve query values for all properties whose kindtype is "configure" as defined in its domain profile.	BaseComponent	Configurable	3.1.3.1.2.1.4
SCA430	A BaseComponent shall supply ports for all the ports defined in its domain profile.	BaseComponent		3.1.3.1.2.1.4
SCA432	A BaseComponent shall realize the LifeCycle interface.	BaseComponent	LifeCycle	3.1.3.1.2.1.4
SCA433	A BaseComponent shall realize the ControllableInterface interface to provide overall management control of the component.	BaseComponent	Controllable	3.1.3.1.2.1.4
SCA545	A BaseComponent shall realize the PropertySet interface to configure and query its properties.	BaseComponent	Configurable	3.1.3.1.2.1.4
SCA546	A BaseComponent shall realize the TestableInterface interface to define and utilize its test properties.	BaseComponent	Testable	3.1.3.1.2.1.4
SCA547	A BaseComponent shall realize the PortAccessor interface as a proxy for its uses and provides ports.	BaseComponent	Connectable	3.1.3.1.2.1.4
SCA548	A BaseComponent shall implement its optional composition relationships via inheritance.	BaseComponent		3.1.3.1.2.1.4
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.	BaseFactoryComponent		3.1.3.1.2.2.3
SCA541	Each executable BaseFactoryComponent shall set its identifier attribute using the Component Identifier execute parameter.	BaseFactoryComponent	Interrogable	3.1.3.1.2.2.3
SCA574	The releaseObject operation shall release all component instances created by the BaseFactoryComponent.	BaseFactoryComponent	Releaseable	3.1.3.1.2.2.3
SCA413	A BaseFactoryComponent shall realize the ComponentFactory interface.	BaseFactoryComponent		3.1.3.1.2.2.4
SCA414	A BaseFactoryComponent shall fulfill the BaseComponent requirements.	BaseFactoryComponent		3.1.3.1.2.2.4
SCA549	A BaseFactoryComponent shall realize the LifeCycle interface.	BaseFactoryComponent		3.1.3.1.2.2.4
<DELETED> SCA390	The getComponent operation shall increment the reference count for the component indicated by the componentId parameter by one.	ComponentManagerComponent		3.1.3.1.2.3.3
<DELETED> SCA393	The releaseComponent operation shall decrement the reference count for the component indicated by the componentId parameter by one.	ComponentManagerComponent		3.1.3.1.2.3.3
<DELETED> SCA417	The createComponent operation shall set the reference count for the component indicated by the componentId parameter to one.	ComponentManagerComponent		3.1.3.1.2.3.3
<DELETED> SCA533	The releaseComponent operation shall release the component from the OE when the reference count of the component indicated by the componentId parameter is zero.	ComponentManagerComponent		3.1.3.1.2.3.3
<DELETED> SCA418	A ComponentManagerComponent shall realize the ComponentManager interface.	ComponentManagerComponent		3.1.3.1.2.3.4
<DELETED> SCA419	A ComponentManagerComponent shall fulfill the BaseFactoryComponent requirements.	ComponentManagerComponent		3.1.3.1.2.3.4

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SCA6	The readonly identifier attribute shall return the instance-unique identifier for a component.	BaseComponent	Interrogable	3.1.3.2.1.1.4.1
SCA7	The connectUsesPorts operation shall make the connection(s) to the component identified by its input portConnections parameter.	BaseComponent	Connectable	3.1.3.2.1.2.5.1.3
SCA519	The connectUsesPorts operation shall disconnect any connections it formed if any connections in the input portConnections parameter cannot be successfully established.	BaseComponent	Connectable	3.1.3.2.1.2.5.1.3
SCA8	The connectUsesPorts operation shall raise the InvalidPort exception when the input portConnections parameter provides an invalid connection for the specified port.	BaseComponent	Connectable	3.1.3.2.1.2.5.1.5
SCA10	The disconnectPorts operation shall break the connection(s) to the component identified by the input portDisconnections parameter.	BaseComponent	Connectable	3.1.3.2.1.2.5.2.3
SCA11	The disconnectPorts operation shall release all ports if the input portDisconnections parameter is a zero length sequence.	BaseComponent	Connectable	3.1.3.2.1.2.5.2.3
SCA12	The disconnectPorts operation shall raise the InvalidPort exception when the input portDisconnections parameter provides an unknown connection to the PortAccessor's component.	BaseComponent	Connectable	3.1.3.2.1.2.5.2.5
SCA13	The getProvidesPorts operation shall return the object references that are associated with the input port names and the connectionIds.	BaseComponent	Connectable	3.1.3.2.1.2.5.3.4
SCA14	The getProvidesPorts operation shall raise an InvalidPort exception when the input portConnections parameter requests undefined connection(s).	BaseComponent	Connectable	3.1.3.2.1.2.5.3.5
SCA15	The initialize operation shall raise an InitializeError exception when an initialization error occurs.	BaseComponent	LifeCycle	3.1.3.2.1.3.5.1.5
SCA16	The releaseObject operation shall release all internal memory allocated by the component during the life of the component.	BaseComponent	Releaseable	3.1.3.2.1.3.5.2.3
SCA17	The releaseObject operation shall tear down the component and release it from the operating environment.	BaseComponent	Releaseable	3.1.3.2.1.3.5.2.3
SCA18	The releaseObject operation shall raise a ReleaseError exception when a release error occurs.	BaseComponent	Releaseable	3.1.3.2.1.3.5.2.5
SCA19	The runTest operation shall use the input testId parameter to determine which of its predefined test implementations should be performed.	BaseComponent	Testable	3.1.3.2.1.4.5.1.3
SCA21	The runTest operation shall return the result(s) of the test in the testValues parameter.	BaseComponent	Testable	3.1.3.2.1.4.5.1.3
SCA23	The runTest operation shall raise the UnknownTest exception when there is no underlying test implementation that is associated with the input testId given.	BaseComponent	Testable	3.1.3.2.1.4.5.1.5
SCA24	The runTest operation shall raise the CF::UnknownProperties exception when the input parameter testValues contains any CF::DataTypes that are not known by the component's test implementation or any values that are out of range for the requested test.	BaseComponent	Testable	3.1.3.2.1.4.5.1.5
SCA25	The exception parameter invalidProperties shall contain the invalid testValues properties id(s) that are not known by the component or the value(s) are out of range.	BaseComponent	Testable	3.1.3.2.1.4.5.1.5
SCA26	The configure operation shall assign values to the properties as indicated in the input configProperties parameter.	BaseComponent	Configurable	3.1.3.2.1.5.5.1.3
SCA27	The configure operation shall raise a PartialConfiguration exception when some configuration properties were successfully set and some configuration properties were not successfully set.	BaseComponent	Configurable	3.1.3.2.1.5.5.1.5

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SCA28	The configure operation shall raise an InvalidConfiguration exception when a configuration error occurs and no configuration properties were successfully set.	BaseComponent	Configurable	3.1.3.2.1.5.5.1.5
SCA29	The query operation shall return all component properties when the inout parameter configProperties is zero size.	BaseComponent	Configurable	3.1.3.2.1.5.5.2.3
SCA30	The query operation shall return only those id/value pairs specified in the configProperties parameter if the parameter is not zero size.	BaseComponent	Configurable	3.1.3.2.1.5.5.2.3
SCA31	The query operation shall raise the CF::UnknownProperties exception when one or more properties being requested are not known by the component.	BaseComponent	Configurable	3.1.3.2.1.5.5.2.5
SCA32	The readonly started attribute shall return the component's started value.	BaseComponent	Controllable	3.1.3.2.1.6.4.1
SCA33	The start operation shall set the started attribute to a value of TRUE.	BaseComponent	Controllable	3.1.3.2.1.6.5.1.3
SCA34	The start operation shall raise the StartError exception if an error occurs while starting the component.	BaseComponent	Controllable	3.1.3.2.1.6.5.1.5
SCA36	The stop operation shall set the started attribute to a value of FALSE.	BaseComponent	Controllable	3.1.3.2.1.6.5.2.3
SCA37	The stop operation shall raise the StopError exception if an error occurs while stopping the component.	BaseComponent	Controllable	3.1.3.2.1.6.5.2.5
<DELETED_4.1DRAFT> SCA38	A ResourceComponent shall realize the Resource interface.	ResourceComponent		3.1.3.2.2.1.4
<DELETED_4.1DRAFT> SCA39	A ResourceComponent shall fulfill the ComponentBase requirements.	ResourceComponent		3.1.3.2.2.1.4
SCA169	Each ApplicationComponent shall be accompanied by an SPD file per section 3.1.3.6.	ManageableApplicationComponent		3.1.3.2.2.1.4
SCA173	An ApplicationComponent shall be limited to using the mandatory OS services designated in Appendix B as specified in the SPD.	ApplicationComponent	AEP Compliant	3.1.3.2.2.1.4
SCA457	An ApplicationComponent shall be limited to using transfer mechanisms features specified in Appendix E for the specific platform technology implemented.	ApplicationComponent		3.1.3.2.2.1.4
SCA551	An ApplicationComponent shall fulfill the BaseComponent requirements.	ApplicationComponent		3.1.3.2.2.1.4
SCA168	Each executable ManageableApplicationComponent shall set its identifier attribute using the Component Identifier execute parameter.	ManageableApplicationComponent	Interrogable	3.1.3.2.2.2.3
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 user-defined execute properties in the component's SPD.	ManageableApplicationComponent		3.1.3.2.2.2.3
SCA456	Each executable ManageableApplicationComponent shall accept executable parameters as specified in section 3.1.3.4.1.6.5.1.3 (ExecutableInterface::execute).	ManageableApplicationComponent		3.1.3.2.2.2.3
SCA82	A ManageableApplicationComponent shall register via the ComponentRegistry::registerComponent operation when a COMPONENT_REGISTRY_IOR parameter is supplied.	ApplicationComponent	Component Registration	3.1.3.2.2.2.3
<DELETED_4.1DRAFT> SCA172	An ApplicationResourceComponent shall fulfill the ResourceComponent requirements.	ApplicationResourceComponent		3.1.3.2.2.2.4
SCA520	A ManageableApplicationComponent shall fulfill the ApplicationComponent requirements.	ManageableApplicationComponent		3.1.3.2.2.2.4
SCA166	A ManageableApplicationComponent shall perform file access through the FileSystem and File interfaces.	ManageableApplicationComponent		3.1.3.2.2.2.4
SCA167	All ManageableApplicationComponent processes shall have a handler registered for the AEP SIGQUIT signal.	ManageableApplicationComponent		3.1.3.2.2.2.4

