

CMS SOAP CLIENT

SOFTWARE REQUIREMENTS
SPECIFICATION

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INTRODUCTION

PURPOSE

The purpose of this document is to describe the requirements for a CMS SOAP Client (hereinafter called system). This document describes the features and the interfaces of the system. This document is for both the developers who are to design the CMS SOAP Client and the developers who will use the system to aide in the integration of their CMS with the AOC's E-Filing project. This document originally assumed the existence of a Clerk Review Module in the GAJE Efiling Child Support application. This clerk review module assisted the user from the Clerk's office to inspect, verify, digitally sign and queue for import filings. These requirements are no longer in place and all the responsibility of checking for accuracy, rejecting, signing and stamping documents and queuing cases is part of the work the vendor of the cms of the court must do. The benefit of this change? The user will no longer need to alternate interfaces between their local cms and the GAJE Efiling Child Support application. There would be a single interface, provided by the vendor, with which the user is already familiar. As a consequence, no knowledge of the existence of the GAJE Efiling Child Support system will be required.

SCOPE OF PROJECT

The CMS SOAP Client is a middleware module which will act as an interpreter between a CMS and the AOC's E-filing web application. A User with the intention of interacting with the CMS or a program will, on demand or programmatically on a batch mode, ask the system to retrieve either a list of case filings ready to be imported or the case information for a particular case filing. The response from the E-filing service will be provided to CMS in accordance to the CMS specification.

GLOSSARY

The following terms and abbreviations will be used throughout the document, and are referenced here for the ease of the reader:

Term	Definition
The System	CMS SOAP Client
AOC	Georgia Administrative Office of the Courts
GAJE Efiling Child Support	An AOC Efiling application for uploading data and documents from the child support offices throughout the state of Georgia

AOC Efiling Service or AOC Web Service(s)	and makes them available for transmission into the Superior Courts of the state of Georgia.
CMS	An AOC system of web services for providing data and documents to client systems of the superior courts.
SOAP	Case Management System
XML	Simple Object Access Protocol
WSDL	Extensible Markup Language
User	Web Service Definition Language
Case ready to be imported	A user that intends to enter a case or documents in the CMS In GAJE Child Support Efiling a case is marked as ready to be imported when the case has never been imported before or a case has been already imported together with its leading and supporting documents but additional documents have been introduced into the Efiling system.
HTTP Basic	Authentication of a client or browser by sending together with the request the encoded user name and password.
SSL/TSL	From wikipedia: "Transport Layer Security (TLS) and its predecessor, Secure Socket Layer (SSL), are cryptographic protocols that provide security for communications over networks such as the Internet. TLS and SSL encrypt the segments of network connections at the Application Layer to ensure secure end-to-end transit at the Transport Layer". Application layer in the wikipedia quote is the http and not the system or the efile application.

REFERENCES

IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications. IEEE Computer Society, 1998

OVERVIEW OF DOCUMENT

The Overall Description section of this document provides an overview of the system in its entirety. It describes the context for the technical requirements that follow. The third section, the Requirements Specification section gives the exact technical specifications to which the system functions.

OVERALL DESCRIPTION

2.1 SYSTEM ENVIRONMENT

The system interacts directly only with other programs and/or a User. The system will wait for a command from a program or a User and then form the proper SOAP request

message to invoke the AOC's E-filing service. Once the system receives a response from the E-filing service, it will take the appropriate action and provide an output for the CMS in accordance with the CMS specification

2.2 FUNCTIONAL REQUIREMENTS SPECIFICATION

This section describes the general configuration of the system. In this configuration all method calls are initiated by a User with the intention of integrating with the CMS or by a program directly or on batch mode.

2.2.1 GET QUEUED FILINGS USE CASE

BRIEF DESCRIPTION

The User or a program will fire up the system to ask the E-filing service for a list of case filing identifiers for cases that are ready to be imported into their system.

Step-By-Step Description

1. The user on demand, or a program on either demand or batch mode will fire up the system for a list of case filing identifiers for cases that are ready to be imported into their system.
2. The system will form the SOAP request message to invoke the E-filing service's method 'getQueuedFilings'.
3. The system will parse the response from the E-filing service and provide the output to the CMS in accordance with the CMS specification.

