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This specification is related to:

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Abstract:

This document defines the LegalXML Electronic Court Filing 4.01 (ECF 4.0) specification, which consists of a set of non-proprietary XML and Web services specifications, along with clarifying explanations and amendments to those specifications, that have been added for the purpose of promoting interoperability among electronic court filing vendors and systems. ECF Version 4.01 is a maintenance release to address several minor schema and definition issues identified by implementers of the ECF 4.0 specification

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This document was last revised or approved by the OASIS LegalXML Electronic Court Filing TC on the above date. The level of approval is also listed above. Check the "Latest 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-courtfiling/.

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Table of Contents

1	Introduction	8
	1.1 Scope	8
	1.2 Relationship to Prior Specifications	9
	1.3 ECF Version 4.01	9
	1.3.1 National Information Exchange Model (NIEM)	10
	1.3.2 OASIS Universal Business Language	10
	1.3.3 W3C XML-Signature Syntax and Processing	10
	1.3.4 OASIS Reference Model for Service Oriented Architecture	11
	1.4 Terms and Definitions	11
	1.5 Symbols and Abbreviations	12
	1.6 Normative References	13
	1.7 Non-Normative References	13
2	ECF 4.0 Architecture	15
	2.1 Core vs. Profiles	15
	2.2 Major Design Elements	15
	2.3 Information Model	
	2.3.1 Messages	16
	2.3.2 Attachment	17
	2.3.3 Sample Message Streams	17
	2.4 Court Policy	
	2.4.1 Human-Readable Court Policy	
	2.4.2 Machine-Readable Court Policy	
	2.4.3 Case-Type and Court Extensions	
	2.4.4 Court-Specific Code Lists	
	2.4.5 Court-Specific Constraint Schemas	
3	ECF 4.0 Process Model	
	3.1 The Filing-Preparation-to-Docketing Process Model	
	3.2 Business Rules	
	3.2.1 GetPolicy	
	3.2.2 GetServiceInformation	-
	3.2.3 GetFeesCalculation	
	3.2.4 ReviewFiling	
	3.2.5 ServeFiling	
	3.2.6 RecordFiling	
	3.2.7 NotifyDocketingComplete	
	3.2.8 NotifyFilingReviewComplete	
	3.2.9 GetFilingList	
	3.2.10 GetFilingStatus	
	3.2.11 GetCaseList	
	3.2.12 GetCase	
	3.2.13 GetDocument	
	3.3 Message Business Rules	27

	3.3.1 Identifiers	. 27
	3.3.2 Code Lists	. 28
	3.3.3 Message-Specific Business Rules	. 29
	3.4 Filing the Record on Appeal	. 30
4	ECF 4.0 Schemas	. 32
	4.1 ECF 4.0 Case Type Schemas	. 32
	4.2 ECF 4.0 Common Schemas	. 32
	4.3 ECF 4.0 Constraint and Subset Schemas	. 33
	4.4 ECF 4.0 Message Schemas	. 33
5	Service Interaction Profiles	. 35
	5.1 Service Interaction Profile Requirements	. 35
	5.2 Service Interaction Profile Approval and Revision Processes	. 36
	5.3 Supported Service Interaction Profiles	. 36
6	Document Signature Profiles	. 38
	6.1 Document Signature Profile Requirements	. 38
	6.2 Document Signature Profile Approval and Revision Processes	. 38
	6.3 Supported Document Signature Profiles	. 39
7	Conformance	. 40
A	opendix A. (Informative) Release Notes	. 41
	A.1 Availability	. 41
	A.2 Package Structure	. 41
	A.3 Recursive Structures	. 41
	A.4 Date and Time Formats	. 41
	A.5 Known Errata	. 41
A	opendix B. (Informative) ECF 4.0 Development Approach and Artifacts	
	B.1 Principles	. 43
	B.2 Approach	. 43
	B.3 ECF 4.0 Exchange Content Models	
	B.4 Spreadsheet Models	. 45
A	opendix C. (Informative) MDE Operations	. 46
	C.1 Filing Assembly MDE	. 46
	C.1.1 Provided Operations	. 46
	C.1.2 Consumed Operations	. 46
	C.2 Filing Review MDE	. 47
	C.2.1 Provided Operations	. 47
	C.2.2 Consumed Operations	
	C.3 Court Record MDE	. 48
	C.3.1 Provided Operations	. 48
	C.3.2 Consumed Operations	. 48
	C.4 Legal Service MDE	. 48
	C.4.1 Provided Operations	. 49
	C.4.2 Consumed Operations	. 49
A	opendix D. (Informative) Example Instances	. 50
A	ppendix E. (Informative) Ongoing Work Items	. 52

Appendix F. (Informative) Acknowledgments	. 53
Appendix G. (Informative) Revision History	. 54

1 Introduction

This document is a specification developed by the OASIS LegalXML Electronic Court Filing Technical Committee.
 It defines a technical architecture and a set of components, operations and message structures for an electronic
 court filing system, and sets forth rules governing its implementation.

5 1.1 Scope

This specification describes the technical architecture and the functional features needed to accomplish a
successful electronic court filing system, and defines both the normative (required) and non-normative (optional)
business processes it supports. The non-functional requirements associated with electronic filing transactions, as
well as the actions and services needed to accomplish the transactions, such as network and security infrastructures, are defined in related specifications, namely:

- Service interaction profile specifications that define communications infrastructures, within which electronic filing
 transactions can take place
- Document signature profile specifications that define mechanisms for stating or ensuring that a person signed a particular document
- 15

1

- 16 This specification supports the following automated information exchanges:
- Transmission of documents in electronic form from law firms and from other persons and organizations to a court for entry ("official filing") into the court's official case records
- Recording of documents in electronic form from members of the court and court administrators into the court's
 official case records
- Transmission of data needed to complete (or demonstrate the previous completion of) financial transactions involving filing fees or the payment of any other court fees, fines and financial obligations
- Transmission of the metadata needed to initiate a new case record in a court's automated case management system (CMS) when the document being transmitted is one that commences a new case in that court
- Transmission of the metadata needed to create an entry that records (indexes) a filed document in a court's electronic listing of cases and their contents (variously called a "docket" or "register of actions")
- Transmission of the metadata needed to update the information recorded about a case that is maintained in a court's CMS
- Messages returned to the sender that confirm a court's receipt of the sender's filing message
- Messages notifying the sender of events such as the entry of the document(s) submitted by the sender into the court record (or an error message stating that the document[s] could not be accepted for filing and stating the reason[s] why)
- Queries to the court seeking information about data and documents held within the court's official electronic records and the return of information in response to those queries
- Queries from filers for the court rules and requirements for electronic filing
- Queries by filers seeking from the court record system the names and addresses of parties in a case who must
 be served and whether by traditional or electronic means
- Transmission of copies of documents submitted for filing to the other parties in a case who are registered to
 receive service electronically
- 40

41 In addition to filing of court case documents, this specification supports "secondary service" – the delivery of copies

- 42 of filed documents to persons who have already been made parties to a case. This specification does NOT support
- 43 "primary service," which entails the service of summonses, subpoenas, warrants and other documents that

- establish court jurisdiction over persons, making them parties to a case. Therefore, this specification does NOT
 support the following automated information exchanges:
- A query by a filer seeking from the court record system the names and addresses of parties in a new case who
 must be served to establish court jurisdiction over them in the new case
- Transmission of copies of or links to documents submitted for filing to any party in a new case or any newly
 added parties in an existing case
- 50

- 51 This specification defines a set of core structures that are common to most types of court filings and defines specific 52 structures that apply to filing documents in the following types of court cases:
- 53 Appellate
- 54 Bankruptcy
- Civil (including general civil, mental health, probate and small claims)
- Criminal (both felony and misdemeanor)
- Domestic relations (including divorce, separation, child custody and child support, domestic violence and parentage, i.e., maternity or paternity)
- Juvenile (both delinquency and dependency)
- Violations (including traffic, ordinances and parking)
- 62 Although ECF 4.01 does not define data structure elements specific to other case types (e.g., administrative
- tribunals), the basic structure will support other types of court filings and is extensible through court-specific and
 case-type-specific extensions.

65 **1.2 Relationship to Prior Specifications**

- Electronic Court Filing 4.0 superseded the LegalXML Electronic Court Filing 3.0, 3.01 and 3.1 specifications
 developed by the predecessor organizations to the OASIS Electronic Court Filing Technical Committee. Those
 specifications were prepared for and approved by the COSCA/NACM Joint Technology Committee as proposed
 standards.
- Relative to the ECF 3.0, 3.01 and 3.1 specifications, the ECF 4.0 and 4.01 specifications provide a number of enhancements including:
- Leveraging of the National Information Exchange Model ([NIEM]), a national standard for information sharing
- Leveraging of the updates to the OASIS Universal Business Language ([UBL]), for describing payments
- The inclusion of the data elements needed for appellate cases
- 75

This specification does not assume that prior specifications will be deprecated. However, ECF 4.0 is not backwardcompatible and applications using the ECF 3.0, 3.01 and 3.1 specifications will not interoperate successfully with applications using these specifications. This fact is indicated by the assignment of a new major version number to

79 the ECF 4.0 and 4.01 specifications.

80 **1.3 ECF Version 4.01**

ECF 4.01 is a maintenance release to address several minor schema and definition issues identified by implementers of the ECF 4.0 specification. All references in this document to ECF 4.0 apply to ECF 4.01 as well.

- 83 Relationship to other XML Specifications
- 84 The ECF specification incorporates other existing, non-proprietary XML specifications wherever possible. In
- particular, the specification has dependencies on the **[NIEM]**, the **[UBL]** data library and the World Wide Web
- 86 Consortium (W3C) XML Digital Signatures specification. The terminology used in this specification to describe the

components of the ECF technical architecture conforms to the OASIS Reference Model for Service Oriented
 Architecture.

89 It is recommended that implementations cache external schemas locally to improve performance and reliability.

90 (The alternative would be to rely on the external schemas as they are, in someone else's control, and assume they

91 will not be changed or become hard to access due to Internet or network problems.) The copies of external

schemas that are cached in this way should be updated and refreshed often to ensure changes will be quickly

93 learned and addressed.

94 **1.3.1 National Information Exchange Model (NIEM)**

95 **[NIEM]** conformance, as defined by the NIEM Implementation Guidelines (**[NIEM Guide]**), is a core objective of this specification. The [NIEM] is an XML standard designed specifically for justice information exchanges, providing law 96 enforcement, public safety agencies, prosecutors, public defenders and the judicial branch with a tool to effectively 97 98 share data and information in a timely manner. The **[NIEM]** provides a library of reusable components that can be 99 combined to automate justice information exchanges. The [NIEM] removes the burden from agencies to 100 independently create exchange standards. Because of its extensibility, there is more flexibility to deal with unique agency requirements and changes. Through the use of a common vocabulary that is understood system to system, 101 [NIEM] enables access from multiple sources and reuse in multiple applications. The use of [NIEM] element names 102 does not require any change in local legal terminology. XML tag names are invisible to the user of an application 103

104 employing them.

105 The **[NIEM]** is most useful for describing common objects such as persons and locations, and criminal justice-

specific processes such as arrest, booking, jail and prosecution. The **[NIEM]** is not as well developed for describing

non-criminal information exchanges and processes. ECF 4.0 uses the **[NIEM]** version 2.0 where the structures and

definitions correspond to the requirements of ECF 4.0. The development process, including the **[NIEM]** modeling

109 process, is described in Appendix B.

110 **1.3.2 OASIS Universal Business Language**

111 **[UBL]** is an OASIS Standard that provides a single ubiquitous language for business communication, and takes into 112 account the requirements common to all enterprises. **[UBL]** provides a shared library of reusable components,

essential to interoperability that can be combined to create electronic business schemas. Without a common set of

base components, each document format would risk redefining addresses, locations and other basic information in incompatible ways.¹

- 116 ECF 4.0 employs the following structures in the **[UBL]** to describe filing payments and payment receipts:
- 117 <AllowanceCharge>
 - Information about a charge or discount price component.
- 119 <Address>

118

120

122

- Information about a structured address.
- 121 <Payment>

Information directly relating to a specific payment.