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SCA550	A ManageableApplicationComponent shall realize the LifeCycle interface.	ManageableApplicationComponent		3.1.3.2.2.2.4
SCA175	An ApplicationControllerComponent shall fulfill the ManageableApplicationComponent requirements.	ApplicationControllerComponent		3.1.3.2.2.3.4
SCA176	An ApplicationControllerComponent shall realize the ControllableInterface interface.	ApplicationControllerComponent		3.1.3.2.2.3.4
SCA415	The ApplicationComponentFactoryComponent shall only deploy ApplicationComponents.	ApplicationComponentFactoryComponent		3.1.3.2.2.4.4
SCA521	An ApplicationComponentFactoryComponent shall fulfill the BaseFactoryComponent requirements.	ApplicationComponentFactoryComponent		3.1.3.2.2.4.4
SCA522	An ApplicationComponentFactoryComponent shall fulfill the ApplicationComponent requirements.	ApplicationComponentFactoryComponent		3.1.3.2.2.4.4
SCA155	An AssemblyComponent shall be accompanied by the appropriate Domain Profile files per section 3.1.3.6.	AssemblyComponent		3.1.3.2.2.5
SCA156	An AssemblyComponent shall have at least one ApplicationControllerComponent.	AssemblyComponent		3.1.3.2.2.5
<DELETED> SCA40	The readonly profile attribute shall return either the application's SAD filename or the SAD itself.	ApplicationManagerComponent	Deployment	3.1.3.3.1.1.4.1
SCA41	The readonly name attribute shall return the name of the created application.	ApplicationManagerComponent	Deployment	3.1.3.3.1.1.4.1
SCA42	The ApplicationManager::releaseObject operation shall release each application component by utilizing the LifeCycle::releaseObject operation.	ApplicationManagerComponent	Deployment, AppReleasable	3.1.3.3.1.1.5.1.3
SCA43	The ApplicationManager::releaseObject operation shall terminate the processes / tasks on allocated ExecutableDeviceComponents belonging to each application component.	ApplicationManagerComponent	Deployment, AppReleasable	3.1.3.3.1.1.5.1.3
SCA44	The ApplicationManager::releaseObject operation shall unload each application component instance from its allocated LoadableDeviceComponent.	ApplicationManagerComponent	Deployment, AppReleasable	3.1.3.3.1.1.5.1.3
SCA45	The ApplicationManager::releaseObject operation shall deallocate the DeviceComponent capacities that were allocated during application creation.	ApplicationManagerComponent	Deployment, AppReleasable	3.1.3.3.1.1.5.1.3
SCA46	The ApplicationManager::releaseObject operation shall release all object references to the components making up the application.	ApplicationManagerComponent	Deployment, AppReleasable	3.1.3.3.1.1.5.1.3
SCA47	The ApplicationManager::releaseObject operation shall disconnect ports (including an Event Service's event channel consumers and producers) that were previously connected based upon the application's associated SAD.	ApplicationManagerComponent	Deployment, AppReleasable	3.1.3.3.1.1.5.1.3
SCA49	The ApplicationManager::releaseObject operation shall, upon successful application release, write an ADMINISTRATIVE_EVENT log record.	ApplicationManagerComponent	Deployment, Log Producer, AppReleasable	3.1.3.3.1.1.5.1.3
SCA50	The ApplicationManager::releaseObject operation shall, upon unsuccessful application release, write a FAILURE_ALARM log record.	ApplicationManagerComponent	Deployment, Log Producer, AppReleasable	3.1.3.3.1.1.5.1.3
SCA51	The ApplicationManager::releaseObject operation shall send a ComponentChangeEventType event to the Outgoing Domain Management event channel upon successful release of an application.	ApplicationManagerComponent	Deployment, Event Producer, Event Channel, AppReleasable	3.1.3.3.1.1.5.1.3
<DELETED> SCA44*	The ApplicationManager::releaseObject operation shall unload each application component instance from its allocated device.	ApplicationManagerComponent	Application Backwards Compatible	3.1.3.3.1.1.5.1.6

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<DELETED> SCA45*	The ApplicationManager::releaseObject operation shall deallocate the device capacities that were allocated during application creation.	ApplicationManagerComponent	Application Backwards Compatible	3.1.3.3.1.1.5.1.6
SCA53	The getProvidesPorts operation shall return the object references that are associated with the input provides port names for the application external ports as identified in the associated SAD (ApplicationManagerComponent's profile).	ApplicationManagerComponent	Deployment	3.1.3.3.1.1.5.2.4
SCA55	The connectUsesPorts operation shall make a connection to the application components by input portConnections parameter, which identifies the application external uses ports to be connected to.	ApplicationManagerComponent	Deployment	3.1.3.3.1.1.5.3.3
SCA523	The connectUsesPorts operation shall disconnect any connections it formed if any connections in the input portConnections parameter cannot be successfully established.	ApplicationManagerComponent	Deployment	3.1.3.3.1.1.5.3.3
SCA58	The disconnectPorts operation shall break the connection(s) to the application external ports as identified by the connectionIds referenced in the input portDisconnections parameter.	ApplicationManagerComponent	Deployment	3.1.3.3.1.1.5.4.3
SCA59	The disconnectPorts operation shall release all external ports if the input portDisconnections parameter is a zero length sequence.	ApplicationManagerComponent	Deployment	3.1.3.3.1.1.5.4.3
<DELETED_4.1DRAFT> SCA143	The registerManager operation shall register the manager indicated by the input registeringManager parameter, if it does not already exist.	DomainManagerComponent	Management Registration	3.1.3.3.1.11.5.1.3
<DELETED_4.1DRAFT> SCA145	The registerManager operation shall raise the CF InvalidObjectReference exception when the input registeringManager contains a nil managerComponent componentObject object reference.	DomainManagerComponent	Management Registration	3.1.3.3.1.11.5.1.5
<DELETED_4.1DRAFT> SCA146	The registerManager operation shall raise the CF InvalidProfile exception when the registeringManager's profile file or any of the profile's referenced files do not exist.	DomainManagerComponent	Management Registration	3.1.3.3.1.11.5.1.5
<DELETED_4.1DRAFT> SCA147	The registerManager operation shall raise the RegisterError exception when registration is unsuccessful.	DomainManagerComponent	Management Registration	3.1.3.3.1.11.5.1.5
<DELETED_4.1DRAFT> SCA148	The unregisterManager operation shall unregister a manager component specified by the input identifier parameter.	DomainManagerComponent	Management Un-Registration	3.1.3.3.1.12.5.1.3
<DELETED_4.1DRAFT> SCA150	The unregisterManager operation shall raise the UnregisterError exception when an unregistration is unsuccessful.	DomainManagerComponent	Management Un-Registration	3.1.3.3.1.12.5.1.5
<DELETED> SCA61	The componentProcessIds attribute shall return the list of components' process IDs within the application for components that are executing on a device.	ApplicationManagerComponent	Deployment, Interrogable, AppDeploymentData	3.1.3.3.1.2.4.1
SCA64	The deployedComponents attribute shall return the list of BaseComponents that have been successfully deployed or a sequence length of zero if no BaseComponents have been deployed.	DeviceManagerComponent	Deployment, Interrogable	3.1.3.3.1.2.4.1
<DELETED> SCA62	The componentDevices attribute shall return a list of associations between a component and the DeviceComponents, which it uses, is loaded on or is executed on.	ApplicationManagerComponent	Deployment, Interrogable, AppDeploymentData	3.1.3.3.1.2.4.2
<DELETED> SCA63	The componentImplementations attribute shall return the list of associations between the components created for an application and their corresponding SPD implementation IDs.	ApplicationManagerComponent	Deployment, Interrogable, AppDeploymentData	3.1.3.3.1.2.4.3
SCA65	The readonly name attribute shall return the name of the application instantiated by an application factory.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.4.1
<DELETED> SCA67	The readonly softwareProfile attribute shall return the filename of the SAD or the SAD itself that is used to create the component.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.4.2

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SCA69	The create operation shall use the allocation property values contained in the input deploymentDependencies parameter over the application deploymentdependencies elements or components dependency allocation properties of application factory profile when they reference the same property.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.3
SCA70	The create operation shall pass the input deploymentDependencies parameter for nested assemblyinstantiation elements creation.	ApplicationFactoryComponent	Deployment, Nested Deployment	3.1.3.3.1.3.5.1.3
SCA74	The create operation shall deploy the ApplicationComponents as specified in the SAD.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.3
SCA75	The create operation shall use each component's SPD implementation code's stacksize and priority elements, when specified, for the execute options parameters.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.3
SCA84	The create operation shall, in order, initialize all ApplicationComponents, establish connections for those components, and finally configure ManageableApplicationComponent(s) as identified by the assemblycontroller element in the SAD.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.3
SCA91	The create operation shall use the property values contained in the input initConfiguration parameter over the property values of the SAD's assemblycontroller element when they reference the same property.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.3
SCA92	The create operation shall recognize application deployment channel preferences contained within an ADD file.	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.1.3.5.1.3
SCA93	The create operation shall recognize a deploymentDependencies property which is a CF::Properties type with an id of "DEPLOYMENT_CHANNEL" and a value that is a string sequence.	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.1.3.5.1.3
SCA94	The create operation shall recognize channel preferences contained within a "DEPLOYMENT_CHANNEL" deploymentDependency property contained within the deploymentDependencies parameter.	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.1.3.5.1.3
SCA95	The create operation shall attempt to allocate an application to the PDD file channel alternatives provided within a "DEPLOYMENT_CHANNEL" property or an ADD file in a sequential manner.	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.1.3.5.1.3
SCA96	The create operation shall utilize channel preferences expressed within a "DEPLOYMENT_CHANNEL" property rather than those contained within an ADD file if both exist.	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.1.3.5.1.3
SCA97	The create operation shall recognize a deployment option with a deployedname attribute value of "DEFAULT" which matches all application instance names that are not explicitly identified by a deployedname attribute value within the same descriptor file.	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.1.3.5.1.3
SCA575	The create operation shall use the affinity values contained in the input executionAffinityAssignments parameter prior to those specified by the ApplicationFactoryComponent profile's processcollocation attribute and/or coreaffinity element.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.3
SCA102	The create operation shall return the created ApplicationManagerComponent's CF::ComponentType for the created application when the application is successfully created.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.4
SCA576	The create operation's returned CF::ComponentType's specializedInfo shall contain the application's deployed components as identified by COMPONENTS_ID and CF::Components type value.	ApplicationFactoryComponent	AppDeploymentData	3.1.3.3.1.3.5.1.4
SCA103	The create operation shall raise the CreateApplicationRequestError exception when the input deviceAssignments parameter contains one or more invalid application component to device assignment(s).	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.5

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SCA104	The create operation shall raise the CreateApplicationError exception when the create request is valid but the application cannot be successfully instantiated due to internal processing error(s).	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.5
SCA105	The create operation shall raise the CreateApplicationError exception when the CF implementation provides enhanced deployment support via the use of a PDD file if the CF is not able to allocate the application to any of the provided channel alternatives .	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.1.3.5.1.5
SCA106	The create operation shall raise the CreateApplicationError exception when the CF implementation provides enhanced deployment support via the use of a PDD file and a domainfinder element "servicetype" connection to a ServiceComponent whose service type is provided by a service contained within a channel element servicelist cannot be established to a service identified within that list.	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.1.3.5.1.5
SCA107	The create operation shall raise the InvalidInitConfiguration exception when the input initConfiguration parameter contains properties that are unknown by a SAD's assemblycontroller element.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.5
SCA108	The InvalidInitConfiguration invalidProperties parameter shall identify the invalid properties.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.5
SCA570	The create operation shall raise the CreateApplicationError exception when an ApplicationManagerComponent already exists in the system with a CF::ComponentType identifier attribute value equal to that of the input name parameter.	ApplicationFactoryComponent	Deployment	3.1.3.3.1.3.5.1.5
SCA109	The readonly managers attribute shall return a list of DeviceManagerComponents that have registered with the DomainManagerComponent.	DomainManagerComponent		3.1.3.3.1.4.4.1
SCA110	The readonly applications attribute shall return the list of ApplicationManagerComponents that have been instantiated.	DomainManagerComponent		3.1.3.3.1.4.4.2
SCA435	The readonly applicationFactories attribute shall return a list with one ApplicationFactoryComponent per AssemblyComponent (SAD file and associated files) successfully installed (i.e. no exception raised).	DomainManagerComponent		3.1.3.3.1.4.4.3
SCA111	The readonly fileMgr attribute shall return the DomainManagerComponent's FileManagerComponent.	DomainManagerComponent		3.1.3.3.1.4.4.4
SCA112	The readonly domainManagerProfile attribute shall return the filename of the DomainManagerComponent's DMD or the DMD itself.	DomainManagerComponent		3.1.3.3.1.4.4.5
SCA113	The installApplication operation shall verify the existence of the AssemblyComponent's SAD file and all files upon which the SAD depends, within the DomainManagerComponent's file manager.	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.1.3
SCA114	The installApplication operation shall write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent's log, upon successful application installation.	DomainManagerComponent	Application Installable, Log Producer	3.1.3.3.1.5.5.1.3
SCA115	The installApplication operation shall, upon unsuccessful application installation, write a FAILURE_ALARM log record to a DomainManagerComponent's log.	DomainManagerComponent	Application Installable, Log Producer	3.1.3.3.1.5.5.1.3
SCA116	The installApplication operation shall send a ComponentChangeEventType event to the Outgoing Domain Management event channel, upon successful installation of an application.	DomainManagerComponent	Application Installable, Event Producer, Event Channel	3.1.3.3.1.5.5.1.3
SCA571	The installApplication operation shall return the installed ApplicationFactoryComponent's CF::ComponentType.	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.1.4
SCA117	The installApplication operation shall raise the ApplicationInstallationError exception when the installation of the application file(s) was not successfully completed.	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.1.5

