



# Electronic Court Filing 4.0 Web Services Service Interaction Profile Version 2.01

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### Related work:

This specification replaces or supercedes:

- [OASIS LegalXML Electronic Court Filing Web Services Service Interaction Profile 1.0](#)
- [OASIS LegalXML Electronic Court Filing Web Services Service Interaction Profile 1.1](#)

This specification is related to:

- [OASIS LegalXML Electronic Court Filing v4.0 Specification](#)

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**Abstract:**

This document defines a Service Interaction Profile, as defined in section 5 of the LegalXML Electronic Court Filing 4.0 (ECF 4.0) specification. The Web Services Service Interaction Profile may be used to transmit ECF 4.0 messages between Internet-connected systems.

**Status:**

This document was last revised or approved by the LegalXML Electronic Court Filing TC on the above date. The level of approval is also listed above. Check the "Latest Version" or "Latest Approved Version" location noted above for possible later revisions of this document.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at <http://www.oasis-open.org/committees/legalxml-courtfilling/>.

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# 1 Introduction

This document defines a Service Interaction Profile, as called for in section 5 of [ECF 4.0]. The purpose of the Web Services Service Interaction Profile is to provide a web service-based system in conformance with the WS-I Basic Profile 1.1 ([WS-I BP 1.1]) and Basic Security Profile 1.0 ([WS-I BP 1.0]) for use with the [ECF 4.0] specification. This version adds support for bulk filings, improves security support for tokens, attachments, and rights management through inclusion of WS-Security 1.1 and adds supports for message splitting and assembly through inclusion of WS-Reliable Messaging 1.0.. This specification requires an active network connection between the sending and receiving MDEs.

## 1.1 Relationship to ECF 4.0 Specifications

The ECF 4.0 specification describes the technical architecture and the functional features of an electronic court filing system, that is, features needed to accomplish electronic filing in a court, pointing out both normative (required) and non-normative (optional) business processes it supports. The non-functional requirements associated with electronic filing transactions, and actions and services needed to accomplish the transactions, such as network structures and security infrastructures, are defined in related specifications, namely:

- Service interaction profile specifications defining communications infrastructures within which electronic filing transactions can take place.
- Document signature profile specifications that define mechanisms for stating or proving that a person signed a particular document.

This specification represents an ECF 4.0 service interaction profile based on web-services. It is intended for implementation in conjunction with the ECF 4.0 specification and at least one ECF 4.0 document signature profile specification. Specifically, in this service interaction profile, the implementation details for each of the Major Design Elements (MDEs), operations, and messages defined in the ECF 4.0 specification, are defined in Web Services Description Language (WSDL).

## 1.2 Relationship to other XML Specifications

Consistent with the ECF 4.0 principle of leveraging other existing, non-proprietary XML specifications wherever possible, this service interaction profile specification leverages previous specifications for web services messaging and security including the following:

- W3C XML Schema 1.0.
- W3C Namespaces in XML.
- W3C Simple Object Access Protocol (SOAP) 1.1.
- W3C Web WSDL 1.1.
- W3C XML-Signature Syntax and Processing.
- W3C SOAP 1.1 Binding for MTOM 1.0
- WS-I Basic Profile Version 1.1.
- WS-I Basic Security Profile Version 1.0.
- OASIS WS-Reliable Messaging 1.0.

The use of each of these specifications is described below.

### 1.2.1 W3C XML Schema 1.0

The W3C XML Schema 1.0 specification defines an application protocol for imposing constraints on the storage layout and logical structure of data objects using text tags or “markup.” Compliance with the

43 requirements of the XML Schema 1.0 specification is REQUIRED for compliance with this service  
44 interaction profile.

## 45 **1.2.2 W3C Namespaces in XML**

46 The W3C Namespaces in XML specification defines conventions for defining and referring to separate  
47 XML tags. Compliance with the requirements of the Namespaces in XML specification is REQUIRED for  
48 compliance with this service interaction profile.

## 49 **1.2.3 W3C Simple Object Access Protocol (SOAP) 1.1**

50 The W3C SOAP 1.1 specification defines message exchange patterns and message structures for use  
51 with XML. Compliance with the requirements of the SOAP 1.1 specification is REQUIRED for compliance  
52 with this service interaction profile.

