



Electronic Court Filing 4.0 Portable Media Service Interaction Profile Version 2.0

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Related work:

This specification replaces or supercedes:

- [OASIS LegalXML Electronic Court Filing Portable Media Service Interaction Profile 1.0](#)
- [OASIS LegalXML Electronic Court Filing Portable Media 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 Portable Media Service Interaction Profile may be used to store ECF 4.0 message transmissions to portable media in the absence of an active network between the sending and receiving MDEs.

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.

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1 Introduction

This document is a Proposed Standard developed by the OASIS LegalXML Member Section's Electronic Court Filing (ECF) Technical Committee that defines a service interaction profile for use with the ECF 4.0 specification that does not require an active network connection.

This specification is intended for use with the Electronic Court Filing 4.0 (ECF4.0) specification and defines a transmission system in which the sending Major Design Element (MDE) stores message transmissions to portable media (e.g. CD, DVD, USB drive) which is then physically transported to the receiving MDE for retrieval of the message transmissions. This specification may be used in the absence of an active network between the sending and receiving MDEs.

Two use cases are contemplated for this service interaction profile:

1. Failure of a network or communications component which makes transmission through fully electronic means impossible; and
2. Transmission of a document so large that it exceeds the maximum file size of the other ECF 4.0 service interaction profiles supported by the receiving MDE.

This service interaction profile is intended for supplementary use only. It **MUST NOT** be used as the sole means for transmitting electronic filing messages between a Filing Assembly MDE and a Filing Review MDE. Because it is exclusively for supplementary use, it relies on and uses many of the non-functional features of one of the court's primary service interaction profiles. The primary service interaction profile on which this message relies is identified for each transmission.

1.1 Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in **Error! Reference source not found.**

The key terms used in this specification include:

Attachment

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

Callback message

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

Document

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

Docketing

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

Filer

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

Filing

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

46 **Major Design Element**

47 A logical grouping of operations representing a significant business process supported by ECF
48 4.0. Each MDE operation receives one or more messages, returns a synchronous response
49 message, and optionally sends an asynchronous response message back to the original sender.

50 **Message**

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

54 **Message Transmission**

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

58 **Operation (or MDE Operation)**

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

63 **Operation signature**

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

67 **Receiving MDE**

68 In an ECF operation, the MDE that receives the request with the operation invocation, performs
69 the operation and sends the response.

70 **Sending MDE**

71 In an ECF operation, the MDE that sends the request including the operation invocation and
72 receives the response with the results of the operation.

73 **Synchronous response**

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

76 **1.2 Symbols and Abbreviations**

77

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

79

80 **ECF 4.0**

81 Electronic Court Filing 4.0

82 **MDE**

83 Major Design Element

84 **OASIS**

85 Organization for the Advancement of Structured Information Systems

86 **URI**

87 Uniform Resource Identifier

88 **XML**

89 eXtensible Markup Language
90 **W3C**
91 World Wide Web Consortium
92 **WS-I**
93 Web Services Interoperability Organization
94

95 **1.3 Normative References**

96 **[RFC2119]** S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*,
97 <http://www.ietf.org/rfc/rfc2119.txt>, IETF RFC 2119, March 1997.
98 **[ECF 4.0]** A. Angione (editor), *LegalXML Electronic Court Filing v4.0*, [http://www.oasis-](http://www.oasis-open.org/apps/org/workgroup/legalxml-courtfilling/)
99 [open.org/apps/org/workgroup/legalxml-courtfilling/](http://www.oasis-open.org/apps/org/workgroup/legalxml-courtfilling/), OASIS Working Draft, August
100 2008.
101 **[XMLENC]** D. Eastlake, J. Reagle, *XML Encryption Syntax and Processing*,
102 <http://www.w3.org/TR/2002/REC-xmlenc-core-20021210/>, W3C
103 Recommendation, December 2002.
104 **[XMLSIG]** D. Eastlake., J. Reagle, D. Solo, *XML-Signature Syntax and Processing*,
105 <http://www.w3.org/TR/2002/REC-xmlsig-core-20020212/>, W3C
106 Recommendation, February 2002.
107

108 **1.4 Non-Normative References**

109 **[Reference]** [Full reference citation]
110

111 2 Profile Design

112 This section describes the design of the portable media service interaction profile and identifies how it
113 satisfies the service interaction profile requirements listed in Section 5 of the [ECF 4.0] specification.

