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# **Agile Product Lifecycle Management**

Agile PLM EC Web Services  
Quick Reference Guide

v9.3.0.3

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# Preface

Oracle's Agile PLM documentation set includes Adobe® Acrobat PDF files. The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technetwork/documentation/agile-085940.html) <http://www.oracle.com/technetwork/documentation/agile-085940.html> contains the latest versions of the Agile PLM PDF files. You can view or download these manuals from the Web site, or you can ask your Agile administrator if there is an Agile PLM Documentation folder available on your network from which you can access the Agile PLM documentation (PDF) files.

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**Note** To read the PDF files, you must use the free Adobe Acrobat Reader version 9.0 or later. This program can be downloaded from the [Adobe Web site](http://www.adobe.com) <http://www.adobe.com>.

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The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technetwork/documentation/agile-085940.html) <http://www.oracle.com/technetwork/documentation/agile-085940.html> can be accessed through **Help > Manuals** in both Agile Web Client and Agile Java Client. If you need additional assistance or information, please contact My Oracle Support (<https://support.oracle.com>) for assistance.

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**Note** Before calling Oracle Support about a problem with an Agile PLM manual, please have the full part number, which is located on the title page.

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## Readme

Any last-minute information about Agile PLM can be found in the Readme file on the [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technetwork/documentation/agile-085940.html) <http://www.oracle.com/technetwork/documentation/agile-085940.html>.

## Agile Training Aids

Go to the [Oracle University Web page](http://www.oracle.com/education/chooser/selectcountry_new.html) [http://www.oracle.com/education/chooser/selectcountry\\_new.html](http://www.oracle.com/education/chooser/selectcountry_new.html) for more information on Agile Training offerings.

## Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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# Introduction

The Oracle Agile PLM Application Suite enables enterprises to accelerate product innovation and maximize product profitability by managing the information, processes, and decisions about their products throughout the product lifecycle. The Agile PLM product provides comprehensive support for the PLM business process through PC, PQM, PPM, PCM, PGC & EC.

Businesses are starting to realize the benefits of Service Oriented Architecture (SOA) and Web Services. Web Services are rapidly emerging as the standard solution to publish business services, both within corporate firewalls as well as externally to provide integration points with business partners. Customers are also adopting SOA and Web Services technologies to enable more composite applications and enterprise-wide data integrations. SOA is emerging as the premier integration and architecture framework in today's complex and heterogeneous computing environment. SOA can help organizations streamline processes so that they can do business more efficiently, and adapt to changing needs and competition, enabling the *software as a service* concept are the preferred standards-based way to realize SOA.

Web services are designed to support interoperable machine-to-machine interaction over a network. This interoperability is gained through a set of XML-based open standards, such as WSDL, SOAP, and UDDI. These standards provide a common approach for defining, publishing, and using web services.



# EC Object Calls

This chapter includes the following:

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The Core service covers most of the basic services, which can also be used in the EC services context. There are some of the services that the Core service does not cover as those are EC specific services. Those EC services will be described in the following sections in detail. The EC Services are designed as document/wrapped style and use consistent request response types which in turn use the types defined in the Core services data model or extend the one from the Core service data model.

## getDesignProperties

**Service** To retrieve the metadata of the attributes available for the given subclass of Designs, including those in the Title Block, Page Two and Page Three tabs and optionally also the table pages, such as Files, Structure and Where Used.

**Usage** The request does not need to include any Agile objects, however, the following two parameters are allowed in the general parameters section: subclass-name and include-tables. The value of subclass-name is a subclass of a design for which the properties (Metadata) have to be retrieved. The value of the parameter include-tables is either "true" or "false". If set to "true", metadata for attributes in tables is included. The default value is "false".

The service reads the Metadata for the given Design subclass and checks if the subclass is of type Design and retrieves the metadata for all the object attributes, Auto number sources, subclass types and table metadata (if include-tables is set to "true"). Then the AgileECClass type is created and filled with the retrieved metadata.

**Syntax**

```
AgileECResponseExtType getDesignPropertiesResponseType =
agileStub.getDesignProperties(getDesignPropertiesRequestType);
```

**Special Handling**      **Exceptions:**

1. If the subclass-name specified is not of type Design
2. If there is no subclass of the given subclass type

**Basic Steps** To retrieve the metadata of a Design subclass:

1. Create the request object AgileECRequestExtType for the getDesignProperties operation.
2. Create a general parameters list of the type PropertyListType.
3. Add the parameter 'subclass-name' to the list.
4. Optionally add the parameter 'include-tables' to the list.
5. Call the Web Service and review the metadata information returned.

**Sample Code** Java

```

try {
    setupServerLogin();
    Integer classId = getIntegerProperty(DSIGN CLASS ID);
    String subClass = getStringProperty(DSIGN SUBCLASS);
    String number = getStringProperty(DSIGN NUMBER);
    AgileECRequestExtType getDesignPropertiesRequestType = new
AgileECRequestExtType();
    PropertyListType[] generalParameters = new PropertyListType[2];
    generalParameters[0] = new PropertyListType();
    PropertyType[] props = new PropertyType[2];
    props[0] = new PropertyType("include-tables", "false");
    props[1] = new PropertyType("subclass-name", subClass);
    generalParameters[0].setProperty(props);
    getDesignPropertiesRequestType.setGeneralParameters(generalParameters);
    AgileECResponseExtType getDesignPropertiesResponseType =
agileStub.getDesignProperties(getDesignPropertiesRequestType);
    System.out.println("STATUS CODE: " +
getDesignPropertiesResponseType.getStatusCode());
    if
(!getDesignPropertiesResponseType.getStatusCode().toString().equals(ResponseStatus
Code.SUCCESS.getValue())) {
        AgileExceptionListType[] agileExceptionListType =
getDesignPropertiesResponseType.getExceptions();
        for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
            for (AgileExceptionType exception :
exceptionListType.getException()) {
                System.out.println(exception.getMessage());
            }
        }
    } else { // If the object, was successfully retrieved, then examine its
        AgileECClassType[] agileResponseObjects =
getDesignPropertiesResponseType.getAgileClass();
        if (agileResponseObjects != null) {
            for (AgileECClassType agileObject : agileResponseObjects) {
                System.out.println("Class API Name: " +
agileObject.getApiName());
                AdminNodeType[] autoNumbers = agileObject.getAutoNumber();
                for (AdminNodeType autoNumber : autoNumbers) {
                    System.out.println("AutoNumber API Name: " +
autoNumber.getApiName());
                    System.out.println("AutoNumber Display Name: " +
autoNumber.getDisplayName());
                }
                AttributeType[] attributeMetaData =
agileObject.getAttributeMetaData();
                for (AttributeType at : attributeMetaData) {
                    System.out.println("MetaData Node ID: " + at.getNodeId());
                    System.out.println("MetaData API Name: " + at.getApiName());
                    System.out.println("MetaData Type: " + at.getType());
                    System.out.println("MetaData Display Name: " +
at.getDisplayName());
                    System.out.println("MetaData Data Type: " +
at.getDataType());
                    System.out.println("MetaData Searchable: " +
at.getSearchable());
                    System.out.println("MetaData Visible: " + at.getVisible());
                    System.out.println("MetaData Required: " + at.getRequired());
                    System.out.println("MetaData Max. Length: " +
at.getMaxLength());
                }
            }
        }
    }
}

```

```

    }
  } else {
    System.out.println("No results!");
  }
}
}
}

```

### Sample Code SOAP

```

==== Request ====
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <getDesignProperties xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
      <req xmlns="">
        <generalParameters>
          <id xsi:nil="true" />
          <property>
            <propertyName>include-tables</propertyName>
            <propertyValue>>false</propertyValue>
          </property>
          <property>
            <propertyName>subclass-name</propertyName>
            <propertyValue>Design</propertyValue>
          </property>
        </generalParameters>
        <generalParameters xsi:nil="true" />
      </req>
    </getDesignProperties>
  </soapenv:Body>
</soapenv:Envelope>

==== Response ====

<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <getDesignPropertiesResponse
      xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
      <res xmlns="">
        <messageId xsi:nil="true" />
        <messageName xsi:nil="true" />
        <statusCode>SUCCESS</statusCode>
        <AgileClass>
          <nodeId>2000008310</nodeId>
          <apiName>Design</apiName>
          typeCLASS</type>
          <displayName>Design</displayName>
          <abstractClass>>false</abstractClass>
          <autoNumber>
            <nodeId>2000008780</nodeId>
            <apiName>DesignsNumber</apiName>
            typeAUTONUMBER</type>
            <displayName>Designs Number</displayName>
          </autoNumber>
          <attributeMetaData>
            <nodeId>6173</nodeId>
            <apiName>Number</apiName>
            typeATTRIBUTE</type>
            <displayName>Number</displayName>
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```

```

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```

```

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```

```

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```

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</getDesignPropertiesResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## getItemPropertiesByDesign

**Service** To retrieve the metadata of the attributes available for the subclass of the Part to which the given Design object is attached. Returns a FAILURE if the given Design is not attached to a Part object.

**Usage** The request does not need to include any agile objects, however, the following two parameters should be used in first set of general parameters: 'design-id' and 'include-tables'. 'design-id' is a required parameter and should contain the number of the Design object to search for. 'include-tables' is optional and may be set to 'true' or 'false'. If set to 'true', then metadata for the attributes in the table pages of the Parts subclass will be included in the response. The default value for include-tables is "false".

The service returns an array of AgileECClassType for the Parts subclass filled in the response object.

**Syntax** `AgileECResponseExtType getItemPropertiesByDesignResponseType = agileStub.getItemPropertiesByDesign(getItemPropertiesByDesignRequestType)`

**Special Handling**      **Exceptions:**

1. If the object is not found for the given ID
2. If the object found is not of type Design

### Basic Steps

1. Create the request object AgileECRequestExtType for the getItemPropertiesByDesign operation.
2. Create a general parameters list of type PropertyListType
3. Add the parameter 'design-id' to the list.
4. Optionally add the parameter 'include-tables' to the list.
5. Call the WebService and review the metadata information returned.

### Sample Code Java

```
try {
    setupServerLogin();
    Integer classId = getIntegerProperty(DESIGN CLASS ID);
    String subClass = getStringProperty(DESIGN SUBCLASS);
    String number = getStringProperty(DESIGN NUMBER);
    String version = getStringProperty(DESIGN VERSION);
    AgileECRequestExtType getItemPropertiesByDesignRequestType = new
AgileECRequestExtType();
    PropertyListType[] generalParameters = new PropertyListType[2];
    generalParameters[0] = new PropertyListType();
    PropertyType[] props = new PropertyType[2];
    props[0] = new PropertyType("include-tables", "false");
    props[1] = new PropertyType("design-id", number);
    generalParameters[0].setProperty(props);

    getItemPropertiesByDesignRequestType.setGeneralParameters(generalParameters);
    AgileECResponseExtType getItemPropertiesByDesignResponseType = agileStub
.getItemPropertiesByDesign(getItemPropertiesByDesignRequestType);
    System.out.println("STATUS CODE: " +
getItemPropertiesByDesignResponseType.getStatusCode());
    if
(!getItemPropertiesByDesignResponseType.getStatusCode().toString().equals(Response
StatusCode.SUCCESS.getValue())) {
        AgileExceptionListType[] agileExceptionListType =
getItemPropertiesByDesignResponseType.getExceptions();
        for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
            for (AgileExceptionType exception :
exceptionListType.getException()) {
```

```

    }
    } else { // If the object, was successfully retrieved, then examine its
        AgileECClassType[] agileResponseObjects =
        getItemPropertiesByDesignResponseType.getAgileClass();
        if (agileResponseObjects != null) {
            for (AgileECClassType agileObject : agileResponseObjects) {
                System.out.println("Class API Name: " +
                agileObject.getApiName());
                AdminNodeType[] autoNumbers = agileObject.getAutoNumber();
                for (AdminNodeType autoNumber : autoNumbers) {
                    System.out.println("AutoNumber API Name: " +
                    autoNumber.getApiName());
                    System.out.println("AutoNumber Display Name: " +
                    autoNumber.getDisplayName());
                }
                AttributeType[] attributeMetaData =
                agileObject.getAttributeMetaData();
                for (AttributeType at : attributeMetaData) {
                    System.out.println("MetaData Node ID: " + at.getNodeId());
                    System.out.println("MetaData API Name: " + at.getApiName());
                    System.out.println("MetaData Type: " + at.getType());
                    System.out.println("MetaData Display Name: " +
                    at.getDisplayName());
                    System.out.println("MetaData Data Type: " +
                    at.getDataType());
                    System.out.println("MetaData Searchable: " +
                    at.getSearchable());
                    System.out.println("MetaData Visible: " + at.getVisible());
                    System.out.println("MetaData Required: " + at.getRequired());
                    System.out.println("MetaData Max. Length: " +
                    at.getMaxLength());
                }
            }
        } else {
            System.out.println("No results!");
        }
    }
}

```

### Sample Code SOAP

```

==== Request ====
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <getItemPropertiesByDesign
      xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
      <req xmlns="">
        <generalParameters>
          <id xsi:nil="true" />
          <property>
            <propertyName>include-tables</propertyName>
            <propertyValue>>false</propertyValue>
          </property>
          <property>
            <propertyName>design-id</propertyName>
            <propertyValue>DESIGN09483.SLDASM</propertyValue>
          </property>
        </generalParameters>
        <generalParameters xsi:nil="true" />
      </req>
    </getItemPropertiesByDesign>
  </soapenv:Body>
</soapenv:Envelope>

==== Response ====

<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <getItemPropertiesByDesignResponse
      xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">

```

```

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<messageName xsi:nil="true" />
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    <apiName>PartNumber</apiName>
    typeAUTONUMBER</type>
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```

```

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<visible xsi:nil="true" />
<required>false</required>
<maxLength>2147483647</maxLength>
</attributeMetaData>
<attributeMetaData>
<nodeId>2008</nodeId>
<apiName>Text02</apiName>
typeATTRIBUTE</type>
<displayName>CAD Model Configuration</displayName>
<dataType>2</dataType>

```

```

<visible xsi:nil="true" />
<required>>false</required>
<maxLength>50</maxLength>
</attributeMetaData>
<attributeMetaData>
  <nodeId>1301</nodeId>
  <apiName>Text11</apiName>
  typeATTRIBUTE</type>
  <displayName>CAD System</displayName>
  <dataType>2</dataType>
  <searchable>>true</searchable>
  <visible xsi:nil="true" />
  <required>>false</required>
  <maxLength>50</maxLength>
</attributeMetaData>
<attributeMetaData>
  <nodeId>1306</nodeId>
  <apiName>Text16</apiName>
  typeATTRIBUTE</type>
  <displayName>CAD Subtype</displayName>
  <dataType>2</dataType>
  <searchable>>true</searchable>
  <visible xsi:nil="true" />
  <required>>false</required>
  <maxLength>50</maxLength>
</attributeMetaData>
<attributeMetaData>
  <nodeId>1313</nodeId>
  <apiName>Text23</apiName>
  typeATTRIBUTE</type>
  <displayName>Published from</displayName>
  <dataType>2</dataType>
  <searchable>>true</searchable>
  <visible xsi:nil="true" />
  <required>>false</required>
  <maxLength>50</maxLength>
</attributeMetaData>
<attributeMetaData>
  <nodeId>1308</nodeId>
  <apiName>Text18</apiName>
  typeATTRIBUTE</type>
  <displayName>CAD Variant</displayName>
  <dataType>2</dataType>
  <searchable>>true</searchable>
  <visible xsi:nil="true" />
  <required>>false</required>
  <maxLength>50</maxLength>
</attributeMetaData>
<attributeMetaData>
  <nodeId>1302</nodeId>
  <apiName>Text12</apiName>
  typeATTRIBUTE</type>
  <displayName>CAD Filename</displayName>
  <dataType>2</dataType>
  <searchable>>true</searchable>
  <visible xsi:nil="true" />
  <required>>false</required>
  <maxLength>50</maxLength>
</attributeMetaData>
<attributeMetaData>
  <nodeId>2023</nodeId>
  <apiName>List04</apiName>
  typeATTRIBUTE</type>
  <displayName>List04</displayName>
  <dataType>4</dataType>
  <possibleValues>
    <id xsi:nil="true" />
    <apiName>List04</apiName>
    <displayName>List04</displayName>
    typeSIMPLELIST</type>
    <value xsi:nil="true" />
  </possibleValues>
  <searchable>>true</searchable>
  <visible xsi:nil="true" />
  <required>>false</required>
  <maxLength>2147483647</maxLength>
</attributeMetaData>
<attributeMetaData>
  <nodeId>1305</nodeId>
  <apiName>Text15</apiName>

```

```

<displayName>CAD Type</displayName>
<dataType>2</dataType>
<searchable>true</searchable>
<visible xsi:nil="true" />
<required>false</required>
<maxLength>50</maxLength>
</attributeMetaData>
<attributeMetaData>
<nodeId>2623310</nodeId>
<apiName>myPublishedFrom</apiName>
typeATTRIBUTE</type>
<displayName>My Published From</displayName>
<dataType>2</dataType>
<searchable>true</searchable>
<visible xsi:nil="true" />
<required>false</required>
<maxLength>50</maxLength>
</attributeMetaData>
<attributeMetaData>
<nodeId>2007</nodeId>
<apiName>Text01</apiName>
typeATTRIBUTE</type>
<displayName>CAD Model</displayName>
<dataType>2</dataType>
<searchable>true</searchable>
<visible xsi:nil="true" />
<required>false</required>
<maxLength>50</maxLength>
</attributeMetaData>
</AgileClass>
</res>
</getItemPropertiesByDesignResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## searchSingleObject

**Service** To search for a Design object based on the file name of the file attached to id, optionally refining the search to the given file category and/or Design subclass.

**Usage** The request does not need to include any agile objects, however, the following three parameters should be used in the first set of general parameters: 'file-name', 'subclass-name' and 'file-category'.

'file-name' is required and should be set to the name of the file to search for. 'subclass-name' is optional and may be used to limit the search to the given subclass of Designs and 'file-category' is also optional and may be used to limit the search based on the value of the File Category attribute in the FILES table of the Design.

The service returns an AgileBusinessObjectType in the response object, representing the first Design found through the search. If no Design is found to match the search, then a response with no AgileBusinessObjectType elements will be returned.

**Syntax** `AgileECResponseExtType searchSingleObjectResponseType = agileStub.searchSingleObject(searchSingleObjectRequestType);`

**Special Handling**      **Exceptions:**

1. If the object is not found for the given ID

2. If the object found is not of type Design

### Basic Steps

1. Create the request object AgileECRequestExtType for the searchSingleObject operation.
2. Create a general parameters list of type PropertyListType
3. Add the parameter 'file-name' to the list.
4. Optionally add the parameters 'file-category' and 'subclass-name' to the list.
5. Call the WebService and check if an AgileBusinessObjectType is included in the response.