## 53 **1.2.4 W3C Web Services Description Language (WSDL) 1.1**

54 The W3C WSDL specification enables the description of services as sets of endpoints operating on  
55 messages. Compliance with the requirements of the WSDL 1.1 specification is REQUIRED for  
56 compliance with this service interaction profile.

57 An MDE implementation MUST consist of a SOAP 1.1 web service that implements the SOAP HTTP  
58 binding for that MDE's portType from the `ECF-4.0-WebServicesProfile-Definitions.wsdl` document  
59 (provided with this specification). Further, the implementation MUST be accompanied by an  
60 implementation-specific WSDL document that imports the namespace defined in `ECF-4.0-`  
61 `WebServicesMProfile-Definitions.wsdl`, and defines a `<wsdl:service>` element containing a  
62 `<soap:address>` element with a `location` attribute whose value provides an HTTP URL at which the  
63 MDE implementation can be invoked.

64 (Note that in the previous paragraph, a namespace prefix of "wsdl" is assumed to map to the  
65 <http://schemas.xmlsoap.org/wsdl/> namespace, while the namespace prefix of "soap" is  
66 assumed to map to the <http://schemas.xmlsoap.org/wsdl/soap/> namespace.)

67 An example implementation-specific WSDL document (`ECF-4.0-WebServicesProfile-`  
68 `ImplementationExample.wsdl`) is provided with this specification.

## 69 **1.2.5 W3C XML-Signature Syntax and Processing**

70 The W3C XML Signature Syntax and Processing specification defines representations of signatures of  
71 Web resources, portions of protocol messages (anything that may be referenced by a URI), and  
72 procedures for computing and verifying such signatures. Compliance with the requirements of the XML  
73 Signature Syntax and Processing specification is REQUIRED for compliance with this service interaction  
74 profile.

## 75 **1.2.6 WS-I Basic Profile 1.1**

76 The WS-Interoperability Basic Profile 1.1 (**[WS-I BP 1.1]**) specification defines a set of best practices for  
77 implementing interoperable web services. Compliance with the requirements of the **[WS-I BP 1.1]** is  
78 REQUIRED for compliance with this service interaction profile.

## 79 **1.2.7 W3C SOAP 1.1 Binding for MTOM 1.0**

80 The SOAP 1.1 Binding for MTOM 1.0 (**[ SOAP MTOM 1.0]**) defines a set of best practices for  
81 implementing interoperable serialization of the SOAP envelope and its representation in the message.  
82 This binding MUST be used as a replacement for the WS-I Attachments Profile 1.0 and the W3C Simple  
83 SOAP Binding Profile in the WS-I Basic Profile **[WS-I BP 1.1]**. Compliance with the requirements of the **[**  
84 **SOAP MTOM 1.0]** and the specifications that this binding references, the SOAP Message Transmission  
85 Optimization Mechanism (MTOM) (**[MTOM]**) and the W3C XML-binary Optimized Packaging (XOP)  
86 specifications (**[XOP]**), is REQUIRED for compliance with the web services service interaction profile.

## 87 **1.2.8 WS-I Basic Security Profile 1.0**

88 The WS-Interoperability Basic Security Profile Version 1.0 (**[WS-I BSP 1.0]**) complements **[WS-I BP 1.0]**  
89 and defines a set of best practices for implementing interoperable and secure web services. With the  
90 exception of the requirements for use of the WS-I Attachments Profile 1.0 and the W3C Simple SOAP  
91 Binding Profile 1.0, compliance with the requirements of **[WS-I BSP 1.0]** is REQUIRED for compliance  
92 with this service interaction profile. However, in many cases, **[WS-I BSP 1.0]** is underspecified. The  
93 following options in **[WS-I BSP 1.0]** are REQUIRED for compliance with this web services service  
94 interaction profile:

- 95 • E0002 - Security Tokens - Security tokens MUST be specified in additional security token profiles.  
96 (NOTE: This will be determined in Court Policy)
- 97 • R3103 - A SIGNATURE MUST be a Detached Signature as defined by the XML Signature  
98 specification.