114 2.1 Service Interaction Profile Identifier

115 Each ECF 4.0 service interaction profile MUST be identified with a unique Uniform Resource Identifier
116 (URI) which is used in the ECF 4.0 court policy to identify the service interaction profile(s) that a given
117 MDE supports. The ECF 4.0 Portable Media Service Interaction Profile 1.0 will be identified by the
118 following URI:

119 `urn:oasis:names:tc:legalxml-courtfiling:schema:xsd:PortableMediaProfile-2.0`

120 Because this service interaction profile is exclusively for supplementary use, it relies on and uses many of
121 the non-functional features of one of the primary service interaction profiles identified in court policy.
122 Therefore, with the exception of identifying the supported service interaction profiles in court policy, the
123 primary service interaction profile identifier, NOT the portable media service interaction profile identifier,
124 will be included in all other ECF 4.0 messages.

125 2.2 Transport Protocol

126 An ECF 4.0 message is transmitted from a sending MDE to a receiving MDE by storage on a portable
127 media (e.g. CD, DVD, or USB drive) and physical delivery of the medium to the receiving MDE. A court
128 supporting this service interaction profile will define in human-readable court policy which transmission
129 media (e.g. CD-R, DVD-R) and file systems (e.g. FAT, NTFS) it supports.

130 A sending MDE MUST include an XML file named `ECFOperation.xml` on the root folder of the file system
131 on the portable media. Therefore, there MUST be only one message transmission on a single portable
132 media. This file MUST be XML valid against the `ECF-4.0-PortableMediaMessagingProfile.xsd`
133 schema included in this specification. that identifies the receiving MDE, the ECF 4.0 operation being
134 invoked, and the files that contain each message and attachment that is part of the operation.

135 The sender will be responsible for arranging for the delivery of the transmission medium from the location
136 of the sending MDE to the location of the receiving MDE. In the case of the ReviewFiling operation, the
137 media should be delivered to the filing counter of the receiving court, unless the court describes a
138 different physical location for receipt of these filings in human-readable court policy.

139 2.3 MDE Addressing

140 An ECF message using this service interaction profile will use the MDE addresses otherwise used by the
141 MDEs for purposes of ECF 4.0 messages using the primary service interaction profile on which the
142 particular message is based.

143 The portable medium will include this information printed in the language of the court on the front of the
144 transport medium, on a box or sleeve in which it is transported, or on an accompanying piece of paper:

- 145 • The primary service interaction profile on which this message relies. If the court supports only one
146 primary service interaction profile, this information is not required.
- 147 • The name of the person or entity on whose behalf the filing is submitted.
- 148 • The short title of the case and the case number if the filing is in an existing case.
- 149 • The name of the attorney, if any, submitting the filing.
- 150 • The title of the lead document submitted for filing.
- 151 • The name, physical address, and telephone number of the person or entity to whom the
152 asynchronous response shall be transmitted when the filing transaction is complete.

153 **2.4 Operation Addressing**

154 The `ECFOperation.xml` file MUST identify the operation being invoked. The operation MUST be either a
155 required operation as defined in the ECF 4.0 specification or an optional operation identified as supported
156 through court policy.

157 In this version of the service interaction profile, the only supported operations WILL be the ECF 4.0
158 `ReviewFiling` operation and the corresponding synchronous response. It WILL NOT support any of
159 the ECF 4.0 query, asynchronous response, or electronic service operations or the `RecordFiling`
160 operation.