### Sample Code Java

```

try {
    setupServerLogin();
    String fileName = getStringProperty(DSIGN FILE NAME);
    String fileCategory = getStringProperty(DSIGN FILE CATEGORY);
    String subClass = getStringProperty(DSIGN SUBCLASS);
    AgileECRequestExtType searchSingleObjectRequestType = new
AgileECRequestExtType();
    PropertyListType[] generalParameters = new PropertyListType[2];
    generalParameters[0] = new PropertyListType();
    PropertyType[] props = new PropertyType[3];
    props[0] = new PropertyType("file-name", fileName);
    props[1] = new PropertyType("file-category", fileCategory);
    props[2] = new PropertyType("subclass-name", subClass);
    generalParameters[0].setProperty(props);
    searchSingleObjectRequestType.setGeneralParameters(generalParameters);
    AgileECResponseExtType searchSingleObjectResponseType =
agileStub.searchSingleObject(searchSingleObjectRequestType);
    System.out.println("STATUS CODE: " +
searchSingleObjectResponseType.getStatusCode());
    if
(!searchSingleObjectResponseType.getStatusCode().toString().equals(ResponseStatusC
ode.SUCCESS.getValue())) {
        AgileExceptionListType[] agileExceptionListType =
searchSingleObjectResponseType.getExceptions();
        for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
            for (AgileExceptionType exception :
exceptionListType.getException()) {
                System.out.println(exception.getMessage());
            }
        }
    } else { // If the object, was successfully retrieved, then examine its
        AgileBusinessObjectType[] agileResponseObjects =
searchSingleObjectResponseType.getAgileObject();
        if (agileResponseObjects != null) {
            for (AgileBusinessObjectType agileObject : agileResponseObjects) {
                ObjectIdentifierType objectIdentifier =
agileObject.getObjectIdentifier();
                System.out.println("Agile Object Class ID: " +
objectIdentifier.getClassId());
                System.out.println("Agile Object Class Name: " +
objectIdentifier.getClassName());
                System.out.println("Agile Object Class Display Name: " +
objectIdentifier.getClassDisplayName());
                System.out.println("Agile Object Object ID: " +
objectIdentifier.getObjectId());
                System.out.println("Agile Object Object Name: " +
objectIdentifier.getObjectName());
                PropertyListType options = agileObject.getOptions();
                for (PropertyType property : options.getProperty()) {
                    System.out.println("Option Property Name: " +
property.getPropertyName());
                    System.out.println("Option Property Value: " +
property.getPropertyValue());
                }
                for (MessageElement node : agileObject.get_any()) {

```



```

        </objectIdentifier>
        <options>
          <id xsi:nil="true" />
          <property>
            <propertyName>OPTION IS PENDING</propertyName>
            <propertyValue>>false</propertyValue>
          </property>
          <property>
            <propertyName>OPTION HAS SEND PRIVILEGE</propertyName>
            <propertyValue>>false</propertyValue>
          </property>
          <property>
            <propertyName>OPTION HAS COMMENT PRIVELEGE</propertyName>
            <propertyValue>>true</propertyValue>
          </property>
          <property>
            <propertyName>OPTION APPROVE REJECT PRIVELEGE</propertyName>
            <propertyValue>>true</propertyValue>
          </property>
        </options>
        <Version xsi:type="xs:integer"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
          attributeId="7951">2</Version>
        <Number xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
          attributeId="6173">DESIGN00001</Number>
        <Type xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
          attributeId="6175">
          <selection>
            <id>2000008310</id>
            <apiName>DESIGN</apiName>
            <value>Design</value>
          </selection>
        </Type>
        <lifecyclePhase
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
          attributeId="6390" />
        <Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6174"></Description>
        <lastModifiedDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6178">2010-08-
11T11:53:17.000Z
        </lastModifiedDate>
        <checkoutStatus
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
          attributeId="6389">
          <selection>
            <id>1</id>
            <apiName>CHECKED IN</apiName>
            <value>Checked In</value>
          </selection>
        </checkoutStatus>
        <checkoutUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
          attributeId="6180" />
        <checkoutDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6184" />
        <checkoutLocation xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6183"></checkoutLocation>
        <checkinDate xsi:type="xs:date"

```

```

xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6388">2009-01-
    </checkinDate>
    <createDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="6177">2009-01-
20T14:26:59.000Z</createDate>
    <Label xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008316"></Label>
    <componentType
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008317" />
    <Thumbnail xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008554" />
    <Revision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008685"></Revision>
    <revisionDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000008686" />
    <checkinUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008717">
    <selection>
        <id>704</id>
        <apiName xsi:nil="true" />
        <value>Administrator, Admin
(admin)</value>
    </selection>
    </checkinUser>
    <itemChangeStatus xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000009487"></itemChangeStatus>
    <createUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="1420">
    <selection>
        <id>704</id>
        <apiName xsi:nil="true" />
        <value>Administrator, Admin
(admin)</value>
    </selection>
    </createUser>
    <drawnBy xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2020" />
    <checkedBy xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2021" />
    <designSystem xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2007"></designSystem>
    <CADFilename xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2017"></CADFilename>
    <CADOldFilename xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2018"></CADOldFilename>
    <designSystemIdentifier xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2008"></designSystemIdentifier>
    <Filetype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2009"></Filetype>
    <Subtype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2010"></Subtype>
    <Family xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"

```

```

        <Variant xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2011"></Variant>
        <drawingName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2012"></drawingName>
        <frameID xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2013"></frameID>
        <nameFormat xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2014"></nameFormat>
        <projectName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2015"></projectName>
        <localFlag xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2016"></localFlag>
        <partNumber xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1301"></partNumber>
        <filePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1302"></filePath>
        <oldFilePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2019"></oldFilePath>
        <modelType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1331"></modelType>
        <modelReference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1332"></modelReference>
        <linkType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1333"></linkType>
        <linkReference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1334"></linkReference>
        <TDMVersion xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1335"></TDMVersion>
        <TDMRevision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1307"></TDMRevision>
        <MultiList01 xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="1308"></MultiList01>
        <AgileObject
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2090" />
    </res>
</searchSingleObjectResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## retrieveDesignStructure

**Service** To read the data about a given Design object, including the contents of the Files, Structure and Where Used tables.

**Usage** The request should contain one AgileObject for which to retrieve the complete structure. The object will be identified by the subclass and number provided in the ObjectIdentified and, optionally, a Version element to specify a version other than the latest one.

The service returns an AgileBusinessObjectType for Design in the response object.

**Syntax** `AgileECResponseExtType retrieveDesignStructureResponseType = agileStub.retrieveDesignStructure(retrieveDesignStructureRequestType)`

**Special Handling**      **Exceptions:**

1. If the object is not found for the given ID
2. If the object found is not of type Design
3. If the object has no Object identifier

**Basic Steps**

1. Create the request object `AgileECRequestExtType` for the `retrieveDesignStructure` operation.
2. Create an array of `AgileBusinessObjectType` elements
3. Create an instance of an `AgileBusinessObjectType` and set it as the first element in the array.
4. Set the object identifier to contain the appropriate `classId`, subclass and number.
5. Optionally add a Version element with an attribute called "attributeId" with value "7951", which corresponds to the `BaseID` of the `TitleBlock.Version` attribute for Designs.
6. Set the value of this element to the desired Design version.
7. Call the `WebService` and check if an `AgileBusinessObjectType` is included in the response, scan through its contents.

**Sample Code** Java

```
try {
    setupServerLogin();
    Integer classId = getIntegerProperty(DSIGN CLASS ID);
    String subClass = getStringProperty(DSIGN SUBCLASS);
    String number = getStringProperty(DSIGN NUMBER);
    String version = getStringProperty(DSIGN VERSION);
    AgileECRequestExtType retrieveDesignStructureRequestType = new
AgileECRequestExtType();
    AgileBusinessObjectType[] agileRequestObjects = new
AgileBusinessObjectType[1];
    agileRequestObjects[0] = new AgileBusinessObjectType();
    agileRequestObjects[0].setObjectIdentifier(new
ObjectIdentifierType(classId, subClass, null, null, number, version));
    // Add the version as an additional element MessageElement[] anyElement =
new MessageElement[1];
    anyElement[0] = new MessageElement();
    anyElement[0].setName("Version");
    anyElement[0].addAttribute(null, "attributeId", "7951"); //
FileFolderConstants.ATT TITLE BLOCK VERSION
    anyElement[0].setValue(version);
    agileRequestObjects[0].set any(anyElement);
    retrieveDesignStructureRequestType.setAgileObject(agileRequestObjects);
    AgileECResponseExtType retrieveDesignStructureResponseType =
agileStub.retrieveDesignStructure(retrieveDesignStructureRequestType);
    System.out.println("STATUS CODE: " +
retrieveDesignStructureResponseType.getStatusCode());
    if
(!retrieveDesignStructureResponseType.getStatusCode().toString().equals(ResponseSt
atusCode.SUCCESS.getValue())) {
```

```

        AgileExceptionListType[] agileExceptionListType =
        .....
        for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
            for (AgileExceptionType exception :
exceptionListType.getExceptionList()) {
                System.out.println(exception.getMessage());
            }
        }
    } else { // If the object, was successfully retrieved, then examine its
content
        AgileBusinessObjectType[] agileResponseObjects =
retrieveDesignStructureResponseType.getAgileObject();
        if (agileResponseObjects != null) {
            for (AgileBusinessObjectType agileObject : agileResponseObjects) {
                ObjectIdentifierType objectIdentifier =
agileObject.getObjectIdentifier();
                System.out.println("Agile Object Class ID: " +
objectIdentifier.getClassId());
                System.out.println("Agile Object Class Name: " +
objectIdentifier.getClassName());
                System.out.println("Agile Object Class Display Name: " +
objectIdentifier.getClassDisplayName());
                System.out.println("Agile Object Object ID: " +
objectIdentifier.getObjectId());
                System.out.println("Agile Object Object Name: " +
objectIdentifier.getObjectName());
                PropertyListType options = agileObject.getOptions();
                if (options != null) {
                    for (PropertyType property : options.getProperty()) {
property.getPropertyName();
                        System.out.println("Option Property Name: " +
property.getPropertyValue());
                    }
                }
                AgileTableType[] tables = agileObject.getTable();
                for (AgileTableType table : tables) {
                    System.out.println("Table Name: " +
table.getTableIdentifier().getTableName());
                    AgileRowType[] rows = table.getRow();
                    int rowNo = 0;
                    if (rows != null) {
                        for (AgileRowType row : rows) {
                            System.out.println("Table Row Number " + rowNo++);
                            for (MessageElement node : row.get any()) {
                                System.out.println("** " + node.getLocalName() + ": " +
node.getValue());
                                Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                                while (nodeIt.hasNext()) {
                                    Node selectionNode = nodeIt.next();
                                    if (selectionNode instanceof MessageElement) {
                                        MessageElement element = (MessageElement)
selectionNode;
                                        Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();
                                        while (subNodeIt.hasNext()) {
                                            MessageElement subNode = subNodeIt.next();
                                            System.out.println("*** Selection " +
subNode.getLocalName() + ": " + subNode.getValue());
                                        }
                                    }
                                }
                            }
                        }
                    }
                }
                for (MessageElement node : agileObject.get any()) {
                    System.out.println("Agile Object " + node.getLocalName() + ":
" + node.getValue());
                    Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                    while (nodeIt.hasNext()) {
                        Node selectionNode = nodeIt.next();
                        if (selectionNode instanceof MessageElement) {
                            MessageElement element = (MessageElement)
selectionNode;
                            Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();
                            while (subNodeIt.hasNext()) {

```



```

xmlns:xs="http://www.w3.org/2001/XMLSchema"
<fileSize xsi:type="xs:double"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="6148">362496.0</fileSize>
  <fileType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="6305">SLDASM</fileType>
  <filePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="6304"></filePath>
  <lastViewDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="6176">2010-08-11T11:38:44.000Z
  </lastViewDate>
  <fileCategory xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008509">
  <selection>
    <id>1</id>
    <apiName>SOURCE</apiName>
    <value>Source</value>
  </selection>
  </fileCategory>
  <documentText xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="4684"></documentText>
  <checkoutLocation xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="2000007045"></checkoutLocation>
  <masterThumbnail xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008560" />
  <FileID xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    displayName="FileID">6288108</FileID>
  </row>
</table>
<table>
  <tableIdentifier>
    <tableId>2000008318</tableId>
    <tableName>Structure</tableName>
    <tableDisplayName>Structure</tableDisplayName>
  </tableIdentifier>
  <row rowId="0">
    <Attachments xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
      attributeId="2000008326">true
    </Attachments>
    <Linked xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
      attributeId="2000008327">false</Linked>
    <checkedOut xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
      attributeId="2000008328">true
    </checkedOut>
    <Thumbnail xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008556" />
  <designType xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008319">
  <selection>
    <id>2000008310</id>
    <apiName>DESIGN</apiName>
    <value>Design</value>
  </selection>
  </designType>
  <Number xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008320">DESIGN09475.SLDASM</Number>
  <Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008321"></Description>
  <lifeCyclePhase xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008322" />

```

```

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  attributeId="2000008329"></Label>
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  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008330" />
  <structureMultiText01 xsi:type="xs:string"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008365"></structureMultiText01>
  <modelName xsi:type="xs:string"
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01\asm0001.sldasm
  </modelName>
  <Identifier xsi:type="xs:string"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008377">CAX-SW
  </Identifier>
  <Component xsi:type="xs:string"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008378"></Component>
  <Reference xsi:type="xs:string"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008379"></Reference>
  <Configuration xsi:type="xs:string"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008380">Default
  </Configuration>
  <revision xsi:type="xs:string"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
    attributeId="2000009479"></revision>
  <revisionDate xsi:type="xs:date"
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    attributeId="2000009480" />
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    attributeId="2000008326">true
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    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
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  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008556" />
  <designType xsi:type="common:AgileListEntryType"
  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008319">
  <selection>
  <id>2000008310</id>
  <apiName>DESIGN</apiName>
  <value>Design</value>
  </selection>
  </designType>
  <Number xsi:type="xs:string"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008320">DESIGN09480.SLDASM</Number>
  <Description xsi:type="xs:string"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008321"></Description>
  <lifeCyclePhase xsi:type="common:AgileListEntryType"
  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008322" />

```

```

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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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01\mot bkt assy.sldasm
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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attributeId="2000008379"></Reference>
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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</Configuration>
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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<id>8154</id>
<apiName>48366SLDPRT</apiName>
</selection>
<value>com.agile.api.pc.attachment.ThumbnailID@16546ce</value>
</Thumbnail>
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xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2000008319">
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<value>Design</value>
</selection>
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```

```

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attributeId="2000008321"></Description>
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        attributeId="2000008330" />
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008365"></structureMultiText01>
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008376">C:\AgilePLM\SW-Assembly-
01\48366.sldprt
        </modelName>
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008377">CAX-SW
        </Identifier>
        <Component xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008378"></Component>
        <Reference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008379"></Reference>
        <Configuration xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008380">Default
        </Configuration>
        <revision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000009479"></revision>
        <revisionDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000009480" />
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        <row rowId="0">
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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        <selection>
        <id>8157</id>
        <apiName>48364SLDPRT</apiName>
        </selection>
        </Thumbnail>
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xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008319">
        <selection>
        <id>2000008310</id>

```

```

                <value>Design</value>
            </selection>
        </designType>
        <Number xsi:type="xs:string"
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        <Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008321"></Description>
        <lifeCyclePhase xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008322" />
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
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        <structureMultiText01 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008378"></Component>
        <Reference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008379"></Reference>
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
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        </Configuration>
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000009479"></revision>
        <revisionDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000009480" />
    </row>
</table>
<table>
    <tableIdentifier>
        <tableId>2000008495</tableId>
        <tableName>Where Used - Design</tableName>
        <tableDisplayName>Where Used - Design</tableDisplayName>
    </tableIdentifier>
</table>
<table>
    <tableIdentifier>
        <tableId>6149</tableId>
        <tableName>Where Used - Attachment</tableName>
        <tableDisplayName>Where Used - Attachment</tableDisplayName>
    </tableIdentifier>
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xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008557" />
        <Type xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"

```

```

        </selection>
        <id>10141</id>
        <apiName>PART</apiName>
        <value>Part</value>
    </selection>
</Type>
<numberName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6299">P00764
</numberName>
<Rev xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6302">Introductory</Rev>
<Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6300"></Description>
<lifecycleStatus xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6301">
<selection>
<id>976</id>
<apiName>PRELIMINARY</apiName>
<value>Preliminary</value>
</selection>
</lifecycleStatus>
</row>
</table>
<Number xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6173">DESIGN09483.SLDASM</Number>
<Type xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6175">
<selection>
<id>2000008310</id>
<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</Type>
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attributeId="6390" />
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6174"></Description>
<Version xsi:type="xs:integer"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="7951">1</Version>
<lastModifiedDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6178">2010-08-18T13:52:58.000Z
</lastModifiedDate>
<checkoutStatus xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6389">
<selection>
<id>1</id>
<apiName>CHECKED IN</apiName>
<value>Checked In</value>
</selection>
</checkoutStatus>
<checkoutUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6180" />
<checkoutDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6184"
/>
<checkoutLocation xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6183"></checkoutLocation>
<checkinDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6388">2010-08-11T11:38:54.000Z
</checkinDate>

```

```

<createDate xsi:type="xs:date"
  attributeId="6177">2010-08-11T08:44:43.000Z</createDate>
<Label xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2000008316"></Label>
  <componentType xsi:type="common:AgileListEntryType"
  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008317" />
  <Thumbnail xsi:type="common:AgileListEntryType"
  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008554" />
  <Revision xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2000008685">- 1</Revision>
  <revisionDate xsi:type="xs:date"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2000008686" />
  <checkinUser xsi:type="common:AgileListEntryType"
  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008717">
    <selection>
      <id>704</id>
      <apiName xsi:nil="true" />
      <value>Administrator, Admin (admin)</value>
    </selection>
  </checkinUser>
  <itemChangeStatus xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2000009487"></itemChangeStatus>
  <createUser xsi:type="common:AgileListEntryType"
  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="1420">
    <selection>
      <id>704</id>
      <apiName xsi:nil="true" />
      <value>Administrator, Admin (admin)</value>
    </selection>
  </createUser>
  <drawnBy xsi:type="common:AgileListEntryType"
  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2020" />
  <checkedBy xsi:type="common:AgileListEntryType"
  xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2021" />
  <designSystem xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2007">SW2009
</designSystem>
  <CADFilename xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2017">botthsg trough 678901234567.SLDASM
</CADFilename>
  <CADOldFilename xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2018"></CADOldFilename>
  <designSystemIdentifier xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2008"></designSystemIdentifier>
  <Filetype xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2009">SLDASM</Filetype>
  <Subtype xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2010"></Subtype>
  <Family xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2011"></Family>
  <Variant xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2012"></Variant>
  <drawingName xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
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```

```

<frameID xsi:type="xs:string"
  attributeId="2014"></frameID>
<nameFormat xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2015"></nameFormat>
<projectName xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2016"></projectName>
<localFlag xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1301"></localFlag>
<partNumber xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1302">DESIGN09483</partNumber>
<filePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2019"></filePath>
<oldFilePath xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1331"></oldFilePath>
<modelType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1332"></modelType>
<modelReference xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1333"></modelReference>
<linkType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1334"></linkType>
<linkReference xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1335"></linkReference>
<TDMVersion xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1307"></TDMVersion>
<TDMRevision xsi:type="xs:string"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="1308"></TDMRevision>
<MultiList01 xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2090" />
</AgileObject>
</res>
</retrieveDesignStructureResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## createUpdateDesignStructure

**Service** To create structure relationships between Design objects that already exist in the PLM system.

**Usage** The request should consist of at least one Agile Object, which would be the top level object of an assembly structure. More than one Agile Object may be present in the request to allow the creation of a multi-level structure, however, when this is the case, the first object in the request should be the only top-level assembly and all other Agile Objects present in the request should be sub-assemblies of its structure.

The structure relation between two Design objects is represented in the request by row elements in the structure table inside the parent AgileObject. This is the table identified with the id 2000008318.

The service returns an array of AgileBusinessObjectType of type Design in the response object.

**Syntax**      `AgileECResponseExtType createUpdateDesignStructureResponseType = agileStub.createUpdateDesignStructure(createUpdateDesignStructureRequestType)`

**Special Handling**      **Exceptions:**

1. If the object is not found for the object in request
2. If the object found is not of type Design

**Basic Steps**

1. Create the request object `AgileECRequestExtType` for the `createUpdateDesignStructure` operation.
2. Create an array of `AgileBusinessObjectType` elements
3. Create an instance of an `AgileBusinessObjectType` and set it as the first element in the array.
4. Set the object identifier to contain the appropriate `classId`, `subclass` and `number`.
5. Optionally add a `Version` element with an attribute called "attributeld" with value "7951", which corresponds to the `BaseID` of the `TitleBlock.Version` attribute for `Designs`.
6. Set the value of this element to the desired `Design` version.
7. Create an array of `AgileTableType` elements and set it as the `tables` element of the `Agile` business object created above.
8. Set the table identifier to contain the table id of the `Structure` table (2000008318).
9. Create an array of `AgileRowType` elements and set it as the `rows` of the table
10. Create as many row elements in the array as components of the agile object need to be created or updated.
11. Set the any elements of the row to an array of `MessageElements` containing at least elements to represent the fields `Structure Number` and `Structure Version`, repeat this step for all components of the `Design`.
12. Call the `WebService` and check if an `AgileBusinessObjectType` is included in the response, scan through its contents.

**Sample Code**      `Java`

```
try {
    setupServerLogin();
    Integer classId = getIntegerProperty(DSIGN CLASS ID);
    String subclass = getStringProperty(DSIGN SUBCLASS);
    String parentNumber = getStringProperty(DSIGN NUMBER);
    String parentVersion = getStringProperty(DSIGN VERSION);
    String firstChildNumber = getStringProperty(FIRST CHILD DESIGN NUMBER);
    String firstChildVersion = getStringProperty(FIRST CHILD DESIGN VERSION);
    String secondChildNumber = getStringProperty(SECOND CHILD DESIGN NUMBER);
    String secondChildVersion =
getStringProperty(SECOND CHILD DESIGN VERSION);
    AgileECRequestExtType createUpdateDesignStructureRequestType = new
AgileECRequestExtType();
```

```

        AgileBusinessObjectType[] agileRequestObjects = new
        agileRequestObjects[0] = new AgileBusinessObjectType();
        agileRequestObjects[0].setObjectIdentifier(new
ObjectIdentifierType(classId, subClass, null, null, parentNumber, null));
        // Add the version for the parent object
        MessageElement[] anyElement = new MessageElement[1];
        anyElement[0] = new MessageElement();
        anyElement[0].setName("Version");
        anyElement[0].addAttribute(null, "attributeId", "7951"); //
FileFolderConstants.ATT TITLE BLOCK VERSION
        anyElement[0].setValue(parentVersion);
        agileRequestObjects[0].set any(anyElement);
        // Define the structure table
        AgileTableType[] parentTables = new AgileTableType[1];
        parentTables[0] = new AgileTableType();
        TableIdentifierType tableIdentifier = new TableIdentifierType();
        tableIdentifier.setTableId(new Integer(2000008318));
        parentTables[0].setTableIdentifier(tableIdentifier);
        // Create two rows of components
        AgileRowType[] rows = new AgileRowType[2];
        // First row
        rows[0] = new AgileRowType();
        MessageElement[] anyElementFirstRow = new MessageElement[2];
        anyElementFirstRow[0] = new MessageElement();
        anyElementFirstRow[0].setName("Number");
        anyElementFirstRow[0].addAttribute(null, "attributeId", "2000008320"); //
FileFolderConstants.ATT STRUCTURE NUMBER
        anyElementFirstRow[0].setValue(firstChildNumber);
        anyElementFirstRow[1] = new MessageElement();
        anyElementFirstRow[1].setName("Version");
        anyElementFirstRow[1].addAttribute(null, "attributeId", "2000008323"); //
FileFolderConstants.ATT STRUCTURE VERSION
        anyElementFirstRow[1].setValue(firstChildVersion);
        rows[0].set any(anyElementFirstRow);
        // Second row
        rows[1] = new AgileRowType();
        MessageElement[] anyElementSecondRow = new MessageElement[2];
        anyElementSecondRow[0] = new MessageElement();
        anyElementSecondRow[0].setName("Number");
        anyElementSecondRow[0].addAttribute(null, "attributeId", "2000008320");
// FileFolderConstants.ATT STRUCTURE NUMBER
        anyElementSecondRow[0].setValue(secondChildNumber);
        anyElementSecondRow[1] = new MessageElement();
        anyElementSecondRow[1].setName("Version");
        anyElementSecondRow[1].addAttribute(null, "attributeId", "2000008323");
// FileFolderConstants.ATT STRUCTURE VERSION
        anyElementSecondRow[1].setValue(secondChildVersion);
        rows[1].set any(anyElementSecondRow);
        parentTables[0].setRow(rows);
        agileRequestObjects[0].setTable(parentTables);

        createUpdateDesignStructureRequestType.setAgileObject(agileRequestObjects);
        AgileECResponseExtType createUpdateDesignStructureResponseType =
        agileStub.createUpdateDesignStructure(createUpdateDesignStructureRequestType);
        System.out.println("STATUS CODE: " +
        createUpdateDesignStructureResponseType.getStatusCode());
        if
        (!createUpdateDesignStructureResponseType.getStatusCode().toString().equals(Respon
seStatusCode.SUCCESS.getValue())) {
            AgileExceptionListType[] agileExceptionListType =
            createUpdateDesignStructureResponseType.getExceptions();
            for (AgileExceptionListType exceptionListType :
            agileExceptionListType) {
                for (AgileExceptionType exception :
            exceptionListType.getException()) {
                    System.out.println(exception.getMessage());
                }
            }
        } else { // If the object, was successfully retrieved, then examine its
            AgileBusinessObjectType[] agileResponseObjects =
            createUpdateDesignStructureResponseType.getAgileObject();
            if (agileResponseObjects != null) {
                for (AgileBusinessObjectType agileObject : agileResponseObjects) {
                    ObjectIdentifierType objectIdentifier =
            agileObject.getObjectIdentifier();
                    System.out.println("Agile Object Class ID: " +
            objectIdentifier.getClassId());
                    System.out.println("Agile Object Class Name: " +
            objectIdentifier.getClassName());
                }
            }
        }
    }