123 **1.3.3 W3C XML-Signature Syntax and Processing**

124 The W3C XML Signature Syntax and Processing (**[XMLSIG]**) specification describes a mechanism for signing 125 electronic documents. This mechanism allows recipients of electronic documents to identify the sender and be

¹ http://www.oasis-open.org/committees/download.php/1023/UBL%3A%20The%20Next%20Step%20for%20Global%20E-Commerce

- assured of the validity of the electronically transmitted data. [XMLSIG] defines standard means for specifying
 information content that is to be digitally signed.²
- 128 ECF 4.0 employs the **[XMLSIG]** specification to describe digital signatures applied to the entire ECF 4.0 message
- transmission in order to provide authentication, encryption and message integrity. [XMLSIG] are also used in the
 ECF 4.0 XML Document Signature Profile.

131 1.3.4 OASIS Reference Model for Service Oriented Architecture

The **[SOA-RM]** is a framework for understanding significant entities, and the relationships between those entities, within a service-oriented architecture. ECF 4.0 describes such an architecture and includes terminology that conforms to the **[SOA-RM]**.

135 **1.4 Terms and Definitions**

The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT",
 "RECOMMENDED", "MAY" and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

138

- 139 This section defines key terms used in this specification.
- 140

141 Attachment

142 See definition in Section 0.

143 Callback message

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

146 Document

147 An electronic equivalent of a document that would otherwise be filed on paper in a traditional, non-148 electronic fashion.

149 **Document hash**

150 A condensed representation of a document intended to protect document integrity, calculated according to 151 the FIPS 180-2 SHA 256 algorithm.

152 Docketing

153 The process invoked when a court receives a pleading, order or notice, with no errors in transmission or in 154 presentation of required content, and records it as a part of the official record.

155 Filer

156 An attorney or a *pro se* (self-represented) litigant acting as an individual who assembles and submits one or 157 more filings (combinations of data and documents).

158 Filing

An electronic document (with any associated data, attachments and the like) that has been assembled for the purpose of being filed into a specified court case.

161 Hub Service MDE

A centralized Service MDE capable of receiving a single set of service notifications for all parties registered
 for electronic service in a case and transmitting the service notifications to the Service MDEs registered to
 each party in the case.

² http://xml.coverpages.org/xmlSig.html

165 Major Design Element (MDE)

A logical grouping of operations representing a significant business process supported by ECF 4.0. Each MDE operation receives one or more messages, returning a synchronous response message (a reaction to a message received) and, optionally, returning an asynchronous (later) response message to the originating message sender.

170 Message

171

See definition in Section 2.3.1.

172 Message Transmission

173 The sending of one or more messages and associated attachments to an MDE. Each transmission must 174 invoke or respond to an operation on the receiving MDE, as defined in the ECF 4.0 specification.

175 Operation (or MDE Operation)

A function provided by an MDE upon receipt of one or more messages. The function provided by the op eration represents a significant step in the court filing business process. A sender invokes an operation on
 an MDE by transmitting a request with an operation identifier and a set of messages.

179 Operation signature

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

183 Synchronous response

184 A message transmission returned immediately (synchronously) as the result of an operation. Every opera-185 tion has a synchronous response.

186 **1.5 Symbols and Abbreviations**

187 This section defines key symbols and abbreviations used in this specification.

188

189 ECF 4.0

190 Electronic Court Filing 4.0

191 **IEPD**

- 192 Information Exchange Package Documentation
- 193 **MDE**
- 194 Major Design Element

195 **NIEM**

196 National Information Exchange Model

197 **OASIS**

- 198 Organization for the Advancement of Structured Information Standards
- 199 XML
- 200 eXtensible Markup Language
- 201 **W3C**
- 202 World Wide Web Consortium
- 203 WS-I204 Web Services Interoperability Organization
- 205

206 **1.6 Normative References**

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262 2 ECF 4.0 Architecture

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The ECF 4.0 architecture consists of four Major Design Elements (MDEs), which support operations and messages. An MDE is a logical grouping of operations, such as the operations involved in creating a filing or the operations involved in receiving and recording a filing that is, incorporating the constituent documents into a court document management system. A message is the data exchanged between MDEs in the form of an XML document that may include one or more additional binary attachments. These messages contain the information to be filed with the court. This section describes the ECF 4.0 architecture including the MDEs, the operations and the messages.

270 2.1 Core vs. Profiles

271 The ECF 4.0 architecture can be divided into three principal elements:

- **Core Specification** This core specification defines the MDEs and the operations and messages that are exchanged between MDEs.
- Service Interaction Profiles Service interaction profiles are specifications that describe communication infrastructures that deliver messages between MDEs.
- Document Signature Profiles Document signature profiles are specifications that describe mechanisms for signing electronic documents.
- In order to be compliant, an implementation of the ECF specification MUST implement the core specification and at
 least one service interaction profile and one document signature profile.
- The MDEs and messages that make up the core specification are discussed in Sections 2.2 and 2.3 below,
 respectively. Service interaction profiles are discussed in Section 5 below. Document signature profiles are
 discussed in Section 6 below.

283 2.2 Major Design Elements

284 ECF 4.0 defines four MDEs. They are:

- **Filing Assembly MDE** enables a filer to create a filing message for submission to a court, and for service on other parties in the case, returning a response from the court to the filer.
- Filing Review MDE enables a court to receive and review a filing message and prepare the contents for recording in its case management and document management systems, sending a response concerning the filing to the Filing Assembly MDE. The Filing Review MDE also enables filers to obtain court-specific policies regarding electronic filing and to check on the status of a filing.
- Court Record MDE enables a court to record electronic documents and docket entries in its case management and document management systems and returns the results to the Filing Review MDE. The Court Record MDE also enables filers to obtain service information for all parties in a case, to obtain information about cases maintained in the court's docket, register of actions and calendars, and to access documents maintained in the court's electronic records.
- Legal Service MDE enables a party to receive service electronically FROM other parties in the case. Note that service TO other parties in the case is performed by the Filing Assembly MDE.
- The MDEs defined in the ECF 4.0 specifications are meant only to define the "interface" to each operation; the specification is not intended to define how operations must be implemented. This strategy allows MDE implementations to interoperate while leaving room for vendors and courts to have differing implementations (e.g., an implementation that supports a particular CMS).
- An ECF 4.0-compliant implementation may implement one or more of the MDEs defined in the specification but a complete ECF 4.0 system MUST include at least one each of the Filing Assembly, Filing Review and Court Record MDEs. For instance, a court may decide to provide certain MDEs and allow private providers to furnish the remaining MDEs. When multiple MDEs are implemented by a single court, vendor or application, the application

306 MUST maintain the ECF 4.0 specified operations between each MDE so that other applications will be able to 307 interoperate with it.

Each of the operations supported by an MDE accepts one or more messages as input and returns an immediate, synchronous response message to the calling MDE. For some operations, the MDE will also return an asynchronous (callback) message at a later time that reports the result of a business process implemented within the MDE. In order to be compliant with ECF 4.0, an MDE must support all messages required for that MDE. However, in an ECF 4.0 system that does not support electronic service, the operations associated with the Legal Service MDE are not required.

- 314 An MDE defines an information model and behavior model of a service as described in the **[SOA-RM]**. One must
- remember that "service" in the service oriented architecture sense is not the same as the business function of
- 316 "service of filing" used throughout in this document.

317 2.3 Information Model

318 The ECF information model describes the messages that may be exchanged between MDEs. All ECF 4.0

operations use the same core message stream structure, which is implemented in the service interaction profiles.
 Each ECF core message stream is a stream of bytes that contains at least one message and may also contain attachments.

322 **2.3.1 Messages**

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A message is an XML document that is a well-formed XML data structure with a single root element that is transmitted between MDEs and is valid as defined by one of the defined message structure schemas in the ECF 4.0 specification. A message may be related to one or more attachments. A message contains the following information:

- Message information about the filing and court case, such as identifiers for the sender and receiver, the sending and receiving MDEs, and the submission date and time, typically a composition of:
- A core message which includes basic information common to all courts and case types and Information about each of the documents associated with the message
- Case-type-specific extensions that includes information appropriate only for a particular type of filing
 - Court-specific extensions that includes information appropriate only for cases in a particular court
- Information about each of the documents associated with the message. A document in this sense is the 333 electronic representation of what would be recognized as a "document" if it were a single, whole, physical paper 334 object. This includes both a lead document, one that will be placed on the court's register of actions (docketed, 335 indexed) and any supporting document(s), which are present to supplement the lead document in some way. 336 337 The message includes the document's metadata, for example, its title, type, identifier, parent document identi-338 fier and document sequence number. Each document structure may reference one or more attachments, 339 including attachment identifiers and sequence numbers. When included in attachments, a logical document 340 MAY be split into several physical parts if necessary to satisfy a court requirement regarding maximum docu-341 ment size. The actual binary encoded electronic document MAY be either included in one or more attachments to the message or embedded in the message using the following structure: 342
 - <FilingLeadDocument> (or <FilingConnectedDocument>) <ecf:DocumentRendition> <DocumentRenditionMetadata> <DocumentAttachment> <BinaryBase640bject>2345klj345h...<BinaryBase640bject> </DocumentAttachment> </DocumentRenditionMetadata> </ecf:DocumentRendition </FilingLeadDocument> (or </FilingConnectedDocument>)

353 Elements defined by this specification, whether in core messages, case type-specific extensions or court-specific 354 extensions, are intended to be useful to an automated case management system for the purposes of partially or 355 fully automating case workflow after filing (e.g., filing review, noticing, docketing, judicial assignment, calendaring, 356 standardized forms receipt and generation, fee processing) or ascertaining the adequacy or appropriateness of the filing (e.g., fee or fine calculation, jurisdiction). Elements defined by this specification are not intended to fully 357 358 populate the automated case management system with all data contained within filed documents. That is, these elements should be useful as "filing metadata" about the case, the filing transaction, parties or documents. These 359 elements may also be "filing data", or the contents of the filings. For instance, information found on a filing cover 360 sheet can generally be considered filing metadata, even if the information is also repeated in the document(s) being 361 362 filed.

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364 The scope of the ECF core messages and extensions is limited by the following criteria:

- Elements in the ECF core messages should be applicable to most courts and case types
- Elements in the ECF case-type-specific extensions should only be applicable to one of the six case types 367 defined in National Center for State Courts (NCSC) statistical standards
- Elements in locally-defined court-specific extensions should only be applicable to a particular court or court system but not to courts in general
- All "filing data" elements should be described in the filed documents, whose structure is outside the scope of the
 ECF specification.

372 **2.3.2 Attachment**

An attachment is a series of bytes in the message stream transmitted between MDEs that constitutes, in whole or in part, an electronic document whose conventional equivalent would be a document on paper. The contents are preceded by one or more "headers" that uniquely identify the attachment (using a content identifier) and specify the format or type of the attachment. Note that the contents of an attachment can be binary octets (the "raw" binary data of the document), binary data encoded in text (e.g., via base-64 or some other algorithm), XML text or plain text.

Attachments appear in the message stream after the messages. The order of attachments within the message
 stream is not important and cannot be treated as significant. In particular, this means that the series of bytes
 representing the content of a lead document need not appear before the attachments representing the content of
 documents supporting that lead document.