## 99 **1.2.9 WS-ReliableMessaging Version 1.0**

100 The WS-Reliability 1.1 (**[WS-RM 1.0]**) specification complements **[WS-I BP 1.1]** and defines a set of  
101 extensions for exchanging SOAP messages with guaranteed delivery, no duplicates, and guaranteed  
102 message ordering.

## 103 **1.3 Terms and Definitions**

104 The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD  
105 NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described  
106 in **[RFC2119]**.

107

108 The key terms used in this specification include:

### 109 **Attachment**

110 Information transmitted between MDEs that is of an arbitrary format, and is related to the  
111 message(s) in the transmission in a manner defined in the ECF 4.0 specification. An attachment  
112 may be in XML format, non-XML text format, encoded binary format, or un-encoded binary  
113 format.

### 114 **Callback message**

115 A message transmission returned by some operations some time after the operation was invoked  
116 (asynchronously).

### 117 **Document**

118 Represents an electronic version of the paper that would have been sent as paper.

### 119 **Docketing**

120 The process invoked when a court receives a pleading, order, or notice, when no errors in  
121 transmission or in presence of required content have occurred, and when the pleading, order, or  
122 notice is recorded as a part of the official record.

### 123 **Filer**

124 Attorneys or pro se litigants are individuals who assemble and submit Filings (data and  
125 documents).

### 126 **Filing**

127 Electronic document collection that has been assembled for filing on a designated court case.

### 128 **Major Design Element (MDE)**

129 A logical grouping of operations representing a significant business process supported by ECF  
130 4.0. Each MDE operation receives one or more messages, returns a synchronous response  
131 message, and optionally sends an asynchronous response message back to the original sender.

132 **Message**

133 Information transmitted between MDEs that consists of a well-formed XML document that is valid  
134 against one of the defined message structure schemas in the ECF 4.0 specification. A message  
135 may be related to one or more attachments in a manner defined in the ECF 4.0 specification.

136 **Message Transmission**

137 The sending of one or more messages and associated attachments to an MDE. Each  
138 transmission must invoke or respond to an operation on the receiving MDE, as defined in the  
139 ECF 4.0 specification.

140 **Operation (or MDE Operation)**

141 A function provided by an MDE upon receipt of one or more messages. The function provided by  
142 the operation represents a significant step in the court filing business process. A sender invokes  
143 an operation on an MDE by transmitting a set of messages to that MDE, addressed to that  
144 operation.

145 **Operation signature**

146 A definition of the input message(s) and synchronous response message associated with an  
147 operation. Each message is given a name and a type by the operation. The type is defined by a  
148 single one of the message structures defined in the ECF 4.0 specification.

149 **Receiving MDE**

150 In an Electronic Court Filing operation, the MDE that receives the request with the operation  
151 invocation performs the operation and sends the response.

152 **Sending MDE**

153 In an Electronic Court Filing operation, the MDE that sends the request including the operation  
154 invocation and receives the response with the results of the operation.

155 **Synchronous response**

156 A message transmission returned immediately (synchronously) as the result of an operation.  
157 Every operation has a synchronous response.

158 **1.4 Symbols and Abbreviations**

159 The key symbols and abbreviations used in this specification include:

160

161 **ECF 4.0**

162 OASIS LegalXML Electronic Court Filing 4.0

163 **MDE**

164 Major Design Element

165 **OASIS**

166 Organization for the Advancement of Structured Information Systems

167 **SOAP**

168 Simple Object Access Protocol

169 **XML**

170 eXtensible Markup Language

171 **W3C**

172 World Wide Web Consortium

173 **WSDL**

174 Web Services Description Language



## 178 **1.5 Normative References**

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- 241

## 242 2 Profile Design

243 This section describes the design of the Web Services Service Interaction Profile and identifies how it  
244 satisfies the requirements of a document signature profile listed in Section 5 of the [ECF 4.0]  
245 specification. In addition, this profile is intended for compatibility with the Global Justice Reference  
246 Architecture Web Services Service Interaction Profile [JRA WS-SIP].