```

```

        System.out.println("Agile Object Class Display Name: " +
        System.out.println("Agile Object Object ID: " +
objectIdentifier.getObjectId());
        System.out.println("Agile Object Object Name: " +
objectIdentifier.getObjectName());
        PropertyListType options = agileObject.getOptions();
        if (options != null) {
            for (PropertyType property : options.getProperty()) {
                System.out.println("Option Property Name: " +
property.getPropertyName());
                System.out.println("Option Property Value: " +
property.getPropertyValue());
            }
        }
        AgileTableType[] tables = agileObject.getTable();
        if (tables != null) {
            for (AgileTableType table : tables) {
                System.out.println("Table Name: " +
table.getTableIdentifier().getTableName());
                rows = table.getRow();
                int rowNo = 0;
                if (rows != null) {
                    for (AgileRowType row : rows) {
                        System.out.println("Table Row Number " + rowNo++);
                        for (MessageElement node : row.get any()) {
                            System.out.println("** " + node.getLocalName() +
": " + node.getValue());
                            Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                            while (nodeIt.hasNext()) {
                                Node selectionNode = nodeIt.next();
                                if (selectionNode instanceof MessageElement) {
                                    MessageElement element = (MessageElement)
selectionNode;
                                    Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();
                                    while (subNodeIt.hasNext()) {
                                        MessageElement subNode =
subNodeIt.next();
                                        System.out.println("*** Selection " +
subNode.getLocalName() + ": " + subNode.getValue());
                                    }
                                }
                            }
                        }
                    }
                }
            }
        }
        for (MessageElement node : agileObject.get any()) {
            System.out.println("Agile Object " + node.getLocalName() + ":
" + node.getValue());
            Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
            while (nodeIt.hasNext()) {
                Node selectionNode = nodeIt.next();
                if (selectionNode instanceof MessageElement) {
                    MessageElement element = (MessageElement)
selectionNode;
                    Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();
                    while (subNodeIt.hasNext()) {
                        MessageElement subNode = subNodeIt.next();
                        System.out.println("*** Selection " +
subNode.getLocalName() + ": " + subNode.getValue());
                    }
                }
            }
        }
        } else {
            System.out.println("No results!");
        }
    }
}

```

**Sample Code SOAP**

```

==== Request ====
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<soapenv:Body>
  <createUpdateDesignStructure
    xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
    <req xmlns="">
      <AgileObject>
        <objectIdentifier>
          <classId>2000008310</classId>
          <className>Design</className>
          <objectId xsi:nil="true" />
          <objectName>DESIGN09496</objectName>
        </objectIdentifier>
        <table>
          <tableIdentifier>
            <tableId>2000008318</tableId>
            <tableName xsi:nil="true" />
          </tableIdentifier>
          <row rowId="0">
            <Number
attributeId="2000008320">DESIGN09497</Number>
            <Version
attributeId="2000008323">1</Version>
          </row>
          <row rowId="0">
            <Number
attributeId="2000008320">DESIGN09498</Number>
            <Version
attributeId="2000008323">1</Version>
          </row>
        </table>
        <Version attributeId="7951">1</Version>
      </AgileObject>
    </req>
  </createUpdateDesignStructure>
</soapenv:Body>
</soapenv:Envelope>

==== Response ====

<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<soapenv:Body>
  <createUpdateDesignStructureResponse
    xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
    <res xmlns="">
      <messageId xsi:nil="true" />
      <messageName xsi:nil="true" />
      <statusCode>SUCCESS</statusCode>
      <AgileObject>
        <objectIdentifier>
          <classId>2000008310</classId>
          <className>Design</className>
        </objectIdentifier>
        <classDisplayName>Design</classDisplayName>
        <objectId>6289448</objectId>
        <objectName>DESIGN09497</objectName>
        </objectIdentifier>
        <options>
          <id xsi:nil="true" />
          <property>
            <propertyName>OPTION IS PENDING</propertyName>
            <propertyValue>>false</propertyValue>
          </property>
          <property>
            <propertyName>OPTION HAS SEND PRIVILEGE</propertyName>
            <propertyValue>>false</propertyValue>
          </property>
          <property>
            <propertyName>OPTION_HAS_COMMENT_PRIVILEGE</propertyName>

```

```

</property>
</property>
<propertyName>OPTION APPROVE REJECT PRIVELEGE</propertyName>
<propertyValue>>true</propertyValue>
</property>
</options>
<Version xsi:type="xs:integer"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="7951">1</Version>
<Number xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6173">DESIGN09497</Number>
<Type xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6175">
<selection>
<id>2000008310</id>
<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</Type>
<lifecyclePhase
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6390" />
<Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6174"></Description>
<lastModifiedDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6178">2010-08-
19T08:21:55.000Z
</lastModifiedDate>
<checkoutStatus
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6389">
<selection>
<id>0</id>
<apiName>CHECKED OUT</apiName>
<value>Checked Out</value>
</selection>
</checkoutStatus>
<checkoutUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6180">
<selection>
<id>704</id>
<apiName xsi:nil="true" />
<value>Administrator, Admin
(admin)</value>
</selection>
</checkoutUser>
<checkoutDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6184">2010-08-
19T11:19:19.000Z
</checkoutDate>
<checkoutLocation xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6183"></checkoutLocation>
<checkinDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6388">2010-08-
19T08:21:55.000Z
</checkinDate>
<createDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6177">2010-08-
19T08:21:55.000Z</createDate>
<Label xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008316"></Label>

```

```

...
<componentType
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008317" />
  <Thumbnail xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008554" />
  <Revision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2000008685"></Revision>
  <revisionDate xsi:type="xs:date"

xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000008686" />
  <checkinUser xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008717" />
  <itemChangeStatus xsi:type="xs:string"

xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000009487"></itemChangeStatus>
  <createUser xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="1420">
  <selection>
    <id>704</id>
    <apiName xsi:nil="true" />
    <value>Administrator, Admin
(admin)</value>
  </selection>
  </createUser>
  <drawnBy xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2020" />
  <checkedBy xsi:type="common:AgileListEntryType"

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2021" />
  <designSystem xsi:type="xs:string"

xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2007"></designSystem>
  <CADFilename xsi:type="xs:string"

xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2017"></CADFilename>
  <CADOldFilename xsi:type="xs:string"

xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2018"></CADOldFilename>
  <designSystemIdentifier xsi:type="xs:string"

xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2008"></designSystemIdentifier>
  <Filetype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2009"></Filetype>
  <Subtype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2010"></Subtype>
  <Family xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2011"></Family>
  <Variant xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2012"></Variant>
  <drawingName xsi:type="xs:string"

xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2013"></drawingName>
  <frameID xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2014"></frameID>
  <nameFormat xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2015"></nameFormat>
  <projectName xsi:type="xs:string"

xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2016">WebServices
Docu</projectName>

```

```

        <localFlag xsi:type="xs:string"
        attributeId="1301"></localFlag>
        <partNumber xsi:type="xs:string"
        attributeId="1302"></partNumber>
        <filePath xsi:type="xs:string"
        attributeId="2019"></filePath>
        <oldFilePath xsi:type="xs:string"
        attributeId="1331"></oldFilePath>
        <modelType xsi:type="xs:string"
        attributeId="1332"></modelType>
        <modelReference xsi:type="xs:string"
        attributeId="1333"></modelReference>
        <linkType xsi:type="xs:string"
        attributeId="1334"></linkType>
        <linkReference xsi:type="xs:string"
        attributeId="1335"></linkReference>
        <TDMVersion xsi:type="xs:string"
        attributeId="1307"></TDMVersion>
        <TDMRevision xsi:type="xs:string"
        attributeId="1308"></TDMRevision>
        <MultiList01 xsi:type="common:AgileListEntryType"
        attributeId="2090" />
    </AgileObject>
    <AgileObject>
        <objectIdentifier>
            <classId>2000008310</classId>
            <className>Design</className>
        </objectIdentifier>
        <classDisplayName>Design</classDisplayName>
        <objectId>6289454</objectId>
        <objectName>DESIGN09498</objectName>
        </objectIdentifier>
        <options>
            <id xsi:nil="true" />
            <property>
                <propertyName>OPTION IS PENDING</propertyName>
                <propertyValue>>false</propertyValue>
            </property>
            <property>
                <propertyName>OPTION HAS SEND PRIVILEGE</propertyName>
                <propertyValue>>false</propertyValue>
            </property>
            <property>
                <propertyName>OPTION HAS COMMENT PRIVELEGE</propertyName>
                <propertyValue>>true</propertyValue>
            </property>
            <property>
                <propertyName>OPTION APPROVE REJECT PRIVELEGE</propertyName>
                <propertyValue>>true</propertyValue>
            </property>
        </options>
        <Version xsi:type="xs:integer"
        attributeId="7951">1</Version>
        <Number xsi:type="xs:string"
        attributeId="6173">DESIGN09498</Number>
        <Type xsi:type="common:AgileListEntryType"
        attributeId="6175">
    </Type>
</AgileObject>

```

```

                <id>2000008310</id>
                <apiName>DESIGN</apiName>
                <value>Design</value>
            </selection>
        </Type>
        <lifecyclePhase
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="6390" />
        <Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6174"></Description>
        <lastModifiedDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6178">2010-08-
19T08:22:12.000Z
        </lastModifiedDate>
        <checkoutStatus
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="6389">
        <selection>
            <id>0</id>
            <apiName>CHECKED OUT</apiName>
            <value>Checked Out</value>
        </selection>
        </checkoutStatus>
        <checkoutUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="6180">
        <selection>
            <id>704</id>
            <apiName xsi:nil="true" />
            <value>Administrator, Admin
(admin)</value>
        </selection>
        </checkoutUser>
        <checkoutDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6184">2010-08-
19T11:19:35.000Z
        </checkoutDate>
        <checkoutLocation xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6183"></checkoutLocation>
        <checkinDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6388">2010-08-
19T08:22:12.000Z
        </checkinDate>
        <createDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="6177">2010-08-
19T08:22:12.000Z</createDate>
        <Label xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008316"></Label>
        <componentType
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008317" />
        <Thumbnail xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008554" />
        <Revision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2000008685"></Revision>
        <revisionDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000008686" />
        <checkinUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2000008717" />
        <itemChangeStatus xsi:type="xs:string"

```

```

xmlns:xs="http://www.w3.org/2001/XMLSchema"
<createUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="1420">
<selection>
<id>704</id>
<apiName xsi:nil="true" />
<value>Administrator, Admin
(admin)</value>
</selection>
</createUser>
<drawnBy xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2020" />
<checkedBy xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2021" />
<designSystem xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2007"></designSystem>
<CADFilename xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2017"></CADFilename>
<CADOldFilename xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2018"></CADOldFilename>
<designSystemIdentifier xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2008"></designSystemIdentifier>
<Filetype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2009"></Filetype>
<Subtype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2010"></Subtype>
<Family xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2011"></Family>
<Variant xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2012"></Variant>
<drawingName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2013"></drawingName>
<frameID xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2014"></frameID>
<nameFormat xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2015"></nameFormat>
<projectName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2016">WebServices
Docu</projectName>
<localFlag xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1301"></localFlag>
<partNumber xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1302"></partNumber>
<filePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2019"></filePath>
<oldFilePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1331"></oldFilePath>
<modelType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1332"></modelType>
<modelReference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1333"></modelReference>
<linkType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1334"></linkType>

```

```

        </linkReference>
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1335"></linkReference>
        <TDMVersion xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="1307"></TDMVersion>
        <TDMRevision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1308"></TDMRevision>
        <MultiList01 xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                attributeId="2090" />
    </AgileObject>
    <AgileObject>
        <objectIdentifier>
            <classId>2000008310</classId>
            <className>Design</className>
            <objectId xsi:nil="true" />
            <objectName>DESIGN09496</objectName>
        </objectIdentifier>
        <table>
            <tableIdentifier>
                <tableId>2000008318</tableId>
                <tableName xsi:nil="true" />
            </tableIdentifier>
            <row rowId="0">
                <Number xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2000008320">DESIGN09497</Number>
                <Version xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2000008323">1</Version>
                <Attachments xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000008326">>false
                </Attachments>
                <Linked xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2000008327">>false</Linked>
                <checkedOut xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000008328">>true
                </checkedOut>
                <Thumbnail
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                attributeId="2000008556"
                />
                <designType
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                attributeId="2000008319">
                    <selection>
<id>2000008310</id>
                    <apiName>DESIGN</apiName>
                    <value>Design</value>
                    </selection>
                </designType>
                <Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2000008321"></Description>
                <lifeCyclePhase
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                attributeId="2000008322"
                />
                <findNum xsi:type="xs:double"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2000008324">0.0</findNum>

```

```

xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Quantity xsi:type="xs:double"
attributeId="2000008325">1.0</Quantity>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Label xsi:type="xs:string"
attributeId="2000008329"></Label>
xsi:type="common:AgileListEntryType" <componentType
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2000008330"
/>
xsi:type="xs:string" <structureMultiText01
xmlns:xsi="http://www.w3.org/2001/XMLSchema"
attributeId="2000008365"></structureMultiText01>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <modelName xsi:type="xs:string"
attributeId="2000008376"></modelName>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Identifier xsi:type="xs:string"
attributeId="2000008377"></Identifier>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Component xsi:type="xs:string"
attributeId="2000008378"></Component>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Reference xsi:type="xs:string"
attributeId="2000008379"></Reference>
xsi:type="xs:string" <Configuration
xmlns:xsi="http://www.w3.org/2001/XMLSchema"
attributeId="2000008380"></Configuration>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <revision xsi:type="xs:string"
attributeId="2000009479"></revision>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <revisionDate xsi:type="xs:date"
attributeId="2000009480" />
</row>
<row rowId="0">
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Number xsi:type="xs:string"
attributeId="2000008320">DESIGN09498</Number>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Version xsi:type="xs:string"
attributeId="2000008323">1</Version>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Attachments xsi:type="xs:string"
attributeId="2000008326">>false
</Attachments>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <Linked xsi:type="xs:string"
attributeId="2000008327">>false</Linked>
xmlns:xsi="http://www.w3.org/2001/XMLSchema" <checkedOut xsi:type="xs:string"
attributeId="2000008328">true
</checkedOut>
xsi:type="common:AgileListEntryType" <Thumbnail
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2000008556"
/>
xsi:type="common:AgileListEntryType" <designType
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2000008319">
<selection>

```

```

</table>
<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</designType>
<Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008321"></Description>
<lifeCyclePhase
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2000008322"
/>
<findNum xsi:type="xs:double"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008324">0.0</findNum>
<Quantity xsi:type="xs:double"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008325">1.0</Quantity>
<Label xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008329"></Label>
<componentType
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2000008330"
/>
<structureMultiText01
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008365"></structureMultiText01>
<modelName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008376"></modelName>
<Identifier xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000008377"></Identifier>
<Component xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008378"></Component>
<Reference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008379"></Reference>
<Configuration
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008380"></Configuration>
<revision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000009479"></revision>
<revisionDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000009480" />
</row>
</table>
<options>
<id xsi:nil="true" />
<property>
<propertyName>OPTION IS PENDING</propertyName>
<propertyValue>>false</propertyValue>
</property>
</property>
<propertyName>OPTION_HAS_SEND_PRIVILEGE</propertyName>

```

```

</property>
</property>
<propertyName>OPTION HAS COMMENT PRIVELEGE</propertyName>
<propertyValue>>true</propertyValue>
</property>
</property>
<propertyName>OPTION APPROVE REJECT PRIVELEGE</propertyName>
<propertyValue>>true</propertyValue>
</property>
</options>
<Version xsi:type="xs:integer"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="7951">1</Version>
<Number xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6173">DESIGN09496</Number>
<Type xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6175">
<selection>
<id>2000008310</id>
<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</Type>
<lifecyclePhase
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6390" />
<Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6174"></Description>
<lastModifiedDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6178">2010-08-
19T08:21:35.000Z
</lastModifiedDate>
<checkoutStatus
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6389">
<selection>
<id>0</id>
<apiName>CHECKED OUT</apiName>
<value>Checked Out</value>
</selection>
</checkoutStatus>
<checkoutUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="6180">
<selection>
<id>704</id>
<apiName xsi:nil="true" />
<value>Administrator, Admin
(admin)</value>
</selection>
</checkoutUser>
<checkoutDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6184">2010-08-
19T11:18:58.000Z
</checkoutDate>
<checkoutLocation xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6183"></checkoutLocation>
<checkinDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6388">2010-08-
19T08:21:34.000Z
</checkinDate>

```

```

...xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6177">2010-08-
19T08:21:31.000Z</createDate>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2000008316"></Label>
  componentType
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008317" />
  Thumbnail xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008554" />
  Revision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2000008685"></Revision>
  revisionDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000008686" />
  checkinUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2000008717" />
  itemChangeStatus xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000009487"></itemChangeStatus>
  createUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="1420">
  selection>
    id>704</id>
    apiName xsi:nil="true" />
    value>Administrator, Admin
(admin)</value>
  </selection>
</createUser>
  drawnBy xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2020" />
  checkedBy xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
  attributeId="2021" />
  designSystem xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2007"></designSystem>
  CADFilename xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2017"></CADFilename>
  CADOldFilename xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2018"></CADOldFilename>
  designSystemIdentifier xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2008"></designSystemIdentifier>
  filetype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2009"></Filetype>
  Subtype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2010"></Subtype>
  Family xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2011"></Family>
  Variant xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2012"></Variant>
  drawingName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2013"></drawingName>
  frameID xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeId="2014"></frameID>

```

```

        <nameFormat xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2015"></nameFormat>
        <projectName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2016">WebServices
        Docu</projectName>
        <localFlag xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1301"></localFlag>
        <partNumber xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1302"></partNumber>
        <filePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2019"></filePath>
        <oldFilePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1331"></oldFilePath>
        <modelType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1332"></modelType>
        <modelReference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1333"></modelReference>
        <linkType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1334"></linkType>
        <linkReference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1335"></linkReference>
        <TDMVersion xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1307"></TDMVersion>
        <TDMRevision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1308"></TDMRevision>
        <MultiList01 xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2090" />
    </AgileObject>
</res>
</createUpdateDesignStructureResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## createBOM

**Service** To create BOM relationships between Part objects that already exist in the PLM system.

**Usage** The request should consist of at least one Agile Object, which would be the top level object of a Part assembly structure. More than one Agile Object may be present in the request to allow the creation of a multi-level structure, however, when this is the case, the first object in the request should be the only top-level assembly and all other Agile Objects present in the request should be sub-assemblies of its structure.

The BOM relation between two Part objects is represented in the request by row elements in the BOM table inside the parent AgileObject. This is the table identified with the id 803.

The service returns an array of AgileBusinessObjectType of type Part in the response object.

**Syntax** AgileECResponseExtType createBOMResponseType = agileStub.createBOM(createBOMRequestType)

**Special Handling      Exceptions:**

1. If the object is not found for the given ID
2. If the object found is not of type Part

**Basic Steps**

1. Create the request object AgileECRequestExtType for the createBOM operation.
2. Create an array of AgileBusinessObjectType elements
3. Create an instance of an AgileBusinessObjectType and set it as the first element in the array.
4. Set the object identifier to contain the appropriate classId, subclass and number.
5. Create an array of AgileTableType elements and set it as the tables element of the Agile business object created above.
6. Set the table identifier to contain the table id of the BOM table (803).
7. Create an array of AgileRowType elements and set it as the rows of the table
8. Create as many row elements in the array as components of the agile object need to be created or updated.
9. Set the any elements of the row to an array of MessageElements containing at least one element to represent the field 'BOM.Item Number', repeat this step for all components of the Part.
10. Call the WebService and check if an AgileBusinessObjectType is included in the response, scan through its contents.

**Sample Code    Java**

```

try {
    setupServerLogin();
    Integer classId = getIntegerProperty(PART CLASS ID);
    String subclass = getStringProperty(PART SUBCLASS);
    String parentNumber = getStringProperty(PART NUMBER);
    String firstChildNumber = getStringProperty(FIRST CHILD PART NUMBER);
    String secondChildNumber = getStringProperty(SECOND CHILD PART NUMBER);
    AgileECRequestExtType createBOMRequestType = new AgileECRequestExtType();
    AgileBusinessObjectType[] agileRequestObjects = new
AgileBusinessObjectType[1];
    agileRequestObjects[0] = new AgileBusinessObjectType();
    agileRequestObjects[0].setObjectIdentifier(new
ObjectIdentifierType(classId, subclass, null, null, parentNumber, null));
    // Define the BOM table
    AgileTableType[] parentTables = new AgileTableType[1];
    parentTables[0] = new AgileTableType();
    TableIdentifierType tableIdentifier = new TableIdentifierType();
    tableIdentifier.setTableId(new Integer(803));
    parentTables[0].setTableIdentifier(tableIdentifier);
    // Create two rows of components
    AgileRowType[] rows = new AgileRowType[2];
    // First row
    rows[0] = new AgileRowType();
    MessageElement[] anyElementFirstRow = new MessageElement[1];
    anyElementFirstRow[0] = new MessageElement();
    anyElementFirstRow[0].setName("Number");
    anyElementFirstRow[0].addAttribute(null, "attributeId", "1011"); //
ItemConstants.ATT_BOM_ITEM_NUMBER

```