383 2.3.3 Sample Message Streams

384 The following conceptual diagrams illustrate the containment structures involved in the message stream.

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- Figure 1 illustrates a message stream involving two lead documents, the first of which has two supporting
 documents. The second lead document has no supporting documents. Each document is associated with a single
 attachment.
- 390

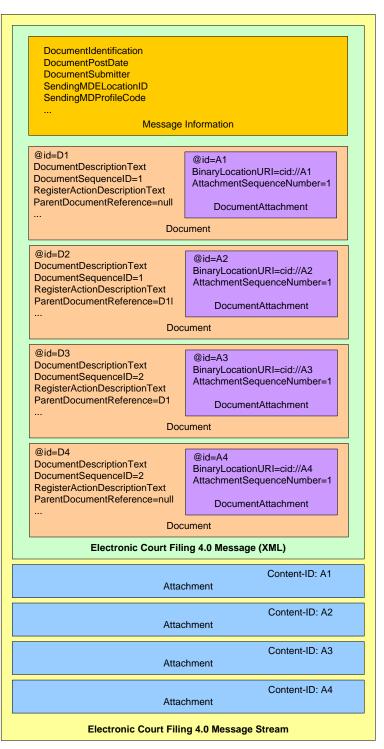
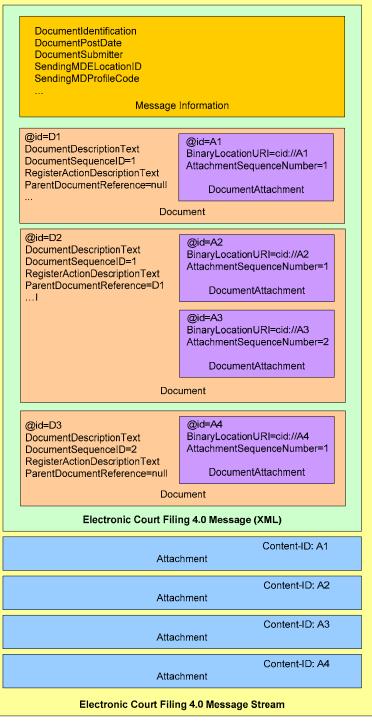


Figure 2 illustrates a message stream involving two lead documents, the first of which has a single supporting document. The second lead document has no supporting documents. The supporting document associated with the first lead document is split into two pieces, each treated as an attachment, presumably due to limits set by the court on size. Each lead document is associated with a single attachment, and the one supporting document is associated with two attachments.







401 **2.4 Court Policy**

402 A court's customary practices may influence many aspects of its ECF 4.0 implementation, and those local practices 403 and variations are expressed through the "court policy" component of e-filing, which includes:

- Human-readable court policy a textual document publishing the court's rules and requirements for electronic filing.
- Machine-readable court policy an ECF 4.0 message that describes the features of the ECF 4.0 implementation supported by this specification, the court's code lists and any other information a Filing Assembly MDE would need to know in order to successfully submit an electronic filing into that court.
- The court MUST have only one active, authoritative version of its policies at a given time; both the human-readable and the machine-readable statements of those policies MUST have the same release dates for the court.

411 The court's human-readable and machine-readable court policies MUST each have a version numbering method associated with it. The court's versioning process SHOULD comply with the following rules: 1) Versions are 412 denoted using a standard triplet of integers: MAJOR.MINOR.PATCH; 2) Different MAJOR versions are to be 413 414 considered incompatible, large-scale upgrades of the Policy; 3) Different MINOR versions are to be considered to retain source and binary compatibility with earlier minor versions, and changes in the PATCH level are perfectly 415 compatible, forward and backward. It is important to note that a policy that has not reached version 1.0.0 is not 416 subject to the guidelines described in this document. Before a 1.0 release is achieved (i.e., any version numbered 417 418 0.x.y), court policy can be changed freely without regard to the restrictions on compatibility between versions.

419 Court policy is not directly equivalent to "service policy" in the **[SOA-RM]**. However, thinking about court policy from 420 a policy assertion, policy owner and policy enforcement framework as described in the **[SOA-RM]** is helpful. Note 421 that "court policy" refers to a set of constituent rules and requirements, while the **[SOA-RM]** looks at each individual 422 item as a "service policy." In all cases the policy owner is the court where the document is to be filed. Also note 423 that none of the elements of court policy rise to the level of a "service contract" as defined by the **[SOA-RM]**.

424 2.4.1 Human-Readable Court Policy

- To be compliant with the ECF 4.0 specification, each court MUST publish a human-readable court policy that MUST include each of the following:
- 427 1. The unique court identifier
- 428 2. The location of the machine-readable court policy
- 429 3. A definition of what constitutes a "lead document" in the court
- 430 4. A description of how filer identifiers are to be maintained during electronic communications regarding the case
- 431 5. A description of how the court processes (dockets) filings
- 432 6. A description of any instances in which the court will mandate an element that the ECF 4.0 schema makes433 optional
- 434 7. A description of any restrictions to data property values other than code list restrictions. (This restriction may be
 435 removed in later versions of the ECF specification)
- 436 8. Any other rules required for electronic filing in the court

437 2.4.2 Machine-Readable Court Policy

- 438 Machine-readable Court Policy includes structures for identifying run-time and development-time policy information.
- Run-time information includes information that will be updated from time to time, such as code lists (e.g., acceptable
 document types, codes for various criminal charges and civil causes of action) and the court's public key for digital
 signatures and encryption.
- 442 Development-time information includes court rules governing electronic filing that are needed at the time an 443 application is developed but which are not likely to change. These include:
- 444 1. The service interaction profile(s) that the court supports

- 445 2. The MDEs, query operations and case types supported by the court's ECF 4.0 system
- 446 3. Whether a court will accept the filing of a URL in lieu of the electronic document itself
- 447 4. Whether the court accepts documents requiring payment of a filing fee
- 448 5. Whether the court accepts electronic filing of sealed documents
- 449 6. Whether the court accepts multiple (batch) filings
- 450 7. The court-specific extensions to the ECF 4.0 specification, including the required elements (see below)
- 451 8. The maximum sizes allowed for a single attachment and a complete message stream

452 2.4.3 Case-Type and Court Extensions

453 Case-type and court-specific extensions to the ECF core messages are implemented through the methods 454 described in **[NIEM Techniques]**. The primary extension technique is the use of element substitution in which a 455 more specific element defined in a case-type or court-specific extension is used in place of a generic element in a 456 core message. Similarly, an implementation may substitute a court-specific code list for a generic code list defined 457 in this specification.

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459 2.4.4 Court-Specific Code Lists

Code lists are used to constrain the allowable values for certain information in an ECF 4.0 message. The court
 SHOULD publish Genericode 1.0 code lists for each of the following code lists and reference each of these code
 lists in its court policy:

- 464 ECF Code Lists
- Civil Case Type
- 466 <FiduciaryTypeCode>*
- 467 <JurisdictionalGroundsCode>
- 468 <ReliefTypeCode>
- Domestic Case Type
 - <NoContactCode>*
 - <RequestToVacateCode>
- Common Types
- 473 <AliasAlternateNameTypeCode>*
- 474 <CaseAssociationTypeCode>*
- 475 <CaseOfficialRoleCode>*
- 476 <CaseParticipantRoleCode>*
- 477 <CauseOfActionCode>
- 478 <CourtEventTypeCode>
- 479 <EntityAssociationTypeCode>
- 480 <ErrorCode>*
- 481 Juvenile Case Type
- 482 <DelinquentActApplicabilityCode>
- 483 <DelinquentActDegreeCode>
- 484 <DelinquentActSeverityCode>

485	 <delinquentactspecialallegationcode></delinquentactspecialallegationcode>
486	 <dependencyallegationcode></dependencyallegationcode>
487	 <guardianassociationtypecode>*</guardianassociationtypecode>
488	 <placementtypecode></placementtypecode>
	NIEM Code Lists
489	
490	• JXDM
491	 <chargeenhancingfactortext></chargeenhancingfactortext>
492	 <courtlocationcode></courtlocationcode>
493	 <registeractiondescriptiontext></registeractiondescriptiontext>
494	 <statutecodeidentification></statutecodeidentification>
495	 <statutecodesectionidentification></statutecodesectionidentification>
496	 <statuteoffenseidentification></statuteoffenseidentification>
497	 <statusoffensecodeidentification></statusoffensecodeidentification>
498	NIEM Core
499	 <binarydescriptiontext>*</binarydescriptiontext>
500	• <casecategorytext></casecategorytext>
501	 <driverlicensecommercialclasscode></driverlicensecommercialclasscode>
502	• <familykinshipcode>*</familykinshipcode>
503	
504 505	A non-normative Genericode code list with default values is provided for each of the code lists above with asterisl (*).
506	
507 508	If a court does not define allowable values for any of the above code lists in court policy, then any value MUST be considered acceptable for that code.
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2.4.5 Court-Specific Constraint Schemas 510

511 The cardinality of elements in the NIEM subset imported by the ECF is applied through the use of constraint schemas that define the minimum and maximum occurrence of elements in the NIEM subset. Courts MAY enforce 512 court-specific rules and code lists by creating court-specific constraint schemas. This process creates a duplicate 513 set of the ECF schemas and allows the customization of the cardinality of elements as needed. If court-specific 514 constraint schemas are used, instance documents MUST validate against both the ECF schemas and the court 515 516 constraint schemas.

517 3 ECF 4.0 Process Model

518 This section details the interactions of the ECF 4.0 MDEs and the role of each MDE in the electronic filing and 519 electronic service processes. This section also enumerates the operations provided by each MDE and points to the 520 operations, provided by other MDEs, that each MDE consumes.

3.1 The Filing-Preparation-to-Docketing Process Model

This model describes the sequence of operations in a basic filing cycle from Filing Preparation to Docketing. This model involves three parties: a Filer (represented by the Filing Assembly MDE), a Court (represented by the Filing Review and Court Record MDEs) and a Service Recipient (represented by the Legal Service MDE). The operations defined by ECF 4.0 to support the processes in this cycle are listed below. The operations in bold are required and MUST occur in every successful filing as long as sending and receiving MDEs are implemented. The other operations are optional and MAY occur within a given filing:

- 528 GetPolicy
- 529 GetServiceInformation
- 530 GetFeesCalculation
- 531 ReviewFiling
- 532 ServeFiling
- 533 RecordFiling
- 534 NotifyDocketingComplete
- 535 NotifyFilingReviewComplete

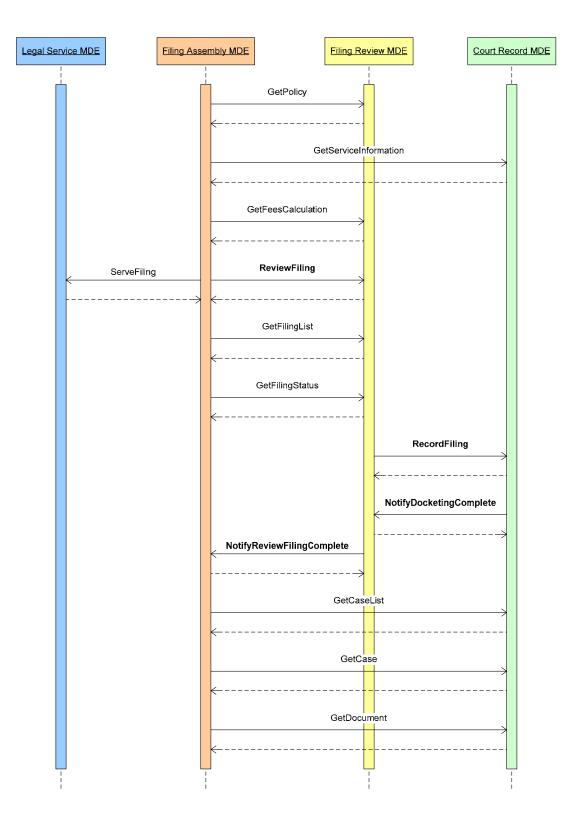
At any point during or after the ReviewFiling operation, a party MAY access information through the followingoperations:

- 538 GetFilingList
- 539 GetFilingStatus

540 At any point after the NotifyFilingReviewComplete operation, a party MAY access information through the following 541 operations:

- GetCaseList
- 543 GetCase
- GetDocument

545 These operations are depicted in the sequence diagram below. The solid lines indicate invoked operations and the 546 dashed lines indicate the synchronous responses to those operations.