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA118	The installApplication operation shall raise the CF::InvalidFileName exception when the input SAD file or any of the SAD's referenced filenames do not exist in the file system identified by the absolute path of the input profileFileName parameter.	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.1.5
SCA119	The installApplication operation shall log a FAILURE_ALARM log record to a DomainManagerComponent's Log with a message consisting of "installApplication::invalid file is xxx", where "xxx" is the input or referenced filename, when the CF InvalidFileName exception occurs.	DomainManagerComponent	Application Installable, Log Producer	3.1.3.3.1.5.5.1.5
SCA120	The installApplication operation shall raise the CF::InvalidProfile exception when any referenced property definition is missing.	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.1.5
SCA121	The installApplication operation shall write a FAILURE_ALARM log record to a DomainManagerComponent's log when the CF::InvalidProfile exception is raised.	DomainManagerComponent	Application Installable, Log Producer	3.1.3.3.1.5.5.1.5
SCA122	The installApplication operation shall raise the ApplicationAlreadyInstalled exception when the softwareassembly element name attribute of the referenced application is the same as a previously registered application.	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.1.5
SCA123	The uninstallApplication operation shall, upon successful uninstall of an application, write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent's log.	DomainManagerComponent	Application Installable, Log Producer	3.1.3.3.1.5.5.2.3
SCA124	The uninstallApplication operation shall, upon unsuccessful uninstall of an application, write a FAILURE_ALARM log record to a DomainManagerComponent's log.	DomainManagerComponent	Application Installable, Log Producer	3.1.3.3.1.5.5.2.3
SCA125	The uninstallApplication operation shall send a ComponentChangeEventType event to the Outgoing Domain Management event channel, upon the successful uninstallation of an application.	DomainManagerComponent	Application Installable, Event Producer, Event Channel	3.1.3.3.1.5.5.2.3
SCA436	The uninstallApplication operation shall make the ApplicationFactoryComponent unavailable from the DomainManagerComponent (i.e. its services no longer provided for the application).	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.2.3
SCA126	The uninstallApplication operation shall raise the InvalidIdentifier exception when the identifier parameter is invalid.	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.2.5
SCA127	The uninstallApplication operation shall raise the ApplicationUninstallationError exception when an internal error causes an unsuccessful uninstallation of the application.	DomainManagerComponent	Application Installable	3.1.3.3.1.5.5.2.5
<DELETED> SCA128	The readonly fileSys attribute shall return the FileSystemComponent associated with this DeviceManagerComponent.	DeviceManagerComponent	Interrogable	3.1.3.3.1.6.4.1
<DELETED> SCA129	The readonly deviceConfigurationProfile attribute shall return either the DeviceManagerComponent's DCD filename or the DCD itself.	DeviceManagerComponent	Interrogable	3.1.3.3.1.6.4.2
<DELETED> SCA130	The readonly registeredComponents attribute shall return a list of BasePlatformComponents that have registered or a sequence length of zero if no components have registered.	DeviceManagerComponent	Interrogable	3.1.3.3.1.6.4.3
SCA131	The registerComponent operation shall register the component indicated by the input registeringComponent parameter, if it does not already exist.	DeviceManagerComponent, DomainManagerComponent	Component Registration	3.1.3.3.1.6.5.1.3
SCA132	The registerComponent operation shall raise the CF::InvalidObjectReference when the input registeringComponent contains a nil componentObject object reference.	DeviceManagerComponent, DomainManagerComponent	Component Registration	3.1.3.3.1.6.5.1.5
SCA133	The registerComponent operation shall raise the RegisterError exception when registration is unsuccessful.	DeviceManagerComponent, DomainManagerComponent	Component Registration	3.1.3.3.1.6.5.1.5

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA134	The unregisterComponent operation shall unregister a registered component entry specified by the input identifier parameter.	DeviceManagerComponent, DomainManagerComponent	Component Un-Registration	3.1.3.3.1.7.5.1.3
SCA135	The unregisterComponent operation shall raise the UnregisterError exception when unregistration is unsuccessful.	DeviceManagerComponent, DomainManagerComponent	Component Un-Registration	3.1.3.3.1.7.5.1.5
SCA136	The registerWithEventChannel operation shall connect, with a connection named by the input registeringId parameter, the object contained within the input registeringObject parameter to an event channel specified by the input eventChannelName parameter.	DomainManagerComponent	Event Channel	3.1.3.3.1.8.5.1.3
SCA137	The registerWithEventChannel operation shall raise the CF::InvalidObjectReference exception when the input registeringObject parameter contains an invalid reference to a CosEventComm::PushConsumer interface.	DomainManagerComponent	Event Channel	3.1.3.3.1.8.5.1.5
SCA138	The registerWithEventChannel operation shall raise the InvalidEventChannelName exception when the input eventChannelName parameter contains an invalid event channel name.	DomainManagerComponent	Event Channel	3.1.3.3.1.8.5.1.5
SCA139	The registerWithEventChannel operation shall raise AlreadyConnected exception when the object contained within the input registeringObject parameter already contains a connection identified by the input registeringId parameter.	DomainManagerComponent	Event Channel	3.1.3.3.1.8.5.1.5
SCA140	The unregisterFromEventChannel operation shall disconnect a registered component from the event channel as identified by the input parameters.	DomainManagerComponent	Event Channel	3.1.3.3.1.8.5.2.3
SCA141	The unregisterFromEventChannel operation shall raise the InvalidEventChannelName exception when the input eventChannelName parameter can't be located as a named event channel within the domain.	DomainManagerComponent	Event Channel	3.1.3.3.1.8.5.2.5
SCA142	The unregisterFromEventChannel operation shall raise the NotConnected exception when the input unregisteringId parameter is not associated with the input eventChannelName parameter.	DomainManagerComponent	Event Channel	3.1.3.3.1.8.5.2.5
SCA151	The shutdown operation shall unregister the manager from the domain.	DeviceManagerComponent	Management Releasable	3.1.3.3.1.9.5.1.3
SCA152	The shutdown operation shall perform a releaseObject on all of the manager's registered components that support the LifeCycle interface.	DeviceManagerComponent	Management Releasable	3.1.3.3.1.9.5.1.3
SCA153	The shutdown operation shall terminate the execution of each component created as specified in the manager's profile after it has unregistered from the manager.	DeviceManagerComponent	Management Releasable	3.1.3.3.1.9.5.1.3
SCA437	The shutdown operation shall cause the manager to be unavailable (i.e. released from the operating environment and its process terminated on the OS), when all of the manager's registered components are unregistered and all created components are terminated.	DeviceManagerComponent	Management Releasable	3.1.3.3.1.9.5.1.3
SCA158	An ApplicationManagerComponent shall delegate the runTest, start, stop, configure, and query operations to the ApplicationControllerComponent(s) as identified by the AssemblyComponent's SAD assemblycontroller element (application controller).	ApplicationManagerComponent	Deployment	3.1.3.3.2.1.3
SCA159	The ApplicationManagerComponent shall propagate exceptions raised by the AssemblyComponent's ApplicationControllerComponent(s).	ApplicationManagerComponent	Deployment	3.1.3.3.2.1.3
SCA160	The ApplicationManagerComponent shall not delegate the initialize operation to its ApplicationComponentFactoryComponent(s), ManageableApplicationComponent(s) or ApplicationControllerComponent(s).	ApplicationManagerComponent	Deployment	3.1.3.3.2.1.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA161	The ApplicationManagerComponent shall delegate the runTest operation to all component(s) as identified by the AssemblyComponent's SAD assemblycontroller element (application controller) which have matching test IDs.	ApplicationManagerComponent	Deployment	3.1.3.3.2.1.3
SCA162	The ApplicationManagerComponent shall delegate configure and query operations to all ManageableApplicationComponent(s) as identified by the AssemblyComponent's SAD assemblycontroller element (application controller), which have matching property IDs.	ApplicationManagerComponent	Deployment	3.1.3.3.2.1.3
SCA163	The ApplicationManagerComponent shall raise the configure operation's InvalidConfiguration exception when the input configProperties parameter contains unknown properties.	ApplicationManagerComponent	Deployment, Nested Deployment	3.1.3.3.2.1.3
SCA543	The ApplicationManagerComponent shall raise the query operation's UnknownProperties exception when the input configProperties parameter contains unknown properties.	ApplicationManagerComponent	Deployment, Nested Deployment	3.1.3.3.2.1.3
SCA164	An ApplicationManagerComponent shall realize the ApplicationManager interface.	ApplicationManagerComponent	Deployment	3.1.3.3.2.1.4
SCA165	An ApplicationManagerComponent shall fulfill the BaseComponent requirements.	ApplicationManagerComponent	Deployment	3.1.3.3.2.1.4
<DELETED> SCA525	An ApplicationManagerComponent shall realize the ControllableInterface, ComponentIdentifier, PropertySet, TestableInterface, and PortAccessor interfaces.	ApplicationManagerComponent	Deployment	3.1.3.3.2.1.4
<DELETED> SCA553	An ApplicationManagerComponent shall realize the ApplicationDeploymentAttributes interface.	ApplicationManagerComponent	AppDeploymentData	3.1.3.3.2.1.4
SCA68	The create operation shall identify valid component-device associations for the application by matching the allocation properties of the application to those of each candidate DeviceComponent, for those ManageableApplicationComponent properties whose kindtype is "allocation" and whose action element is not "external".	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA71	The create operation shall allocate capacities to candidate DeviceComponents of the ApplicationComponent properties whose kindtype is "allocation" and whose action element is "external".	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA72	The create operation shall deallocate any capacity allocations on DeviceComponents that do not satisfy the ApplicationComponent's allocation requirements or that are not utilized due to an unsuccessful application creation.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA73	The create operation shall load application modules onto DeviceComponents that have been granted successful capacity allocations and satisfy the ApplicationComponent's allocation requirements.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA76	When the create operation deploys an ApplicationComponent via an ExecutableDeviceComponent, it shall include a Component Identifier, as defined in this section, in the parameters parameter of the ExecutableInterface::execute operation.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA77	When the create operation deploys an ApplicationComponent via an ApplicationComponentFactoryComponent, it shall provide the Component Identifier parameter as defined in this section.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA81	The create operation shall pass the values of the execparam properties of the componentinstantiation componentproperties element contained in the SAD, as parameters to the execute operation when an ApplicationComponent is deployed via an ExecutableDeviceComponent.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA83	The create operation, when creating an ApplicationComponent from an ApplicationComponentFactoryComponent, shall pass the componentinstantiation componentfactoryref element properties whose kindtype element is "factoryparam" as the qualifiers parameter to the referenced ApplicationComponentFactoryComponent's createComponent operation.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA85	The create operation shall establish connections for an AssemblyComponent which are specified in the SAD connections element.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA86	The create operation shall use the SAD connectinterface element id attribute as part of the unique identifier for a specific connection when provided.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA87	The create operation shall create a unique identifier and use it to designate a connection when no SAD connectinterface element id attribute is specified.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA88	For connections to an event channel, the create operation shall connect a CosEventComm::PushConsumer or CosEventComm::PushSupplier object to the event channel as specified in the SAD's domainfinder element.	ApplicationFactoryComponent	Deployment, Event Channel	3.1.3.3.2.2.3
SCA89	The create operation shall create the specified event channel if the event channel does not exist.	ApplicationFactoryComponent	Deployment, Event Channel	3.1.3.3.2.2.3
SCA90	The create operation shall configure the ManageableApplicationComponent(s) indicated by the assemblycontroller element in the SAD that have properties with a kindtype of "configure" and a mode of "readwrite" or "writeonly" along with the union of properties contained in the input initConfiguration parameter of the create operation.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA98	For domainfinder element "servicetype" connections to a ServiceComponent whose service type is provided by a service contained within a channel element servicelist, the create operation shall only attempt to establish connections to services within the list.	ApplicationFactoryComponent	Deployment, Channel Extension	3.1.3.3.2.2.3
SCA99	The create operation shall, upon successful application creation, write an ADMINISTRATIVE_EVENT log record.	ApplicationFactoryComponent	Deployment, Log Producer	3.1.3.3.2.2.3
SCA100	The create operation shall, upon unsuccessful application creation, write a FAILURE_ALARM log record.	ApplicationFactoryComponent	Deployment, Log Producer	3.1.3.3.2.2.3
SCA101	The create operation shall send a ComponentChangeEventType event to the Outgoing Domain Management event channel upon successful creation of an application.	ApplicationFactoryComponent	Deployment, Event Producer, Event Channel	3.1.3.3.2.2.3
<DELETED> SCA524	The create operation shall add the ManageableApplicationComponent(s) launched by an ApplicationComponentFactoryComponent to the registeredComponents attribute of the ApplicationFactoryComponent.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.3
SCA542	When the create operation deploys an ApplicationComponent via an ExecutableDeviceComponent, it shall include a ComponentRegistry IOR, as defined in this section, in the parameters parameter of the ExecutableInterface::execute operation when the SAD componentinstantiation stringifiedobjectref element is null value.	ApplicationFactoryComponent	Deployment, Component Registration	3.1.3.3.2.2.3
SCA174	An ApplicationFactoryComponent shall realize the ApplicationFactory interface.	ApplicationFactoryComponent	Deployment	3.1.3.3.2.2.4