```

// Element First Row [0] set Value (firstChildNumber)
rows[0].set_any(anyElementFirstRow);
// Second row
rows[1] = new AgileRowType();
MessageElement[] anyElementSecondRow = new MessageElement[1];
anyElementSecondRow[0] = new MessageElement();
anyElementSecondRow[0].setName("Number");
anyElementSecondRow[0].addAttribute(null, "attributeId", "1011"); //
ItemConstants.ATT_BOM_ITEM_NUMBER
anyElementSecondRow[0].setValue(secondChildNumber);
rows[1].set_any(anyElementSecondRow);
parentTables[0].setRow(rows);
agileRequestObjects[0].setTable(parentTables);
createBOMRequestType.setAgileObject(agileRequestObjects);
AgileECResponseExtType createBOMResponseType =
agileStub.createBOM(createBOMRequestType);
System.out.println("STATUS CODE: " +
createBOMResponseType.getStatusCode());
if
(!createBOMResponseType.getStatusCode().toString().equals(ResponseStatusCode.SUCCE
SS.getValue())) {
    AgileExceptionListType[] agileExceptionListType =
createBOMResponseType.getExceptions();
    for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
        for (AgileExceptionType exception :
exceptionListType.getException()) {
            System.out.println(exception.getMessage());
        }
    }
} else { // If the object, was successfully retrieved, then examine its
    AgileBusinessObjectType[] agileResponseObjects =
createBOMResponseType.getAgileObject();
    if (agileResponseObjects != null) {
        for (AgileBusinessObjectType agileObject : agileResponseObjects) {
            ObjectIdentifierType objectIdentifier =
agileObject.getObjectIdentifier();
            if (objectIdentifier == null) {
                continue;
            }
            System.out.println("Agile Object Class ID: " +
objectIdentifier.getClassId());
            System.out.println("Agile Object Class Name: " +
objectIdentifier.getClassName());
            System.out.println("Agile Object Class Display Name: " +
objectIdentifier.getClassDisplayName());
            System.out.println("Agile Object Object ID: " +
objectIdentifier.getObjectId());
            System.out.println("Agile Object Object Name: " +
objectIdentifier.getObjectName());
            PropertyListType options = agileObject.getOptions();
            if (options != null) {
                for (PropertyType property : options.getProperty()) {
                    System.out.println("Option Property Name: " +
property.getPropertyName());
                    System.out.println("Option Property Value: " +
property.getPropertyValue());
                }
            }
            AgileTableType[] tables = agileObject.getTable();
            if (tables != null) {
                for (AgileTableType table : tables) {
                    System.out.println("Table Name: " +
table.getTableIdentifier().getTableName());
                    rows = table.getRow();
                    int rowNo = 0;
                    if (rows != null) {
                        for (AgileRowType row : rows) {
                            System.out.println("Table Row Number " + rowNo++);
                            for (MessageElement node : row.get_any()) {
                                System.out.println("* " + node.getLocalName() +
": " + node.getValue());
                                Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                                while (nodeIt.hasNext()) {
                                    Node selectionNode = nodeIt.next();
                                    if (selectionNode instanceof MessageElement) {
                                        MessageElement element = (MessageElement)
selectionNode;
                                        Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();

```



```

<?xml version="1.0" encoding="utf-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <createBOMResponse xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
      <res xmlns="">
        <messageId xsi:nil="true" />
        <messageName xsi:nil="true" />
        <statusCode>SUCCESS</statusCode>
        <AgileObject xsi:nil="true" />
        <AgileObject xsi:nil="true" />
        <AgileObject>
          <objectIdentifier>
            <classId>10141</classId>
            <className>Part</className>
            <objectId xsi:nil="true" />
            <objectName>P00776</objectName>
          </objectIdentifier>
          <table>
            <tableIdentifier xsi:nil="true" />
            <row rowId="0">
              <Number xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
attributeId="1011">P00777</Number>
              <attachmentsImage
xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" attributeId="12630">>false
              </attachmentsImage>
              <manufacturerImage
xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" attributeId="12631">>false
              </manufacturerImage>
              <pendingChangesImage
xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" attributeId="12632">>false
              </pendingChangesImage>
              <hasQualityImage
xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" attributeId="7954">>false
              </hasQualityImage>
              <priceImage xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" attributeId="200007815">>false
              </priceImage>
              <pendingDeclarationsImage
xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" attributeId="200001130">>false
              </pendingDeclarationsImage>
              <Thumbnail
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
              attributeId="200008550"
              />
              <itemDescription
xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" attributeId="1020"></itemDescription>
              <itemRev xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
              attributeId="1021">
              </itemRev>
              <Qty xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
              attributeId="1035">1</Qty>
              <findNum xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
              attributeId="1012">0</findNum>
              <refDes xsi:type="xs:string"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
              attributeId="1019" />
            </row>
          </table>
        </AgileObject>
      </res>
    </createBOMResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

```

...
<Sites
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="12205" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<BOMNotes xsi:type="xs:string"
attributeId="1036"></BOMNotes>
<summaryCompliance
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2000011100"
/>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<BOMMultiText30
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1341"></BOMMultiText30>
<BOMMultiText31
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1342"></BOMMultiText31>
<BOMText01 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2175"></BOMText01>
<BOMText02 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2176"></BOMText02>
<BOMText03 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2177"></BOMText03>
<BOMText04 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2178"></BOMText04>
</row>
<row rowId="0">
<Number xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1011">P00778</Number>
<attachmentsImage
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="12630">>false
</attachmentsImage>
<manufacturerImage
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="12631">>false
</manufacturerImage>
<pendingChangesImage
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="12632">>false
</pendingChangesImage>
<hasQualityImage
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="7954">>false
</hasQualityImage>
<priceImage xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="200007815">>false
</priceImage>
<pendingDeclarationsImage
xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000011130">>false
</pendingDeclarationsImage>
<Thumbnail
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2000008550"
/>

```

```

...
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1020"></itemDescription>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        <itemRev xsi:type="xs:string"
                attributeId="1021">
</itemRev>
        <Qty xsi:type="xs:string"
                attributeId="1035">1</Qty>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        <findNum xsi:type="xs:string"
                attributeId="1012">0</findNum>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        <refDes xsi:type="xs:string"
                attributeId="1019" />
xsi:type="common:AgileListEntryType"
        <Sites
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                attributeId="12205" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        <BOMNotes xsi:type="xs:string"
                attributeId="1036"></BOMNotes>
xsi:type="common:AgileListEntryType"
        <summaryCompliance
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                attributeId="2000011100"
/>
        <BOMMultiText30
xsi:type="xs:string"
                attributeId="1341"></BOMMultiText30>
        <BOMMultiText31
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="1342"></BOMMultiText31>
        <BOMText01 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2175"></BOMText01>
        <BOMText02 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2176"></BOMText02>
        <BOMText03 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2177"></BOMText03>
        <BOMText04 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="2178"></BOMText04>
        </row>
</table>
        <Rev xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                attributeId="1014">
        <selection>
                <id>0</id>
                <apiName>Rev</apiName>
                <value>Introductory</value>
        </selection>
        </Rev>
        <Number xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                attributeId="1001">P00776</Number>
        <partType xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                attributeId="1081">
        <selection>
                <id>10141</id>
                <apiName>PART</apiName>
                <value>Part</value>
        </selection>

```

```

        </partItem>
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="1084">
        <selection>
            <id>976</id>
            <apiName>PRELIMINARY</apiName>
            <value>Preliminary</value>
        </selection>
        </lifecyclePhase>
        <Description xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1002"></Description>
        <partCategory xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="1082" />
        <Size xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="1068" />
        <productLineS xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="1004" />
        <revIncorpDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1017" />
        <revReleaseDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1016" />
        <effectivityDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="12089" />
        <shippableItem
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000002781">
            <selection>
                <id>0</id>
                <apiName>NO</apiName>
                <value>No</value>
            </selection>
        </shippableItem>
        <excludeFromRollup
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000002859">
            <selection>
                <id>0</id>
                <apiName>NO</apiName>
                <value>No</value>
            </selection>
        </excludeFromRollup>
        <complianceCalculatedDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000004143" />
        <partFamily xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000004416" />
        <Mass xsi:type="common:AgileUnitOfMeasureType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000004612" />
        <overallCompliance
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000004891" />
        <Thumbnail xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000008549" />
        <ModelRef xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="2000009494"></ModelRef>

```

```

<Text11 xsi:type="xs:string"
attributeId="1301"></Text11>
<Text12 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1302"></Text12>
<Text15 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1305"></Text15>
<Text16 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1306"></Text16>
<Text18 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1308"></Text18>
<Text23 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="1313"></Text23>
<Text01 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2007"></Text01>
<Text02 xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2008"></Text02>
<List04 xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
attributeId="2023" />
<myPublishedFrom xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2623310"></myPublishedFrom>
</AgileObject>
</res>
</createBOMResponse>
</soapenv:Body>
</soapenv:Envelope>

```

## getDesignWhereUsed

**Service** To retrieve the Where Used in Design information of a given Design object.

**Usage** The request must contain a single Agile Object to represent the Design for which the where used in Design information should be retrieved. All the data to identify the Design object should be present in the ObjectIdentifier, including class-id, subclass, number and version. The service will additionally support two properties in the first set of general parameters: TARGET-DESIGN-VERSION and WHERE-USED-DESIGN-VERSION. The property TARGET-DESIGN-VERSION may have the values "LATEST", "SPECIFIED" or "ALL", whereas the property WHERE-USED-DESIGN-VERSION may have the values "LATEST" or "ALL"

The property TARGET-DESIGN-VERSION refers to the given Design in the request, and indicates whether the Where Used information should be gathered for the given version (SPECIFIED), for the latest version (LATEST) or for all the versions of the Design object (ALL). Note that when using LATEST or ALL, any given version in the AgileObject in the request is ignored.

The property WHERE-USED-DESIGN-VERSION refers to the version of the Design objects found in the Where Used table of the target design and indicates that only the latest version of the Design found, where the target Design is used should be returned, or all the versions of the Design found, in which the target Design is used should be returned.

The service returns an array of AgileBusinessObjectType of type Design in the response object.

**Syntax** `AgileECResponseExtType getDesignWhereUsedResponseType = agileStub.getDesignWhereUsed(getDesignWhereUsedRequestType)`

**Special Handling**      **Exceptions:**

1. If the object is not found for the given ID
2. If the object found is not of type Design
3. If the object has no object identifier

**Basic Steps**

1. Create the request object `AgileECRequestExtType` for the `getDesignWhereUsed` operation.
2. Create an array of `AgileBusinessObjectType` elements
3. Create an instance of an `AgileBusinessObjectType` and set it as the first element in the array.
4. Set the object identifier to contain the appropriate `classId`, `subclass`, `number` and `version`.
5. Optionally define an array of `PropertyListType` and set the request's general parameters to this list.
6. In the list, define `PropertyType` elements for the optional properties "TARGET-DESIGN-VERSION" and "WHERE-USED-DESIGN-VERSION".
7. Call the `WebService` and check if an `AgileBusinessObjectType` is included in the response, scan through its contents.

**Sample Code** Java

```

try {
    setupServerLogin();
    Integer classId = getIntegerProperty(DSIGN CLASS ID);
    String subclass = getStringProperty(DSIGN SUBCLASS);
    String number = getStringProperty(DSIGN NUMBER);
    String version = getStringProperty(DSIGN VERSION);
    AgileECRequestExtType getDesignWhereUsedRequestType = new
AgileECRequestExtType();
    PropertyListType[] generalParameters = new PropertyListType[2];
    generalParameters[0] = new PropertyListType();
    PropertyType[] props = new PropertyType[2];
    props[0] = new PropertyType("TARGET-DESIGN-VERSION", "SPECIFIED");
    props[1] = new PropertyType("WHERE-USED-DESIGN-VERSION", "ALL");
    generalParameters[0].setProperty(props);
    getDesignWhereUsedRequestType.setGeneralParameters(generalParameters);
    AgileBusinessObjectType[] agileRequestObjects = new
AgileBusinessObjectType[1];
    agileRequestObjects[0] = new AgileBusinessObjectType();
    agileRequestObjects[0].setObjectIdentifier(new
ObjectIdentifierType(classId, subclass, null, null, number, version));
    getDesignWhereUsedRequestType.setAgileObject(agileRequestObjects);
    AgileECResponseExtType getDesignWhereUsedResponseType =
agileStub.getDesignWhereUsed(getDesignWhereUsedRequestType);
    System.out.println("STATUS CODE: " +
getDesignWhereUsedResponseType.getStatusCode());
    if
(!getDesignWhereUsedResponseType.getStatusCode().toString().equals(ResponseStatusC
ode.SUCCESS.getValue())) {
        AgileExceptionListType[] agileExceptionListType =
getDesignWhereUsedResponseType.getExceptions();

```

```

        for (AgileExceptionListType exceptionListType :
.....
        for (AgileExceptionType exception :
exceptionListType.getException()) {
            System.out.println(exception.getMessage());
        }
    } else {
        AgileBusinessObjectType[] agileResponseObjects =
getDesignWhereUsedResponseType.getAgileObject();
        if (agileResponseObjects != null) {
            for (AgileBusinessObjectType agileObject : agileResponseObjects) {
                ObjectIdentifierType objectIdentifier =
agileObject.getObjectIdentifier();
                System.out.println("Agile Object Class ID: " +
objectIdentifier.getClassId());
                System.out.println("Agile Object Class Name: " +
objectIdentifier.getClassName());
                System.out.println("Agile Object Class Display Name: " +
objectIdentifier.getClassDisplayName());
                System.out.println("Agile Object Object ID: " +
objectIdentifier.getObjectId());
                System.out.println("Agile Object Object Name: " +
objectIdentifier.getObjectName());
                PropertyListType options = agileObject.getOptions();
                if (options != null) {
                    for (PropertyType property : options.getProperty()) {
                        System.out.println("Option Property Name: " +
property.getPropertyName());
                        System.out.println("Option Property Value: " +
property.getPropertyValue());
                    }
                }
                AgileTableType[] tables = agileObject.getTable();
                if (tables != null) {
                    for (AgileTableType table : tables) {
                        System.out.println("Table Name: " +
table.getTableIdentifier().getTableName());
                        AgileRowType[] rows = table.getRow();
                        int rowNo = 0;
                        if (rows != null) {
                            for (AgileRowType row : rows) {
                                System.out.println("Table Row Number " + rowNo++);
                                for (MessageElement node : row.get any()) {
                                    System.out.println("** " + node.getLocalName()
+ ": " + node.getValue());
                                    Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                                    while (nodeIt.hasNext()) {
                                        Node selectionNode = nodeIt.next();
                                        if (selectionNode instanceof
MessageElement) {
                                            MessageElement element =
                                            (MessageElement) selectionNode;
                                            Iterator<MessageElement> subNodeIt =
                                            (Iterator<MessageElement>) element.getChildElements();
                                            while (subNodeIt.hasNext()) {
                                                MessageElement subNode =
                                                subNodeIt.next();
                                                System.out.println("*** Selection "
+ subNode.getLocalName() + ": " + subNode.getValue());
                                            }
                                        }
                                    }
                                }
                            }
                        }
                    }
                }
                for (MessageElement node : agileObject.get any()) {
                    System.out.println("Agile Object " + node.getLocalName() +
": " + node.getValue());
                    Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                    while (nodeIt.hasNext()) {
                        Node selectionNode = nodeIt.next();
                        if (selectionNode instanceof MessageElement) {
                            MessageElement element = (MessageElement)
selectionNode;
                            Iterator<MessageElement> subNodeIt =
                            (Iterator<MessageElement>) element.getChildElements();

```



```

        </property>
    </options>
    <propertyName>OPTION IS PENDING</propertyName>
    <propertyValue>>false</propertyValue>
    </property>
</options>
<propertyName>OPTION HAS SEND PRIVILEGE</propertyName>
<propertyValue>>false</propertyValue>
</property>
</options>
<propertyName>OPTION HAS COMMENT PRIVELEGE</propertyName>
<propertyValue>>true</propertyValue>
</property>
</options>
<propertyName>OPTION APPROVE REJECT PRIVELEGE</propertyName>
<propertyValue>>true</propertyValue>
</property>
</options>
</Version>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    <Version xsi:type="xs:string"
        attributeId="7951"
        displayName="Version">2</Version>
    <Number xsi:type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="6173">DESIGN09436.SLDASM</Number>
    <Type xsi:type="common:AgileListEntryType"
        xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="6175">
        <selection>
            <id>2000008310</id>
            <apiName>DESIGN</apiName>
            <value>Design</value>
        </selection>
    </Type>
    <lifecyclePhase
        xsi:type="common:AgileListEntryType"
        xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="6390" />
    <Description xsi:type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6174"></Description>
    <lastModifiedDate xsi:type="xs:date"
        xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6178">2010-07-
    06T10:33:09.000Z
    </lastModifiedDate>
    <checkoutStatus
        xsi:type="common:AgileListEntryType"
        xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="6389">
        <selection>
            <id>1</id>
            <apiName>CHECKED IN</apiName>
            <value>Checked In</value>
        </selection>
    </checkoutStatus>
    <checkoutUser xsi:type="common:AgileListEntryType"
        xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="6180" />
    <checkoutDate xsi:type="xs:date"
        xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6184" />
    <checkoutLocation xsi:type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6183"></checkoutLocation>
    <checkinDate xsi:type="xs:date"

```

```

xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6388">2010-07-
06T09:41:04.000Z
    </checkinDate>
    <createDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="6177">2010-07-
06T09:41:04.000Z</createDate>
    <Label xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008316"></Label>
    <componentType
xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000008317" />
    <Thumbnail xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000008554" />
    <Revision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="2000008685">(A) -
C00115foeiufgoewtureol</Revision>
    <revisionDate xsi:type="xs:date"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2000008686" />
    <checkinUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2000008717">
    <selection>
        <id>704</id>
        <apiName xsi:nil="true" />
        <value>Administrator, Admin
(admin)</value>
    </selection>
    </checkinUser>
    <itemChangeStatus xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000009487"></itemChangeStatus>
    <createUser xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="1420">
    <selection>
        <id>704</id>
        <apiName xsi:nil="true" />
        <value>Administrator, Admin
(admin)</value>
    </selection>
    </createUser>
    <drawnBy xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2020" />
    <checkedBy xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
    attributeId="2021" />
    <designSystem xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2007">SW2009
</designSystem>
    <CADFilename xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2017">asm0001.sldasm
</CADFilename>
    <CADOldFilename xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2018"></CADOldFilename>
    <designSystemIdentifier xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2008"></designSystemIdentifier>
    <Filetype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
    attributeId="2009">SLDASM</Filetype>
    <Subtype xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"

```

```

        <Family xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2011"></Family>
        <Variant xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2012"></Variant>
        <drawingName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2013"></drawingName>
        <frameID xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2014"></frameID>
        <nameFormat xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2015"></nameFormat>
        <projectName xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="2016"></projectName>
        <localFlag xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1301"></localFlag>
        <partNumber xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1302"></partNumber>
        <filePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="2019"></filePath>
        <oldFilePath xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1331"></oldFilePath>
        <modelType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1332"></modelType>
        <modelReference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1333"></modelReference>
        <linkType xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1334"></linkType>
        <linkReference xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1335"></linkReference>
        <TDMVersion xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
        attributeId="1307"></TDMVersion>
        <TDMRevision xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="1308"></TDMRevision>
        <MultiList01 xsi:type="common:AgileListEntryType"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
        attributeId="2090" />
    </AgileObject>
</res>
</getDesignWhereUsedResponse>
</soapenv:Body>
</soapenv:Envelope>

```

# EC Web Services - Orchestrated Calls

**This chapter includes the following:**

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The orchestrated services for Engineering Collaboration in Agile 9.3 are based on Oracle's BPEL engine, which is a very flexible and robust framework for automating sequences of Web Service calls to conduct several actions within one single call to the server side. The result is improved performance, especially in WAN environments, where the response time for a round trip to the server is significantly longer than that in LAN environments.

The following sections list the available EC Orchestrated Web Services. For information about the compilation and deployment of these services, please refer to the EC BPEL Services Guide, which is included in the documentation for this release.

## getDesignPropertiesAndRights

**Service** To retrieve the metadata of the given Agile Class and the privileges of the given user on the given Design object in one call.

**Usage** The request should not have any Agile Object. Instead, all the parameters used by this service are provided as properties included in the first general Parameters section of the request.

The following properties should be included in this section:

1. **userIdentification** – The name of the user whose privileges should be checked
2. **classIdentifier** – The numeric ID of the Designs' subclass whose tables' metadata will be retrieved. Note that metadata for the following tables will be retrieved:

TitleBlock (table id = 6146)  
 Page Two (table id = 810)  
 Page Three (table id = 1501)  
 Where Used (table id = 6149)  
 Files (table id = 6150)  
 Relationships (table id = 2000007761)  
 History (table id = 815)  
 Structure (table id = 2000008318)  
 Where Used Design (table id = 2000008495)

3. **object Number** - The number of the Design object for which the user's privileges will be retrieved
4. **privilege** – The number of the privilege to check. Note that more than one privilege property may be included in the generalParameters section to check more than one privilege in one call.

The service will return a response which includes each of the individual responses obtained during the execution of the orchestrated process.

### Syntax

```
GetDesignPropertiesAndRightsResponseRes
getDesignPropertiesAndRightsResponseType =
bpelStub.getDesignPropertiesAndRights (getDesignPropertiesAndRightsRe
questType);
```

### Basic Steps

1. Create the request object AgileECRequestExtType for the getDesignPropertiesAndRights operation.
2. Create a general parameters list of type PropertyListType
3. Add the property 'userIdentification' to the list, set its value to the desired username.
4. Add the property 'classIdentifier' to the list, set its value to the subclass of Design whose metadata should be retrieved.
5. Add the property 'objectNumber' to the list, set its value to the number of the design whose privileges should be checked.
6. Add one or more 'privilege' properties to the list, set the values of the ids of the privileges to check.
7. Call the WebService and review the metadata information returned, as well as the privilege information.