### 247 2.1 Service Interaction Profile Identifier

248 Each ECF 4.0 service interaction profile MUST be identified with a unique URI which is used in the ECF  
249 4.0 court policy to identify the service interaction profile(s) that a given MDE supports. The ECF 4.0 Web  
250 Services Service Interaction Profile 2.0 will be identified by the following URI:

251 urn:oasis:names:tc:legalxml-courtfilling:schema:xsd:WebServicesProfile-2.0

252 All ECF 4.0 messages sent via this service interaction profile MUST include this URI in the  
253 <SendingMDEProfileCode> element. In addition, any court supporting this service interaction profile  
254 MUST include this URI in the <SupportedMessageProfile> element in the  
255 **CourtFilingResponseMessage**.

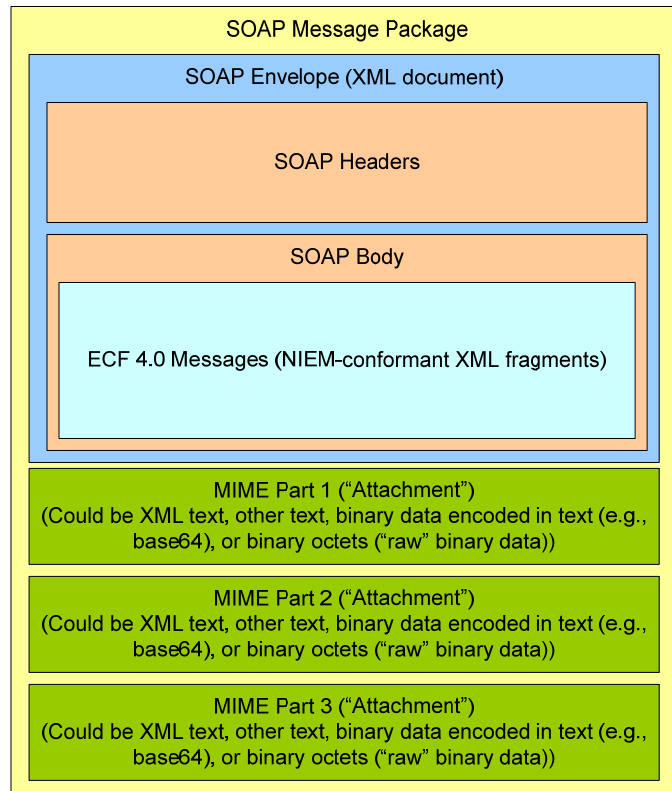
### 256 2.2 Transport Protocol

257 Each ECF 4.0 message transmission sent using this service interaction profile MUST be encapsulated in  
258 a SOAP message over the HTTP 1.1 protocol as defined in the [WSI-1 BP 1.1] and [SOAP MTOM]  
259 specifications. Figure 1 illustrates the containment of ECF 4.0 messages and attachments within a SOAP  
260 Message Package. For compliance with this specification, a SOAP envelope MUST contain one or more  
261 messages and MAY contain one or more attachments.

262

263

Figure 1. SOAP Envelope with ECF 4.0 Messages and Attachments



264

## 265 **2.3 MDE Addressing**

266 Each ECF message transmission sent using this service interaction profile MUST identify the sending and  
267 receiving MDEs with universally unique address identifiers. The identifier for each MDE will be assigned  
268 by the organization that manages the MDE and MUST be the HyperText Transfer Protocol (HTTP) or  
269 HTTP over Secure Socket Layer (SSL) permanent URL for the MDE web service.

270 This URL MUST be the value of the `location` attribute of the `<soap:address>` element contained within  
271 the `<wsdl:service>` element that binds the MDE's `portType` to a service, and that is defined in the  
272 implementation-specific WSDL document discussed in section 1.2.4 above.

273 For instance, a conformant MDE ID of a web service at `courts.wa.gov` using HTTP over SSL on port 8000  
274 would be as follows:

275 `https://courts.wa.gov:8000`

## 276 **2.4 Operation Addressing**

277 Each message transmission MUST either identify the operation or operations being invoked or be a  
278 synchronous response to a previous request. Each operation MUST be either a required operation as  
279 defined in the ECF 4.0 specification or an optional operation identified as supported by the court through  
280 the current machine-readable court policy. The response to a request for an operation not supported by  
281 the court MUST be reported using the ECF 4.0 `<ErrorCode>` element in the core message and MAY  
282 also include a `SOAPFault` in the SOAP envelope.