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA144	The registerComponent operation shall register all of the components identified within the registeringComponent's specializedInfo field when the registeringComponent's type field is DEVICE_MANAGER_COMPONENT.	DomainManagerComponent	Management Registration	3.1.3.3.2.3.3
SCA149	The unregisterComponent operation shall unregister all of the associated (i.e. registered) components from the component being unregistered when its type field is a DEVICE_MANAGER_COMPONENT.	DomainManagerComponent	Management Un-Registration	3.1.3.3.2.3.3
SCA177	The DomainManagerComponent identifier shall be identical to the domainmanagerconfiguration element id attribute of the DMD file.	DomainManagerComponent		3.1.3.3.2.3.3
SCA178	A DomainManagerComponent shall define its utilized ServiceComponents in the DMD.	DomainManagerComponent	Log Producer	3.1.3.3.2.3.3
SCA179	A DomainManagerComponent shall write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent's log, when the managers attribute is obtained by a client.	DomainManagerComponent	Log Producer	3.1.3.3.2.3.3
SCA180	A DomainManagerComponent shall write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent's log, when the applications attribute is obtained by a client.	DomainManagerComponent	Log Producer	3.1.3.3.2.3.3
SCA181	A DomainManagerComponent shall write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent's log, when the applicationFactories attribute is obtained by a client.	DomainManagerComponent	Log Producer	3.1.3.3.2.3.3
SCA182	A DomainManagerComponent shall write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent's log, when the fileMgr attribute is obtained by a client.	DomainManagerComponent	Log Producer	3.1.3.3.2.3.3
SCA184	A DomainManagerComponent shall create its own FileManagerComponent that consists of all registered DeviceManagerComponent's FileSystemComponents.	DomainManagerComponent		3.1.3.3.2.3.3
SCA185	Upon system startup, a DomainManagerComponent shall restore ApplicationFactoryComponents for AssemblyComponents that were previously installed by the DomainManager::installApplication operation.	DomainManagerComponent	Application Installable	3.1.3.3.2.3.3
SCA186	A DomainManagerComponent shall add the restored application factories to the DomainManager interface applicationFactories attribute.	DomainManagerComponent	Application Installable	3.1.3.3.2.3.3
SCA187	A DomainManagerComponent shall create the Incoming Domain Management and Outgoing Domain Management event channels.	DomainManagerComponent	Event Channel	3.1.3.3.2.3.3
SCA189	The registerComponent operation shall write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent log upon successful component registration.	DomainManagerComponent	Component Registration, Log Producer	3.1.3.3.2.3.3
SCA191	The registerComponent operation shall write a FAILURE_ALARM log record to a DomainManagerComponent log upon unsuccessful component registration.	DomainManagerComponent	Component Registration, Log Producer	3.1.3.3.2.3.3
SCA193	The registerComponent operation shall send a ComponentChangeEventType event to the Outgoing Domain Management event channel, upon successful registration of a component.	DomainManagerComponent	Component Registration, Event Channel, Event Producer	3.1.3.3.2.3.3
SCA194	The registerComponent operation shall establish any pending connections from the registeringComponent.	DomainManagerComponent	Component Registration	3.1.3.3.2.3.3
SCA195	The unregisterComponent operation shall, upon the successful unregistration of a component, write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent's log.	DomainManagerComponent	Component Un-Registration, Log Producer	3.1.3.3.2.3.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA196	The unregisterComponent operation shall send a ComponentChangeEventType event to the Outgoing Domain Management event channel, upon successful unregistration of a component.	DomainManagerComponent	Component Un-Registration, Event Producer, Event Channel	3.1.3.3.2.3.3
SCA197	The unregisterComponent operation shall, upon unsuccessful unregistration of a component, write a FAILURE_ALARM log record to a DomainManagerComponent's log.	DomainManagerComponent	Component Un-Registration, Log Producer	3.1.3.3.2.3.3
SCA198	The unregisterComponent operation shall disconnect any connections (including those made to the Event Service event channels) to the unregistering component indicated by the input identifier parameter.	DomainManagerComponent	Component Un-Registration	3.1.3.3.2.3.3
SCA199	Connections broken as a result of this unregisterComponent operation shall be considered as pending for future connections when the component to which the component was connected still exists.	DomainManagerComponent	Component Un-Registration	3.1.3.3.2.3.3
SCA201	The registerComponent operation shall establish any connections for the DeviceManagerComponent indicated by the input registeringComponent parameter, which are specified in the connections element of the DeviceManagerComponent's DCD file, that are possible with the current set of registered components.	DomainManagerComponent	Management Registration	3.1.3.3.2.3.3
SCA202	For connections established for an Event Service's event channel, the registerComponent operation shall connect a CosEventComm::PushConsumer or CosEventComm::PushSupplier object to the event channel as specified in the DCD's domainfinder element.	DomainManagerComponent	Management Registration, Event Channel	3.1.3.3.2.3.3
SCA203	If the event channel does not exist, the registerComponent operation shall create the event channel.	DomainManagerComponent	Management Registration, Event Channel	3.1.3.3.2.3.3
SCA204	The registerComponent operation shall mount the DeviceManagerComponent's FileSystemComponent to the DomainManagerComponent's FileManagerComponent.	DomainManagerComponent	Management Registration	3.1.3.3.2.3.3
SCA205	The mounted FileSystem name shall have the format, "/DomainName/HostName", where DomainName is the name of the domain and HostName is the identifier of the input registeringManager.	DomainManagerComponent	Management Registration	3.1.3.3.2.3.3
SCA208	The unregisterComponent operation shall disconnect the established connections (including those made to the Event Service event channels) of the unregistering component as well as for its registered components that have not already been disconnected by the unregistering component when the unregisteringComponent's type field is DEVICE_MANAGER_COMPONENT.	DomainManagerComponent	Management Un-Registration	3.1.3.3.2.3.3
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.	DomainManagerComponent	Management Un-Registration	3.1.3.3.2.3.3
SCA214	A DomainManagerComponent shall realize the DomainManager interface.	DomainManagerComponent		3.1.3.3.2.3.4
SCA532	A DomainManagerComponent shall fulfill the BaseComponent requirements.	DomainManagerComponent		3.1.3.3.2.3.4
SCA559	A DomainManagerComponent shall realize the DomainInstallation interface.	DomainManagerComponent	Application Installable	3.1.3.3.2.3.4
SCA560	A DomainManagerComponent shall realize EventChannelRegistry interface.	DomainManagerComponent	Event Channel	3.1.3.3.2.3.4