### Sample Code Java

```
try {
    setupServerLogin();
    String userId = getStringProperty("USERNAME");
    Integer designClassId = getIntegerProperty(DSIGN_CLASS_ID);
    Integer partClassId = getIntegerProperty(PART_CLASS_ID);
    String designNumber = getStringProperty(DSIGN_NUMBER);
    String partNumber = getStringProperty(PART_NUMBER);
```



```

    <req xmlns=""
    <generalParameters>
      <id xsi:nil="true" />
      <property>

    <propertyName>userIdentification</propertyName>
      <propertyValue>admin</propertyValue>
    </property>
    <property>

    <propertyName>classIdentifier</propertyName>
      <propertyValue>2000008310</propertyValue>
    </property>
    <property>
      <propertyName>objectNumber</propertyName>
      <propertyValue>DESIGN09502</propertyValue>
    </property>
    <property>
      <propertyName>type</propertyName>
      <propertyValue>design</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
      <propertyValue>2</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
      <propertyValue>15</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
      <propertyValue>17</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
      <propertyValue>38</propertyValue>
    </property>
    </generalParameters>
    <generalParameters>
      <id xsi:nil="true" />
      <property>

    <propertyName>userIdentification</propertyName>
      <propertyValue>admin</propertyValue>
    </property>
    <property>

    <propertyName>classIdentifier</propertyName>
      <propertyValue>10141</propertyValue>
    </property>
    <property>
      <propertyName>objectNumber</propertyName>
      <propertyValue>P00776</propertyValue>
    </property>
    <property>
      <propertyName>type</propertyName>
      <propertyValue>item</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
      <propertyValue>2</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
      <propertyValue>15</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
      <propertyValue>17</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
      <propertyValue>38</propertyValue>
    </property>
    </generalParameters>
  </req>
</getDesignItemPropertiesAndRights>
</soapenv:Body>
</soapenv:Envelope>

```

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:wsa="http://www.w3.org/2005/08/addressing">
  <env:Header>
    <wsa:MessageID>urn:E2612FC0AC5211DFBFD3F7C676F77F9</wsa:MessageID>
    <wsa:ReplyTo>
      <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous
    </wsa:Address>
    </wsa:ReplyTo>
  </env:Header>
  <env:Body>
    <getDesignItemPropertiesAndRightsResponse

xmlns:dvm="http://www.oracle.com/XSL/Transform/java/oracle.tip.dvm.LookupValue"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
  <res xmlns="">
    <messageId />
    <messageName />
    <statusCode>WARNING</statusCode>
    <sessionParameters />
    <generalParameters>
      <id xsi:nil="true" />
      <property>
        <propertyName>userIdentification</propertyName>
        <propertyValue>admin</propertyValue>
      </property>
      <property>
        <propertyName>classIdentifier</propertyName>
        <propertyValue>2000008310</propertyValue>
      </property>
      <property>
        <propertyName>objectNumber</propertyName>
        <propertyValue>DESIGN09502</propertyValue>
      </property>
      <property>
        <propertyName>type</propertyName>
        <propertyValue>design</propertyValue>
      </property>
      <property>
        <propertyName>privilege</propertyName>
        <propertyValue>2</propertyValue>
      </property>
      <property>
        <propertyName>privilege</propertyName>
        <propertyValue>15</propertyValue>
      </property>
      <property>
        <propertyName>privilege</propertyName>
        <propertyValue>17</propertyValue>
      </property>
      <property>
        <propertyName>privilege</propertyName>
        <propertyValue>38</propertyValue>
      </property>
    </generalParameters>
    <generalParameters>
      <id xsi:nil="true" />
      <property>
        <propertyName>userIdentification</propertyName>
        <propertyValue>admin</propertyValue>
      </property>
      <property>
        <propertyName>classIdentifier</propertyName>
        <propertyValue>10141</propertyValue>
      </property>
      <property>
        <propertyName>objectNumber</propertyName>
        <propertyValue>P00776</propertyValue>
      </property>
      <property>
        <propertyName>type</propertyName>
        <propertyValue>item</propertyValue>
      </property>
      <property>
        <propertyName>privilege</propertyName>
        <propertyValue>2</propertyValue>
      </property>
      <property>
        <propertyName>privilege</propertyName>
        <propertyValue>15</propertyValue>
      </property>
    </generalParameters>
  </res>
</env:Body>
</env:Envelope>

```

```

        </property>
        <property>
          <propertyName>privilege</propertyName>
          <propertyValue>17</propertyValue>
        </property>
        <property>
          <propertyName>privilege</propertyName>
          <propertyValue>38</propertyValue>
        </property>
      </generalParameters>
    </notes>
    <id />
    <processNote>
      <message />
    </processNote>
  </notes>
  <exceptions>
    <id />
    <exception>
      <exceptionId />
      <message />
    </exception>
  </exceptions>
  <getTableMetadataResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://xmlns.oracle.com/AgileObjects/Core/AdminMetadata/V1">
    <response xmlns="">Response omitted from this sample due to
      the size. Check the documentation about the getTableMetadata
      service, which is part of the AdminMetadata services in a9
    </response>
  </getTableMetadataResponse>
  <checkPrivilegeResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://xmlns.oracle.com/AgileObjects/Core/Business/V1">
    <response xmlns="">
      <messageId>f467ace57764bfde:-1d875c14:12a8e6a4023:-7f87
      </messageId>
      <messageName>checkPrivilege-by-
      ECGetDesignItemPropertiesAndRights
      </messageName>
      <statusCode>SUCCESS</statusCode>
      <responses>
        <userIdentification>
          <userIdentifier>admin</userIdentifier>
        </userIdentification>
        <privilege>
          <privilege>2</privilege>
          <checkPrivilege>true</checkPrivilege>
          <classIdentifier>2000008310</classIdentifier>
          <objectNumber>DESIGN09502</objectNumber>
        </privilege>
      </responses>
      <responses>
        <userIdentification>
          <userIdentifier>admin</userIdentifier>
        </userIdentification>
        <privilege>
          <privilege>15</privilege>
          <checkPrivilege>false</checkPrivilege>
          <classIdentifier>2000008310</classIdentifier>
          <objectNumber>DESIGN09502</objectNumber>
        </privilege>
      </responses>
      <responses>
        <userIdentification>
          <userIdentifier>admin</userIdentifier>
        </userIdentification>
        <privilege>
          <privilege>17</privilege>
          <checkPrivilege>true</checkPrivilege>
          <classIdentifier>2000008310</classIdentifier>
          <objectNumber>DESIGN09502</objectNumber>
        </privilege>
      </responses>
      <responses>
        <userIdentification>
          <userIdentifier>admin</userIdentifier>
        </userIdentification>
        <privilege>
          <privilege>38</privilege>
          <checkPrivilege>true</checkPrivilege>

```

```

        </privilege>
      </responses>
    </responses>
    <responses>
      <userIdentification>
        <userIdentifier>admin</userIdentifier>
      </userIdentification>
      <privilege>
        <privilege>2</privilege>
        <checkPrivilege>>false</checkPrivilege>
        <classIdentifier>10141</classIdentifier>
        <objectNumber>P00776</objectNumber>
      </privilege>
    </responses>
  </responses>
  <responses>
    <userIdentification>
      <userIdentifier>admin</userIdentifier>
    </userIdentification>
    <privilege>
      <privilege>15</privilege>
      <checkPrivilege>>false</checkPrivilege>
      <classIdentifier>10141</classIdentifier>
      <objectNumber>P00776</objectNumber>
    </privilege>
  </responses>
  <responses>
    <userIdentification>
      <userIdentifier>admin</userIdentifier>
    </userIdentification>
    <privilege>
      <privilege>17</privilege>
      <checkPrivilege>>true</checkPrivilege>
      <classIdentifier>10141</classIdentifier>
      <objectNumber>P00776</objectNumber>
    </privilege>
  </responses>
  <responses>
    <userIdentification>
      <userIdentifier>admin</userIdentifier>
    </userIdentification>
    <privilege>
      <privilege>38</privilege>
      <checkPrivilege>>false</checkPrivilege>
      <classIdentifier>10141</classIdentifier>
      <objectNumber>P00776</objectNumber>
    </privilege>
  </responses>
</response>
</checkPrivilegeResponse>
</res>
</getDesignItemPropertiesAndRightsResponse>
</env:Body>
</env:Envelope>

```

## getDesignItemPropertiesAndRights

**Service** To retrieve the metadata of the given AgileClass and the privileges of the given user on the given object in one call. This call may combine Design and Item classes in one call, thus being able to retrieve metadata and privilege information for both class types in one single call.

**Usage** The request should not have any Agile Object. Instead, all the parameters used by this service are provided as properties included in the first two generalParameters sections of the request.

The following properties should be included in each of the generalParameters sections:

1. **userIdentification** – The name of the user whose privileges should be checked
2. **classIdentifier** – The numeric ID of the subclass whose tables' metadata will be retrieved. Note that for a subclass of design, metadata for the following tables will be retrieved:

TitleBlock (table id = 6146)

Page Two (table id = 810)

Page Three (table id = 1501)

Where Used (table id = 6149)

Files (table id = 6150)

Relationships (table id = 2000007761)

History (table id = 815)

Structure (table id = 2000008318)

Where Used Design (table id = 2000008495)

For a subclass of parts or documents, metadata for the following tables will be retrieved:

TitleBlock (table id = 801)

Page Two (table id = 810 )

Page Three (table id = 1501 )

Where Used (table id = 805)

Attachments (table id = 807)

Relationships (table id = 2000007761)

History (table id = 814)

BOM (table id = 803)

Pending Changes (table id = 804)

Change History (table id = 802)

Redline BOM (table id = -803)

3. **type** –Set to either "design" or "item", depending on whether the given subclass is a subclass of the Designs class or a subclass of the Parts or Documents classes.
4. **objectNumber** – The number of the Design or Item for which the user's privileges will be retrieved.
5. **privilege** – The number of the privilege to check. Note that more than one privilege property may be included in the generalParameters section to check more than one privilege in one call.

The service will return a response which includes each of the individual responses obtained during the execution of the orchestrated process.

## Syntax

```
GetDesignItemPropertiesAndRightsResponseRes
getDesignPropertiesAndRightsResponseType =
```

```
bpelStub.getDesignItemPropertiesAndRights (getDesignPropertiesAndRightsRequestType);
```

## Basic Steps

1. Create the request object `AgileECRequestExtType` for the `getDesignItemPropertiesAndRights` operation.
2. Create an array of general parameters list of type `PropertyListType` with a maximum of two elements.
3. For each of the `generalParameter` elements in the array, perform steps 4 to 8 below:
4. Add the property 'userIdentification' to the list, set its value to the desired username.
5. Add the property 'classIdentifier' to the list, set its value to the subclass of Design whose metadata should be retrieved.
6. Add the property 'type' set to either 'item' or 'design'.
7. Add the property 'objectNumber' to the list, set its value to the number of the design whose privileges should be checked.
8. Add one or more 'privilege' properties to the list, set the values of the ids of the privileges to check.
9. Call the `WebService` and review the metadata information returned, as well as the privilege information.

## Sample Code Java

```
try {
    setupServerLogin();
    String userId = getStringProperty("USERNAME");
    Integer classId = getIntegerProperty("DESIGN CLASS ID");
    String number = getStringProperty("DESIGN NUMBER");
    AgileECRequestExtType getDesignPropertiesAndRightsRequestType = new
AgileECRequestExtType ();
    PropertyListType[] generalParameters = new PropertyListType[1];
    generalParameters[0] = new PropertyListType();
    PropertyType[] props = new PropertyType[7];
    props[0] = new PropertyType("userIdentification", userId);
    props[1] = new PropertyType("classIdentifier", String.valueOf(classId));
    props[2] = new PropertyType("objectNumber", number);
    // Multiple privileges can be checked in one call
    props[3] = new PropertyType("privilege", "2");
    props[4] = new PropertyType("privilege", "15");
    props[5] = new PropertyType("privilege", "17");
    props[6] = new PropertyType("privilege", "38");
    generalParameters[0].setProperty(props);

    getDesignPropertiesAndRightsRequestType.setGeneralParameters(generalParameters);
    GetDesignPropertiesAndRightsResponseType
getDesignPropertiesAndRightsResponseType =
bpelStub.getDesignPropertiesAndRights(getDesignPropertiesAndRightsRequestType);
    System.out.println("STATUS CODE: " +
getDesignPropertiesAndRightsResponseType.getStatusCode());
    if
(!getDesignPropertiesAndRightsResponseType.getStatusCode().toString().equals(Respo
nseStatusCode.SUCCESS.getValue())) {
        CheckPrivilegeResponse checkOutFFResponse =
getDesignPropertiesAndRightsResponseType.getCheckPrivilegeResponse();
        AgileExceptionListType[] agileExceptionListType =
checkOutFFResponse.getResponse().getExceptions();
        if (agileExceptionListType != null) {
            for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
```



```

        </wsa:Address>
    </wsa:ReplyTo>
</env:Header>
<env:Body>
    <getDesignPropertiesAndRightsResponse
xmlns:dvm="http://www.oracle.com/XSL/Transform/java/oracle.tip.dvm.LookupValue"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
    <res xmlns="">
        <messageId />
        <messageName />
        <statusCode>SUCCESS</statusCode>
        <sessionParameters />
        <generalParameters>
            <id xsi:nil="true" />
            <property>
<propertyName>userIdentification</propertyName>
                <propertyValue>admin</propertyValue>
            </property>
            <property>
<propertyName>classIdentifier</propertyName>
                <propertyValue>2000008310</propertyValue>
            </property>
            <property>
                <propertyName>objectNumber</propertyName>
                <propertyValue>DESIGN09502</propertyValue>
            </property>
            <property>
                <propertyName>privilege</propertyName>
                <propertyValue>2</propertyValue>
            </property>
            <property>
                <propertyName>privilege</propertyName>
                <propertyValue>15</propertyValue>
            </property>
            <property>
                <propertyName>privilege</propertyName>
                <propertyValue>17</propertyValue>
            </property>
            <property>
                <propertyName>privilege</propertyName>
                <propertyValue>38</propertyValue>
            </property>
        </generalParameters>
        <notes>
            <id />
            <processNote>
                <message />
            </processNote>
        </notes>
        <exceptions>
            <id />
            <exception>
                <exceptionId />
                <message />
            </exception>
        </exceptions>
        <warnings>
            <id />
            <warning>
                <message />
            </warning>
        </warnings>
    </getDesignPropertiesAndRightsResponse>
    <getTableMetadataResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xmlns="http://xmlns.oracle.com/AgileObjects/Core/AdminMetadata/V1">
        <response xmlns="">Response omitted from this
sample due to
the size. Check the documentation about
the getTableMetadata service, which is part of the AdminMetadata services in
a9</response>
    </getTableMetadataResponse>
    <checkPrivilegeResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"

```

```

xmlns:xsi="http://www.w3.org/2001/XMLSchema-
" xmlns="http://www.ibm.com/xmlns/prod/ecm/PLM/ECWebServices"
<response xmlns=""
1d875c14:12a8e6a4023:-7f94
ECGetDesignPropertiesAndRights
<messageId>f467ace57764bfde:-
</messageId>
<messageName>checkPrivilege-by-
</messageName>
<statusCode>SUCCESS</statusCode>
<responses>
  <userIdentification>
<userIdentifier>admin</userIdentifier>
</userIdentification>
  <privilege>
<privilege>2</privilege>
<checkPrivilege>true</checkPrivilege>
<classIdentifier>2000008310</classIdentifier>
<objectNumber>DESIGN09502</objectNumber>
</privilege>
</responses>
<responses>
  <userIdentification>
<userIdentifier>admin</userIdentifier>
</userIdentification>
  <privilege>
<privilege>15</privilege>
<checkPrivilege>false</checkPrivilege>
<classIdentifier>2000008310</classIdentifier>
<objectNumber>DESIGN09502</objectNumber>
</privilege>
</responses>
<responses>
  <userIdentification>
<userIdentifier>admin</userIdentifier>
</userIdentification>
  <privilege>
<privilege>17</privilege>
<checkPrivilege>true</checkPrivilege>
<classIdentifier>2000008310</classIdentifier>
<objectNumber>DESIGN09502</objectNumber>
</privilege>
</responses>
<responses>
  <userIdentification>
<userIdentifier>admin</userIdentifier>
</userIdentification>
  <privilege>
<privilege>38</privilege>
<checkPrivilege>true</checkPrivilege>
<classIdentifier>2000008310</classIdentifier>
<objectNumber>DESIGN09502</objectNumber>
</privilege>
</responses>
</response>
</checkPrivilegeResponse>
</res>
</getDesignPropertiesAndRightsResponse>
</env:Body>
</env:Envelope>

```

## createUpdateThenReserve

**Service** To create or update one nor many Design objects and then check them out.

**Usage** The request should have at least one AgileObject, which represents the Design object to be created or updated. The attributes of the new design should be included in the object identifier, including class id, subclass and number. If an autonumber source should be used to provide the number for the new design, then the objectName element in the ObjectIdentifier should be left empty and a property named "autoNumberSrc" should be added to the first set of options of the AgileObject. The value of this property should be set to the name of the autonumber source to use.

The service will attempt to create the objects it finds in the request, therefore, an error will be triggered if an object with the given number already exists in the PLM system. To avoid this error and allow an existing object to be updated, a property called "updateExistingObject" should be added to the first set of options of the AgileObject with its value set to "true". Other attributes to be populated, such as TitleBlock, Page Two or Page Three attributes should be included inside table element with the table identifier set to the respective page. One single row element should be included in the table and attributes are added as child elements of the row, with the attributeld set to the BaseID of the attribute to update.

The service will return a response which includes each of the individual responses obtained during the execution of the orchestrated process.

**Syntax**

```
CreateUpdateThenReserveResponseRes
createUpdateThenReserveResponseType =
bpelStub.createUpdateThenReserve(createUpdateThenReserveRequestType)
```

### Basic Steps

1. Create the request object AgileECRequestExtType for the createUpdateThenRelate operation.
2. Create an array of AgileBusinessObjectType elements
3. Create an instance of an AgileBusinessObjectType and set it as the first element in the array.
4. Set the object identifier to contain the appropriate classId, subclass, and number.
5. Optionally define an array of PropertyListType to add options to this object.
6. In the list, define PropertyType elements for the optional properties "autoNumberSrc" and "updateExistingObject"
7. If attributes in Title Block, Page Two or Page Three need to be updated, define table elements for these tables and add a single AgileRowType element to them. Define the attributes inside the row element as any elements with an attribute called attributeld, set to the BaseID of the attribute to update.
8. Call the WebService and check the individual responses included in the global response.

## Sample Code Java

```

try {
    setupServerLogin();
    Integer classId = getIntegerProperty(DSIGN CLASS ID);
    String subClass = getStringProperty(DSIGN SUBCLASS);
    String description = getStringProperty(DSIGN DESCRIPTION);
    String autoNumberSource = getStringProperty(DSIGN AUTONUMBER SOURCE);
    AgileECRequestExtType createUpdateThenReserveRequestType = new
AgileECRequestExtType();
    AgileBusinessObjectType[] agileRequestObjects = new
AgileBusinessObjectType[1];
    agileRequestObjects[0] = new AgileBusinessObjectType();
    agileRequestObjects[0].setObjectIdentifier(new
ObjectIdentifierType(classId, subClass, null, null, null, null));
    // set option to use autonumber for this design
    PropertyListType options = new PropertyListType();
    PropertyType[] props = new PropertyType[1];
    props[0] = new PropertyType("autoNumberSrc", autoNumberSource);
    options.setProperty(props);
    agileRequestObjects[0].setOptions(options);
    AgileTableType[] parentTables = new AgileTableType[1];
    // Update the description
    parentTables[0] = new AgileTableType();
    TableIdentifierType tbTableIdentifier = new TableIdentifierType();
    tbTableIdentifier.setTableName("Title Block");
    tbTableIdentifier.setTableId(new Integer(6146));
    parentTables[0].setTableIdentifier(tbTableIdentifier);
    AgileRowType[] tbRow = new AgileRowType[1];
    // First row
    tbRow[0] = new AgileRowType();
    MessageElement[] anyElementTbRow = new MessageElement[1];
    anyElementTbRow[0] = new MessageElement();
    anyElementTbRow[0].setName("Description");
    anyElementTbRow[0].addAttribute(null, "attributeId", "6174");
    anyElementTbRow[0].setValue(description);
    tbRow[0].set any(anyElementTbRow);

    parentTables[0].setRow(tbRow);
    agileRequestObjects[0].setTable(parentTables);
    createUpdateThenReserveRequestType.setAgileObject(agileRequestObjects);
    CreateUpdateThenReserveResponseRes createUpdateThenReserveResponseType =
bpelStub.createUpdateThenReserve(createUpdateThenReserveRequestType);
    System.out.println("STATUS CODE: " +
createUpdateThenReserveResponseType.getStatusCode());
    if
(!createUpdateThenReserveResponseType.getStatusCode().toString().equals(ResponseSt
atusCode.SUCCESS.getValue())) {
        CreateObjectResponseType createObjectResponse =
createUpdateThenReserveResponseType.getCreateObjectResponse().getResponse();
        AgileExceptionListType[] agileExceptionListType =
createObjectResponse.getExceptions();
        if (agileExceptionListType != null) {
            for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
                for (AgileExceptionType exception :
exceptionListType.getException()) {
                    System.out.println(exception.getMessage());
                }
            }
        }
        CheckOutFFResponse checkOutFFResponse =
createUpdateThenReserveResponseType.getCheckOutFFResponse();
        agileExceptionListType =
checkOutFFResponse.getResponse().getExceptions();
        if (agileExceptionListType != null) {
            for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
                for (AgileExceptionType exception :
exceptionListType.getException()) {
                    System.out.println(exception.getMessage());
                }
            }
        }
    } else { // If the object, was successfully retrieved, then examine its
contents

```