161 **2.5 Request and Operation Invocation**

162 A sending MDE MUST include an XML file named `ECFOperation.xml` on the root folder of the portable
163 media. This file MUST be a valid instance of the `ECF-4.0-PortableMediaProfile.xsd` schema included
164 in this specification which identifies the receiving MDE, the ECF 4.0 operation being invoked, and the files
165 that contain each message and attachment that is part of the operation.

166 The receiving MDE MUST maintain at least one computer configured to receive ECF messages using this
167 profile. Once the portable medium is inserted, the receiving MDE will load the ECF message as if it were
168 submitted in a fully electronic transmission.

169 **2.6 Synchronous Mode Response**

170 The receiving MDE will print the synchronous response which will be physically delivered back to the
171 sending MDE. The delivery of the printed synchronous response may be by the same person that
172 delivered the transportation medium to the receiving MDE.

173 **2.7 Asynchronous Mode Response**

174 The receiving MDE MUST deliver the asynchronous response to an operation by sending the
175 asynchronous response electronically to the sending MDE via the primary service interaction profile as if
176 the message had been submitted in accordance with the identified primary message profile.

177 **2.8 Message/Attachment Delimiters**

178 The sending MDE will store each message and attachment in a message transmission in a separate file
179 on the portable media. It is RECOMMENDED that all the files that make up a message transmission be
180 stored in the same directory.

181 **2.9 Message Identifiers**

182 The `ECFOperation.xml` file includes a unique sequence number and filename for each message.

183 **2.10 Message Non-Repudiation**

184 The `ECFOperation.xml` file MAY include a digital signature applied to the files that contain messages or
185 attachments. The digital signature MUST be conformant with the **[XMLSIG]** specification. The algorithms
186 defined by **[XMLSIG]** support non-repudiation of the signer and signing date through a digital signature
187 created using the signer's private key. Because the sender is the only one with access to the private key
188 and the date is included in the signature, receivers can be reasonably assured of the signer and signing
189 date.

190 **2.11 Message Integrity**

191 The algorithms defined by **[XMLSIG]** support message integrity through inclusion of a public-key-based
192 digital signature. Because the signing date and message hash are included in the signature and the

193 entire signature is computed using the sender's private key, the receiver can compare the hashes to
194 verify that the message has not been altered since it left the control of the sender on the specified date.

195 **2.12 Message Confidentiality**

196 If the Filing Review MDE supports the filing of confidential documents and the publication of the court's
197 public key in court policy. Messages and attachments MAY be encrypted for filing into the court
198 according to the [XMLENC] specification. Because the Filing Review MDE is the only one with access to
199 the court's private key, filers can be reasonably assured that only the Filing Review MDE will be able to
200 read the message or attachment.

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

207 **2.13 Message Authentication**

208 The sending MDE shall include in the ECF message the credentials that demonstrate its identity to the
209 receiving MDE as set forth in the ECF 4.0 specification.

210 **2.14 Message Reliability**

211 Reliability will not be enforced through this service interaction profile. If a filer wishes to have a guarantee
212 that a message transmission using this service interaction profile will be delivered to the receiving MDE
213 within a specified period of time, or receive notification that the transmission was not so delivered, that
214 person or organization should enter into an agreement with its employee or subcontractor effecting
215 physical delivery of the transmission medium containing such terms.

216 **2.15 Message Splitting and Assembly**

217 Message splitting and assembly will not be supported through this service interaction profile. It is
218 assumed that the portable media will be sufficient in size to support an entire message.

219 **2.16 Transmission Auditing**

220 This service interaction profile ensures that the receiving MDE will obtain the transmitted message in its
221 entirety for auditing purposes.