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
<DELETED_4.1DRAFT> SCA206	The registerManager operation shall, upon unsuccessful DeviceManagerComponent registration, write a FAILURE_ALARM log record to a DomainManagerComponent's Log.	DomainManagerComponent	Management Registration, Log Producer	3.1.3.3.2.4.3
<DELETED_4.1DRAFT> SCA207	The registerManager operation shall send a DomainManagementObjectAddedEventType event to the Outgoing Domain Management event channel upon successful registration of a device manager.	DomainManagerComponent	Management Registration, Event Producer, Event Channel	3.1.3.3.2.4.3
<DELETED_4.1DRAFT> SCA209	Connections broken as a result of the unregisterManager operation shall be considered as pending for future connections.	DomainManagerComponent	Management Un-Registration	3.1.3.3.2.4.3
<DELETED_4.1DRAFT> SCA211	The unregisterManager operation shall, upon the successful unregistration of a DeviceManagerComponent, write an ADMINISTRATIVE_EVENT log record to a DomainManagerComponent's log.	DomainManagerComponent	Management Un-Registration, Log Producer	3.1.3.3.2.4.3
<DELETED_4.1DRAFT> SCA212	The unregisterManager operation shall, upon unsuccessful unregistration of a DeviceManagerComponent, write a FAILURE_ALARM log record to a DomainManagerComponent's log.	DomainManagerComponent	Management Un-Registration, Log Producer	3.1.3.3.2.4.3
<DELETED_4.1DRAFT> SCA213	The unregisterManager operation shall send a DomainManagementObjectRemovedEventType event to the Outgoing Domain Management event channel, upon successful unregistration of a device manager.	DomainManagerComponent	Management Un-Registration, Event Producer, Event Channel	3.1.3.3.2.4.3
SCA215	A DeviceManagerComponent shall be accompanied by the appropriate Domain Profile files per section 3.1.3.6.	DeviceManagerComponent		3.1.3.3.2.4.3
SCA216	A DeviceManagerComponent upon start up shall register with a DomainManagerComponent via the ComponentRegistry interface.	DeviceManagerComponent	Management Registration	3.1.3.3.2.4.3
SCA217	A DeviceManagerComponent shall create FileSystemComponents implementing the FileSystem interface for each OS file system.	DeviceManagerComponent		3.1.3.3.2.4.3
SCA218	If multiple FileSystemComponents are to be created, the DeviceManagerComponent shall mount created FileSystemComponents to a FileManagerComponent (widened to a FileSystemComponent through the CF::ManagerInfo's FileSys field).	DeviceManagerComponent		3.1.3.3.2.4.3
<DEMOTED> SCA219	Upon successful BasePlatformComponent deployment, the DeviceManagerComponent adds the deployed component to its	DeviceManagerComponent	Component Registration	3.1.3.3.2.4.3
<DELETED> SCA221	The DeviceManagerComponent shall add the DeviceComponent and ServiceComponent components launched by a	DeviceManagerComponent	PlatformComponentFactoryDeployment	3.1.3.3.2.4.3
SCA224	A DeviceManagerComponent shall use the stacksize and priority elements as specified in the componentinstantiation element's SPD implementation code for	DeviceManagerComponent		3.1.3.3.2.4.3
SCA226	The DeviceManagerComponent shall use the stacksize and priority elements as specified in the componentinstantiation element's SPD implementation code as qualifiers parameter for the ComponentFactory::createComponent operation.	DeviceManagerComponent	PlatformComponentFactoryDeployment	3.1.3.3.2.4.3
SCA227	The DeviceManagerComponent shall initialize deployed components that are	DeviceManagerComponent	Component Registration	3.1.3.3.2.4.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA228	After component initialization, the DeviceManagerComponent shall configure deployed components that are instantiated by the DeviceManagerComponent, provided they realize the PropertySet interface.	DeviceManagerComponent	Component Registration	3.1.3.3.2.4.3
SCA229	The DeviceManagerComponent shall configure a DCD's componentinstantiation element provided the componentinstantiation element has configure readwrite	DeviceManagerComponent	Component Registration	3.1.3.3.2.4.3
SCA230	The DeviceManagerComponent shall register a registering component with the DomainManagerComponent when the DeviceManagerComponent has previously registered with the DomainManagerComponent.	DeviceManagerComponent	Component Registration, Management Registration	3.1.3.3.2.4.3
SCA231	The registerComponent operation shall, upon unsuccessful component registration, write a FAILURE_ALARM log record to a domain manager's log.	DeviceManagerComponent	Component Registration, Log Producer	3.1.3.3.2.4.3
SCA232	The unregisterComponent operation shall, upon unsuccessful unregistration of a component, write a FAILURE_ALARM log record to a DomainManagerComponent's log.	DeviceManagerComponent	Component Un-Registration, Log Producer	3.1.3.3.2.4.3
SCA233	The unregisterComponent operation shall unregister the registered component specified by the input identifier parameter from the DomainManagerComponent if it is registered with the DeviceManagerComponent and the DeviceManagerComponent is not shutting down.	DeviceManagerComponent	Component Un-Registration	3.1.3.3.2.4.3
SCA438	When a DeviceComponent is deployed via PlatformComponentFactoryComponent, the DeviceManagerComponent shall supply the following properties as the qualifiers parameter to the referenced ComponentFactory::createComponent operation: 1.Device Identifier - The ID is "DEVICE_ID" and the value is a string that corresponds to the DCD componentinstantiation id attribute; 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); 3.The componentinstantiation componentfactoryref element properties whose kindtype element is "factoryparam".	DeviceManagerComponent	PlatformComponentFactoryDeployment	3.1.3.3.2.4.3
SCA439	When a ServiceComponent is deployed via a PlatformComponentFactoryComponent, the DeviceManagerComponent shall supply the following properties as the qualifiers parameter to the referenced PlatformComponentFactoryComponent's createComponent operation: 1.Service Name when the DCD componentinstantiation usagename element is non-null value - The ID is "SERVICE_NAME" and the value is a string in an "identifier\type" format that corresponds to the DCD componentinstantiation usagename element; 2.The componentinstantiation componentfactoryref element properties whose kindtype element is "factoryparam".	DeviceManagerComponent	PlatformComponentFactoryDeployment	3.1.3.3.2.4.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA442	When a DeviceComponent is deployed by the DeviceManagerComponent, the DeviceManagerComponent shall supply execute operation parameters for a device consisting of: 1.Component Registry IOR when the DCD componentinstantiation stringifiedobjectref element is null value - The ID is "COMPONENT_REGISTRY_IOR" and the value is a string that is the ComponentRegistry stringified IOR; 2.Device Identifier - The ID is "DEVICE_ID" and the value is a string that corresponds to the DCD componentinstantiation id attribute; 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); 4.The execute ("execparam") properties as specified in the DCD for a componentinstantiation element (a DeviceManagerComponent passes execparam parameters' IDs and values as string values).	DeviceManagerComponent	Deployment	3.1.3.3.2.4.3
SCA449	If a PlatformComponentFactoryComponent is deployed by the DeviceManagerComponent, a DeviceManagerComponent shall supply execute operation parameters consisting of: 1.Component Registry IOR - The ID is "COMPONENT_REGISTRY_IOR" and the value is a string that is the ComponentRegistry stringified IOR when the DCD componentinstantiation stringifiedobjectref element is null value; 2.Component Identifier - The ID is "COMPONENT_IDENTIFIER" and the value is a string that corresponds to the DCD componentinstantiation id attribute; 3.The execute ("execparam") properties as specified in the DCD for a componentinstantiation element (a DeviceManagerComponent passes execparam parameters' IDs and values as string values).	DeviceManagerComponent	Deployment, PlatformComponentFactoryDeployment	3.1.3.3.2.4.3
<DEMOTED> SCA450	A DeviceManagerComponent uses the information in its DCD for determining: 1. Services to be deployed for this DeviceManagerComponent (for example, log(s)); 2. DeviceComponents to be created for this device manager (when the DCD deployondevice element is not specified then the DCD componentinstantiation element is deployed on the same hardware device as the device manager); 3. DeviceComponents to be deployed on (executing on) another DeviceComponent; 4. DeviceComponents to be aggregated to another DeviceComponent; 5. Mount point names for file systems; 6. The DeviceManagerComponent's identifier attribute value which is the DCD's id attribute value; 7. DomainManagerComponent's ComponentRegistry references; 8. Values for its properties.	DeviceManagerComponent	Deployment	3.1.3.3.2.4.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA538	If a ServiceComponent is deployed by the DeviceManagerComponent, a DeviceManagerComponent shall supply execute operation parameters consisting of: 1.Component Registry IOR - The ID is "COMPONENT_REGISTRY_IOR" and the value is a string that is the ComponentRegistry stringified IOR when the DCD componentinstantiation stringifiedobjectref element is null value; 2.Service Name when the DCD componentinstantiation usagename element is non-null value - The ID is "SERVICE_NAME" and the value is a string in an "identifier\type" format that corresponds to the DCD componentinstantiation usagename element; 3.The execute ("execparam") properties as specified in the DCD for a componentinstantiation element (a DeviceManagerComponent passes execparam parameters' IDs and values as string values).	DeviceManagerComponent	Deployment	3.1.3.3.2.4.3
SCA572	The DeviceManagerComponent shall assign a CF::ComponentType's specializedInfo allocation properties with an id of ALLOCATION_PROPS_ID and a value of type CF::AllocationProperties when no CF::AllocationProperties are supplied by the deployed BasePlatformComponent.	DeviceManagerComponent		3.1.3.3.2.4.3
SCA573	The DeviceManagerComponent shall unregister the PlatformComponentFactoryComponent's BasePlatformComponents when a PlatformComponentFactoryComponent unregisters with the DeviceManagerComponent.	DeviceManagerComponent	Component Un-Registration	3.1.3.3.2.4.3
SCA577	The registering DeviceManagerComponent CF::ComponentType's specializedInfo field shall contain a CF::ManagerInfo structure with an id of MANAGER_INFO_ID and a value of type CF::ManagerInfo that holds the BasePlatformComponents that have been deployed by or registered with a DeviceManagerComponent.	DeviceManagerComponent	DeviceMgrDeploymentData	3.1.3.3.2.4.3
SCA234	A DeviceManagerComponent shall realize the ComponentIdentifier interface.	DeviceManagerComponent		3.1.3.3.2.4.4
SCA235	A DeviceManagerComponent shall fulfill the BaseComponent requirements.	DeviceManagerComponent		3.1.3.3.2.4.4
SCA236	Each mounted file system name shall be unique within a DeviceManagerComponent.	DeviceManagerComponent		3.1.3.3.2.4.4
SCA561	A DeviceManagerComponent shall realize the DeploymentAttributes interface.	DeviceManagerComponent	Interrogable	3.1.3.3.2.4.4
SCA562	A DeviceManagerComponent shall realize the ReleasableManager interface.	DeviceManagerComponent	Management Releasable	3.1.3.3.2.4.4
SCA243	The adminState attribute shall return the device's admin state value.	DeviceComponent	Manageable	3.1.3.4.1.1.4.1
SCA244	The adminState attribute shall only allow the setting of LOCKED and UNLOCKED values, where setting LOCKED is only effective when the adminState attribute value is UNLOCKED, and setting UNLOCKED is only effective when the adminState attribute value is LOCKED or SHUTTING_DOWN.	DeviceComponent	Manageable	3.1.3.4.1.1.4.1
SCA248	The readonly usageState attribute shall return the device's usage state (IDLE, ACTIVE, or BUSY).	DeviceComponent	Allocatable	3.1.3.4.1.2.4.1
SCA250	The allocateCapacity operation shall reduce the current capacities of the device based upon the input capacities parameter, when usageState attribute is not BUSY.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.1.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA251	The allocateCapacity operation shall set the device's usageState attribute to BUSY, when the device determines that it is not possible to allocate any further capacity.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.1.3
SCA252	The allocateCapacity operation shall set the usageState attribute to ACTIVE, when capacity is being used and any capacity is still available for allocation.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.1.3
SCA253	The allocateCapacity operation shall only accept properties for the input capacities parameter which are simple properties whose kindtype is "allocation" and whose action element is "external" contained in the component's SPD.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.1.3
SCA254	The allocateCapacity operation shall return TRUE, if the capacities have been allocated, or FALSE, if not allocated.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.1.4
SCA255	The allocateCapacity operation shall raise the InvalidCapacity exception, when the input capacities parameter contains invalid properties or when attributes of those CF::Properties contain an unknown id or a value of the wrong data type.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.1.5
SCA257	The deallocateCapacity operation shall increment the current capacities of the device based upon the input capacities parameter.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.2.3
SCA258	The deallocateCapacity operation shall set the usageState attribute to ACTIVE when, after adjusting capacities, any of the device's capacities are still being used.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.2.3
SCA259	The deallocateCapacity operation shall set the usageState attribute to IDLE when, after adjusting capacities, none of the device's capacities are still being used.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.2.3
SCA261	The deallocateCapacity operation shall raise the InvalidCapacity exception, when the capacity ID is invalid or the capacity value is the wrong type.	DeviceComponent	Allocatable	3.1.3.4.1.2.5.2.5
SCA263	The readonly operationalState attribute shall return the device's operational state (ENABLED or DISABLED).	DeviceComponent	Interrogable	3.1.3.4.1.3.4.1
<DELETED> SCA265	The readonly softwareProfile attribute shall return either the device's SPD filename or the SPD itself.	DeviceComponent	Interrogable	3.1.3.4.1.3.4.2
SCA266	The readonly compositeDevice attribute shall return the object reference of the AggregateDeviceComponent.	ExecutableDeviceComponent, LoadableDeviceComponent, DeviceComponent	Aggregatable	3.1.3.4.1.4.4.1
SCA267	The readonly compositeDevice attribute shall return a nil object reference when this DeviceComponent is not a parent.	ExecutableDeviceComponent, LoadableDeviceComponent, DeviceComponent	Aggregatable	3.1.3.4.1.4.4.1
SCA268	The load operation shall load the file identified by the input fileName parameter on the DeviceComponent based upon the input loadKind parameter.	LoadableDeviceComponent	Loadable	3.1.3.4.1.5.5.1.3
SCA269	Multiple loads of the same file as indicated by the input fileName parameter shall not result in an exception.	LoadableDeviceComponent	Loadable	3.1.3.4.1.5.5.1.3
SCA271	The load operation shall raise the InvalidLoadKind exception when the input loadKind parameter is not supported.	LoadableDeviceComponent	Loadable	3.1.3.4.1.5.5.1.5
SCA272	The load operation shall raise the CF::InvalidFileName exception when the file designated by the input fileName parameter cannot be found.	LoadableDeviceComponent	Loadable	3.1.3.4.1.5.5.1.5
SCA273	The load operation shall raise the LoadFail exception when an attempt to load the device is unsuccessful.	LoadableDeviceComponent	Loadable	3.1.3.4.1.5.5.1.5
SCA274	The unload operation shall unload the file identified by the input fileName parameter from the loadable device when the number of unload requests matches the number of load requests for the indicated file.	LoadableDeviceComponent	Loadable	3.1.3.4.1.5.5.2.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA276	The unload operation shall raise the CF::InvalidFileName exception when the file designated by the input fileName parameter cannot be found.	LoadableDeviceComponent	Loadable	3.1.3.4.1.5.5.2.5
<DEMOTED> SCA277	The value of a stack size is an unsigned long.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.3.6
<DEMOTED> SCA278	The value of a priority is an unsigned long.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.3.7
SCA279	The execute operation shall execute the file identified by the input filename parameter using the input parameters and options parameters.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.3
SCA280	The execute operation shall map the input parameters (id/value string pairs) parameter as an argument to the operating system "execute/thread" function.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.3
<DELETED> SCA281	The execute operation shall use these options, when specified, to set the operating system's process/thread stack size and priority, for the executable image of the given input name parameter.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.3
SCA282	The execute operation shall return a unique ExecutionID_Type for the process/thread that it created.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.4
SCA284	The execute operation shall raise the InvalidFunction exception when the function indicated by the input entry point options parameter is not executed because it does not exist on the device.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.5
SCA285	The execute operation shall raise the CF::InvalidFileName exception when the file name indicated by the input filename parameter does not exist for the device to be executed.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.5
SCA286	The execute operation shall raise the InvalidParameters exception when the input parameter ID or value attributes are not valid strings.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.5
SCA287	The execute operation shall raise the InvalidOptions exception when the input options parameter does not comply with sections 3.1.3.4.1.6.3.6 STACK_SIZE_ID,3.1.3.4.1.6.3.7 PRIORITY_ID, 3.1.3.4.1.6.3.9 PROCESS_COLLOCATION_ID, 3.1.3.4.1.6.3.10, ENTRY_POINT_ID, and 3.1.3.4.1.6.3.11 CORE_AFFINITY_ID.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.5
SCA288	The execute operation shall raise the ExecuteFail exception when the operating system "execute/thread" function is not successful.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.1.5
SCA289	The terminate operation shall terminate the execution of the process/thread designated by the executionId input parameter on the device.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.2.3
SCA291	The terminate operation shall raise the InvalidProcess exception when the executionId does not exist for the device.	ExecutableDeviceComponent	Executable	3.1.3.4.1.6.5.2.5
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.	AggregateDeviceComponent, ComponentBaseDevice	Aggregatable	3.1.3.4.1.7.4.1
SCA293	The addDevice operation shall add the input associatedDevice parameter to the AggregateDevice's devices attribute when the associatedDevice associated with the input identifier parameter does not exist in the devices attribute.	AggregateDeviceComponent, DeviceComponent	Aggregatable	3.1.3.4.1.7.5.1.3
SCA295	The addDevice operation shall raise the CF::InvalidObjectReference when the input associatedDevice parameter is a nil object reference.	AggregateDeviceComponent, DeviceComponent	Aggregatable	3.1.3.4.1.7.5.1.5
<DELETED_4.1DRAFT> SCA531	The addDevice operation shall raise the CF InvalidObjectReference if the component represented within the input associatedDevice parameter does not realize the Device, LoadableDevice or ExecutableInterface interface.	AggregateDeviceComponent, ComponentBaseDevice	Aggregatable	3.1.3.4.1.7.5.1.5