```

        AgileCreateObjectResponse[] agileCreateResponses =
createUpdateThenReserveResponseType.getCreateObjectResponse().getResponse().getRes
        if (agileCreateResponses != null) {
            for (AgileCreateObjectResponse agileResponse :
agileCreateResponses) {
                AgileObjectType agileObject = agileResponse.getAgileObject();
                ObjectIdentifierType objectIdentifier =
agileObject.getObjectIdentifier();
                System.out.println("Agile Object Class ID: " +
objectIdentifier.getClassId());
                System.out.println("Agile Object Class Name: " +
objectIdentifier.getClassName());
                System.out.println("Agile Object Class Display Name: " +
objectIdentifier.getClassDisplayName());
                System.out.println("Agile Object Object ID: " +
objectIdentifier.getObjectId());
                System.out.println("Agile Object Object Name: " +
objectIdentifier.getObjectName());
                AgileTableType[] tables = agileObject.getTable();
                if (tables != null) {
                    for (AgileTableType table : tables) {
                        System.out.println("Table Name: " +
table.getTableIdentifier().getTableName());
                        AgileRowType[] rows = table.getRow();
                        int rowNo = 0;
                        if (rows != null) {
                            for (AgileRowType row : rows) {
                                System.out.println("Table Row Number " + rowNo++);
                                for (MessageElement node : row.get any()) {
                                    System.out.println("** " + node.getLocalName() +
": " + node.getValue());
                                    Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                                    while (nodeIt.hasNext()) {
                                        Node selectionNode = nodeIt.next();
                                        if (selectionNode instanceof MessageElement) {
                                            MessageElement element = (MessageElement)
selectionNode;
                                            Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();
                                            while (subNodeIt.hasNext()) {
                                                MessageElement subNode =
subNodeIt.next();
                                                System.out.println("*** Selection " +
subNode.getLocalName() + ": " + subNode.getValue());
                                            }
                                        }
                                    }
                                }
                            }
                        }
                    }
                }
                for (MessageElement node : agileObject.get any()) {
                    System.out.println("Agile Object " + node.getLocalName() + ":
" + node.getValue());
                    Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                    while (nodeIt.hasNext()) {
                        Node selectionNode = nodeIt.next();
                        if (selectionNode instanceof MessageElement) {
                            MessageElement element = (MessageElement)
selectionNode;
                            Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();
                            while (subNodeIt.hasNext()) {
                                MessageElement subNode = subNodeIt.next();
                                System.out.println("*** Selection " +
subNode.getLocalName() + ": " + subNode.getValue());
                            }
                        }
                    }
                }
            }
        }
        else {
            System.out.println("No results!");
        }
    }
}

```

## Sample Code SOAP

```

==== Request ====
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<soapenv:Body>
  <createUpdateThenReserve
xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
    <req xmlns="">
      <AgileObject>
        <objectIdentifier>
          <classId>2000008310</classId>
          <className>Design</className>
          <objectId xsi:nil="true" />
          <objectName xsi:nil="true" />
        </objectIdentifier>
        <table>
          <tableIdentifier>
            <tableId>6146</tableId>
            <tableName>Title Block</tableName>
          </tableIdentifier>
          <row rowId="0">
            <Description
attributeId="6174">Generated by a BPEL Service
            </Description>
          </row>
        </table>
        <options>
          <id xsi:nil="true" />
          <property>
            <propertyName>autoNumberSrc</propertyName>
            <propertyValue>Designs
Number</propertyValue>
          </property>
        </options>
      </AgileObject>
    </req>
  </createUpdateThenReserve>
</soapenv:Body>
</soapenv:Envelope>

==== Response ====
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:wsa="http://www.w3.org/2005/08/addressing">
<env:Header>
  <wsa:MessageID>urn:F7974930AC3711DFBFDF3F7C676F77F9</wsa:MessageID>
  <wsa:ReplyTo>
    <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous
    </wsa:Address>
  </wsa:ReplyTo>
</env:Header>
<env:Body>
  <createUpdateThenReserveResponse
xmlns:dvm="http://www.oracle.com/XSL/Transform/java/oracle.tip.dvm.LookupValue"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
    <res xmlns="">
      <messageId />
      <messageName />
      <statusCode>SUCCESS</statusCode>
      <sessionParameters />
      <generalParameters />
      <notes />
      <warnings>
        <id />
        <warning>
          <message />
        </warning>
      </warnings>
    </createObjectResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://xmlns.oracle.com/AgileObjects/Core/Business/V1">
    </response xmlns="">

```

```

13075-14-10-0-0-000-75-
    <messageId>f467ace57764bfde:-
    </messageId>
    <messageName>createObject-by-
    </messageName>
    <statusCode>SUCCESS</statusCode>
    <responses>
        <agileObject>
            <objectIdentifier>
                <classId>2000008310</classId>
                <className>Design</className>
                <classDisplayName>Design</classDisplayName>
                <objectId>6289625</objectId>
                <objectName>DESIGN09500</objectName>
                </objectIdentifier>
                <Number>
                    <xmlns:xs="http://www.w3.org/2001/XMLSchema"
                    xsi:type="xs:string" attributeId="6173" readOnly="False">DESIGN09500
                    </Number>
                    <Type>
                        <xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                        xsi:type="common:AgileListEntryType" attributeId="6175"
                        readOnly="False">
                            <selection>
                                <id>2000008310</id>
                                <apiName>DESIGN</apiName>
                                <value>Design</value>
                                </selection>
                            </Type>
                            <lifecyclePhase>
                                <xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                                xsi:type="common:AgileListEntryType" attributeId="6390"
                                readOnly="False"
                                />
                                <Description>
                                    <xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                    xsi:type="xs:string" attributeId="6174" readOnly="False">Generated by a
                                    BPEL
                                    Service</Description>
                                    <Version>
                                        <xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                        xsi:type="xs:integer" attributeId="7951" readOnly="True">0</Version>
                                        <lastModifiedDate>
                                            <xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                            attributeId="6178" readOnly="True">2010-08-20T08:50:21.000Z
                                            </lastModifiedDate>
                                            <checkoutStatus>
                                                <xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                                                xsi:type="common:AgileListEntryType" attributeId="6389"
                                                readOnly="True">
                                                    <selection>
                                                        <id>1</id>
                                                    </selection>
                                                    <apiName>CHECKED IN</apiName>
                                                    <value>Checked In</value>
                                                    </selection>
                                                    </checkoutStatus>
                                                    <checkoutUser>
                                                        <xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                                                        xsi:type="common:AgileListEntryType" attributeId="6180"

```

```

xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6184" readOnly="True" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6183" readOnly="True" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6388" readOnly="True">2010-08-20T08:50:20.000Z
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6177" readOnly="True">2010-08-20T08:50:20.000Z
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008316" readOnly="False" />
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008317"
/>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008554"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008685" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008686" readOnly="False" />
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008717"
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000009374"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000009487" readOnly="False" />
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="1420"
<id>704</id>
xsi:nil="true" />
<value>Administrator, Admin (admin)</value>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2020"
/>

```

```

...
<checkedBy
xsi:type="common:AgileListEntryType" attributeId="2021"
readOnly="False"
/>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<designSystem
xsi:type="xs:string" attributeId="2007" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<CADFilename
xsi:type="xs:string" attributeId="2017" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<CADOldFilename
xsi:type="xs:string" attributeId="2018" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<designSystemIdentifier
xsi:type="xs:string" attributeId="2008" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<Filetype
xsi:type="xs:string" attributeId="2009" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<Subtype
xsi:type="xs:string" attributeId="2010" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<Family
xsi:type="xs:string" attributeId="2011" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<Variant
xsi:type="xs:string" attributeId="2012" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<drawingName
xsi:type="xs:string" attributeId="2013" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<frameID
xsi:type="xs:string" attributeId="2014" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<nameFormat
xsi:type="xs:string" attributeId="2015" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<projectName
xsi:type="xs:string" attributeId="2016" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<localFlag
xsi:type="xs:string" attributeId="1301" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<partNumber
xsi:type="xs:string" attributeId="1302" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<filePath
xsi:type="xs:string" attributeId="2019" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<oldFilePath
xsi:type="xs:string" attributeId="1331" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<modelType
xsi:type="xs:string" attributeId="1332" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<modelReference
xsi:type="xs:string" attributeId="1333" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<linkType

```

```

... xmlns="http://www.w3.org/2001/XMLSchema" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1335" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1307" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1308" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1303" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1304" readOnly="False" />
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2023"
readOnly="False"
/>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2090"
readOnly="False"
/>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008063"
readOnly="True" />
</aqileObject>
</responses>
</response>
</createObjectResponse>
<checkoutFFResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://xmlns.oracle.com/AgileObjects/Core/Attachment/V1">
<response xmlns="">
<messageId>f467ace57764bfde:-
1d875c14:12a8e6a4023:-7fab
</messageId>
<messageName>checkoutFF-by-
ECCreateUpdateThenReserve</messageName>
<statusCode>SUCCESS</statusCode>
<responses>
<folderNumber>DESIGN09500</folderNumber>
</responses>
</response>
</checkoutFFResponse>
</res>
</createUpdateThenReserveResponse>
</env:Body>
</env:Envelope>

```

## reserveThenCreateUpdate

**Service** To checkout existing Design objects and then to create new Designs or Update existing ones.

**Usage**

The request should have at least one AgileObject, which represents the Design object to be checked out and then updated. The attributes of the design should be included in the object identifier, including class id, subclass and number. Additionally, the Title Block table should be included with at least the Title Block.Number attribute represented by an element of type any inside the single row for this table.

Additionally, new objects may be created by this service, which follow the same guidelines as the CreateUpdateThenReserve web service call.

Certain objects may be marked so that they are not included in the call to check-out, which is especially important for new objects, as they do not exist when the call to checkout is executed. To mark an object to be excluded from the checkout, add an property called "checkoutFlag" to the first set of options of the object with its value set to "false".

After the call to checkout, the service will attempt to create the objects it finds in the request, therefore, an error will be triggered if an object with the given number already exists in the PLM system. To avoid this error and allow an existing object to be updated, a property called "updateExistingObject" should be added to the first set of options of the AgileObject with its value set to "true". Other attributes to be populated, such as TitleBlock, Page Two or Page Three attributes should be included inside table element with the table identifier set to the respective page. One single row element should be included in the table and attributes are added as child elements of the row, with the attributeld set to the BaseID of the attribute to update.

The service will return a response which includes each of the individual responses obtained during the execution of the orchestrated process.

**Syntax**

```
ReserveThenCreateUpdateResponseRes
reserveThenCreateUpdateResponseType =
bpelStub.reserveThenCreateUpdate(reserveThenCreateUpdateRequestType)
```

**Basic Steps**

1. Create the request object AgileECRequestExtType for the createUpdateThenRelate operation.
2. Create an array of AgileBusinessObjectType elements
3. Create an instance of an AgileBusinessObjectType and set it as the first element in the array.
4. Set the object identifier to contain the appropriate classId, subclass, and number.
5. Optionally define an array of PropertyListType to add options to this object.
6. In the list, define PropertyType elements for the optional properties "autoNumberSrc", "updateExistingObject" and "checkoutFlag" as needed.
7. Define a table element for the TitleBlock table. Add a single row through a AgileRowType and add an attribute to represent the TitleBlock.Number attribute, that is, the BaseID 6173. Add other attributes of this table that should be updated.

8. If attributes in Page Two or Page Three need to be updated, define table elements for these tables and add a single AgileRowType element to them. Define the attributes inside the row element as any elements with an attribute called attributeld, set to the BaseID of the attribute to update.
9. Call the WebService and check the individual responses included in the global response.

### Sample Code Java

```

try {
    setupServerLogin();
    Integer classId = getIntegerProperty(DSIGN CLASS ID);
    String subClass = getStringProperty(DSIGN SUBCLASS);
    String number = getStringProperty(DSIGN NUMBER);
    String description = getStringProperty(DSIGN DESCRIPTION);
    String autoNumberSource = getStringProperty(DSIGN AUTONUMBER SOURCE);
    AgileECRequestExtType reserveThenCreateUpdateRequestType = new
AgileECRequestExtType();
    AgileBusinessObjectType[] agileRequestObjects = new
AgileBusinessObjectType[2];
    agileRequestObjects[0] = new AgileBusinessObjectType();
    agileRequestObjects[0].setObjectIdentifier(new
ObjectIdentifierType(classId, subClass, null, null, null, null));
    // set options to use autonumber for this design and skip the checkout
    PropertyListType options = new PropertyListType();
    PropertyType[] props = new PropertyType[2];
    props[0] = new PropertyType("autoNumberSrc", autoNumberSource);
    props[1] = new PropertyType("checkoutFlag", "false");
    options.setProperty(props);
    agileRequestObjects[0].setOptions(options);
    AgileTableType[] designTables = new AgileTableType[1];
    // Update the description
    designTables[0] = new AgileTableType();
    TableIdentifierType tbTableIdentifier = new TableIdentifierType();
    tbTableIdentifier.setTableName("Title Block");
    tbTableIdentifier.setTableId(new Integer(6146));
    designTables[0].setTableIdentifier(tbTableIdentifier);
    AgileRowType[] tbRow = new AgileRowType[1];
    // First row
    tbRow[0] = new AgileRowType();
    MessageElement[] anyElementTbRow = new MessageElement[1];
    anyElementTbRow[0] = new MessageElement();
    anyElementTbRow[0].setName("Description");
    anyElementTbRow[0].addAttribute(null, "attributeId", "6174");
    anyElementTbRow[0].setValue(description);
    tbRow[0].set any(anyElementTbRow);

    designTables[0].setRow(tbRow);
    agileRequestObjects[0].setTable(designTables);
    agileRequestObjects[1] = new AgileBusinessObjectType();
    agileRequestObjects[1].setObjectIdentifier(new
ObjectIdentifierType(classId, subClass, null, null, number, null));
    // set option to update object if exists
    options = new PropertyListType();
    props = new PropertyType[1];
    props[0] = new PropertyType("updateExistingObject", "true");
    options.setProperty(props);
    agileRequestObjects[1].setOptions(options);
    designTables = new AgileTableType[1];
    // Update the description
    designTables[0] = new AgileTableType();
    tbTableIdentifier = new TableIdentifierType();
    tbTableIdentifier.setTableName("Title Block");
    tbTableIdentifier.setTableId(new Integer(6146));
    designTables[0].setTableIdentifier(tbTableIdentifier);
    tbRow = new AgileRowType[1];
    // First row
    tbRow[0] = new AgileRowType();
    anyElementTbRow = new MessageElement[2];
    // Make sure to add the Title Block.Number attribute. This is required
for the checkout call
    anyElementTbRow[0] = new MessageElement();
    anyElementTbRow[0].setName("Number");
    anyElementTbRow[0].addAttribute(null, "attributeId", "6173");

```





```

.....Message.....Number...../.....Message.....
Number</propertyValue>
                                <propertyValue>Designs
                                </propertyValue>
                                </property>
                                </property>

<propertyName>checkoutFlag</propertyName>
<propertyValue>>false</propertyValue>
                                </property>
                                </options>
                                </AgileObject>
                                <AgileObject>
                                    <objectIdentifier>
                                        <classId>2000008310</classId>
                                        <className>Design</className>
                                        <objectId xsi:nil="true" />
                                        <objectName>DESIGN09502</objectName>
                                    </objectIdentifier>
                                    <table>
                                        <tableIdentifier>
                                            <tableId>6146</tableId>
                                            <tableName>Title Block</tableName>
                                        </tableIdentifier>
                                        <row rowId="0">
                                            <Number
attributeId="6173">DESIGN09502</Number>
                                            <Description
attributeId="6174">Generated by a BPEL Service
                                            </Description>
                                        </row>
                                    </table>
                                </options>
                                <id xsi:nil="true" />
                                </property>

<propertyName>updateExistingObject</propertyName>
<propertyValue>>true</propertyValue>
                                </property>
                                </options>
                                </AgileObject>
                                </req>
                                </reserveThenCreateUpdate>
</soapenv:Body>
</soapenv:Envelope>

==== Response ====
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:wsa="http://www.w3.org/2005/08/addressing">
<env:Header>
    <wsa:MessageID>urn:ED2D4100AC3E11DFBFD3F7C676F77F9</wsa:MessageID>
    <wsa:ReplyTo>
        <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous
        </wsa:Address>
    </wsa:ReplyTo>
</env:Header>
<env:Body>
    <reserveThenCreateUpdateResponse
xmlns:dvm="http://www.oracle.com/XSL/Transform/java/oracle.tip.dvm.LookupValue"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
        <res xmlns="">
            <messageId />
            <messageName />
            <statusCode>SUCCESS</statusCode>
            <sessionParameters />
            <generalParameters />
            <notes />
            <warnings>
                <id />
                <warning>
                    <message />
                </warning>
            </warnings>
            <checkoutFFResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://xmlns.oracle.com/AgileObjects/Core/Attachment/V1">

```

```

1d875c14:12a8e6a4023:-7f9c
    <messageId>f467ace57764bfde:-
    </messageId>
    <messageName>checkOutFF-by-
ECReserveThenCreateUpdate</messageName>
    <statusCode>SUCCESS</statusCode>
    <responses>
<folderNumber>DESIGN09502</folderNumber>
    </responses>
    </response>
    </checkOutFFResponse>
    <createObjectResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://xmlns.oracle.com/AgileObjects/Core/Business/V1">
    <response xmlns="">
    <messageId>f467ace57764bfde:-
1d875c14:12a8e6a4023:-7f9b
    </messageId>
    <messageName>createObject-by-
ECReserveThenCreateUpdate
    </messageName>
    <statusCode>SUCCESS</statusCode>
    <responses>
        <agileObject>
            <objectIdentifier>
<classId>2000008310</classId>
<className>Design</className>
<classDisplayName>Design</classDisplayName>
<objectId>6289670</objectId>
<objectName>DESIGN09506</objectName>
            </objectIdentifier>
            <Number
xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xsi:type="xs:string" attributeId="6173" readOnly="False">DESIGN09506
            </Number>
            <Type
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
            xsi:type="common:AgileListEntryType" attributeId="6175"
            readOnly="False">
            <selection>
<id>2000008310</id>
<apiName>DESIGN</apiName>
<value>Design</value>
            </selection>
            </Type>
            <lifecyclePhase
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
            xsi:type="common:AgileListEntryType" attributeId="6390"
            readOnly="False"
/>
            <Description
xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xsi:type="xs:string" attributeId="6174" readOnly="False">Generated by a
            BPEL
Service</Description>
            <Version
xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xsi:type="xs:integer" attributeId="7951" readOnly="True">0</Version>
            <lastModifiedDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xsi:type="xs:date"
            attributeId="6178" readOnly="True">2010-08-20T09:40:10.000Z
            </lastModifiedDate>
            <checkoutStatus

```

```

xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6389"
                                readOnly="True">
                                <selection>
                                    <id>1</id>
                                </selection>
<apiName>CHECKED IN</apiName>
<value>Checked In</value>
                                </checkoutStatus>
                                <checkoutUser>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6180"
                                readOnly="True" />
                                <checkoutDate>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                xsi:type="xs:date"
attributeId="6184" readOnly="True" />
                                <checkoutLocation>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                xsi:type="xs:string" attributeId="6183" readOnly="True" />
                                <checkinDate>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                xsi:type="xs:date"
attributeId="6388" readOnly="True">2010-08-20T09:40:10.000Z
                                </checkinDate>
                                <createDate>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                xsi:type="xs:date"
attributeId="6177" readOnly="True">2010-08-20T09:40:10.000Z
                                </createDate>
                                <Label>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                xsi:type="xs:string" attributeId="2000008316" readOnly="False" />
                                <componentType>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                                xsi:type="common:AgileListEntryType" attributeId="2000008317"
                                readOnly="False"
/>
                                <Thumbnail>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                                xsi:type="common:AgileListEntryType" attributeId="2000008554"
                                readOnly="True" />
                                <Revision>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                xsi:type="xs:string" attributeId="2000008685" readOnly="False" />
                                <revisionDate>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                xsi:type="xs:date"
attributeId="2000008686" readOnly="False" />
                                <checkinUser>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                                xsi:type="common:AgileListEntryType" attributeId="2000008717"
                                readOnly="True" />
                                <approvalStatus>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
                                xsi:type="common:AgileListEntryType" attributeId="2000009374"
                                readOnly="True" />
                                <itemChangeStatus>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
                                xsi:type="xs:string" attributeId="2000009487" readOnly="False" />
                                <createUser>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"

```

```

... xmlns="http://xmlns.oracle.com/AgileObjects/Core/Common/V1" attributeId="1300"
readOnly="True">
<selection>

<id>704</id>
<apiName
xsi:nil="true" />
<value>Administrator, Admin (admin)</value>
</selection>
</createUser>
<drawnBy
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2020"
readOnly="False"
/>
<checkedBy
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2021"
readOnly="False"
/>
<designSystem
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2007" readOnly="False" />
<CADFilename
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2017" readOnly="False" />
<CADOldFilename
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2018" readOnly="False" />
<designSystemIdentifier
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2008" readOnly="False" />
<Filetype
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2009" readOnly="False" />
<Subtype
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2010" readOnly="False" />
<Family
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2011" readOnly="False" />
<Variant
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2012" readOnly="False" />
<drawingName
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2013" readOnly="False" />
<frameID
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2014" readOnly="False" />
<nameFormat
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2015" readOnly="False" />
<projectName
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2016" readOnly="False" />
<localFlag
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1301" readOnly="False" />
<partNumber
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1302" readOnly="False" />

```