## 283 **2.5 Request and Operation Invocation**

284 Each message transmission MUST identify the operation being invoked within the SOAP Body only; the  
285 (qualified) operation name MUST be the qualified name of the first child element of the SOAP body  
286 element, as called for in section 7.1 of the **[SOAP 1.1]** specification.

287 An MDE implementation MAY allow message transmissions that include a `SOAPAction` HTTP header.

288 In compliance with the **[WS-I BP 1.1]** specification, a receiving MDE MAY NOT rely on the value of the  
289 `SOAPAction` HTTP header in processing the message.

## 290 **2.6 Synchronous Mode Response**

291 Synchronous responses to requests MUST be encoded using the MIME binding defined in Section 4.1.1  
292 of the **[SOAP MTOM 1.0]** specification.

## 293 **2.7 Asynchronous Mode Response**

294 The receiving MDE MUST deliver the asynchronous response to a request sent using the web services  
295 service interaction profile by sending the asynchronous response to the sending MDE via the web  
296 services service interaction profile. The response message transmission MUST conform to the rules for  
297 message transmissions established in section 2.5 of this specification above.

## 298 **2.8 Message/Attachment Delimiters**

299 The ECF 4.0 messages MUST be encapsulated in the SOAP Body. All other attachments MUST be  
300 included in separate MIME parts as shown in Figure 1. The delimiters between the message and the first  
301 attachment, and between attachments, must comply with the rules for delimiting MIME parts as defined in  
302 **[RFC2045]**.

## 303 **2.9 Message Identifiers**

304 Each MIME part that includes an attachment MUST have a unique "Content-ID" as defined in **[RFC2045]**  
305 that uniquely identifies the content within that part.

## 306 2.10 Message Non-repudiation

307 The SOAP message MAY include a digital signature applied to the SOA Body and all MIME parts that  
308 contain messages or attachments. The digital signature MUST be conformant with Section 8 of the **[WS-I  
309 BSP 1.0]** specification which references the **[XMLSIG]** specification. The algorithms defined by  
310 **[XMLSIG]** support non-repudiation of the signer and signing date through a digital signature created  
311 using the signer's private key. Because the sender is the only one with access to the private key and the  
312 date is included in the signature, receivers can be reasonably assured of the signer and signing date.

## 313 2.11 Message Integrity

314 The algorithms defined by **[XMLSIG]** support message integrity through inclusion of a public-key-based  
315 digital signature. Because the signing date and message hash are included in the signature and the  
316 entire signature is computed using the sender's private key, the receiver can compare the hashes to  
317 verify that the message has not been altered since it left the control of the sender on the specified date.

## 318 2.12 Message Confidentiality

319 If the Filing Review MDE supports the filing of confidential filings and publishes the court's public key in  
320 court policy, messages and attachments MAY be encrypted for filing into the court according to Section 9  
321 of the **[WS-I BSP 1.0]** specification which references the **[XMLENC]** specification. Because the Filing  
322 Review MDE is the only one with access to the court's private key, filers can be reasonably assured that  
323 only the Filing Review MDE will be able to read the message or attachment.

324 This mechanism MAY be used to protect sensitive or confidential information in a filing such as the  
325 FilingPaymentMessage. However, this specification does NOT support the transmission of messages and  
326 attachments encrypted with the court's public key to other parties in the case. Any messages and  
327 attachments transmitted to other parties MUST be either encrypted with the party's public key or not  
328 encrypted. This specification and the ECF 4.0 specification do NOT define the exchange or publication of  
329 public keys by persons or organizations other than the court.

## 330 2.13 Message Authentication

331 Each MDE MAY define HTTP credentials for authentication to access the operations supported by that  
332 MDE. If authentication is required, the sending MDE MUST include the credentials in the request as  
333 defined in **[RFC2617]**.