549 3.2 Business Rules

- 550 This section describes the business rules of the generic filing-preparation-to-docketing process that govern the ECF 551 4.0 operations.
- 552 ECF 4.0 includes an <ecf:ErrorCode> element for returning errors in response to a query request. Successful
- 553 queries MUST return an <ecf:ErrorCode> of "0". Failed queries MUST NOT return an <ecf:ErrorCode> of
- 554 "0" and SHOULD return an appropriate <ecf:ErrorCode> value as defined in court policy.

555 **3.2.1 GetPolicy**

The Filing Assembly MDE MAY obtain a court's machine-readable court policy at any time by invoking the GetPolicy operation on the Filing Review MDE with the identifier for the court. The Filing Review MDE returns the machine-readable court policy in a synchronous response. The content of the machine-readable court policy is described in Section 2.4.2. This step may be omitted if the Filing Assembly MDE already has the current court policy.

561 3.2.2 GetServiceInformation

562 The Filing Assembly MDE MAY obtain the Court's service information for all parties in an existing case at any time 563 by invoking the GetServiceInformation operation with the appropriate case number on the Court Record MDE. The service list returned by the GetServiceInformation operation assists the filer in maintaining the filer's service list and 564 565 is not a substitute for the filer's service list. To provide this information, the Court Record MDE MUST have access 566 to the court's registry with all updated information about case participants. There MUST be only one such registry 567 per court, though multiple courts MAY share the same registry. The Court Record MDE responds synchronously to 568 the Filing Assembly MDE with a service list reflecting the most current contact information available to the court. 569 which is necessary to complete secondary service, whether electronically or by other means.

- 570 If the court provides a Hub Service MDE, the electronic service information returned from this query MUST include 571 the court's Service MDE ID for all case participants who have one.
- 572 A party to a case is always the official target of service. In practice, the system will actually deliver to pro se litigants 573 and to attorneys as intermediaries.
- 574 The duty to complete secondary service is upon the filer, and not the court, except when the court is the filer.
- 575 The GetServiceInformation operation returns a service list current as of the transaction. No assumption can be 576 made that the data returned by the operation will remain current for use at any future point in time.

577 3.2.3 GetFeesCalculation

578 The Filing Assembly MDE MAY query for the fees associated with a filing by invoking the MDE's GetFeesCalcula-

- tion operation, with a filing as a parameter, on the Filing Review MDE. The Filing Review MDE responds
- 580 synchronously with the fee calculation and, optionally, a list of the included charges. This step may be omitted if 581 there are no fees associated with filings in the court or the calculated fees are already known.

582 3.2.4 ReviewFiling

583 The Filing Assembly MDE MUST submit the filing to the court by invoking the ReviewFiling operation on the Filing 584 Review MDE. The ReviewFiling operation includes messages for the core filing, including the case type-specific 585 and court-specific extensions and the filing payment. The Filing Review MDE responds synchronously with a 586 receipt message that includes the filing identifier issued by the court.

587 **3.2.5 ServeFiling**

At approximately the same time the Filing Assembly MDE submits the filing to the court, the Filing Assembly MDE MAY serve the entire filing, to other parties in the case by invoking the ServeFiling operation on the ServiceMDE associated with the service recipient. This operation MUST NOT be used to serve parties in a new case or to persons or organizations that have not yet been made party to the case. The Legal Service MDE responds synchronously with an acknowledgement that the message will be delivered to the service recipient or with an error. If the court hosts a hub Service MDE, the Filing Assembly MDE MAY send a message to the hub Service MDE's ServeFiling operation. The hub Service MDE MUST then broadcast the message to each of the individual Legal Service MDE's ServeFiling operations and respond synchronously with a single ServiceResponseMessage to the Filing Assembly MDE, conveying the results of each individual service transaction.

597 If a court chooses to support electronic service, then each Filing Assembly MDE MUST support service operations 598 for the clients for which it provides Filing Assembly functionality.

599 **3.2.6 RecordFiling**

600 If the clerk reviews and accepts the filing, the Filing Review MDE MUST invoke the RecordFiling operation on the 601 Court Record MDE. The RecordFiling operation includes information from the ReviewFiling operation with any 602 modifications or comments by the clerk. The Court Record MDE responds synchronously with an acknowledge-603 ment of the request.

604 3.2.7 NotifyDocketingComplete

The Court Record MDE MUST invoke the NotifyDocketingComplete operation on the Filing Review MDE as a callback message to the RecordFiling operation to indicate whether the filing was accepted or rejected by the court record system. If the Court Record MDE rejected the filing, an explanation MUST be provided. If the Court Record MDE accepts the filing, the docketing information (e.g. date and time the document was entered into the court record, judge assigned, document identifiers and next court event scheduled) MUST be provided. The Filing Review MDE responds synchronously with an acknowledgement of the callback message.

611 3.2.8 NotifyFilingReviewComplete

612 If the clerk rejects the filings or the Filing Review MDE receives the Notify Docketing Complete message, the Filing 613 Review MDE MUST invoke the NotifyFilingReviewComplete operation on the Filing Assembly MDE as a callback 614 message to the ReviewFiling operation to indicate whether the filing was accepted and docketed by the clerk and 615 court record system. The operation MAY return the filed documents or links to the documents, but MUST include 616 the **[FIPS 180-2]** SHA 256 document hash, a condensed representation of a document intended to protect 617 document integrity.

If the filing included a payment, and the filing was accepted by the clerk and court record system, a receipt for the
 payment MUST be included in the operation. The Filing Assembly MDE responds synchronously with an
 acknowledgement of the callback message.

621 **3.2.9 GetFilingList**

The Filing Assembly MDE MAY invoke the GetFilingList query operation on the Filing Review MDE to return a list of filings matching several criteria including the filer identifier, the case number and the filed date within a certain time range. The Filing Review MDE responds synchronously with a list of matching filings and the status of each filing.

625 3.2.10 GetFilingStatus

The Filing Assembly MDE MAY invoke the GetFilingStatus query operation with the filing Identifier on the Filing Review MDE to return the status of the selected filing. The Filing Review MDE responds synchronously with the matching filing and the status of the filing.

629 **3.2.11 GetCaseList**

The Filing Assembly MDE MAY invoke the GetCaseList query operation on the Court Record MDE to return a list of cases matching several criteria including case number, case participant, or the filed date over a specific time range.

632 The Court Record MDE responds synchronously with a list of matching cases.

633 **3.2.12 GetCase**

The Filing Assembly MDE MAY invoke the GetCase query operation with a case number on the Court Record MDE to return information about the case including the case participants, court docket and calendar events. The Filing Assembly MDE may also limit the amount of case detail returned from the Court Record MDE by using a set of filters. The Court Record MDE responds synchronously with the selected case information.

638 **3.2.13 GetDocument**

The Filing Assembly MDE MAY invoke the GetDocument query operation, including the case number and
 document number, on the Court Record MDE to retrieve a particular document from a case. The Court Record

641 MDE will respond synchronously with the requested document or instructions on how to access it.

642 3.3 Message Business Rules

Each operation includes one or more messages as parameters. The following business rules apply to the content of ECF 4.0 messages:

645 3.3.1 Identifiers

646 Identifiers are used to uniquely label people, organizations and things in the ECF 4.0 process. The following 647 conventions will be used to produce identifiers.

648 3.3.1.1 Attachment Identifiers

649 Attachment identifiers MUST be unique within a message transmission. A convention for assigning identifiers to 650 each message and attachment in a message transmission has to be defined in each service interaction profile.

651 3.3.1.2 Case Identifiers

652 Case identifiers (case numbers) are assigned by the court record system and MUST be unique within a court.

653 3.3.1.3 Court Identifiers

654 Court identifiers are locally assigned by the court administrator for a region (typically a state, provincial or federal 655 court administrator) and MUST be universally unique to a court but not necessarily to a particular court house, 656 branch or subunit of a court. Court identifiers MUST conform to following convention:

- 657 <Internet domain of the court administrator>:<unique identifier within the court system>.
- 658 Examples of conformant court identifiers include:
- 659 courts.wa.gov:superior.king
- 660 nmcourts.com:albd.civil
- 661 uscourts.gov:100
- 662 courts.gov.bc.ca:appeal
- 663 These are strictly examples and do not necessarily indicate actual courts.

664 **3.3.1.4 Document Identifiers**

665 Document identifiers are assigned by the court record system and MUST be unique within a court.

666 3.3.1.5 Filing Identifiers

Filing identifiers MUST be unique within a court and will be generated by the court in response to a ReviewFiling operation.

669 3.3.1.6 MDE Identifiers

The address of an MDE MUST be unique within a given communications infrastructure. The convention for defining
 MDE identifiers will be defined in each service interaction profile.

672 3.3.1.7 Filer and Party Identifiers

Identifiers for filers and parties to a case, both persons and organizations, MUST be unique within a case and will
 be generated by the court in response to a ReviewFiling operation. The following is a non-normative example of an
 identifier for filer number 100:

676

677 <nc:PersonOtherIdentification>

- 678 <nc:IdentificationID>100<nc:IdentificationID> 679 <nc:IdentificationCategoryText>ECFFilerID</nc:IdentificationCategoryText> 680 </nc:PersonOtherIdentification>
- 681

682 In addition to <nc:PersonOtherIdentification>, other elements that may contain a filer identifier include 683 <nc:OrganizationOtherIdentification>, <ecf:FilingPartyID> and <ecf:FilingAttorneyID>.

Attorneys MAY reference the parties they represent with party identifiers. Self-represented litigants MAY be represented using both attorney and party elements for the same individual, with a reference from the attorney element to the party element. The attorney elements for a self-represented litigant SHOULD NOT include a bar number.

688 **3.3.2 Code Lists**

Code Lists are used to constrain the allowable values for certain information in a message. The following normative
 code lists are normative for all ECF 4.0 implementations. Court-specific code lists are listed in Section 2.4.4.