```

xmlns:xs="http://www.w3.org/2001/XMLSchema" <filePath
xsi:type="xs:string" attributeId="2019" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <oldFilePath
xsi:type="xs:string" attributeId="1331" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <modelType
xsi:type="xs:string" attributeId="1332" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <modelReference
xsi:type="xs:string" attributeId="1333" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <linkType
xsi:type="xs:string" attributeId="1334" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <linkReference
xsi:type="xs:string" attributeId="1335" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <TDMVersion
xsi:type="xs:string" attributeId="1307" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <TDMRevision
xsi:type="xs:string" attributeId="1308" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <Text13
xsi:type="xs:string" attributeId="1303" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <Text14
xsi:type="xs:string" attributeId="1304" readOnly="False" />
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2023"
readOnly="False"
/>
<MultiList01
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2090"
readOnly="False"
/>
<MultiList04
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008063"
readOnly="True" />
</agileObject>
</responses>
<responses>
<agileObject>
<objectIdentifier>
<classId>2000008310</classId>
<className>Design</className>
<classDisplayName>Design</classDisplayName>
<objectId>6289639</objectId>
<objectName>DESIGN09502</objectName>
</objectIdentifier>
<Number
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6173" readOnly="False">DESIGN09502
</Number>

```

```

<Type
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6175"
readOnly="False">
<selection>
<id>2000008310</id>
<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</Type>
<lifecyclePhase
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6390"
readOnly="False"
/>
<Description
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6174" readOnly="False">Generated by a
BPEL
Service</Description>
<Version
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:integer" attributeId="7951" readOnly="True">2</Version>
<lastModifiedDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="6178" readOnly="True">2010-08-20T09:40:10.000Z
</lastModifiedDate>
<checkoutStatus
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6389"
readOnly="True">
<selection>
<id>0</id>
<apiName>CHECKED OUT</apiName>
<value>Checked Out</value>
</selection>
</checkoutStatus>
<checkoutUser
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6180"
readOnly="True">
<selection>
<id>704</id>
<apiName
xsi:nil="true" />
<value>Administrator, Admin (admin)</value>
</selection>
</checkoutUser>
<checkoutDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="6184" readOnly="True">2010-08-20T12:38:02.000Z
</checkoutDate>
<checkoutLocation
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6183" readOnly="True" />
<checkinDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="6388" readOnly="True">2010-08-20T09:40:10.000Z
</checkinDate>
<createDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"

```

```

xsi:type="xs:date"
</createDate>
<Label
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008316" readOnly="False" />
<componentType
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008317"
readOnly="False"
/>
<Thumbnail
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008554"
readOnly="True" />
<Revision
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008685" readOnly="False" />
<revisionDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="2000008686" readOnly="False" />
<checkinUser
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008717"
readOnly="True" />
<approvalStatus
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000009374"
readOnly="True" />
<itemChangeStatus
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000009487" readOnly="False" />
<createUser
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="1420"
readOnly="True">
<selection>
<id>704</id>
<apiName
xsi:nil="true" />
<value>Administrator, Admin (admin)</value>
</selection>
</createUser>
<drawnBy
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2020"
readOnly="False"
/>
<checkedBy
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2021"
readOnly="False"
/>
<designSystem
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2007" readOnly="False" />
<CADFilename
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2017" readOnly="False" />
<CADOldFilename
xmlns:xs="http://www.w3.org/2001/XMLSchema"

```

```

... xmlns:xs="http://www.w3.org/2001/XMLSchema" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2008" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2009" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2010" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2011" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2012" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2013" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2014" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2015" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2016" readOnly="False">EC WebServices
Docu</projectName>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1301" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1302" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2019" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1331" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1332" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1333" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1334" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1335" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1307" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1308" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"

```

```

... xmlns="http://www.w3.org/2001/XMLSchema" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1304" readOnly="False" />
<List04
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2023"
readOnly="False"
/>
<MultiList01
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2090"
readOnly="False"
/>
<MultiList04
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008063"
readOnly="True" />
</agileObject>
</responses>
</response>
</createObjectResponse>
</res>
</reserveThenCreateUpdateResponse>
</env:Body>
</env:Envelope>

```

## createUpdateThenRelate

**Service** To create or update one or many Design objects and then add relationships among them or to other existing objects in the PLM system.

**Usage** The request should have at least one AgileObject, which represents the Design object to be created or updated. The attributes of the new design should be included in the object identifier, including class id, subclass and number. If an autonumber source should be used to provide the number for the new design, then the objectName element in the ObjectIdentifier should be left empty and a property named "autoNumberSrc" should be added to the first set of options of the AgileObject. The value of this property should be set to the name of the autonumber source to use.

The service will attempt to create the objects it finds in the request, therefore, an error will be triggered if an object with the given number already exists in the PLM system. To avoid this error and allow an existing object to be updated, a property called "updateExistingObject" should be added to the first set of options of the AgileObject with its value set to "true".

Other attributes to be populated, such as TitleBlock, Page Two or Page Three attributes should be included inside table element with the table identifier set to the respective page. One single row element should be included in the table and attributes are added as child elements of the row, with the attributeId set to the BaseID of the attribute to update.

Finally, the Relationships table should be included, having a tableId of "2000007761". Inside this table, each row representing a new relationship should include the key attribute "2000007767" (Relationships.Name) with its value set to a ReferentIdType, which represents the object to be related to the design.

The service will return a response which includes each of the individual responses obtained during the execution of the orchestrated process.

**Syntax**

```
CreateUpdateThenRelateResponseRes createUpdateThenRelateResponseType  
= bpelStub.createUpdateThenRelate(createUpdateThenRelateRequestType)
```

**Basic Steps**

1. Create the request object AgileECRequestExtType for the createUpdateThenRelate operation.
2. Create an array of AgileBusinessObjectType elements
3. Create an instance of an AgileBusinessObjectType and set it as the first element in the array.
4. Set the object identifier to contain the appropriate classId, subclass, and number.
5. Optionally define an array of PropertyListType to add options to this object.
6. In the list, define PropertyType elements for the optional properties "autoNumberSrc" and "updateExistingObject"
7. If attributes in Title Block, Page Two or Page Three need to be updated, define table elements for these tables and add a single AgileRowType element to them. Define the attributes inside the row element as any elements with an attribute called attributeld, set to the BaseID of the attribute to update.
8. If relationships should be created for this design object, define the relationships table to have id equal to "2000007761". Add as many row elements as needed.
9. For each AgileRowType, define at least one element of type any with the following attributes:
10. "attributeld" set to "2000007767"
11. "type", with namespace ["http://xmlns.oracle.com/AgileObjects/Core/Common/V1"](http://xmlns.oracle.com/AgileObjects/Core/Common/V1) set to "ObjectReferentIdType".
12. Set the value of this element to be a ObjectReferentIdType pointing to the object to be related.
13. Call the WebService and check the individual responses included in the global response.

**Sample Code** Java

```
try {  
    setupServerLogin();  
    Integer classId = getIntegerProperty(DSIGN CLASS ID);  
    String subClass = getStringProperty(DSIGN SUBCLASS);  
    String parentNumber = getStringProperty(DSIGN NUMBER);  
    String parentVersion = getStringProperty(DSIGN VERSION);  
    String parentDescription = getStringProperty(DSIGN_DESCRIPTION);
```

```

        Integer firstRelatedClassId =
        ..... String firstRelatedNumber =
getStringProperty(FIRST RELATED OBJECT NUMBER);
        Integer secondRelatedClassId =
getStringProperty(SECOND RELATED OBJECT CLASS ID);
        String secondRelatedNumber =
getStringProperty(SECOND RELATED OBJECT NUMBER);
        AgileECRequestExtType createUpdateThenRelateRequestType = new
AgileECRequestExtType();
        AgileBusinessObjectType[] agileRequestObjects = new
AgileBusinessObjectType[1];
        agileRequestObjects[0] = new AgileBusinessObjectType();
        agileRequestObjects[0].setObjectIdentifier(new
ObjectIdentifierType(classId, subClass, null, null, parentNumber, parentVersion));
        // set option to update object if exists
PropertyListType options = new PropertyListType();
PropertyType[] props = new PropertyType[1];
props[0] = new PropertyType("updateExistingObject", "true");
options.setProperty(props);
        agileRequestObjects[0].setOptions(options);
        AgileTableType[] parentTables = new AgileTableType[2];
        // Update the description
parentTables[0] = new AgileTableType();
TableIdentifierType tbTableIdentifier = new TableIdentifierType();
tbTableIdentifier.setTableName("Title Block");
tbTableIdentifier.setTableId(new Integer(6146));
parentTables[0].setTableIdentifier(tbTableIdentifier);
        AgileRowType[] tbRow = new AgileRowType[1];
        // First row
tbRow[0] = new AgileRowType();
MessageElement[] anyElementTBRow = new MessageElement[2];
anyElementTBRow[0] = new MessageElement();
anyElementTBRow[0].setName("Number");
anyElementTBRow[0].addAttribute(null, "attributeId", "6173");
anyElementTBRow[0].setValue(parentNumber);
anyElementTBRow[1] = new MessageElement();
anyElementTBRow[1].setName("Description");
anyElementTBRow[1].addAttribute(null, "attributeId", "6174");
anyElementTBRow[1].setValue(parentDescription);
        tbRow[0].set any(anyElementTBRow);
parentTables[0].setRow(tbRow);
        // Define the relationships table
parentTables[1] = new AgileTableType();
TableIdentifierType tableIdentifier = new TableIdentifierType();
tableIdentifier.setTableName("Relationships");
tableIdentifier.setTableId(new Integer(2000007761));
parentTables[1].setTableIdentifier(tableIdentifier);
        // Create two rows of related items
        AgileRowType[] rows = new AgileRowType[2];
        // First row
rows[0] = new AgileRowType();
MessageElement[] anyElementFirstRow = new MessageElement[1];
anyElementFirstRow[0] = new MessageElement();
anyElementFirstRow[0].setName("key2000007767");
anyElementFirstRow[0].addAttribute(null, "attributeId", "2000007767");
        anyElementFirstRow[0].addAttribute("http://xmlns.oracle.com/AgileObjects/Core/Comm
on/V1", "type", "ObjectReferentIdType");
        anyElementFirstRow[0].setObjectValue(new
ObjectReferentIdType(String.valueOf(firstRelatedClassId), firstRelatedNumber,
null, null));
        rows[0].setRowId(0);
        rows[0].set any(anyElementFirstRow);

        // Second row
rows[1] = new AgileRowType();
MessageElement[] anyElementSecondRow = new MessageElement[1];
anyElementSecondRow[0] = new MessageElement();
anyElementSecondRow[0].setName("key2000007767");
anyElementSecondRow[0].addAttribute(null, "attributeId", "2000007767");
        anyElementSecondRow[0].addAttribute("http://xmlns.oracle.com/AgileObjects/Core/Com
mon/V1", "type", "ObjectReferentIdType");
        anyElementSecondRow[0].setObjectValue(new
ObjectReferentIdType(String.valueOf(secondRelatedClassId), secondRelatedNumber,
null, null));
        rows[1].set any(anyElementSecondRow);
        rows[1].setRowId(1);

        parentTables[1].setRow(rows);

```

```

        createUpdateThenRelateRequestType.setAgileObject(agileRequestObjects);
        CreateUpdateThenRelateResponseRes createUpdateThenRelateResponseType =
        bpelStub.createUpdateThenRelate(createUpdateThenRelateRequestType);
        System.out.println("STATUS CODE: " +
        createUpdateThenRelateResponseType.getStatusCode());
        if
        (!createUpdateThenRelateResponseType.getStatusCode().toString().equals(ResponseSta
        tusCode.SUCCESS.getValue())) {
            CreateObjectResponseType createObjectResponse =
            createUpdateThenRelateResponseType.getCreateObjectResponse().getResponse();
            AgileExceptionListType[] agileExceptionListType =
            createObjectResponse.getExceptions();
            if (agileExceptionListType != null) {
                for (AgileExceptionListType exceptionListType :
            agileExceptionListType) {
                    for (AgileExceptionType exception :
            exceptionListType.getException()) {
                        System.out.println(exception.getMessage());
                    }
                }
            }
            AddRowsResponse[] addRowsResponses =
            createUpdateThenRelateResponseType.getAddRowsResponse();
            for (AddRowsResponse addRowsResponse : addRowsResponses) {
                agileExceptionListType =
            addRowsResponse.getResponse().getExceptions();
                if (agileExceptionListType != null) {
                    for (AgileExceptionListType exceptionListType :
            agileExceptionListType) {
                        for (AgileExceptionType exception :
            exceptionListType.getException()) {
                            System.out.println(exception.getMessage());
                        }
                    }
                }
            }
        } else { // If the object, was successfully retrieved, then examine its
        contents
            AgileCreateObjectResponse[] agileCreateResponses =
            createUpdateThenRelateResponseType.getCreateObjectResponse().getResp
            onses();
            if (agileCreateResponses != null) {
                for (AgileCreateObjectResponse agileResponse :
            agileCreateResponses) {
                    AgileObjectType agileObject = agileResponse.getAgileObject();
                    ObjectIdentifierType objectIdentifier =
            agileObject.getObjectIdentifier();
                    System.out.println("Agile Object Class ID: " +
            objectIdentifier.getClassId());
                    System.out.println("Agile Object Class Name: " +
            objectIdentifier.getClassName());
                    System.out.println("Agile Object Class Display Name: " +
            objectIdentifier.getClassDisplayName());
                    System.out.println("Agile Object Object ID: " +
            objectIdentifier.getObjectId());
                    System.out.println("Agile Object Object Name: " +
            objectIdentifier.getObjectName());
                    AgileTableType[] tables = agileObject.getTable();
                    if (tables != null) {
                        for (AgileTableType table : tables) {
                            System.out.println("Table Name: " +
            table.getTableIdentifier().getTableName());
                            rows = table.getRow();
                            int rowNo = 0;
                            if (rows != null) {
                                for (AgileRowType row : rows) {
                                    System.out.println("Table Row Number " + rowNo++);
                                    for (MessageElement node : row.get any()) {
                                        System.out.println("* " + node.getLocalName() +
            ": " + node.getValue());
                                    }
                                }
                            }
                            Iterator<Node> nodeIt = (Iterator<Node>)
            node.getChildElements();
                            while (nodeIt.hasNext()) {
                                Node selectionNode = nodeIt.next();
                                if (selectionNode instanceof MessageElement) {
                                    MessageElement element = (MessageElement)
            selectionNode;
                                    Iterator<MessageElement> subNodeIt =
            (Iterator<MessageElement>) element.getChildElements();
                                    while (subNodeIt.hasNext()) {

```



```

        <key2000007767
attributeId="2000007767" ns1:type="ObjectReferentIdType"
xmlns:ns1="http://xmlns.oracle.com/AgileObjects/Core/Common/V1">
<classIdentifier>10141</classIdentifier>
<objectIdentifier>P00779</objectIdentifier>
        </key2000007767>
    </row>
    <row rowId="1">
        <key2000007767
attributeId="2000007767" ns2:type="ObjectReferentIdType"
xmlns:ns2="http://xmlns.oracle.com/AgileObjects/Core/Common/V1">
<classIdentifier>2000008310</classIdentifier>
<objectIdentifier>DESIGN09436.SLDASM</objectIdentifier>
        </key2000007767>
    </row>
</table>
<options>
    <id xsi:nil="true" />
</options>
<property>
<propertyName>updateExistingObject</propertyName>
<propertyValue>true</propertyValue>
</property>
</options>
</AgileObject>
</req>
</createUpdateThenRelate>
</soapenv:Body>
</soapenv:Envelope>

==== Response ====

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:wsa="http://www.w3.org/2005/08/addressing">
<env:Header>
    <wsa:MessageID>urn:E0F48AC0AC2E11DFBFDF3F7C676F77F9</wsa:MessageID>
    <wsa:ReplyTo>
        <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous
        </wsa:Address>
    </wsa:ReplyTo>
</env:Header>
<env:Body>
    <createUpdateThenRelateResponse
xmlns:dvm="http://www.oracle.com/XSL/Transform/java/oracle.tip.dvm.LookupValue"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
        <res xmlns="">
            <messageId />
            <messageName />
            <statusCode>SUCCESS</statusCode>
            <sessionParameters />
            <generalParameters />
            <warnings>
                <id />
                <warning>
                    <message />
                </warning>
            </warnings>
            <createObjectResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://xmlns.oracle.com/AgileObjects/Core/Business/V1">
                <response xmlns="">
                    <messageId>f467ace57764bfde:-
1d875c14:12a8e6a4023:-7fbf
                    </messageId>
                    <messageName>createObject-by-
ECCreateUpdateThenRelate
                    </messageName>
                    <statusCode>SUCCESS</statusCode>
                    <responses>
                        <agileObject>

```

```

<classId>2000008310</classId>
<className>Design</className>
<classDisplayName>Design</classDisplayName>
<objectId>6289591</objectId>
<objectName>DESIGN10006.SLDASM</objectName>
</objectIdentifier>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6173" readOnly="False">DESIGN10006.SLDASM
</Number>
<Type
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6175"
readOnly="False">
<selection>

<id>2000008310</id>
<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</Type>
<lifecyclePhase
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6390"
readOnly="False"
/>
<Description
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6174" readOnly="False">Generated by a
BPEL
Service</Description>
<Version
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:integer" attributeId="7951" readOnly="True">1</Version>
<lastModifiedDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6178" readOnly="True">2010-08-20T07:45:18.000Z
xsi:type="xs:date"
</lastModifiedDate>
<checkoutStatus
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6389"
readOnly="True">
<selection>
<id>0</id>

<apiName>CHECKED OUT</apiName>
<value>Checked Out</value>
</selection>
</checkoutStatus>
<checkoutUser
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6180"
readOnly="True">
<selection>

<id>704</id>
xsi:nil="true" />
<apiName
<value>Administrator, Admin (admin)</value>
</selection>

```

```

xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6184" readOnly="True">2010-08-20T10:43:00.000Z
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6183" readOnly="True" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6388" readOnly="True">2010-08-20T07:45:10.000Z
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="6177" readOnly="True">2010-08-20T07:42:13.000Z
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008316" readOnly="False" />
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008317"
/>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008554"
/>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008685" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000008686" readOnly="False" />
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008717"
/>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000009374"
/>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000009487" readOnly="False" />
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="1420"
/>
<id>704</id>
xsi:nil="true" />
<value>Administrator, Admin (admin)</value>
/>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2020"
/>

```

```

...
</checkedBy
xsi:type="common:AgileListEntryType" attributeId="2021"
readOnly="False"
/>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<designSystem
xsi:type="xs:string" attributeId="2007" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<CADFilename
xsi:type="xs:string" attributeId="2017" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<CADOldFilename
xsi:type="xs:string" attributeId="2018" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<designSystemIdentifier
xsi:type="xs:string" attributeId="2008" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<FileType
xsi:type="xs:string" attributeId="2009" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<Subtype
xsi:type="xs:string" attributeId="2010" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<Family
xsi:type="xs:string" attributeId="2011" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<Variant
xsi:type="xs:string" attributeId="2012" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<drawingName
xsi:type="xs:string" attributeId="2013" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<frameID
xsi:type="xs:string" attributeId="2014" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<nameFormat
xsi:type="xs:string" attributeId="2015" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<projectName
xsi:type="xs:string" attributeId="2016" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<localFlag
xsi:type="xs:string" attributeId="1301" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<partNumber
xsi:type="xs:string" attributeId="1302" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<filePath
xsi:type="xs:string" attributeId="2019" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<oldFilePath
xsi:type="xs:string" attributeId="1331" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<modelType
xsi:type="xs:string" attributeId="1332" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<modelReference
xsi:type="xs:string" attributeId="1333" readOnly="False" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
<linkType

```

```

<linkReference
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1335" readOnly="False" />
<TDMVersion
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1307" readOnly="False" />
<TDMRevision
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1308" readOnly="False" />
<Text13
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1303" readOnly="False" />
<Text14
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="1304" readOnly="False" />
<List04
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2023"
readOnly="False"
/>
<MultiList01
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2090"
readOnly="False"
/>
<MultiList04
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008063"
readOnly="True" />
</aqileObject>
</responses>
</response>
</createObjectResponse>
<addRowsResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://xmlns.oracle.com/AgileObjects/Core/Table/V1">
<response xmlns="">
<messageId>f467ace57764bfde-
1d875c14:12a8e6a4023:-7fbe
</messageId>
<messageName>addRows-by-
ECCreateUpdateAndRelate</messageName>
<statusCode>SUCCESS</statusCode>
</response>
</addRowsResponse>
</res>
</createUpdateThenRelateResponse>
</env:Body>
</env:Envelope>

```

## retrieveDesignStructureAndMetadata

**Service** To retrieve the structure and privileges of a given Design object as well as the metadata for the given AgileClass in one call.

**Usage** This service orchestrates two EC WebServices in one single call. These services are `getDesignService` and `getDesignPropertiesAndRights`. By doing this, it allows to retrieve all information related to a Design object in one call to the server side. Given this, the request of this service is a combination of the elements in the requests used for calling each of those two web services separately. For details on the specific requests, please review the documentation for those services in the preceding sections.

The service will return the combined responses of both service calls.

**Syntax**

```
RetrieveDesignStructureAndMetadataResponseRes
retrieveDesignStructureAndMetadataResponseType =
bpelStub.retrieveDesignStructureAndMetadata (retrieveDesignStructureA
ndMetadataRequestType) ;
```

### Basic Steps

1. Create the request object `AgileECRequestExtType` for the `retrieveDesignStructureAndMetadata` operation.
2. Create a general parameters list of type `PropertyListType`
3. Add the property 'userIdentification' to the list, set its value to the desired username.
4. Add the property 'classIdentifier' to the list, set its value to the subclass of Design whose metadata should be retrieved.
5. Add the property 'objectNumber' to the list, set its value to the number of the design whose privileges should be checked.
6. Add one or more 'privilege' properties to the list, set the values of the ids of the privileges to check.
7. Create an array of `AgileBusinessObjectType` elements
8. Create an instance of an `AgileBusinessObjectType` and set it as the first element in the array.
9. Set the object identifier to contain the appropriate classId, subclass and number.
10. Optionally add a Version element with an attribute called "attributeId" with value "7951", which corresponds to the BaseID of the TitleBlock.Version attribute for Designs.
11. Set the value of this element to the desired Design version.
12. Call the WebService and check the responses.

### Sample Code Java

