



# *Joint Program Executive Office Joint Tactical Radio System*

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## SCA Requirements Revisions (including UUID Removal)



24-25 August 2010  
JTRS SCA Working Group

**JPEO JTRS**



# Task Overview

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- **Objective**

- Identify and remove unnecessary SCA Application and Operating Environment (OE) requirements
- Track requirements from other tasks
- Categorize the remaining requirements into mandatory and optional categories

- **Benefits**

- Expands SCA applicability to additional form factors and architectures
- Removes unnecessary requirements that will improve infrastructure footprint, boot times, application installation and instantiation
- Identifies optional requirements into categories that facilitates certification testing
- Maintains backward compatibility of applications

- **Impact**

- Necessitates changes in SCA specification



# Application Requirements

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- **Log and Event services are already optional**
- **Testable object functions should be made optional**
- **AP0091<sup>[1]</sup>: The configure operation shall assign values to the properties as indicated in the input configProperties parameter. Make optional**
- **AP0091<sup>[1]</sup>: The configure operation shall raise a PartialConfiguration exception when some configuration properties were successfully set and some configuration properties were not successfully set. Optional or Candidate for deletion**
- **AP0099<sup>[1]</sup> The errorNumber parameter shall indicate a CF ErrorNumberType value. Candidate for deletion**

<sup>[1]</sup> JTRS Test and Evaluation Laboratory, "SCA 2.2.2 OE Requirements List," version 2.1, 20-Oct-2009, Available: [https://jtel.spawar.navy.mil/docs/sca\\_2\\_2\\_2\\_oe\\_requirements\\_list\\_v2\\_1.pdf](https://jtel.spawar.navy.mil/docs/sca_2_2_2_oe_requirements_list_v2_1.pdf)



# Application Requirements

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- **AP0100<sup>[1]</sup>** The errorNumber parameter shall indicate a CF ErrorNumberType value. Candidate for deletion
- **AP0101<sup>[1]</sup>** The readonly identifier attribute shall contain the unique identifier for a Resource instance. Remove shall. Covered by requirement AP0611<sup>[1]</sup>
- **AP0108<sup>[1]</sup>** The errorNumber parameter shall indicate a CF ErrorNumberType value. Candidate for deletion
- **Make Application Resource factory requirements optional**

<sup>[1]</sup> JTRS Test and Evaluation Laboratory, "SCA 2.2.2 Applications Requirements List," version 2.2, 08-July-2010, Available: [https://jtel.spawar.navy.mil/docs/sca\\_2\\_2\\_2\\_application\\_requirements\\_list\\_v2.2.pdf](https://jtel.spawar.navy.mil/docs/sca_2_2_2_application_requirements_list_v2.2.pdf)



# OE Requirements

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- **OE requirements<sup>[1],[2]</sup> matrix under review at time briefing was created**
- **The OE matrix is more of a record keeping exercise than an independent work product**
- **Many of the possible changes will be briefed at a high level during the conference**
- **The matrix does try to categorize compliance/capability profiles (name open for discussion)**

<sup>[1]</sup> JTRS Test and Evaluation Laboratory, "SCA 2.2.2 OE Requirements List," version 2.1, 20-Oct-2009, Available: [https://jtel.spawar.navy.mil/docs/sca\\_2\\_2\\_2\\_oe\\_requirements\\_list\\_v2\\_1.pdf](https://jtel.spawar.navy.mil/docs/sca_2_2_2_oe_requirements_list_v2_1.pdf)

<sup>[2]</sup> JTRS Test and Evaluation Laboratory, "SCA 2.2.2 OE Requirements List v2.1 Errata Sheet," 13-Mar-2010, Available: [https://jtel.spawar.navy.mil/docs/sca%202%202%20\\_oe%20req%20list%20errata%20sheet.pdf](https://jtel.spawar.navy.mil/docs/sca%202%202%20_oe%20req%20list%20errata%20sheet.pdf)



# OE Requirements

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- **OE compliance/capability profiles (name open for discussion)**
  - Mandatory
  - Deployment
  - CORBA
  - Event
  - TestableObject
  - Registration
  - Installation
  - Services
  - Profile



# OE Requirements

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- **Log and event service optional**
- **AEP no change**
- **Port no change**
- **LifeCycle no change**
- **TestableObject recommend optional**
- **PortSupplier no change**
- **PropertySet optional**
- **Resource no change**
- **Application Interface optional**



# OE Requirements

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- **ApplicationFactory optional**
- **DomainManager a mix. Mostly optional**
- **DeviceManager Optional**
- **Device mostly optional**
- **LoadableDevice mostly optional**
- **ExecutableDevice mostly optional**
- **AggregateDevice optional**
- **File no change**
- **FileSystem no change**



# OE Requirements

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- **FileManager no change**
- **Domain Profile no change in the documents**
- **Core Framework base types no change**
- **Applications minor changes**
- **Logical Device no change**



# OE Requirements

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- **And yes, the Universally Unique Identifier (UUID) requirement will be removed**
  - SCA Appendix D (Domain Profile) will continue to associate XML ID type with identifier attributes
  - Developer has freedom to continue using DCE:UUID
  - Developer has responsibility of providing “ID” values that are unique within a domain and compliant with the ID production rules consistent with the XML namespaces specification (going forward)