691

692 • ECF Code Lists

- Bankruptcy Case Type
- 694 <DebtorTypeCode>*
- 695 <EstimatedAssetsValueLevelCode>*
- 696 <EstimatedDebtsValueLevelCode>*
- 697 <NatureOfDebtCode>*
- 698 <NumberOfCreditorsValueLevelCode>*
- 699 Common Types
- 700 <FilingStatusCode>*
- Court Policy Response Message
- 702 <MajorDesignElementNameCode>
- 703 <OperationNameCode>
- Service Receipt Message
- 705 <ServiceStatusCode>*
- 706 NIEM Code Lists
- 707 ANSI NIST
- 708 <FingerPositionCode>

709	• JXDM
710	• <chargenciccode></chargenciccode>
711	 <drivingincidenthazmatcode></drivingincidenthazmatcode>
712	 <drivingjurisdictionauthoritynciclstacode></drivingjurisdictionauthoritynciclstacode>
713	 <identificationjurisdictionncicliscode></identificationjurisdictionncicliscode>
714	 <warrantextraditionlimitationcode></warrantextraditionlimitationcode>
715	NIEM Core
716	 <documentlangagecode></documentlangagecode>
717	 <driverlicensecommercialclasscode></driverlicensecommercialclasscode>
718	 <drivingrestrictioncode></drivingrestrictioncode>
719	• <languagecode></languagecode>
720	• <lengthunitcode></lengthunitcode>
721	 <locationcountryfips10-4code></locationcountryfips10-4code>
722	 <locationcountycode></locationcountycode>
723	 <locationstateuspostalservicecode></locationstateuspostalservicecode>
724	 <personcitizenshipfips10-4code></personcitizenshipfips10-4code>
725	<pre>• <personethnicitycode></personethnicitycode></pre>
726	<pre>• <personeyecolorcode></personeyecolorcode></pre>
727	• <personhaircolorcode></personhaircolorcode>
728	• <personracecode></personracecode>
729	• <personsexcode></personsexcode>
730	<pre> <personunioncategorycode> </personunioncategorycode></pre>
731	 <physicalfeaturecategorycode></physicalfeaturecategorycode>
732	 <vehiclecolorprimarycode></vehiclecolorprimarycode>
733	 <vehiclemakecode></vehiclemakecode>
734	 <vehiclemodelcode></vehiclemodelcode>
735	 <vehiclestylecode></vehiclestylecode>
736	 <weightunitcode></weightunitcode>
737	
738 739	Code lists defined using Genericode 1.0 are indicated with asterisks (*). The remaining code lists are defined in XSD schema definitions.
739	

741 3.3.3 Message-Specific Business Rules

742 The following business rules apply to specific messages:

743 3.3.3.1 CoreFilingMessage

A CoreFilingMessage MUST express the name or names of the party or parties on whose behalf a document is filed, and the party whose document is the subject of a responsive document being submitted for filing. If a case

- refers to a single element using the legal term "In Re," the filer SHOULD use the NIEM
- 747 <j:CaseRespondentParty>, not the <j:CaseInitiatingParty> element.
- A CoreFilingMessage MAY NOT include documents for transactions such as the payment of a criminal fine. If a
- 749 CoreFilingMessage includes documents, the message MUST include only one level of connected and supporting
- documents. If a CoreFilingMessage includes multiple renditions of the same document, the
- 751 <nc:BinaryDescriptionText> element SHOULD be used to determine how to process multiple renditions of
- 752 the same document. The <ecf:DocumentMetadata> and <ecf:DocumentRenditionMetadata> structures
- 753 MAY be extended to support more sophisticated workflow processes.

754 3.3.3.2 FilingPaymentMessage

- ECF 4.0 supports multiple particular payment processes. Information about a payment is included in the
- FilingPaymentMessage including the method of payment of the applicable fees, e.g., electronic funds transfer, credit or debit card, charge to an escrow account held in the court or promise to pay in the future. The payment may include a maximum amount for the payment if some latitude is precised to accomplish the filing.
- may include a maximum amount for the payment if some latitude is needed to accomplish the filing.

759 3.3.3.3 RecordDocketingMessage

The court record system SHOULD retain all complete message transmissions, including any message envelopes
 and headers defined by the service interaction profile, for evidentiary purposes.

762 3.4 Filing the Record on Appeal

- This section describes the process for filing and subsequently amending the Record on Appeal (ROA) using ECF4.0.
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- All ROA transactions, either the original filing or subsequent amendments, MUST contain, as the lead document, an Index of Record document that itemizes the content of the record on appeal.³
- The documents that comprise the ROA transaction will be identified as supporting documents.
 - The supporting documents that comprise the ROA transaction MAY also have additional attached documents.
- All ROA documents being submitted, including the Index of Record document and each document within the record, MUST have at least one court-defined document type that indicates the type of transaction to be performed on the document, and whether the document is being added to or stricken from the record.
- The Index of Record document and each document within the ROA transaction MAY also have an additional document type or types, which characterize the document for the Court Record MDE.
- 780

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- When a document within the ROA transaction is being stricken from the court record, the document MUST
 be identified by the unique document identifier, which was provided by the Court Record MDE when the
 document was initially filed (See section 3.3.1.4).
- 784

³ There are no set requirements for the structure or content of the Index of Record document

- A hierarchical structure of case lineage elements MUST be used to express the target case's predecessor cases at prior courts. Each predecessor case MAY also have its own predecessor case, as necessary to express the full lineage of an appellate case.⁴
- When the ROA transaction is electronically transferred from one court to another, the target case number in the destination court and the case lineage, which includes the predecessor case number in the sending court, MUST be provided.
- If the ROA transaction is a case initiating filing in the destination court, then the FilingCase object MUST be present and the CaseTrackingID MUST be absent.
- Each predecessor case identified in the target case's case lineage may include case type-specific and court-specific extensions. The case type and the case type-specific extensions for each predecessor case MUST be consistent throughout the case lineage.
- When a ROA amendment transaction is sent, the Index of Record document MUST reflect the status of the record assuming that the transaction will be accepted. If however the transaction is rejected, there will be ramifications for other pending amendment transactions for the same ROA in the same target case.⁵
- While an ROA transaction is awaiting acceptance or rejection in the destination court, and when the target case consists of multiple records, courts are cautioned against, but not prohibited from, sending additional amendment transactions intended for the same record for the same target case.
 - Individual documents within the ROA transaction MUST not be individually accepted or rejected. All documents within the ROA transaction MUST have the same acceptance or rejection disposition.
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⁴ Explanation (non-normative): There is not always a one to one correspondence between a lower court case (i.e. a trial court case) and the target appellate case. A single trial court case could have multiple descendent cases, and a single appellate case can have multiple predecessors. In the situation where an appellate case has multiple predecessor cases, each predecessor case will send a record on appeal to the target court for the appellate case. Each individual record will have an independent index of record. The warning above against sending multiple ROA transactions while a prior transaction is still pending must be regarded in light of the record to which the transaction is intended (or if you prefer, the predecessor case from which it originates). For example, let's say an appellate case has two predecessor cases, case A and case B. If an ROA transaction for the record from case A is pending (awaiting acceptance or rejection), this will not have any potential adverse impact on an ROA transaction from case B. Similarly, if a single lower court case were on appeal in two different appellate cases (say case Y and case Z), then while an ROA transaction targeted to case Y is pending, there is no potential adverse impact to case Z receiving an ROA transaction (assuming of course that case Z does not also have a pending ROA transaction from the same predecessor case).

⁵ While an ROA transaction is awaiting acceptance or rejection in the destination court, courts are cautioned against, but not prohibited from, sending additional amendment transactions for the same record in the same target case, regardless of whether the case contains one or many records.

811 **4 ECF 4.0 Schemas**

The Court Filing XSD schemas are implementations of the ECF 4.0 exchange content models (see Appendix B.3 below). They are the only normative representations of ECF 4.0 messages.

All of the ECF 4.0 XSD schemas are contained in the xsd/ subdirectory of the ECF 4.0 release package (see

815 Appendix A for more information regarding the structure of the release package). The xsd/ directory is further 816 subdivided into the xsd/casetype/, xsd/common/, xsd/constraint/, xsd/message/, and

- 817 xsd/Subset/ subdirectories.
- 818

819 4.1 ECF 4.0 Case Type Schemas

820 The XSD schemas that define extensions specific to certain ECF 4.0 case types are included in the 821 xsd/casetype/ directory, as listed below:

822

823 AppellateCase

- 824 xsd/casetype/ECF-4.0-AppellateCase.xsd
- 825 BankruptcyCase
- 826 xsd/casetype/ECF-4.0-BankruptcyCase.xsd

827 CitationCase

- 828 xsd/casetype/ECF-4.0-CitationCase.xsd
- 829 CivilCase
- 830 xsd/casetype/ECF-4.0-CivilCase.xsd
- 831 CriminalCase
- 832 xsd/casetype/ECF-4.0-CriminalCase.xsd
- 833 DomesticCase
- 834 xsd/casetype/ECF-4.0-DomesticCase.xsd
- 835 JuvenileCase
- 836 xsd/casetype/ECF-4.0-JuvenileCase.xsd
- 837

841

838 **4.2 ECF 4.0 Common Schemas**

The XSD schemas that define the generic elements and types that are common to multiple ECF 4.0 messages
 and/or case types are located in the xsd/common/ folder, as listed below:

842	AppInfo
-----	---------

- 843 xsd/common/ECF-4.0-AppInfo.xsd
- 844 CommonTypes
- 845 xsd/common/ECF-4.0-CommonTypes.xsd
- 846 **DigitalSignature**
- 847 xsd/common/xmldsig-core-schema.xsd
- 848 Genericode
- 849 xsd/common/genericode.xsd

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08 February 2011 Page 32 of 54

4.3 ECF 4.0 Constraint and Subset Schemas

The XSD schemas that define the subset of all NIEM elements and types that are used in ECF 4.0 messages and/or case type extensions are located in the xsd/Subset/niem/ folder. As a general data model, NIEM does not define any constraints regarding the minimum and maximum occurrence of elements contained within types. Therefore, in conformance with NIEM, ECF-specific constraints are not included in the schemas within the xsd/Subset/niem folder. The XSD schemas in the xsd/constraint/niem/ folder represent the NIEM subset schemas with the ECF-specific constraints applied and are the schemas by which the ECF message and case type schemas incorporate NIEM elements and types.

858 **4.4 ECF 4.0 Message Schemas**

859 860	The XSD schemas defining the messages that support the ECF 4.0 processes are located in the xsd/messages/folder, as listed below:
861	
862	CaseListQueryMessage
863	xsd/message/ECF-4.0-CaseListQueryMessage.xsd
864	CaseListResponseMessage
865	xsd/message/ECF-4.0-CaseListResponseMessage.xsd
866	CaseQueryMessage
867	xsd/message/ECF-4.0-CaseQueryMessage.xsd
868	CaseResponseMessage
869	xsd/message/ECF-4.0-CaseResponseMessage.xsd
870	CoreFilingMessage
871	xsd/message/ECF-4.0-CoreFilingMessage.xsd
872	CourtPolicyQueryMessage
873	xsd/message/ECF-4.0-CourtPolicyQueryMessage.xsd
874	CourtPolicyReponseMessage
875	xsd/message/ECF-4.0-CourtPolicyResponseMessage.xsd
876	DocumentQueryMessage
877	xsd/message/ECF-4.0-DocumentQueryMessage.xsd
878	DocumentResponseMessage
879	xsd/message/ECF-4.0-DocumentResponseMessage.xsd
880	FeesCalculationQueryMessage
881	xsd/message/ECF-4.0-FeesCalculationQueryMessage.xsd
882	FeesCalculationResponseMessage
883	xsd/message/ECF-4.0-FeesCalculationResponseMessage.xsd
884	FilingListQueryMessage
885	xsd/message/ECF-4.0-FilingListQueryMessage.xsd
886	FilingListResponseMessage
887	xsd/message/ECF-4.0-FilingListResponseMessage.xsd
888	FilingStatusQueryMessage
889	xsd/message/ECF-4.0-FilingStatusQueryMessage.xsd
890	FilingStatusResponseMessage
891	xsd/message/ECF-4.0-FilingStatusResponseMessage.xsd

892	MessageReceiptMessage
893	xsd/message/ECF-4.0-MessageReceiptMessage.xsd
894	PaymentMessage
895	xsd/message/ECF-4.0-PaymentMessage.xsd
896	PaymentReceiptMessage
897	xsd/message/ECF-4.0-PaymentReceiptMessage.xsd
898	RecordDocketingCallbackMessage
899	xsd/message/ECF-4.0-RecordDocketingCallbackMessage.xsd
900	RecordDocketingMessage
901	xsd/message/ECF-4.0-RecordDocketingMessage.xsd
902	ReviewFilingCallbackMessage
903	xsd/message/ECF-4.0-ReviewFilingCallbackMessage.xsd
904	ServiceInformationQueryMessage
905	xsd/message/ECF-4.0-ServiceInformationQueryMessage.xsd
906	ServiceInformationResponseMessage
907	xsd/message/ECF-4.0-ServiceInformationResponseMessage.xsd
908	ServiceReceiptMessage
909	xsd/message/ECF-4.0-ServiceReceiptMessage.xsd

911 **5 Service Interaction Profiles**

An ECF 4.0 service interaction profile defines a transmission system that supports the functional requirements of

electronic filing, along with the MDE operations and message structures, and implements certain non-functional
 requirements. A service interaction profile does not govern the content of message – message content is

914 requirements. A service interaction profile does not govern the content of messages – message content is 915 described in Sections 2 and 3 of this specification. A service interaction profile will define how a message gets from 916 the sending MDE to the receiving MDE in a given messaging framework.