```
try {
    setupServerLogin();
    String userId = getStringProperty("USERNAME");
    Integer classId = getIntegerProperty(DSIGN CLASS ID);
    String subClass = getStringProperty(DSIGN SUBCLASS);
    String number = getStringProperty(DSIGN NUMBER);
    String version = getStringProperty(DSIGN VERSION);
    AgileECRequestExtType retrieveDesignStructureAndMetadataRequestType = new
    AgileECRequestExtType ();
```

```

// First, set the general parameters section for the metadata
PropertyListType[] generalParameters = new PropertyListType[1];
PropertyType[] props = new PropertyType[5];
props[0] = new PropertyType("userIdentification", userId);
props[1] = new PropertyType("classIdentifier", String.valueOf(classId));
props[2] = new PropertyType("objectNumber", number);
// Multiple privileges can be checked in one call
props[3] = new PropertyType("privilege", "2");
props[4] = new PropertyType("privilege", "15");
generalParameters[0].setProperty(props);

retrieveDesignStructureAndMetadataRequestType.setGeneralParameters(generalParameters);

// Next, define the agile object for retrieving the structure
AgileBusinessObjectType[] agileRequestObjects = new
AgileBusinessObjectType[1];
agileRequestObjects[0] = new AgileBusinessObjectType();
agileRequestObjects[0].setObjectIdentifier(new
ObjectIdentifierType(classId, subclass, null, null, number, version));
// Add the version as an additional element MessageElement[] anyElement =
new MessageElement[1];
anyElement[0] = new MessageElement();
anyElement[0].setName("Version");
anyElement[0].addAttribute(null, "attributeId", "7951"); //
FileFolderConstants.ATT_TITLE_BLOCK_VERSION
anyElement[0].setValue(version);
agileRequestObjects[0].set any(anyElement);

retrieveDesignStructureAndMetadataRequestType.setAgileObject(agileRequestObjects);
RetrieveDesignStructureAndMetadataResponseRes
retrieveDesignStructureAndMetadataResponseType =
bpelStub.retrieveDesignStructureAndMetadata(retrieveDesignStructureAndMetadataRequestType);
System.out.println("STATUS CODE: " +
retrieveDesignStructureAndMetadataResponseType.getStatusCode());
AgileECResponseExtType retrieveDesignStructureResponseType =
retrieveDesignStructureAndMetadataResponseType.getRetrieveDesignStructureResponse().getRes();
if
(!retrieveDesignStructureAndMetadataResponseType.getStatusCode().toString().equals
(ResponseStatusCode.SUCCESS.getValue())) {
    AgileExceptionListType[] agileExceptionListType =
retrieveDesignStructureResponseType.getExceptions();
    if (agileExceptionListType != null) {
        for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
            for (AgileExceptionType exception :
exceptionListType.getException()) {
                System.out.println(exception.getMessage());
            }
        }
    }
    CheckPrivilegeResponse checkOutFFResponse =
retrieveDesignStructureAndMetadataResponseType.getCheckPrivilegeResponse();
    agileExceptionListType = checkOutFFResponse.getResponse().getExceptions();
    if (agileExceptionListType != null) {
        for (AgileExceptionListType exceptionListType :
agileExceptionListType) {
            for (AgileExceptionType exception :
exceptionListType.getException()) {
                System.out.println(exception.getMessage());
            }
        }
    }
} else { // If the call was successful, then examine its contents
    AgileBusinessObjectType[] agileResponseObjects =
retrieveDesignStructureResponseType.getAgileObject();
    if (agileResponseObjects != null) {
        for (AgileBusinessObjectType agileObject : agileResponseObjects) {
            ObjectIdentifierType objectIdentifier =
agileObject.getObjectIdentifier();
            System.out.println("Agile Object Class ID: " +
objectIdentifier.getClassId());
            System.out.println("Agile Object Class Name: " +
objectIdentifier.getClassName());
            System.out.println("Agile Object Class Display Name: " +
objectIdentifier.getClassDisplayName());
            System.out.println("Agile Object Object ID: " +
objectIdentifier.getObjectId());

```

```

        System.out.println("Agile Object Object Name: " +
        PropertyListType options = agileObject.getOptions();
        if (options != null) {
            for (PropertyType property : options.getProperty()) {
                System.out.println("Option Property Name: " +
property.getPropertyName());
                System.out.println("Option Property Value: " +
property.getPropertyValue());
            }
            AgileTableType[] tables = agileObject.getTable();
            for (AgileTableType table : tables) {
                System.out.println("Table Name: " +
table.getTableIdentifier().getTableName());
                AgileRowType[] rows = table.getRow();
                int rowNo = 0;
                if (rows != null) {
                    for (AgileRowType row : rows) {
                        System.out.println("Table Row Number " + rowNo++);
                        for (MessageElement node : row.get any()) {
                            System.out.println("* " + node.getLocalName() +
": " + node.getValue());
                            Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                            while (nodeIt.hasNext()) {
                                Node selectionNode = nodeIt.next();
                                if (selectionNode instanceof MessageElement)
{
                                    MessageElement element = (MessageElement)
selectionNode;
                                    Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();
                                    while (subNodeIt.hasNext()) {
                                        MessageElement subNode =
subNodeIt.next();
                                        System.out.println("*** Selection " +
subNode.getLocalName() + ": " + subNode.getValue());
                                    }
                                }
                            }
                        }
                    }
                }
                for (MessageElement node : agileObject.get any()) {
                    System.out.println("Agile Object " + node.getLocalName() + ":
" + node.getValue());
                    Iterator<Node> nodeIt = (Iterator<Node>)
node.getChildElements();
                    while (nodeIt.hasNext()) {
                        Node selectionNode = nodeIt.next();
                        if (selectionNode instanceof MessageElement) {
                            MessageElement element = (MessageElement)
selectionNode;
                            Iterator<MessageElement> subNodeIt =
(Iterator<MessageElement>) element.getChildElements();
                            while (subNodeIt.hasNext()) {
                                MessageElement subNode = subNodeIt.next();
                                System.out.println("*** Selection " +
subNode.getLocalName() + ": " + subNode.getValue());
                            }
                        }
                    }
                }
            }
            AgileCheckPrivilegeResponseType[] checkPrivilegeResponses =
retrieveDesignStructureAndMetadataResponseType.getCheckPrivilegeResponse().getResp
onse().getResponses();
            if (checkPrivilegeResponses != null) {
                for (AgileCheckPrivilegeResponseType agileResponse :
checkPrivilegeResponses) {
                    CheckPrivilegeType privilege = agileResponse.getPrivilege();
                    System.out.println("Privilege ID: " + privilege.getPrivilege() +
". Has Privilege: " + privilege.getCheckPrivilege());
                }
            } else {
                System.out.println("No results!");
            }
        }
    }
}

```

```
}

```

## Sample Code SOAP

```
==== Request ====
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<soapenv:Body>
  <retrieveDesignStructureAndMetadata
    xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
    <req xmlns="">
      <generalParameters>
        <id xsi:nil="true" />
      </generalParameters>
      <propertyName>userIdentification</propertyName>
      <propertyValue>admin</propertyValue>
    </property>
    <propertyName>classIdentifier</propertyName>
    <propertyValue>2000008310</propertyValue>
    <propertyName>objectNumber</propertyName>
    <propertyValue>DESIGN09022.ASM</propertyValue>
    <propertyName>privilege</propertyName>
    <propertyValue>2</propertyValue>
    <propertyName>privilege</propertyName>
    <propertyValue>15</propertyValue>
    <generalParameters>
      <AgileObject>
        <objectIdentifier>
          <classId>2000008310</classId>
          <className>Design</className>
          <objectId xsi:nil="true" />
          <objectName>DESIGN09022.ASM</objectName>
          <version>2</version>
        </objectIdentifier>
        <Version attributeId="7951">2</Version>
      </AgileObject>
    </generalParameters>
  </req>
</retrieveDesignStructureAndMetadata>
</soapenv:Body>
</soapenv:Envelope>

==== Response ====

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:wsa="http://www.w3.org/2005/08/addressing">
<env:Header>
  <wsa:MessageID>urn:30A0D370AC5811DFBFDF3F7C676F77F9</wsa:MessageID>
  <wsa:ReplyTo>
    <wsa:Address>http://www.w3.org/2005/08/addressing/anonymous
    </wsa:Address>
  </wsa:ReplyTo>
</env:Header>
<env:Body>
  <retrieveDesignStructureAndMetadataResponse
    xmlns:dvm="http://www.oracle.com/XSL/Transform/java/oracle.tip.dvm.LookupValue"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
    <res xmlns="">
      <messageId />
      <messageName />
      <statusCode>SUCCESS</statusCode>
      <sessionParameters />
      <generalParameters>
        <id xsi:nil="true" />
      </generalParameters>
    </res>
  </retrieveDesignStructureAndMetadataResponse>
</env:Body>
</env:Envelope>

```

```

<propertyName>userIdentification</propertyName>
  <propertyValue>admin</propertyValue>
</property>
<property>
  <propertyName>classIdentifier</propertyName>
    <propertyValue>2000008310</propertyValue>
  </property>
  <property>
    <propertyName>objectNumber</propertyName>
      <propertyValue>DESIGN09022.ASM</propertyValue>
    </property>
    <property>
      <propertyName>privilege</propertyName>
        <propertyValue>2</propertyValue>
      </property>
      <property>
        <propertyName>privilege</propertyName>
          <propertyValue>15</propertyValue>
        </property>
      </property>
    </generalParameters>
    <notes>
      <id />
      <processNote>
        <message />
      </processNote>
    </notes>
    <exceptions>
      <id />
      <exception>
        <exceptionId />
        <message />
      </exception>
    </exceptions>
    <warnings>
      <id />
      <warning>
        <message />
      </warning>
    </warnings>
  </getTableMetadataResponse>
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
  xmlns="http://xmlns.oracle.com/AgileObjects/Core/AdminMetadata/V1">
  <response xmlns="">Response omitted from this
sample due to
the size. Check the documentation about
the getTableMetadata
AdminMetadata services in a9
service, which is part of the
</response>
</getTableMetadataResponse>
<retrieveDesignStructureResponse
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xmlns="http://xmlns.oracle.com/AgileObjects/ECS/V1">
  <res xmlns="">
    <messageId>f467ace57764bfde:-
1d875c14:12a8e6a4023:-7f85
    </messageId>
    <messageName>retrieveDesignStructure-by-
ECSRetrieveDesignStructureAndMetadata
    </messageName>
    <statusCode>SUCCESS</statusCode>
    <AgileObject>
      <objectIdentifier>
<classId>2000008310</classId>
<className>Design</className>
<classDisplayName>Design</classDisplayName>
<objectId>6250017</objectId>

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</objectIdentifier>
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    <tableId>6150</tableId>
    <tableName>Files</tableName>
    </tableIdentifier>
    <row rowId="0">
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xsi:type="common:AgileListEntryType" attributeId="2000008555" />
      <fileName
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6303">design09022.asm</fileName>
      <fileDescription
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6181" />
      <fileSize
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:double" attributeId="6148">32980.0</fileSize>
      <fileType
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6305">asm</fileType>
      <filePath
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6304" />
      <lastViewDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date" attributeId="6176">2010-04-06T13:31:38.000Z
      </lastViewDate>
      <fileCategory
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xsi:type="common:AgileListEntryType" attributeId="2000008509">
        <selection>
          <id>1</id>
          <apiName>SOURCE</apiName>
          <value>Source</value>
        </selection>
      </fileCategory>
      <documentText
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="4684" />
      <checkoutLocation
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000007045" />
      <masterThumbnail
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008560" />
      <FileID
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" displayName="FileID">6250666</FileID>
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    <row rowId="0">
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xmlns:xs="http://www.w3.org/2001/XMLSchema" <fileName
xsi:type="xs:string" attributeId="6303">design09022.stp</fileName>
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xsi:type="xs:double" attributeId="6148">436089.0</fileSize>
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xsi:type="xs:string" attributeId="6305">stp</fileType>
xmlns:xs="http://www.w3.org/2001/XMLSchema" <filePath
xsi:type="xs:string" attributeId="6304" />
xmlns:xs="http://www.w3.org/2001/XMLSchema" <lastViewDate
xsi:type="xs:date" attributeId="6176">2010-04-06T13:31:38.000Z
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<id>2</id>
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xsi:type="xs:string" attributeId="6305">igs</fileType>

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xmlns:xsi="http://www.w3.org/2001/XMLSchema"
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<tableDisplayName>Structure</tableDisplayName>
</tableIdentifier>
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xsi:type="xs:string" attributeId="2000008328">false</checkedOut>
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<value>com.agile.api.pc.attachment.ThumbnailID@1158395
</value>

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</Thumbnail>
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<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008321" />
<lifeCyclePhase>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008322" />
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008329" />
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xsi:type="common:AgileListEntryType" attributeId="2000008330" />
<structureMultiText01 xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008365" />
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008376" />
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xsi:type="xs:string" attributeId="2000008377">CAX-PROE</Identifier>
<Component>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008378" />
<Reference>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008379" />
<Configuration>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008380" />
<revision>
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xsi:type="xs:string" attributeId="2000009479" />

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...xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:type="xs:date" attributeId="2000009480" />
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      <checkedOut
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          xsi:type="common:AgileListEntryType" attributeId="2000008556">
            <selection>
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              <apiName>DESIGN09016PRT</apiName>
              <value>com.agile.api.pc.attachment.ThumbnailID@18032cb
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            </selection>
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            xsi:type="common:AgileListEntryType" attributeId="2000008319">
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                <apiName>DESIGN</apiName>
                <value>Design</value>
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            xsi:type="xs:string" attributeId="2000008321" />
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            xsi:type="common:AgileListEntryType" attributeId="2000008322" />
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          <Label
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xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
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xsi:type="xs:string" attributeId="2000008378" />                                <Configuration
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xsi:type="xs:string" attributeId="2000008380" />                                <revisionDate
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xsi:type="xs:date" attributeId="2000009479" />                                </row>
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</selection>
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<value>Design</value>

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xsi:type="common:AgileListEntryType" attributeId="2000008322" />
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xsi:type="xs:string" attributeId="2000008380" />
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xsi:type="xs:date" attributeId="2000009480" />
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    </value>
    </selection>
    </Thumbnail>
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  xsi:type="common:AgileListEntryType" attributeId="2000008322" />
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  xsi:type="xs:string" attributeId="2000008365" />
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xmlns:xs="http://www.w3.org/2001/XMLSchema" <Component
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xsi:type="xs:string" attributeId="2000008380" />
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xsi:type="xs:string" attributeId="2000009479" />
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  <checkedOut
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008328">>false</checkedOut>
  <Thumbnail
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xsi:type="common:AgileListEntryType" attributeId="2000008556">
  <selection>
  <id>3564</id>
  <apiName>DESIGN09020PRT</apiName>
  <value>com.agile.api.pc.attachment.ThumbnailID@aa06e8</value>
  </selection>
  </Thumbnail>
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xsi:type="common:AgileListEntryType" attributeId="2000008319">
  <selection>
  <id>2000008310</id>
  <apiName>DESIGN</apiName>
  <value>Design</value>
  </selection>
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008321" />
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xsi:type="common:AgileListEntryType" attributeId="2000008322" />

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xsi:type="xs:string" attributeId="2000008329" />
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xsi:type="common:AgileListEntryType" attributeId="2000008330" />
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xsi:type="xs:string" attributeId="2000008377">CAX-PROE</Identifier>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008378" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008379" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008380" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000009479" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date" attributeId="2000009480" />
</row>
<row rowId="0">
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008326">true</Attachments>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008327">false</Linked>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008328">false</checkedOut>
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008556">
<selection>
<id>3567</id>
<apiName>DESIGN09021PRT</apiName>
<value>com.agile.api.pc.attachment.ThumbnailID@15100ec

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</selection>
</Thumbnail>
<designType
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008319">
<selection>
<id>2000008310</id>
<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</designType>
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xsi:type="xs:string" attributeId="2000008320">DESIGN09021.PRT</Number>
<Description
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008321" />
<lifeCyclePhase
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008322" />
<Version
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:integer" attributeId="2000008323">2</Version>
<findNum
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:double" attributeId="2000008324">0.0</findNum>
<Quantity
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:double" attributeId="2000008325">1.0</Quantity>
<Label
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008329" />
<componentType
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xsi:type="common:AgileListEntryType" attributeId="2000008330" />
<structureMultiText01 xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008365" />
<modelName
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008376" />
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xsi:type="xs:string" attributeId="2000008377">CAX-PROE</Identifier>
<Component
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008378" />
<Reference
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008379" />
<Configuration
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008380" />
<revision
xmlns:xs="http://www.w3.org/2001/XMLSchema"

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... xmlns:xs="http://www.w3.org/2001/XMLSchema" />
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date" attributeId="2000009480" />
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<tableName>Where
Used - Design</tableName>
<tableDisplayName>Where Used - Design</tableDisplayName>
</tableIdentifier>
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xsi:type="common:AgileListEntryType" attributeId="2000008558">
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<apiName>DESIGN09023TIF</apiName>
<value>com.agile.api.pc.attachment.ThumbnailID@1a307e6
</value>
</selection>
</Thumbnail>
<designType
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008497">
<selection>
<id>2000008310</id>
<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</designType>
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xsi:type="xs:string" attributeId="2000008498">DESIGN09023.DRW</Number>
<Description
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008499" />
<lifeCyclePhase
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008500" />
<Version
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:double" attributeId="2000008501">2.0</Version>
<Attachments
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008504">true</Attachments>
<Linked
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008505">true</Linked>
<checkedOut
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000008506">>false</checkedOut>

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xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:type="xs:string" attributeId="2000008507" />
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<componentType
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xsi:type="common:AgileListEntryType" attributeId="2000008508" />
<checkinUser
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008819">
<selection>
<id>704</id>
<apiName xsi:nil="true" />
<value>Administrator, Admin (admin)</value>
</selection>
</checkinUser>
<modelName
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000009311" />
<Identifier
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000009312">CAX-PROE-DRW</Identifier>
<Component
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000009313" />
<Reference
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="2000009314" />
<Configuration
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xsi:type="xs:string" attributeId="2000009315" />
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</tableIdentifier>
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xsi:type="common:AgileListEntryType" attributeId="2000008557">
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<apiName>DESIGN09023TIF</apiName>
<value>com.agile.api.pc.attachment.ThumbnailID@1e9ddb1
</value>
</selection>
<selection>
<id>3570</id>
<apiName>DESIGN09022ASM</apiName>

```

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</selection>
<selection>
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<apiName>DESIGN09023TIF</apiName>
<value>com.agile.api.pc.attachment.ThumbnailID@55b0ca</value>
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<selection>
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</selection>
</Type>
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xsi:type="xs:string" attributeId="6299">P00539</numberName>
<Rev
xmlns:xs="http://www.w3.org/2001/XMLSchema" xsi:type="xs:string"
attributeId="6302">(A)</Rev>
<Description
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string" attributeId="6300" />
</lifecycleStatus
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6301">
<selection>
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</selection>
</lifecycleStatus>
</table>
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attributeId="6173">DESIGN09022.ASM</Number>
<Type
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xsi:type="common:AgileListEntryType" attributeId="6175">
<selection>
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<apiName>DESIGN</apiName>
<value>Design</value>
</selection>
</Type>
</lifecyclePhase
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... xmlns:xs="http://www.w3.org/2001/XMLSchema" attributeId="6174" />
<Description
xmlns:xs="http://www.w3.org/2001/XMLSchema"
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attributeId="6174" />
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xsi:type="xs:integer"
attributeId="7951">2</Version>
<lastModifiedDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="6178">2010-04-06T11:29:52.000Z
</lastModifiedDate>
<checkoutStatus
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xsi:type="common:AgileListEntryType" attributeId="6389">
<selection>
<id>1</id>
</selection>
<apiName>CHECKED IN</apiName>
<value>Checked
In</value>
</checkoutStatus>
<checkoutUser
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="6180" />
<checkoutDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="6184" />
<checkoutLocation
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:string"
attributeId="6183" />
<checkinDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="6388">2010-04-06T13:32:03.000Z
</checkinDate>
<createDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="6177">2010-04-06T11:22:50.000Z
</createDate>
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attributeId="2000008316" />
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xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
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<Thumbnail
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xsi:type="common:AgileListEntryType" attributeId="2000008554">
<selection>
<id>3570</id>
</selection>
<apiName>DESIGN09022ASM</apiName>
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</selection>
</Thumbnail>
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xsi:type="xs:string"
attributeId="2000008685">A v2</Revision>
<revisionDate
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xsi:type="xs:date"
attributeId="2000008686" />
<checkinUser

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xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2000008717">
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        <apiName
xsi:nil="true" />
</selection>
</checkinUser>
</itemChangeStatus
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xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2000009487" />
<createUser
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="1420">
    <selection>
        <id>704</id>
        <apiName
xsi:nil="true" />
</selection>
</createUser>
</drawnBy
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2020" />
</checkedBy
xmlns:common="http://xmlns.oracle.com/AgileObjects/Core/Common/V1"
xsi:type="common:AgileListEntryType" attributeId="2021" />
<designSystem
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2007">Pro/E Wildfire 3.0
    </designSystem>
    <CADFilename
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2017">DESIGN09022.ASM</CADFilename>
    <CADOldFilename
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2018" />
    <designSystemIdentifier
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2008" />
    <Filetype
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attributeId="2009">ASM</Filetype>
    <Subtype
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2010" />
    <Family
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2011" />
    <Variant
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attributeId="2012" />
    <drawingName
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2013" />
    <frameID
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2014" />
    <nameFormat
xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeId="2015" />

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</classIdentifier></classIdentifier>
    </userIdentification>
    <privilege>
      <privilege>15</privilege>
    </privilege>
  </checkPrivilege>
  <checkPrivilege>false</checkPrivilege>
  <classIdentifier>2000008310</classIdentifier>
  <objectNumber>DESIGN09022.ASM</objectNumber>
  </privilege>
  </responses>
</response>
</checkPrivilegeResponse>
</res>
</retrieveDesignStructureAndMetadataResponse>
</env:Body>
</env:Envelope>
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