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA296	The removeDevice operation shall remove the device that corresponds to the input identifier parameter from the AggregateDevice's devices attribute.	AggregateDeviceComponent, DeviceComponent	Aggregatable	3.1.3.4.1.7.5.2.3
SCA297	The removeDevice operation shall raise the CF::InvalidObjectReference when the device that corresponds to the input identifier parameter is a nil object reference or does not exist in the AggregateDevice devices attribute.	AggregateDeviceComponent, DeviceComponent	Aggregatable	3.1.3.4.1.7.5.2.5
SCA299	The values associated with the parameters (COMPOSITE_DEVICE_IOR, and DEVICE_ID) as described in 3.1.3.3.2.4.3 shall be used to set the DeviceComponent's compositeDevice, and identifier attributes, respectively.	DeviceComponent	Interrogable	3.1.3.4.2.1.3
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.	DeviceComponent	Aggregatable	3.1.3.4.2.1.3
SCA241	The releaseObject operation shall unregister its device from its DeviceManagerComponent.	DeviceComponent	Releasable, Component Un-Registration	3.1.3.4.2.1.3.1
SCA237	The releaseObject operation shall assign the LOCKED state to the adminState attribute, when the adminState attribute is UNLOCKED.	DeviceComponent	Releasable, Manageable	3.1.3.4.2.1.3.1
SCA238	The releaseObject operation shall call the releaseObject operation on all of the DeviceComponents contained within its referenced AggregateDeviceComponent when the DeviceComponent is a parent device.	DeviceComponent	Releasable, Aggregatable	3.1.3.4.2.1.3.1
SCA239	The releaseObject operation shall cause the removal of a DeviceComponent from the referenced AggregateDeviceComponent of its parent when this DeviceComponent is a child device.	DeviceComponent	Releasable, Aggregatable	3.1.3.4.2.1.3.1
SCA240	The releaseObject operation shall cause the device to be unavailable and released from the operating environment when the adminState attribute transitions to LOCKED.	DeviceComponent	Releasable, Manageable	3.1.3.4.2.1.3.1
SCA245	The adminState attribute, upon being commanded to be LOCKED, shall set the adminState to LOCKED for its entire aggregation of DeviceComponents (if it has any).	DeviceComponent	Manageable	3.1.3.4.2.1.3.1
SCA247	The DeviceComponent shall send a StateChangeEventType event to the Incoming Domain Management event channel, whenever the adminState attribute changes.	DeviceComponent	Manageable, Event Producer	3.1.3.4.2.1.3.1
SCA249	The DeviceComponent shall send a StateChangeEventType event to the Incoming Domain Management event channel, whenever the usageState attribute changes.	DeviceComponent	Allocatable, Event Producer	3.1.3.4.2.1.3.1
SCA256	The allocateCapacity operation shall raise the CF::InvalidState exception when the DeviceComponent's adminState is not UNLOCKED.	DeviceComponent	Allocatable, Manageable	3.1.3.4.2.1.3.1
SCA260	The deallocateCapacity operation shall set the adminState attribute to LOCKED as specified in this section.	DeviceComponent	Allocatable, Manageable	3.1.3.4.2.1.3.1
SCA262	The deallocateCapacity operation shall raise the CF::InvalidState exception, when the DeviceComponent's adminState is LOCKED.	DeviceComponent	Allocatable, Manageable	3.1.3.4.2.1.3.1
SCA264	The DeviceComponent shall send a StateChangeEventType event to the Incoming Domain Management event channel, whenever the operationalState attribute changes.	DeviceComponent	Interrogable, Event Producer	3.1.3.4.2.1.3.1
SCA511	The allocateCapacity operation shall raise the CF::InvalidState exception when the DeviceComponent's operationalState is DISABLED.	DeviceComponent	Interrogable, Allocatable	3.1.3.4.2.1.3.1
SCA516	The deallocateCapacity operation shall raise the CF::InvalidState exception, when the DeviceComponent's operationalState is DISABLED.	DeviceComponent	Allocatable, Interrogable	3.1.3.4.2.1.3.1

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
<DELETED_4.1DRAFT> SCA303	A ComponentBaseDevice shall fulfill the ComponentBase requirements.	ComponentBaseDevice		3.1.3.4.2.1.4
SCA526	A DeviceComponent shall fulfill the BasePlatformComponent requirements.	DeviceComponent		3.1.3.4.2.1.4
SCA534	A DeviceComponent shall realize the DeviceAttributes interface.	DeviceComponent	Interrogable	3.1.3.4.2.1.4
SCA535	A DeviceComponent shall realize the AdministratableInterface interface.	DeviceComponent	Manageable	3.1.3.4.2.1.4
SCA536	A DeviceComponent shall realize the CapacityManagement interface.	DeviceComponent	Allocatable	3.1.3.4.2.1.4
SCA539	A DeviceComponent shall realize the AggregateDeviceAttributes interface.	DeviceComponent	Aggregatable	3.1.3.4.2.1.4
SCA563	A DeviceComponent shall realize the LifeCycle interface.	DeviceComponent		3.1.3.4.2.1.4
SCA306	The load operation shall support the load types as stated in the LoadableDeviceComponent's profile supported_load_types allocation property.	LoadableDeviceComponent	Loadable	3.1.3.4.2.2.3
SCA307	When a LoadType is not defined for the LoadableDeviceComponent, the load operation shall support all SPD code element types.	LoadableDeviceComponent	Loadable	3.1.3.4.2.2.3
SCA270	The load operation shall raise the CF::InvalidState exception if upon entry the LoadableDeviceComponent's adminState attribute is either LOCKED or SHUTTING_DOWN.	LoadableDeviceComponent	Loadable, Manageable	3.1.3.4.2.2.3.1
SCA275	The unload operation shall raise the CF::InvalidState exception if upon entry the LoadableDeviceComponent's adminState attribute is LOCKED.	LoadableDeviceComponent	Loadable, Manageable	3.1.3.4.2.2.3.1
SCA512	The load operation shall raise the CF::InvalidState exception if upon entry the LoadableDeviceComponent's operationalState attribute is DISABLED.	LoadableDeviceComponent	Loadable, Interrogable	3.1.3.4.2.2.3.1
SCA513	The unload operation shall raise the CF::InvalidState exception if upon entry the LoadableDeviceComponent's operationalState attribute is DISABLED.	LoadableDeviceComponent	Loadable, Interrogable	3.1.3.4.2.2.3.1
<DELETED_4.1DRAFT> SCA304	A DeviceComponent shall realize the Device interface.	DeviceComponent		3.1.3.4.2.2.4
<DELETED_4.1DRAFT> SCA305	A DeviceComponent shall fulfill the ComponentBaseDevice requirements.	DeviceComponent		3.1.3.4.2.2.4
SCA308	A LoadableDeviceComponent shall realize the LoadableInterface interface.	LoadableDeviceComponent	Loadable	3.1.3.4.2.2.4
SCA309	A LoadableDeviceComponent shall fulfill the DeviceComponent requirements.	LoadableDeviceComponent	Loadable	3.1.3.4.2.2.4
SCA310	An ExecutableDeviceComponent shall accept the executable parameters as specified in section 3.1.3.4.1.6.5.1.3 (ExecutableInterface::execute).	ExecutableDeviceComponent	Executable	3.1.3.4.2.3.3
SCA283	The execute operation shall raise the CF::InvalidState exception if upon entry the ExecutableDeviceComponent's adminState attribute is either LOCKED or SHUTTING_DOWN.	ExecutableDeviceComponent	Executable, Manageable	3.1.3.4.2.3.3.1
SCA290	The terminate operation shall raise the CF::InvalidState exception if upon entry the ExecutableDeviceComponent's adminState attribute is LOCKED.	ExecutableDeviceComponent	Executable, Manageable	3.1.3.4.2.3.3.1
SCA514	The execute operation shall raise the CF::InvalidState exception if upon entry the ExecutableDeviceComponent's operationalState attribute is DISABLED.	ExecutableDeviceComponent	Executable, Interrogable	3.1.3.4.2.3.3.1
SCA515	The terminate operation shall raise the CF::InvalidState exception if upon entry the ExecutableDeviceComponent's operationalState attribute is DISABLED.	ExecutableDeviceComponent	Executable, Interrogable	3.1.3.4.2.3.3.1