334 For instance, the Filing Review MDE MAY assign user ID and password pairs to each supported Filing  
335 Assembly MDE, and require authentication for ReviewFiling operations but not query operations. In that  
336 case, each Filing Assembly MDE would include the user ID and password assigned to them in each filing.

## 337 2.14 Message Reliability

338 If a court expresses support for message reliability in human-readable court policy, a sending MDE MAY  
339 include reliability extensions to the SOAP envelope as defined in the **[WS-RM 1.0]** specification. An MDE  
340 that receives a request with a SOAP envelope that includes reliability extensions MUST include reliability  
341 extensions as defined by **[WS-RM 1.0]** in the response.

## 342 2.15 Message Splitting and Assembly

343 WS-Reliable Messaging defines mechanisms by which messages MAY be split into multiple pieces that  
344 are assigned sequence numbers and transmitted separately by the RM Source (sending MDE) and  
345 reassembled into the complete message by the RM Destination (receiving MDE).

346

347 **2.16 Transmission Auditing**

348 An implementation of the web services message profile **MUST** ensure that the complete SOAP message,  
349 including the SOAP envelope, any attachments, and signatures, is available to the receiving MDE for  
350 persisting and auditing purposes.

351

---

352 **3 Service Definitions**

353 Implementation of this service interaction profile MUST be described in a WSDL file that imports the  
354 service definitions from the [ECF-4.0-WebServicesProfile-Definitions.wsdl](#) file included with this  
355 specification.

---

356 **4 Conformance**

357 *An implementation conforms with the ECF 4.0 Web Services SIP if the implementation meets the*  
358 *requirements in Sections 1 and 2 and publishes a WSDL as required in Section 3.*

359



---

## 360 **Appendix A. (Informative) Acknowledgments**

361 The following individuals were members or voting members of the committee during the development of  
362 this specification:

363 **Participants:**

364 Rolly Chambers, American Bar Association  
365 John Messing, American Bar Association  
366 Adam Angione, Courthouse News Service  
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390

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## Appendix B. (Informative) Revision History

<b>Revision</b>	<b>Date</b>	<b>Editor</b>	<b>Changes Made</b>
Wd01	2008-08-18	James Cabral	Initial version
Wd02	2008-08-25	James Cabral	Revised WSDL
Wd03	2008-09-03	James Cabral	Changed "WebServicesMessagingProfile" to "WebServicesProfile"
2.01	2009-07-14	James Cabral	Made corrections to the WSDL to fix conformance issues with WS-I Basic Profile 1.1

391

392

## Appendix C. (Informative) Example Implementation

393

This non-normative section provides an example WSDL implementation of this service interaction profile.

394

This is also included in [ECF-4.0-WebServicesProfile-ImplementationExample.wsdl](#) file included with

395

this specification. Note that the following is for illustrative purposes only.

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```
<definitions
  targetNamespace="urn:oasis:names:tc:legalxml-courtfiling:wSDL:WebServiceProfile-
ImplementationExample-4.0"
  xmlns:wsmpt="urn:oasis:names:tc:legalxml-courtfiling:wSDL:WebServiceProfile-
Definitions-4.0"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wSDL/soap/"
  xmlns:wSDL="http://schemas.xmlsoap.org/wSDL/"
  xmlns="http://schemas.xmlsoap.org/wSDL/">

  <import namespace="urn:oasis:names:tc:legalxml-courtfiling:wSDL:WebServiceProfile-
Definitions-4.0" location="ECF-4.0-WebServicesProfile-Definitions.wsdl"/>

  <service name="ServiceMDEService">
    <port name="ServiceMDEPort" binding="wsmpt:ServiceMDEPortSOAPBinding">
      <soap:address location="https://localhost/..."/>
    </port>
  </service>

  <service name="FilingAssemblyMDEService">
    <port name="FilingAssemblyMDEPort"
binding="wsmpt:FilingAssemblyMDEPortSOAPBinding">
      <soap:address location="https://localhost/..."/>
    </port>
  </service>

  <service name="CourtRecordMDEService">
    <port name="CourtRecordMDEPort" binding="wsmpt:CourtRecordMDEPortSOAPBinding">
      <soap:address location="https://localhost/..."/>
    </port>
  </service>

