**ECF Web Services SIP Operation Invocation**

ECF-4.0 Web Services SIP requires conformance to WS-I Basic Profile 1.1 (**[WS-I BP 1.1]**) and also requires that “the (qualified) operation name MUST be the qualified name of the first child element of the SOAP body element”.

Of the five wsdl binding style/use/patterns provided by wsdl (i.e. RPC/encoded, RPC/literal, document/encoded, document/literal, and document/literal wrapped) it is only the ‘document/literal wrapped’ pattern that is both conformant to WS-I Basic Profile 1.1 and meets the requirements of section 2.5 of the ECF WebServices SIP specification.

The current WebServices wsdl (i.e. ECF-4.0-WebServiceProfile-Definitioned.wsdl, 25 August 2008) employs the document/literal style. Some modifications would need to be made to this wsdl to support the document/literal wrapped pattern. These modifications are summarized in the annotated examples below; two examples are provided; a simpler GetCase example and a more complex ReviewFilingRequest example.

**Get Case Example**

First, both the existing wsdl and the document/literal wrapped modification reference CaseQueryMessage as defined in ECF-4.0-CaseQueryMessage.xsd; the fragment provided below for reference:

<xsd:complexType name="CaseQueryMessageType">

<xsd:annotation>

<xsd:documentation>A message requesting a list of cases from a court's case management information system conforming to the parameter or parameters identified in the message.</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ecf:QueryMessageType">

<xsd:sequence>

<xsd:element ref="nc:CaseTrackingID"/>

<xsd:element ref="CaseQueryCriteria"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:element name="CaseQueryMessage" type="CaseQueryMessageType">

<xsd:annotation>

<xsd:documentation>A message requesting a list of cases from a court's case management information system conforming to the parameter or parameters identified in the message.</xsd:documentation>

</xsd:annotation>

</xsd:element>

The fragment below shows the existing message definition in ECF-4.0-WebServicesProfile-Definitions.xsd

<message name="GetCaseRequest">

<part name="CaseQueryMessage" element="casequery:CaseQueryMessage"/>

</message>

For document/literal wrapped pattern, the following modifications would need to be made:

(1) The following Complex Type definition would be added to the <types> section:

<xsd:complexType name="GetCaseType">

<xsd:annotation>

<xsd:documentation>Testing document/literal wrapped pattern</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="casequery:CaseQueryMessageType">

<xsd:sequence>

<xsd:element ref="casequery:CaseQueryMessage"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

(2) The message definition shown above would be revised as shown below:

<message name="GetCaseRequest">

<part name="CaseQueryMessage" element="wsmp:GetCase"/>

</message>

**ReviewFilingRequest Example:**

The ReviewFilingRequest is already defined in the <types> section in the existing wsdl:

<xsd:complexType name="ReviewFilingRequestMessageType">

<xsd:annotation>

<xsd:documentation>Multi-part message type (required for conformance with WS-I Basic Profile 1.1</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ecf:ElectronicFilingMessageType">

<xsd:sequence>

<xsd:element ref="core:CoreFilingMessage"/>

<xsd:element ref="payment:PaymentMessage"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:element name="ReviewFilingRequestMessage" type="ReviewFilingRequestMessageType">

<xsd:annotation>

<xsd:documentation>Multi-part message (required for conformance with WS-I Basic Profile 1.1</xsd:documentation>

</xsd:annotation>

</xsd:element>

For the document/literal wrapped pattern the <types> fragment shown above does not need to be revised, but additional <types> must be provided as shown below:

<xsd:complexType name="ReviewFilingType">

<xsd:annotation>

<xsd:documentation>Testing document/literal wrapped pattern</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="ReviewFilingRequestMessageType">

<xsd:sequence>

<xsd:element ref="ReviewFilingRequestMessage"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:element name="ReviewFiling" type="ReviewFilingType">

<xsd:annotation>

<xsd:documentation>Testing document/literal wrapped pattern</xsd:documentation>

</xsd:annotation>

</xsd:element>

Finally, the ReviewFilingRequest message must be revised from the existing:

<message name="ReviewFilingRequest">

<part name="ReviewFilingRequestMessage" element="wsmp:ReviewFilingRequestMessage"/>

</message>

To:

<message name="ReviewFilingRequest">

<part name="ReviewFilingRequestMessage" element="wsmp:ReviewFiling"/>

</message>

The example above show the revisions necessary for one simple and one complex message. Appropriate revisions would need to be provided for all request messages.