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA311	An ExecutableDeviceComponent shall realize the ExecutableInterface interface.	ExecutableDeviceComponent	Executable	3.1.3.4.2.3.4
SCA312	An ExecutableDeviceComponent shall fulfill the DeviceComponent requirements.	ExecutableDeviceComponent	Executable	3.1.3.4.2.3.4
SCA564	An ExecutableDeviceComponent shall realize the LoadableInterface interface.	ExecutableDeviceComponent	Loadable	3.1.3.4.2.3.4
SCA313	An AggregateDeviceComponent shall realize the AggregateDevice interface.	AggregateDeviceComponent	Aggregatable	3.1.3.4.2.4.4
SCA320	The readonly fileName attribute shall return the pathname used as the input fileName parameter of the FileSystem::create operation when the file was created.	FileComponent	Deployment	3.1.3.5.1.1.4.1
SCA321	The readonly filePointer attribute shall return the current file position.	FileComponent	Deployment	3.1.3.5.1.1.4.2
SCA322	The read operation shall read, from the referenced file, the number of octets specified by the input length parameter and advance the value of the filePointer attribute by the number of octets actually read.	FileComponent	Deployment	3.1.3.5.1.1.5.1.3
SCA323	The read operation shall read less than the number of octets specified in the input length parameter, when an end-of-file is encountered.	FileComponent	Deployment	3.1.3.5.1.1.5.1.3
SCA324	The read operation shall return a CF::OctetSequence that equals the number of octets actually read from the file via the out data parameter.	FileComponent	Deployment	3.1.3.5.1.1.5.1.4
SCA325	If the filePointer attribute value reflects the end of the file, the read operation shall return a zero-length CF::OctetSequence.	FileComponent	Deployment	3.1.3.5.1.1.5.1.4
SCA326	The read operation shall raise the IOException when a read error occurs.	FileComponent	Deployment	3.1.3.5.1.1.5.1.5
SCA327	The write operation shall write data to the file referenced.	FileComponent	Deployment	3.1.3.5.1.1.5.2.3
SCA328	The write operation shall increment the filePointer attribute to reflect the number of octets written, when the operation is successful.	FileComponent	Deployment	3.1.3.5.1.1.5.2.3
SCA329	If the write operation is unsuccessful, the value of the filePointer attribute shall maintain or be restored to its value prior to the write operation call.	FileComponent	Deployment	3.1.3.5.1.1.5.2.3
SCA330	The write operation shall raise the IOException when a write error occurs.	FileComponent	Deployment	3.1.3.5.1.1.5.2.5
SCA331	The sizeOf operation shall return the number of octets stored in the file.	FileComponent	Deployment	3.1.3.5.1.1.5.3.4
SCA443	The sizeOf operation shall raise the CF::FileException when a file-related error occurs (e.g., file does not exist anymore).	FileComponent	Deployment	3.1.3.5.1.1.5.3.5
SCA332	The close operation shall release any OE file resources associated with the component.	FileComponent	Deployment	3.1.3.5.1.1.5.4.3
SCA333	The close operation shall make the file unavailable to the component.	FileComponent	Deployment	3.1.3.5.1.1.5.4.3
SCA334	The close operation shall raise the CF::FileException when it cannot successfully close the file.	FileComponent	Deployment	3.1.3.5.1.1.5.4.5
SCA335	The setFilePointer operation shall set the filePointer attribute value to the input filePointer.	FileComponent	Deployment	3.1.3.5.1.1.5.5.3
SCA336	The setFilePointer operation shall raise the CF::FileException when the file pointer for the referenced file cannot be set to the value of the input filePointer parameter.	FileComponent	Deployment	3.1.3.5.1.1.5.5.5
SCA337	The setFilePointer operation shall raise the InvalidFilePointer exception when the value of the filePointer parameter exceeds the file size.	FileComponent	Deployment	3.1.3.5.1.1.5.5.5
SCA338	At a minimum, the FileSystem interface implementation shall support name, kind, and size information for a file.	FileSystemComponent	Deployment	3.1.3.5.1.2.3.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA445	For this property, the identifier is CREATED_TIME_ID and the value shall be an unsigned long long data type containing the number of seconds since 00:00:00 UTC, Jan 1, 1970.	FileSystemComponent	Deployment	3.1.3.5.1.2.3.6
SCA446	For this property, the identifier is MODIFIED_TIME_ID and the value shall be an unsigned long long data type containing the number of seconds since 00:00:00 UTC, Jan 1, 1970.	FileSystemComponent	Deployment	3.1.3.5.1.2.3.7
SCA447	For this property, the identifier is LAST_ACCESS_TIME_ID and the value shall be an unsigned long long data type containing the number of seconds since 00:00:00 UTC, Jan 1, 1970.	FileSystemComponent	Deployment	3.1.3.5.1.2.3.8
SCA339	The remove operation shall remove the plain file which corresponds to the input fileName parameter.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.1.3
SCA340	The remove operation shall raise the CF::InvalidFileName exception when the input fileName parameter is not a valid absolute pathname.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.1.5
SCA341	The remove operation shall raise the CF::FileException when a file-related error occurs.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.1.5
SCA342	The copy operation shall copy the source file identified by the input sourceFileName parameter to the destination file identified by the input destinationFileName parameter.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.2.3
SCA343	The copy operation shall overwrite the destination file, when the destination file already exists and is not identical to the source file.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.2.3
SCA344	The copy operation shall raise the CF::FileException exception when a file-related error occurs.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.2.5
SCA345	The copy operation shall raise the CF::InvalidFileName exception when the destination pathname is identical to the source pathname.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.2.5
SCA346	The copy operation shall raise the CF::InvalidFileName exception when the sourceFileName or destinationFileName input parameter is not a valid absolute pathname.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.2.5
SCA347	The exists operation shall check to see if a file exists based on the fileName parameter.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.3.3
SCA348	The exists operation shall return TRUE if the file exists, or FALSE if it does not.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.3.4
SCA349	The exists operation shall raise the CF::InvalidFileName exception when input fileName parameter is not a valid absolute pathname.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.3.5
SCA350	These wildcards shall only be applied following the right-most forward-slash character ("/") in the pathname contained in the input pattern parameter.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.4.3
SCA448	The list operation shall support the "*" and "?" wildcard characters (used to match any sequence of characters, including null, and any single character, respectively).	FileSystemComponent	Deployment	3.1.3.5.1.2.5.4.3
SCA351	The list operation shall return a FileInformationSequence for files that match the search pattern specified in the input pattern parameter.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.4.4
SCA352	The list operation shall return a zero length sequence when no file is found which matches the search pattern.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.4.4
SCA353	The list operation shall raise the CF::InvalidFileName exception when the input pattern parameter is not an absolute pathname or cannot be interpreted due to unexpected characters.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.4.5
SCA354	The list operation shall raise the CF::FileException when a file-related error occurs.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.4.5
SCA355	The create operation shall create a new file based upon the input fileName parameter.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.5.3
SCA356	The create operation shall return a file object reference to the created file.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.5.4

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA357	The create operation shall raise the CF::FileException if the file already exists or another file error occurred.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.5.5
SCA358	The create operation shall raise the CF::InvalidFileName exception when the input fileName parameter is not a valid absolute pathname.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.5.5
SCA359	The open operation shall open the file referenced by the input fileName parameter.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.6.3
SCA360	The open operation shall open the file with read-only access when the input read_Only parameter is TRUE.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.6.3
SCA361	The open operation shall open the file for write access when the input read_Only parameter is FALSE.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.6.3
SCA362	The open operation shall return a FileComponent reference for the opened file.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.6.4
SCA363	The open operation shall set the filePointer attribute of the returned file instance to the beginning of the file.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.6.4
SCA364	The open operation shall raise the CF::FileException if the file does not exist or another file error occurred.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.6.5
SCA365	The open operation shall raise the CF::InvalidFileName exception when the input fileName parameter is not a valid absolute pathname.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.6.5
SCA366	The mkdir operation shall create a file system directory based on the directoryName given.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.7.3
SCA367	The mkdir operation shall create all parent directories required to create the directoryName path given.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.7.3
SCA368	The mkdir operation shall raise the CF::FileException if the directory indicated by the input directoryName parameter already exists or if a file-related error occurred during the operation.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.7.5
SCA369	The mkdir operation shall raise the CF::InvalidFileName exception when the directoryName is not a valid directory name.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.7.5
SCA370	The rmdir operation shall remove the directory identified by the input directoryName parameter.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.8.3
SCA371	The rmdir operation shall not remove the directory identified by the input directoryName parameter when the directory contains files.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.8.3
SCA372	The rmdir operation shall raise the CF::FileException when the directory identified by the input directoryName parameter does not exist, the directory contains files, or an error occurs which prohibits the directory from being deleted.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.8.5
SCA373	The rmdir operation shall raise the CF::InvalidFileName exception when the input directoryName parameter is not a valid path prefix.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.8.5
SCA374	The query operation shall return file system information to the calling client based upon the given fileSystemProperties' ID.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.9.3
SCA440	The FileSystem::query operation shall recognize and provide the designated return values for the following fileSystemProperties (section 3.1.3.5.1.2.3.2): 1.SIZE - an ID value of "SIZE" causes the query operation to return an unsigned long long containing the file system size (in octets); 2.AVAILABLE_SPACE - an ID value of "AVAILABLE_SPACE" causes the query operation to return an unsigned long long containing the available space on the file system (in octets).	FileSystemComponent	Deployment	3.1.3.5.1.2.5.9.3
SCA375	The query operation shall raise the UnknownFileSystemProperties exception when the given file system property is not recognized.	FileSystemComponent	Deployment	3.1.3.5.1.2.5.9.5
SCA376	The mount operation shall associate the specified file system with the mount point referenced by the input mountPoint parameter.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.1.3
SCA377	A mount point name shall begin with a "/" (forward slash character).	FileManagerComponent	Deployment	3.1.3.5.1.3.5.1.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA378	The mount operation shall raise the MountPointAlreadyExists exception when the mount point already exists in the file manager.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.1.5
SCA379	The mount operation shall raise the InvalidFileSystem exception when the input FileSystem is a null object reference.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.1.5
SCA461	The mount operation shall raise the CF::InvalidFileName exception when the input mount point does not conform to the file name syntax in section 3.1.3.5.2.2.3.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.1.5
SCA380	The unmount operation shall remove a mounted file system from the file manager whose mounted name matches the input mountPoint name.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.2.3
SCA381	The unmount operation shall raise the NonExistentMount exception when the mount point does not exist.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.2.5
SCA382	The getMounts operation shall return a MountSequence that contains the file systems mounted within the file manager.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.3.4
SCA383	The query operation shall return the combined mounted file systems information to the calling client based upon the given input fileSystemProperties' ID elements.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.4.3
SCA441	As a minimum, the query operation shall support the following input fileSystemProperties ID elements: 1.SIZE - a property item ID value of "SIZE" causes the query operation to return the combined total size of all the mounted file system as an unsigned long long property value; 2.AVAILABLE_SPACE - a property item ID value of "AVAILABLE_SPACE" causes the query operation to return the combined total available space (in octets) of all the mounted file system as unsigned long long property value.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.4.3
SCA384	The query operation shall raise the UnknownFileSystemProperties exception when the input fileSystemProperties parameter contains an invalid property ID element.	FileManagerComponent	Deployment	3.1.3.5.1.3.5.4.5
SCA397	A FileComponent's filePointer attribute shall be set to the beginning of the file when a FileComponent is opened for read only or created for the first time.	FileComponent	Deployment	3.1.3.5.2.1.3
SCA398	A FileComponent's filePointer attribute shall be set at the end of the file when a FileComponent already exists and is opened for write.	FileComponent	Deployment	3.1.3.5.2.1.3
SCA399	A FileComponent shall realize the File interface.	FileComponent	Deployment	3.1.3.5.2.1.4
SCA400	Valid characters for a FileSystemComponent file name and file absolute pathname shall adhere to POSIX compliant file naming conventions.	FileSystemComponent	Deployment	3.1.3.5.2.2.3
SCA401	A FileSystemComponent shall realize the FileSystem interface.	FileSystemComponent	Deployment	3.1.3.5.2.2.4
SCA402	Valid individual filenames and directory names for a FileSystemComponent shall be 40 characters or less.	FileSystemComponent	Deployment	3.1.3.5.2.2.4
SCA403	A valid pathname for a FileSystemComponent shall not exceed 1024 characters.	FileSystemComponent	Deployment	3.1.3.5.2.2.4
SCA404	The FileSystem operations realized by a FileManagerComponent shall remove the name of the mounted file system from input pathnames before passing the pathnames to any operation on a mounted file system.	FileManagerComponent	Deployment	3.1.3.5.2.3.3
SCA405	A FileManagerComponent shall propagate exceptions raised by a mounted file system.	FileManagerComponent	Deployment	3.1.3.5.2.3.3
SCA406	A FileManagerComponent shall use the FileSystem operations of the FileSystemComponent whose associated mount point exactly matches the input fileName parameter to the lowest matching subdirectory.	FileManagerComponent	Deployment	3.1.3.5.2.3.3
SCA408	A FileManagerComponent shall realize the FileManager interface.	FileManagerComponent	Deployment	3.1.3.5.2.3.4