916 the sending MDE to the receiving MDE in a given messaging framework.

917 5.1 Service Interaction Profile Requirements

Each service interaction profile will define standard conventions and configuration details to support interoperability
 between and among ECF 4.0 implementations that support the same service interaction profile. However,
 compliance with these requirements will not necessarily guarantee interoperability.

- To be compliant with the ECF 4.0 specification, a service interaction profile MUST satisfy the following nonfunctional requirements:
- Transport protocol A service interaction profile MUST define how messages are physically transported from a sending MDE to a receiving MDE. In so doing, a profile may identify factors that restrict the range of environments in which the profile is applicable.
- 926 2. **MDE addressing** A service interaction profile MUST include a convention for uniquely addressing each MDE.
- 927 3. Operation addressing A service interaction profile MUST describe a convention for uniquely addressing
 928 each MDE operation.
- 929 4. Request and operation invocation A service interaction profile MUST describe a mechanism for a sending
 930 MDE to invoke an operation on the receiving MDE.
- 5. Synchronous mode response A service interaction profile MUST support synchronous operations in which
 the response to an operation is always returned immediately, typically within a matter of seconds, to the
 invoking MDE.
- 6. Asynchronous mode response A service interaction profile MUST support asynchronous operations in
 which the response to an operation may not necessarily be returned immediately to the invoking MDE. Instead,
 the response may be returned at some later time through a callback from the MDE that received the operations
 to the invoking MDE. The callback MUST include a reference to the invoking message transmission.
- 938 7. Message/attachment delimiters A service interaction profile MUST define how the receiving MDE
 939 distinguishes messages from attachments within a message transmission.
- 940 8. Message identifiers A service interaction profile MUST provide a means for a sending MDE to assign a unique identifier to each message (including any attachments) within a message transmission.

942 In addition, there are some non-functional features that a service interaction profile SHOULD provide, including:

- Message non-repudiation A service interaction profile SHOULD provide a mechanism so that the receiving
 MDE is provided with evidence that demonstrates:
- 945 a. the identity of the sending MDE
- b. the content of the message(s) transmitted
- 947 c. the date and time of the message transmission
- 948
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 Message integrity A service interaction profile SHOULD provide a mechanism so that the receiving MDE is able to determine whether the message(s) transmitted (including any attachments) was (were) modified during the message transmission.
- Message confidentiality A service interaction profile SHOULD provide a mechanism, such as encryption, that can be used with a sending MDE to ensure that the message(s) in a transmission (including any attachments) can be processed only by the receiving MDE.

- Message authentication A service interaction profile SHOULD provide a mechanism, such that a sending
 MDE is required to include, to display credentials that demonstrate its identity to the receiving MDE in each
 message transmission.
- 957 5. Message transmission reliability A service interaction profile SHOULD provide a mechanism, such that a
 958 sending MDE is required to include, to guarantee that a message transmission will be delivered to the receiving
 959 MDE within a specified period of time, or else the sending MDE will receive notification at the end of that period
 960 of time that the message transmission was not deliverable to the receiving MDE.
- 961
 6. Message splitting and assembly A service interaction profile SHOULD provide a mechanism by which a large message and attachments MAY be split into multiple pieces that are transmitted separately by the sending MDE and reassembled into the complete message by the receiving MDE. In the HTTP 1.1 protocol, this is called "chunking."
- 7. Transmission auditing A service interaction profile SHOULD provide a mechanism for the MDE to receive
 message transmissions in their entirety (both messaging and "payload" content) for auditing purposes.

967 **5.2 Service Interaction Profile Approval and Revision Processes**

- The ECF Technical Committee (TC) will recommend certain service interaction profiles for use in implementations
 of the ECF 4.0 specification. The TC will consider a service interaction profile for recommendation for use in ECF
 4.0 implementations provided the profile meets the following requirements:
- 1. The service interaction profile MUST be described in a document in the format of an OASIS specification.
- The service interaction profile specification MUST identify a unique URI to identify the service interaction profile
 and version.
- The service interaction profile specification MUST describe the binding of MDE operations to the service
 interaction profile that satisfies the functional requirements described in Section 3 ("ECF 4.0 Process Model")
 and Section 4 ("ECF 4.0 Schema") of this specification.
- 977 4. The service interaction profile specification MUST demonstrate that the service interaction profile satisfies the
 978 non-functional service interaction profile requirements described in Section 5.1 ("Service Interaction Profile
 979 Requirements") of this specification.
- 5. The service interaction profile specification MUST include samples that demonstrate how the messaging
 information and "payload" content are combined into message transmissions. These samples MUST include
 samples that demonstrate both synchronous and asynchronous mode operations.
- At least one voting member of the ECF TC MUST agree to sponsor the service interaction profile and submit
 the service interaction profile specification to the TC for review as a candidate for approval as an ECF 4.0
 compliant service interaction profile.
- Certifying that a candidate service interaction profile meets certain service interaction profile requirements will
 necessarily involve some subjectivity since service interaction profile requirements cannot be expressed
 algebraically, in the manner of XML Schemas. Therefore, it will be up to the TC to assess whether the proposed
 profile's description is adequate in meeting the requirements of ECF 4.0 before approving the service interaction
 profile specification as a "Committee Draft" through the OASIS standards approval process.
- From time to time, it may be necessary to revise or update a service interaction profile to bring it into compliance with changes in network and messaging protocols, or to support additional non-functional requirements. Any revision(s) to previously approved service interaction profiles will be considered a new service interaction profile and MUST meet the requirements of a new service interaction profile, including sponsorship by a voting member of the ECF TC and review and approval by the ECF TC. There will be no guarantees that future versions of a service interaction profile will be backwardly compatible with the current version.

997 **5.3 Supported Service Interaction Profiles**

998 The following ECF 4.0 service interaction profile specifications are for use in conjunction with implementations of 999 the ECF 4.0 specification:

- Web Services Service Interaction Profile 2.0 Specification This specification defines a transmission system using the specifications described in the Web Services Interoperability (WS-I) Basic Profile 1.1, W3C SOAP 1.1 Binding for MTGOM 1.0, WS-I Basic Security Profile 1.0 and OASIS WS-Reliable Messaging 1.1.
- Web Services Service Interaction Profile 2.1 Specification This specification defines a transmission
 system using the specifications described in the Web Services Interoperability (WS-I) Basic Profile 1.1, W3C
 SOAP 1.1 Binding for MTGOM 1.0 and WS-I Basic Security Profile 1.1 and OASIS WS-Reliable Messaging 1.1.
- Portable Media Service Interaction Profile 1.01 Specification This specification defines a transmission system in which the sending MDE stores message transmissions on portable media (e.g., a compact disc), which is then physically transported to the receiving MDE where it is connected for retrieval of the message transmissions. This specification may be needed in the absence of an active network between the sending and receiving MDEs.
- 1011 Additional service interaction profiles, or revisions to these service interaction profiles, may be approved by the ECF
- 1012 TC for use in conjunction with implementations of the ECF 4.0 specification according to the process described in 1013 Section 5.2 ("Service Interaction Profile Approval and Revision Processes") above.

1014 6 Document Signature Profiles

An ECF 4.0 document signature profile defines a mechanism for asserting that a person signed a single electronic or imaged document, which is an attachment to a message transmission. The signing of an entire message transmission is described in a service interaction profile and is not supported by a document signature profile.

1018 6.1 Document Signature Profile Requirements

Each document signature profile will define standard conventions and configuration details to support interoperabil ity in the creation and verification of document signatures between and among ECF 4.0 implementations that
 support the same document signature profile. However, compliance with these requirements will not necessarily
 quarantee interoperability.

1023 Except for the Null Document Signature Profile, to be compliant with the ECF 4.0 specification, a document 1024 signature profile MUST satisfy the following non-functional requirements:

- 1025 1. **Signer name assertion** A document signature profile MUST make an assertion regarding the name of the person who signed a document.
- Signed date assertion A document signature profile MUST make an assertion regarding the date the person signed a document.
- Multiple signatures A document signature profile MUST allow multiple signatures to be associated with the same document.
- 1031 A signature profile SHOULD provide the following non-functional features:
- Signer and date non-repudiation A document signature profile SHOULD provide a mechanism so that the receiving MDE is provided with verifiable evidence that demonstrates:
 - a. the unique identity of the person who signed the document
- b. the date the person signed a document

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- Document integrity A document signature profile SHOULD provide a mechanism so that the receiving MDE is able to determine if the document was modified since the person signed the document.
- Document signature auditing A document signature profile SHOULD provide a mechanism for the MDE to receive both the document and signatures for auditing purposes.

1040 6.2 Document Signature Profile Approval and Revision Processes

The ECF Technical Committee will recommend certain document signature profiles for use in implementations of
 the ECF 4.0 specification. The TC will consider a document signature profile for recommendation for use in ECF
 4.0 implementations provided the profile meets the following requirements:

- 1044 1. The document signature profile MUST be described in a document in the format of an OASIS specification.
- The document signature profile specification MUST identify a unique URI to identify the document signature profile and version.
- If the document signature is not embedded in the document, the document signature profile specification MUST
 include an XML structure for describing precisely how the document signature is represented.
- The document signature profile specification MUST demonstrate that the document signature profile satisfies
 the non-functional requirements described in Section 6.1 ("Document Signature Profile Requirements") of this
 specification.
- The document signature profile specification MUST include samples that demonstrate how the document signature information and "payload" content are combined into message transmissions.
- At least one voting member of the ECF TC MUST agree to sponsor the document signature profile and submit
 the document signature profile specification to the TC for review as a candidate for approval as an ECF 4.0
 document signature profile.

- 1057 Certifying that a candidate document signature profile meets certain document signature profile requirements will
- 1058 necessarily involve some subjectivity, since document signature profile requirements cannot be expressed 1059 algebraically, in the manner of XML Schemas. Therefore, it will be up to the TC to assess whether the proposed
- 1060 profile's description is adequate to the requirements before approving the profile specification as a Committee Draft 1061 through the OASIS standards approval process.
- From time to time, it may be necessary to revise or update a document signature profile to bring it into compliance with changes in authentication and encryption protocols, or to support additional non-functional requirements. Any revision(s) to previously approved document signature profiles will be considered a new document signature profile and MUST meet the requirements of a new document signature profile, including sponsorship by a voting member of the ECF TC and review and approval by the ECF TC. There will be no guarantees that future versions of document signature profiles will be backwardly compatible with the current version.

1068 **6.3 Supported Document Signature Profiles**

- 1069 The following ECF 4.0 document signature profile specifications are candidate Committee Drafts for use in 1070 conjunction with implementations of the ECF 4.0 specification:
- Null Document Signature Profile 1.0 Specification This specification defines a default mechanism to describe documents that do not have any associated signatures.
- **XML Document Signature Profile 1.0 Specification** This specification defines a mechanism for associating a W3C XML Signature with a document.
- Application-Specific Document Signature Profile 1.0 Specification This specification defines a
 mechanism for embedding an application-specific binary signature with a document. This profile supports the
 native capabilities in document formats such as Microsoft Word and the Adobe Portable Document Format
 (PDF) for describing and embedding signatures.
- Proxy Document Signature Profile 1.0 Specification This specification defines a mechanism for indicating documents that are digitally signed by a court filing infrastructure component on behalf of an authenticated signer.
- Symmetric Key Document Signature Profile 1.0 Specification This specification defines a mechanism for indicating documents that are digitally signed by a trusted entity on behalf of the signer using a symmetric key known only to the trusted entity.
- Additional document signature profiles, or revisions to these document signatures profiles, may be approved by the ECF TC for use in conjunction with implementation of the ECF 4.0 specification according to the process described in Section 6.2 ("Document Signature Profile Approval and Revision Processes") above.