222

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3 Schema

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A portable media compliant with this service interaction profile MUST contain an `ECFOperations.xml` file valid against the following schema defined in the [ECF-4.0-PortableMediaProfile.xsd](#) file:

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```
<xsd:schema xmlns="urn:oasis:names:tc:legalxml-court filing:wSDL:PortableMediaProfile-4.0" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:portablemedia="urn:oasis:names:tc:legalxml-court filing:wSDL:PortableMediaProfile-4.0" xmlns:digsig="http://www.w3.org/2000/09/xmldsig#"
targetNamespace="urn:oasis:names:tc:legalxml-court filing:wSDL:PortableMediaProfile-4.0"
elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xsd:import namespace="http://www.w3.org/2000/09/xmldsig#"
schemaLocation="http://www.w3.org/TR/2002/REC-xmldsig-core-20020212/xmldsig-core-
schema.xsd" />
  <xsd:complexType name="ECFMessageType">
    <xsd:annotation>
      <xsd:documentation>An ECF 4.0 message or
attachment.</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element ref="ECFMessageSequenceID" />
      <xsd:element ref="ECFMessageFileName" />
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="ECFOperationType">
    <xsd:annotation>
      <xsd:documentation>The ECF 4.0 operation being
invoked.</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element ref="ECFOperationName" />
      <xsd:element ref="ECFMessage" maxOccurs="unbounded" />
      <xsd:element ref="digsig:Signature" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="ECFOperationName">
    <xsd:annotation>
      <xsd:documentation>The name of the ECF 4.0 operation being
invoked.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element name="ECFMessage" type="ECFMessageType">
    <xsd:annotation>
      <xsd:documentation>An ECF 4.0 message or
attachment.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element name="ECFMessageFileName" type="xsd:string">
    <xsd:annotation>
      <xsd:documentation>The path to the file that contains the message
contents. The path is relative to the location of the XML file indicating the operation
being invoked.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element name="ECFMessageSequenceID" type="xsd:token">
    <xsd:annotation>
      <xsd:documentation>The sequence number of the ECF 4.0 message in the
message transmission.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element name="ECFOperation" type="ECFOperationType">
    <xsd:annotation>
      <xsd:documentation>The ECF 4.0 operation being
invoked.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
</xsd:schema>
```

Appendix A. (Informative) Acknowledgments

290 The following individuals were members or voting members of the committee during the development of
291 this specification:

292 **Participants:**

293 Michael Alexandrou, Judicial Council of Georgia
294 CJ Allen, Maricopa County Clerk of Court
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299 James Cabral, MTG Management Consultants
300 Rolly Chambers, American Bar Association
301 Thomas Clarke, National Center for State Courts
302 Linda Colwell, Arizona Supreme Court
303 James Cusick, Wolters Kluwer
304 Robert DeFilippis, Individual
305 Christopher, Shane Durham, Reed Elsevier
306 Eric Eastman, Doxpop, LLC
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316 George Knecht, PCIntellect LLC
317 Mark Ladd, Property Records ind.
318 Laurence Leff, Individual
319 Morgan Medders, Judicial Council of Georgia
320 Rex McElrath, Judicial Council of Georgia
321 John Messing, Law-On-Line
322 Robert O'Brien, Ottawa Courts Administration
323 Gary Poindexter, Individual
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330

Appendix B. (Informative) Revision History

331

Revision	Date	Editor	Changes Made
Wd-01	2008-09-03	James Cabral	Initial version

332

333 **Appendix C. (Informative) Example Transmissions**

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

337 **C.1 Operation Invocation**

338 The `messages/operation/` folder included with this specification provides an example of a request
339 including a `ReviewFiling` operation invocation.

340 **C.2 Synchronous Response**

341 The `messages/synchronous/` folder included with this specification provides an example of a
342 `MessageReceiptMessage` synchronous response.

343 **C.3 Asynchronous Response**

344 The `messages/asynchronous/` folder included with this specification provides an example of a
345 `NotifyFilingReviewComplete` asynchronous response.