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SCA409	A FileManagerComponent instantiation shall fulfill the FileSystemComponent component requirements.	FileManagerComponent	Deployment	3.1.3.5.2.3.4
SCA298	A BasePlatformComponent shall register with its DeviceManagerComponent via the ComponentRegistry::registerComponent operation.	DeviceComponent	Component Registration	3.1.3.5.2.4.3
SCA565	A BasePlatformComponent shall fulfill the BaseComponent requirements.	BasePlatformComponent		3.1.3.5.2.4.4
<DEMOTED> SCA566	Each BasePlatformComponent is accompanied by an SPD file per section 3.1.3.6.1.	BasePlatformComponent		3.1.3.5.2.4.4
<DELETED_4.1DRAFT> SCA412	A PlatformComponentFactoryComponent shall register with the launching DeviceManagerComponent via the ComponentRegistry::registerComponent operation.	PlatformComponentFactoryComponent	Component Registration	3.1.3.5.2.5.3
SCA416	The PlatformComponentFactoryComponent shall only deploy DeviceComponents or ServiceComponents.	PlatformComponentFactoryComponent		3.1.3.5.2.5.4
SCA527	A PlatformComponentFactoryComponent instantiation shall fulfill the BaseFactoryComponent requirements.	PlatformComponentFactoryComponent		3.1.3.5.2.5.4
SCA567	A PlatformComponentFactoryComponent instantiation shall fulfill the BasePlatformComponent requirements.	PlatformComponentFactoryComponent		3.1.3.5.2.5.4
SCA314	All ServiceComponents started up by a DeviceManagerComponent shall have a handler registered for the POSIX SIGQUIT signal.	ServiceComponent		3.1.3.5.2.6.3
<DELETED_4.1DRAFT> SCA316	A ServiceComponent shall register with the launching DeviceManagerComponent via the ComponentRegistry::registerComponent operation.	ServiceComponent	Component Registration	3.1.3.5.2.6.3
SCA317	The values associated with the parameters (SERVICE_NAME) as described in 3.1.3.3.2.4.3 shall be used to set the platform service's ComponentIdentifier interface identifier attribute.	ServiceComponent	Interrogable	3.1.3.5.2.6.3
SCA460	Each ServiceComponent shall have an SPD as described in section 3.1.3.6.4.	ServiceComponent		3.1.3.5.2.6.4
SCA568	A ServiceComponent shall fulfill the BasePlatformComponent requirements.	ServiceComponent		3.1.3.5.2.6.4
<DELETED_4.1DRAFT> SCA529	A CF_ServiceComponent shall fulfill the ResourceComponent requirements.	CF_ServiceComponent		3.1.3.5.2.7.4
SCA530	A ManageableServiceComponent shall fulfill the ServiceComponent requirements.	ManageableServiceComponent		3.1.3.5.2.7.4
SCA569	A ManageableServiceComponent shall realize the LifeCycle interface.	ManageableServiceComponent		3.1.3.5.2.7.4
SCA463	Domain Profile files shall be compliant to the descriptor files provided in Appendix D.	BaseComponent		3.1.3.6
SCA471	Any Ada application shall be restricted to using the equivalent Ada functionality, as defined in POSIX Ada language binding [2], designated as mandatory by the target profile or may use the C interface defined in [3].	OS	AEP Provider	B.6
SCA473	The options, limits, and any other constraints on POSIX.1 [1] shall be provided as described in Table 1.	OS	AEP Provider	B.6.1
SCA537	The functions listed in Table 2 shall behave as described in the applicable clauses of the referenced POSIX [4].	OS	AEP Provider	B.6.1.1
SCA484	The functions listed in Table 11 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.10
SCA485	The functions listed in Table 12 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.11
SCA486	The functions listed in Table 13 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.12

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SCA487	The functions listed in Table 14 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.13
SCA488	The function listed in Table 15 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.14
SCA489	The function listed in Table 16 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.15
SCA465	The functions listed in Table 17 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.16
SCA466	The functions listed in Table 18 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.17
SCA467	The functions listed in Table 19 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.18
SCA468	The function listed in Table 20 shall behave as described in the referenced clause.	OS	AEP Provider	B.6.1.19
SCA475	The functions in Table 3 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.2
SCA469	The function listed in Table 21 shall behave as described in the referenced clause.	OS	AEP Provider	B.6.1.20
SCA476	The functions listed in Table 4 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.3
SCA477	The functions listed in Table 5 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.4
SCA478	The functions listed in Table 6 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.5
SCA480	The functions listed in Table 7 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.6
SCA481	The functions listed in Table 8 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.7
SCA482	The functions listed in Table 9 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.8
SCA483	The functions listed in Table 10 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.1.9
SCA490	The functions listed in Table 22 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.2.1
SCA491	The functions listed in Table 23 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.2.2
SCA464	The functions listed in Table 24 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.2.3
SCA492	The Standard C [3] Library header files listed in Table 25 shall be included within the AEP as described in the referenced clause.	OS	AEP Provider	B.6.3
SCA493	The functions listed in Table 26 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.4.1
SCA470	The functions listed in Table 27 shall behave as described in the applicable clauses of POSIX [4].	OS	AEP Provider	B.6.4.2
SCA501	DTD files are installed in the domain and shall have ".dtd" as their filename extension.	BaseComponent		D-1.1
SCA502	All XML files shall have as the first two lines as an XML declaration (?xml) and a document type declaration (!DOCTYPE).	BaseComponent		D-1.1
SCA496	A Software Assembly Descriptor file shall have a ".sad.xml" extension.	ApplicationControllerComponent		D-1.10
SCA497	A Device Configuration Descriptor file shall have a ".dcd.xml" extension.	DeviceManagerComponent	Deployment	D-1.11

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SCA498	A DomainManager Configuration Descriptor file shall have a ".dmd.xml" extension.	DomainManagerComponent		D-1.12
SCA499	A Platform Deployment Descriptor file shall have a ".pdd.xml" extension.	DomainManagerComponent	Channel Extension	D-1.13
SCA500	An Application Deployment Descriptor file shall have an ".add.xml" extension.	ApplicationControllerComponent	Channel Extension	D-1.14
SCA503	A Software Package Descriptor file shall have a ".spd.xml" extension.	BaseComponent		D-1.6
SCA504	A Device Package Descriptor File shall have a ".dpd.xml" extension.	DeviceManagerComponent	Deployment	D-1.7
SCA494	A Properties Descriptor shall have a ".prf.xml" extension.	BaseComponent		D-1.8
SCA495	A Software Component Descriptor file shall have a ".scd.xml" extension.	BaseComponent		D-1.9
SCA505	The OE shall provide the features designated as mandatory, as specified in E-2.7, for the implemented SCA CORBA profile.	ORB	CORBA Provider	E-2.6.1
SCA506	Applications shall be limited to using the features designated as mandatory, as specified in E-2.7, for the implemented SCA CORBA profile.	ApplicationComponent	CORBA Provider	E-2.6.2
SCA507	The features included in the Full, LW and ULW Profiles listed in Attachment 1 to this appendix shall behave as described in the applicable clauses of CORBA/e [1].	ORB	CORBA Provider	E-2.7.1
SCA508	The features included in the Full, LW and ULW Profiles listed in Attachment 2 to this appendix shall behave as described in the applicable clauses of RT CORBA [2].	ORB	CORBA Provider	E-2.7.2
SCA509	The Full and LW Profiles shall support the additional standardized parameters identified in Table 1 to the ORB_init call to allow the root POA to be created with non-default policies.	ORB	CORBA Provider	E-2.7.2.1
SCA544	The OE shall provide a naming capability which implements the CosNaming module NamingContext interface operations: bind, bind_new_context, unbind, destroy, and resolve as defined in the OMG Naming Service Specification [3] using the IDL found in Appendix A of that reference.	OS	Application Backwards Compatible	F.7.1.1
SCA69*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
SCA70*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
SCA84*	The create operation shall, in order, initialize all application resources, then establish connections for those resources, and finally configure the application component indicated by the assemblycontroller element in the SAD.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
<DELETED> SCA92*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
<DELETED> SCA93*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
<DELETED> SCA94*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
<DELETED> SCA95*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
<DELETED> SCA96*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
<DELETED> SCA97*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
<DELETED> SCA105*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
<DELETED> SCA106*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.3
SCA552	The installApplication operation shall raise the ApplicationInstallationError exception when SCA V2.2.2 application installation is not supported.	DomainManagerComponent	Application Backwards Compatible	F.7.1.4
SCA554	For components that are registered with Naming Service, the releaseObject operation shall unbind those components and destroy the associated naming contexts as necessary from the Naming Service.	ApplicationManagerComponent	Application Backwards Compatible	F.7.1.5
SCA158*	An ApplicationManagerComponent shall delegate the runTest, start, stop, configure, and query operations to the application's assembly controller as identified by the AssemblyComponent's SAD assemblycontroller element.	ApplicationManagerComponent	Application Backwards Compatible	F.7.1.5
SCA159*	The ApplicationManagerComponent shall propagate exceptions raised by the AssemblyComponent's assembly controller.	ApplicationManagerComponent	Application Backwards Compatible	F.7.1.5
SCA160*	N/A.	ApplicationManagerComponent	Application Backwards Compatible	F.7.1.5
SCA161*	N/A.	ApplicationManagerComponent	Application Backwards Compatible	F.7.1.5
SCA162*	N/A.	ApplicationManagerComponent	Application Backwards Compatible	F.7.1.5
SCA555	The create operation shall instantiate a SCA V2.2.2 compliant application if the SAD does not have a sca_version element.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.6
SCA556	The create operation shall create any naming contexts that do not exist but which are required for successful binding to the Naming Context IOR.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA557	Upon execution of a software module by the create operation, a Resource or a ResourceFactory component shall register with the Naming Service.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA68*	The create operation shall identify valid component-device associations for the application by matching the allocation properties of the application to those of each candidate device, for those application component properties whose kindtype is allocation and whose action element is not external.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA71*	The create operation shall allocate capacities to candidate devices of the application component properties whose kindtype is allocation and whose action element is external.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA72*	The create operation shall deallocate any capacity allocations on devices that do not satisfy the application component's allocation requirements or that are not utilized due to an unsuccessful application creation.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA73*	The create operation shall load application modules onto devices that have been granted successful capacity allocations and that satisfy the application component's allocation requirements.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA76*	The create operation shall include the mandatory execute parameters Naming Context IOR, Name Binding, and Component Identifier, as described in this section, in the parameters parameter of the ExecutableInterface::execute operation when the CORBA instance's componentinstantiation element of the SAD contains a findcomponent element with a namingservice sub-element.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA77*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA83*	The create operation, when creating a resource from a resource factory, shall pass the componentinstantiation componentresourcefactoryref element properties whose kindtype element is factoryparam as the qualifiers parameter to the referenced ResourceFactory component's createResource operation.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA81*	When an application component is created via an executable device, the create operation shall pass the values of the execparam properties of the componentinstantiation componentproperties element contained in the SAD, as parameters to the execute operation.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA85*	The create operation shall establish connections for an application which are specified in the SAD domainfinder element.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA86*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA87*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA90*	The create operation shall configure the application component indicated by the assemblycontroller element in the SAD if that component has properties with a kindtype of "configure" and a mode of "readwrite" or "writeonly".	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA98*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA542*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7

SCA Requirement Number	SCA Requirement Text	Applicable SCA Component(s)	Applicable Unit(s) of Functionality	Document Section
SCA524*	N/A.	ApplicationFactoryComponent	Application Backwards Compatible	F.7.1.7
SCA558	The installApplication operation shall install a SCA V2.2.2 [4] compliant application.	DomainManagerComponent	Application Backwards Compatible	F.7.1.8