1088 **7 Conformance**

1089 An implementation conforms with the Electronic Court Filing Version 4.01 if the implementation meets the 1090 requirements in Sections 1-6 including conformance with the referenced XSD schemas and Genericode code lists.

1091 Appendix A. (Informative) Release Notes

1092 A.1 Availability

1093 Online and downloadable versions of this release are available from the locations specified at the top of this document.

1095 A.2 Package Structure

1096 The ECF 4.0 specification is published as a ZIP archive named ecf-v4.0.zip. Unzipping this archive creates a 1097 directory named ecf-4.0/ containing this specification document and a number of subdirectories. The files in 1098 these subdirectories, linked to the specification document, contain the various normative and informational pieces of 1099 the 1.0 release. A description of each subdirectory is given below.

1100 ac/ 1101 Genericode 1.0 code lists 1102 model/ 1103 ECF 4.0 UML exchange content model diagrams and spreadsheet models; see Appendix B.3 and B4 1104 xml/ 1105 Example instances; see Appendix D 1106 xsd/ 1107 XSD schemas; see Section 4

1108 A.3 Recursive Structures

Certain components in the [NIEM] version 2.0 schemas allow recursive nesting. For example, a nc:Case may be related to another nc:Case, etc. These are legitimate business data structures. Most real-world applications will limit the depth of recursion in such structures, but XSD schemas are incapable of expressing this constraint. Implementers should be aware of this and may wish to set limits on the depth of recursive structures in their applications.

1114 A.4 Date and Time Formats

1115 The date and time elements contained in the messages defined by the ECF 4.0 XSD schemas should be formatted 1116 according to the documentation in the **[NIEM]** version 2.0. The **[NIEM]** documentation indicates the following:

- Calendar date values should be expressed as "CCYY-MM-DD", with an optional time zone qualifier designated by appending -hh:00, where hh represent the number of hours the local time zone is behind Coordinated Universal Time (UTC).
- Time values should be expressed as "hh:mm:ss.sss", with an optional time zone qualifier designated by
 appending -hh:00, where hh represent the number of hours the local time zone is behind Coordinated Universal
 Time (UTC).
- Date and time values should be expressed as "CCYY-MM-DDThh:mm:ss.sss" with an optional time zone designated by appending -hh:00, where hh represent the number of hours the local time zone is behind Coordinated Universal Time (UTC).qualifier.
- 1126 These formats are documented in, but not enforced by, the XSD schema at
- 1127 xsd/constraint/niem/proxy/xsd/2.0/xsd.xsd.

1128 A.5 Known Errata

1129 Known errors in the ECF 4.0 specification will be identified in an errata document available at:

1130 http://www.oasis-open.org/apps/org/workgroup/legalxml-courtfiling/

Appendix B. (Informative) ECF 4.0 Development Approach and Artifacts

1133 This appendix describes the approach used to develop ECF 4.0 and the modeling artifacts.

1134 B.1 Principles

- 1135 The key principles that guided the design of the ECF 4.0 message structures were:
- Interoperability The ECF 4.0 message structures should provide a means for exchanging court filings among all types of court information systems.
- Completeness The ECF Filing 4.0 message structures format should provide for all the elements of an electronic filing system.
- **Simple implementation** The design should foster rapid implementation.
- **Simple XML and portable structure** The core messages in an ECF 4.0 exchange will be formatted as XML documents.
- **Familiarity** The data elements and code values should be meaningful to the legal community and non-expert recipients alike.
- **Interdisciplinary and international utility** The design should be usable by a broad range of court-related applications and should be applicable internationally.

1147 B.2 Approach

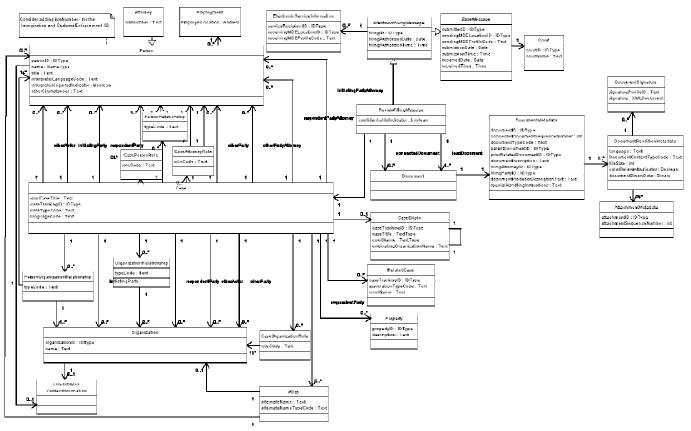
1148 The ECF 4.0 message schemas were developed as a **[NIEM]** Information Exchange Package Definition (IEPD). A **[NIEM IEPD]** is a collection of artifacts that describe the structure and content of a set of data that is transmitted for

- a specific business purpose. It does not specify other interface layers (such as Web services).
- 1151 The NIEM Naming and Design Rules (MNDR) **[NIEM NDR]** describe best practices for the development of NIEM-1152 conformant Information Exchange Packages and documentation. The Design Rules set forth:
- 1153 A methodology for the construction of **[NIEM]**-conformant exchange documents
- Naming and design rules for the artifacts called for by the methodology
- Guidelines for the customization of **[NIEM]** schema structures

1156 B.3 ECF 4.0 Exchange Content Models

- 1157 The ECF 4.0 exchange content models describe the information components used in all of the messages defined 1158 by ECF 4.0.
- 1159 The exchange content models are the result of a detailed analysis of the data requirements to support the ECF 4.0
- Process Model (see Section 3). During the modeling process, common items of data were identified by a process of normalization to identify aggregates based on functional dependency. Where appropriate, these were
- 1162 generalized so that they could be re-used to support the various messages.
- 1163 The exchange content models are used for the following purposes:
- They facilitate the identification of the reusable components, i.e., the data structures that are common across the ECF 4.0 messages.
- They aid in understanding the information requirements of the total scenario.
- They are the source from which the object classes are derived and documented in the ECF 4.0 schemas (see Section 4).

- 1169 To facilitate comprehension, the ECF 4.0 is composed of several exchange content model diagrams. Each diagram
- 1170 represents a logical grouping of components and displays both the attributes and object classes belonging to the
- 1171 components in this grouping. The scope of each diagram is arbitrary and does not hold any significance beyond 1172 these diagrams.
- 1173 For example, the ECF 4.0 Review Filing Model diagram is shown below:



- 1174
- 1175
- 1176
- 1177 The complete set of exchange content models for all the ECF 4.0 components is listed below:
- 1178

1184

- 1179 Appellate Filing Model
- 1180 model/uml/html/AppellateFiling.png

1181 Bankruptcy Filing Model

- 1182 model/uml/html/BankruptcyFiling.png
- 1183 Base Message Model
 - model/uml/html/BaseMessage.png
- 1185Civil Filing Model
- 1186 model/uml/html/CivilFiling.png
- 1187 Citation Filing Model
- 1188 model/uml/html/Violation Filing.png
- 1189 Criminal Filing Model
- 1190 model/uml/html/CriminalFiling.png
- 1191 **Domestic Filing Model**

1192	model/uml/html/DomesticFiling.png
1193	Extended Person Information Model
1194	model/uml/html/ExtendedPersonInformation.png
1195	Get Calculated Fees Query Model
1196	model/uml/html/GetFeesCalculationQuery.png
1197	Get Case List Query Model
1198	model/uml/html/GetCaseListQuery.png
1199	Get Document Query Model
1200	model/uml/html/GetDocumentQuery.png
1201	Get Filing List Query Model
1202	model/uml/html/GetFilingListQuery.png
1203	Get Filing Status Query Model
1204	model/uml/html/GetFilingStatusQuery.png
1205	Get Service Information Query Model
1206	model/uml/html/GetServiceInformationQuery.png
1207	Major Design Elements Model
1208	model/uml/html/MajorDesignElements.png
1209	Juvenile Filing Model
1210	model/uml/html/JuvenileFiling.png
1211	Record Docketing Model
1212	model/uml/html/RecordDocketing.png
1213	Review Filing Model
1214	model/uml/html/ReviewFiling.png
1215	
1216 1217	No specific directions are defined for the associations in these models; they can be navigated in either direction. The specific navigation path for each association is defined when documents are assembled.
1218	B.4 Spreadsheet Models

- 1219 ECF 4.0 uses spreadsheet models to describe the mapping of objects and attributes to [NIEM] and ECF 4.0
- elements. The spreadsheet models use rows to define components. Components are either simple data types or associations. Columns define the metadata associated with each component type.
- 1222 The ECF 4.0 spreadsheet model is located at mod/ECF-4.0-NIEM-mapping.xls.

1223

1224 Appendix C. (Informative) MDE Operations

1225 This appendix details the operations that are provided by each Major Design Element (MDE) and the operations, 1226 provided by other MDEs that each MDE "consumes." Implementation of an MDE requires both that the MDE 1227 provide certain functionality and that the MDE use particular operations provided by other MDEs.

1228 C.1 Filing Assembly MDE

The Filing Assembly MDE supports the preparation and submission of filed documents to a court for review, and can receive the results of that process. The Filing Assembly MDE also conveys filings to the Legal Service MDE for service on other case participants. The Filing Assembly MDE calls operations in other MDEs and provides a single operation for notifying the submitter that the filing has been reviewed by a court. A Filing Assembly MDE may be provided by a court or by a third party.

1234 C.1.1 Provided Operations

1235 The Filing Assembly MDE provides the following operations to other MDEs:

Operation	Called By	Output	Parameters
NotifyFilingReview- Complete	Filing Review MDE	xsd/message/ECF-4.0- MessageReceiptMes- sage.xsd : MessageRe- ceiptMessage	xsd/message/ECF-4.0- ReviewFilingCallbackMessage.xsd : ReviewFiling- CallbackMessage
		celptiviessage	xsd/message/ECF-4.0-PaymentMessage.xsd : PaymentMessage

1236 C.1.2 Consumed Operations

1237 The Filing Assembly MDE calls the following operations in other MDEs:

Operation	Provided By	Return Type
GetPolicy	Filing Review MDE	xsd/message/ECF-4.0-CourtPolicyQueryMessage.xsd : CourtPolicyReponseMessage
ReviewFiling	Filing Review MDE	xsd/message/ECF-4.0-MessageReceiptMessage.xsd : MessageReceiptMessage
GetFeesCalculation	Filing Review MDE	xsd/message/ECF-4.0-FeesCalculationResponseMessage.xsd : FeesCalculationResponseMessage
GetFilingStatus	Filing Review MDE	xsd/message/ECF-4.0-FilingStatusResponseMessage.xsd : FilingStatusResponseMessage
GetFilingList	Filing Review MDE	xsd/message/ECF-4.0-FilingListResponseMessage.xsd : FilingListResponseMessage
GetCase	Court Record MDE	xsd/message/ECF-4.0-CaseResponseMessage.xsd : CaseResponseMessage
GetCaseList	Court Record MDE	xsd/message/ECF-4.0-CaseListResponseMessage.xsd : CaseListResponseMessage
GetServiceInformation	Court Record MDE	xsd/message/ECF-4.0- ServiceInformationResponseMessage.xsd : ServiceInforma- tionResponseMessage
GetDocument	Court Record MDE	xsd/message/ECF-4.0-DocumentResponseMessage.xsd : DocumentResponseMessage

ServeFiling	Legal Service MDE	xsd/message/ECF-4.0-ServiceReceiptMessage.xsd : ServiceReceiptMessage

1238 C.2 Filing Review MDE

The Filing Review MDE receives, presents and manages the filings. The Filing Review MDE receives filings in a standard format and presents those filings to a Clerk for review, where they may be accepted or rejected. The Filing Review MDE transmits data and documents to the Filing Assembly MDE to inform the filer that the filing has been accepted or rejected. The Filing Review MDE transmits data and documents for accepted filings to the Court Record MDE for docketing and recording. While there will generally be one Filing Review MDE per court, there is no physical barrier to having more than one, particularly if a court wants to support different Filing Review MDEs for particular case types.