  <service name="FilingReviewMDEService">
    <port name="FilingReviewMDEPort" binding="wsmpt:FilingReviewMDEPortSOAPBinding">
      <soap:address location="https://localhost/..."/>
    </port>
  </service>
</definitions>
```

438

---

## 439 Appendix D. (Informative) Example Transmissions

440 This non-normative section provides an example transmission that demonstrates an operation invocation,  
441 a synchronous response, and an asynchronous response using this service interaction profile. Note that  
442 these examples are for illustrative purposes only.

### 443 D.1 Operation Invocation

444 This is an example of a request including a ReviewFiling operation invocation.

445

```
446 MIME-Version: 1.0
447 Content-Type: Multipart/Related; boundary=boundary;
448   type="application/xop+xml";
449   start="Envelope"
450   start-info="text/xml"
451
452 --boundary
453 Content-Type: application/xop+xml;
454   text/xml; charset="UTF-8"
455 Content-Transfer-Encoding: 8bit
456 Content-ID: Envelope
457
458 <?xml version='1.0' ?>
459 <env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
460   <env:Body xmlns:types="http://example.com/some-namespace">
461     <types:ReviewFiling>
462
463       <CoreFilingMessage>
464         ...
465       </CoreFilingMessage>
466
467       <PaymentMessage>
468         ...
469       </PaymentMessage>
470
471     </types:ReviewFiling>
472   </env:Body>
473 </env:Envelope>
474
475 --boundary
476 Content-Type: application/pdf
477 Content-Transfer-Encoding: binary
478 Content-ID: Attachment1
479
480 ...Lead Document...
481 --boundary-
482 Content-Type: application/pdf
483 Content-Transfer-Encoding: binary
484 Content-ID: Attachment2
485
486 ...Connected Document...
487 --boundary--
488
```

489

490

## 491 D.2 Synchronous Response

492 This is an example of a MessageReceiptMessage synchronous response.

```
493 MIME-Version: 1.0
494 Content-Type: Multipart/Related; boundary=boundary;
495     type="application/xop+xml";
496     start="Envelope"
497     start-info="text/xml"
498
499 --boundary
500 Content-Type: application/xop+xml;
501     text/xml; charset="UTF-8"
502 Content-Transfer-Encoding: 8bit
503 Content-ID: Envelope
504
505 <?xml version='1.0' ?>
506 <env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
507     <env:Body xmlns:types="http://example.com/some-namespace">
508         <types:ReviewFiling-Response>
509
510             <MessageReceiptMessage>
511                 ...
512             </MessageReceiptMessage>
513
514         </types:ReviewFiling-Response>
515     </env:Body>
516 </env:Envelope>
517
```

518

519

## 520 D.3 Asynchronous Response

521 This is an example of a NotifyFilingReviewComplete asynchronous response.

522

```
523 MIME-Version: 1.0
524 Content-Type: Multipart/Related; boundary=boundary;
525     type="application/xop+xml";
526     start="Envelope"
527     start-info="text/xml"
528
529 --boundary
530 Content-Type: application/xop+xml;
531     text/xml; charset="UTF-8"
532 Content-Transfer-Encoding: 8bit
533 Content-ID: Envelope
534
535 <?xml version='1.0' ?>
536 <env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
537     <env:Body xmlns:types="http://example.com/some-namespace">
538         <types:NotifyFilingReviewComplete>
539
540             <ReviewFilingCallbackMessage>
541                 ...
542             </ReviewFilingCallbackMessage>
543
544             <PaymentReceiptMessage>
545                 ...
546             </PaymentReceiptMessage>
547
548         </types:NotifyFilingReviewComplete>
549     </env:Body>
550 </env:Envelope>
551
552 --boundary
553 Content-Type: application/pdf
554 Content-Transfer-Encoding: binary
555 Content-ID: Attachment1
556
557 ...Lead Document...
558 --boundary-
559 Content-Type: application/pdf
560 Content-Transfer-Encoding: binary
561 Content-ID: Attachment2
562
563 ...Connected Document...
564 --boundary--
565
```

566

567

568