1246 C.2.1 Provided Operations

1247 The Filing Review MDE provides the following operations to other MDEs:

Operation	Called By	Output	Parameters
ReviewFiling	Filing Assembly MDE	xsd/message/ECF-4.0- MessageReceiptMes-	xsd/message/ECF-4.0-CoreFilingMessage.xsd : CoreFilingMessage
	MDE	sage.xsd : MessageRe- ceiptMessage	xsd/message/ECF-4.0-PaymentMessage.xsd : PaymentMessage
NotifyDocketing- Complete	Court Docketing MDE	xsd/message/ECF-4.0- MessageReceiptMes- sage.xsd : MessageRe- ceiptMessage	xsd/message/ECF-4.0- RecordDocketingCallbackMessage.xsd : RecordDocketingCallbackMessage
GetFeesCalculation	Filing Assembly MDE	xsd/message/ECF-4.0- FeesCalculationRespon- seMessage.xsd : FeesCalculationRespon- seMessage	xsd/message/ECF-4.0- FeesCalculationQueryMessage.xsd : FeesCalcula- tionQueryMessage
GetFilingList	Filing Assembly MDE	xsd/message/ECF-4.0- FilingListResponseMes- sage.xsd : FilingListRe- sponseMessage	xsd/message/ECF-4.0-FilingListQueryMessage.xsd : FilingListQueryMessage
GetFilingStatus	Filing Assembly MDE	xsd/message/ECF-4.0- FilingStatusResponseMes- sage.xsd : FilingStatusRe- sponseMessage	xsd/message/ECF-4.0-FilingStatusQueryMessage.xsd : FilingStatusQueryMessage
GetPolicy	Filing Assembly MDE	xsd/message/ECF-4.0- CourtPolicyQueryMes- sage.xsd : CourtPolicyRe- ponseMessage	xsd/message/ECF-4.0-CourtPolicyQueryMessage.xsd : CourtPolicyQueryMessage

1248 C.2.2 Consumed Operations

1249 The Filing Review MDE calls the following operations in other MDEs:

Operation	Provided By	Output
RecordFiling	Court Record MDE	xsd/message/ECF-4.0-MessageReceiptMessage.xsd : MessageReceiptMessage
NotifyFilingReviewComplete	Filing Assembly MDE	xsd/message/ECF-4.0-MessageReceiptMessage.xsd : MessageReceiptMessage

1250 C.3 Court Record MDE

1251 The Court Record MDE receives the filed documents from the Filing Review MDE and enters them into the official 1252 case record of the court. The Court Record MDE notifies the Filing Review MDE that the filing has been filed.

1253 C.3.1 Provided Operations

1254 The Court Record MDE provides the following operations to other MDEs:

Operation	Called By	Output	Parameters
RecordFiling	Filing Review MDE	xsd/message/ECF-4.0- MessageReceiptMes- sage.xsd : MessageRe- ceiptMessage	xsd/message/ECF-4.0-RecordDocketingMessage.xsd : RecordDocketingMessage
			xsd/message/ECF-4.04.0-CoreFilingMessage.xsd : CoreFilingMessage
			xsd/message/ECF-4.0-CaseTypeSpecificMessage.xsd : CaseTypeSpecificMessage
			xsd/message/ECF-4.0-CaseTypeSpecificMessage.xsd : CourtSpecificMessage
GetCase	Filing Assembly MDE	xsd/message/ECF-4.0- CaseResponseMes- sage.xsd : CaseRespon- seMessage	xsd/message/ECF-4.0-CaseQueryMessage.xsd : CaseQueryMessage
GetCaseList	Filing Assembly MDE	xsd/message/ECF-4.0- CaseListResponseMes- sage.xsd : CaseListRe- sponseMessage	xsd/message/ECF-4.0-CaseListQueryMessage.xsd : CaseListQueryMessage
GetServiceInforma- tion	Filing Assembly MDE	xsd/message/ECF-4.0- ServiceInformationRes- ponseMessage.xsd : ServiceInformationRes- ponseMessage	xsd/message/ECF-4.0- ServiceInformationQueryMessage.xsd : ServiceIn- formationQueryMessage
GetDocument	Filing Assembly MDE	xsd/message/ECF-4.0- DocumentResponseMes- sage.xsd : DocumentRes- ponseMessage	xsd/message/ECF-4.0-DocumentQueryMessage.xsd : DocumentQueryMessage

1255 **C.3.2 Consumed Operations**

1256 The Court Record MDE calls the following operations in other MDEs:

Operation	Provided By	Output
NotifyDocketingComplete	Filing Review MDE	xsd/message/ECF-4.0-MessageReceiptMessage.xsd : MessageReceiptMessage

1257 C.4 Legal Service MDE

The Legal Service MDE enables a filer or a court to electronically transmit copies of, or links to, electronically filed documents to other parties who are participating in the case and who are entitled to be promptly served with the electronically filed documents. The Filing Assembly MDE transmits data and documents to the Legal Service MDE to inform the case participant that an electronic filing has been submitted to the court clerk. The Legal Service MDE transmits a callback message to the Filing Assembly MDE requesting a notification to confirm receipt of the served document.

1264 C.4.1 Provided Operations

Operation	Called By	Output	Parameters
ServeFiling	Filing Assembly MDE	xsd/message/ECF-4.0- ServiceReceiptMes- sage.xsd : ServiceRe- ceiptMessage	xsd/message/ECF-4.0-CoreFilingMessage.xsd : CoreFilingMessage

1265 The Legal Service MDE provides the following operations to other MDEs:

1266 C.4.2 Consumed Operations

1267 The Legal Service MDE does not call operations in other MDEs

1268 Appendix D. (Informative) Example Instances

1269 1270	Example instances of each ECF 4.0 message are provided in the xml/ subdirectory, as listed below:
1271	FeesCalculationQueryMessage
1272	xml/ECF-4.0-FeesCalculationQueryMessage.xml
1273	FeesCalculationResponseMessage
1274	xml/ECF-4.0-FeesCalculationResponseMessage.xml
1275	CaseListQueryMessage
1276	xml/ECF-4.0-CaseListQueryMessage.xml
1277	CaseListResponseMessage
1278	xml/ECF-4.0-CaseListResponseMessage.xml
1279	CaseQueryMessage
1280	xml/ECF-4.0-CaseQueryMessage.xml
1281	CaseResponseMessage
1282	xml/ECF-4.0-CaseResponseMessage.xml
1283	CoreFilingMessage (Appellate case type)
1284	xml/ECF-4.0-CoreFilingMessage-Appellate.xml
1285	CoreFilingMessage (Criminal case type)
1286	xml/ECF-4.0-CoreFilingMessage-Criminal.xml
1287	CourtPolicyQueryMessage
1288	xml/ECF-4.0-CourtPolicyQueryMessage.xml
1289	CourtPolicyReponseMessage
1290	xml/ECF-4.0-CourtPolicyResponseMessage.xml
1291	DocumentQueryMessage
1292	xml/ECF-4.0-DocumentQueryMessage.xml
1293	DocumentResponseMessage
1294	xml/ECF-4.0-DocumentResponseMessage.xml
1295	FilingListQueryMessage
1296	xml/ECF-4.0-FilingListQueryMessage.xml
1297	FilingListResponseMessage
1298	xml/ECF-4.0-FilingListResponseMessage.xml
1299	FilingPaymentMessage
1300	xml/ECF-4.0-PaymentMessage.xml
1301	FilingStatusQueryMessage
1302	xml/ECF-4.0-FilingStatusQueryMessage.xml
1303	FilingStatusResponseMessage
1304	xml/ECF-4.0-FilingStatusResponseMessage.xml
1305	MessageReceiptMessage
1306	xml/ECF-4.0-MessageReceiptMessage.xml

1307	PaymentReceiptMessage
1308	xml/ECF-4.0-PaymentReceiptMessage.xml
1309	RecordDocketingCallbackMessage
1310	xml/ECF-4.0-RecordDocketingCallbackMessage.xml
1311	RecordDocketingMessage
1312	xml/ECF-4.0-RecordDocketingMessage.xml
1313	ReviewFilingCallbackMessage
1314	xml/ECF-4.0-ReviewFilingCallbackMessage.xml
1315	ServiceInformationQueryMessage
1316	xml/ECF-4.0-ServiceInformationQueryMessage.xml
1317	ServiceInformationResponseMessage
1318	xml/ECF-4.0-ServiceInformationResponseMessage.xml
1319	ServiceReceiptMessage
1320	xml/ECF-4.0-ServiceReceiptMessage.xml

1321 Appendix E. (Informative) Ongoing Work Items

1322 The Electronic Court Filing TC plans to continue to revise and expand this specification through future versions.1323 Future versions of ECF will:

- 1324 Address filings in administrative tribunals
- Address primary service (the delivery of documents such as summonses, subpoenas and warrants that
 establish a court's jurisdiction over a party)
- Consider how the specifications for filing of documents intended for filing with a court relate to specifications for filing other documents, e.g., property records, in the offices of elected clerks of courts
- 1329 Incorporate feedback from ECF implementations
- 1330 Support future releases of the [NIEM]
- Support future **[Court Document]** specifications and integration optimizations
- Support non-case related filings into a court clerk's office

1333	Appendix F. (Informative) Acknowledgments
1334 1335	The following court organizations provided lists of data elements required for initiating cases in their case management information systems:
1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350	 Administrative Office of United States Courts Bankruptcy, Civil, Criminal Arizona Administrative Office of the Courts Appellate Fourth Judicial District Court, Hennepin County, Minneapolis Criminal King County Superior Court, Washington Civil, Criminal Missouri Office of State Courts Administrator Citation Thirteenth Judicial District, Orange County, Florida (through vendor)
1351	
1352 1353	The following individuals were members or voting members of the committee during the development of this specification:
1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375	 Rolly Chambers, American Bar Association John Messing, American Bar Association Adam Angione, Courthouse News Service Eric Eastman Doxpop, LLC Robert DeFilippis, Associate Chester Ensign, Associate Gary Poindexter, Associate Michael Alexandrou, Judicial Council of Georgia Shawn Artrip, Judicial Council of Georgia, Robbie Diaz, Judicial Council of Georgia Morgan Medders, Judicial Council of Georgia Scott Edson, LA County Information Systems Advisory Body Ali Farahani, LA County Information Systems Advisory Body John Ruegg, LA County Information Systems Advisory Body CJ Allen, Maricopa County Robin Gibson, Missouri Office of State Courts Admin James Cabral, MTG Management Consultants, LLC Thomas Clarke, National Center for State Courts Diana Graski, National Center for State Courts Jim Harris, National Center for State Courts Jim Harris, National Center for State Courts Jason Hill, New York State Office of Court Administration, DoT
1375 1376 1377 1378 1379	 Jason Hill, New York State Office of Court Administration, Do I Robert O'Brien, Ottawa Courts Administration Service George Knecht, PC Intellect, LLC Mark Ladd, Property Records Industry Assn. Ron Bowmaster. Utah Administrative Office of the Courts

1380 Appendix G. (Informative) Revision History

Rev	Date	By Whom	What
Wd01	2008-03-17	James Cabral	Initial version
Wd02	2008-08-15	James Cabral	Revision including complete IEPD.
Wd03	2008-08-25	James Cabral	Revisions based on August face to face meeting and initial testing.
Wd04	2008-09-03	James Cabral	Revised guidance on filing record on appeal (Section 3.4)
Wd01	2008-09-20	James Cabral	Committee draft
4.01	2010-03-15	James Cabral	Minor schema and definition changes based on feedback from implementers of the ECF 4.0 specification.

1381