The formal definition of the use case is as follows:

GET QUEUED FILINGS

Use Case Name	Get Queued Filings
Trigger	The User or a program notifies the system to invoke the getQueuedFilings method of the E-Filing service.
Precondition	None.
Basic Path	<ol style="list-style-type: none">1. The User or a program notifies the system to invoke the getQueuedFilings method of the E-Filing system.2. The system forms and sends the SOAP request message to AOC's E-filing service method 'getQueuedFilings.'3. The system consumes the response (getQueuedFilingsResponse), which is a list of case filing identifiers, and provides the list to the User or a program in accordance with the CMS specification
Alternative Paths	None.
Post-condition	None.
Exception Paths	If there is a fault returned from the E-filing service or the SOAP response is malformed, the system will attempt two subsequent retries. If these are unsuccessful, then the system will return an error message to the CMS.

XML Format

The method invoked is described in the wsdl:

```
<wsdl:operation name="getQueuedFilings">  
    <wsdl:input message="getQueuedFilingsRequest"  
        name="getQueuedFilingsRequest">  
    </wsdl:input>  
  
    <wsdl:output message="getQueuedFilingsResponse"  
        name="getQueuedFilingsResponse">  
    </wsdl:output>
```

```
</wsdl:operation>
```

the input getQueuedFilingsRequest to the method is:

```
<wsdl:message name="getQueuedFilingsRequest">  
  
    <wsdl:part element="getQueuedFilings"  
        name="parameters"></wsdl:part>
```

```
</wsdl:message>
```

where the element is:

```
<xs:element name="getQueuedFilings">  
  
    <xs:complexType>  
  
        <xs:sequence>  
  
            <xs:element name="courtID" type="xs:string"/>  
  
        </xs:sequence>  
  
    </xs:complexType>
```

```
</xs:element>
```

and the output getQueuedFilingsResponse from the method is:

```
<xs:element name="getQueuedFilingsResponse">  
  
    <xs:complexType>  
  
        <xs:sequence>  
  
            <xs:element name="cases" type="uuidList"/>  
  
        </xs:sequence>  
  
    </xs:complexType>
```

```
</xs:element>
```

where the element in the response is:

```
<xs:complexType name="uuidList">  
  
    <xs:sequence>  
  
        <xs:element maxOccurs="unbounded" minOccurs="0"  
            name="uuid" type="xs:string"/>
```

`</xs:sequence>`

`</xs:complexType>`

2.2.2 GET CASE FILING USE CASE

Brief Description

The user on demand or the system automatically will ask the E-filing service for all case filing information for a particular case identifier.

Step-By-Step Description

1. The user on demand in accordance with the CMS specification, will ask the system for a particular case filing identifier or the system
2. The system will form the SOAP request message to invoke the E-filing service's method 'getCaseFiling' for the particular identifier.
3. The system will take the payload of the response from the E-filing service and provide it to the CMS in accordance with the CMS specification.

The formal definition of the use case is as follows:

GET CASE FILING

Use Case Name	Get Case Filing
Trigger	The User or a program will ask the system to invoke the getCaseFiling method of the E-Filing system for a given case identifier.
Precondition	The system has previously invoked the getQueuedFilings method (described above) to get the unique case filing identifiers of cases ready to be imported to the CMS.
Basic Path	<ol style="list-style-type: none">1. The User or the program in accordance with the CMS specification notifies the system to invoke the getCaseFiling method of the E-Filing system and passes a unique case filing identifier.2. The system forms a SOAP getCaseFilingRequest request message to invoke the AOC's E-filing service method 'getCaseFiling.'3. The system consumes the response (getCaseFilingResponse) from the AOC's E-Filing service, and provides it to the CMS in accordance to the CMS specification. The AOC's E-Filing SOAP response message constitutes the meta data together with the documents that constitute the case filing for the particular unique case filing identifier.
Alternative Paths	None.
Post-condition	The system in accordance with the cms specification invokes the the acceptFiling (or rejectFiling)method of the AOC's E-Filing service by sending the acceptFilingRequest (or rejectFilingRequest).
Exception Paths	If there is a fault returned from the E-filing service or the SOAP response is malformed, the system will attempt two subsequent retries. If these are unsuccessful, then the system will return an error message to the CMS.
XML Format	The method invoked is described in the wsdl:

```
<xs:element name="type" type="xs:int"/>
<xs:element name="category" type="xs:int"/>
<xs:element name="filingType" type="xs:int"/>
<xs:element name="caption" type="xs:string"/>
<xs:element name="date" type="xs:string"/>
<xs:element name="dispositionDate" type="xs:string"/>
<xs:element name="status" type="xs:string"/>
<xs:element name="prosecutionAttorneys"
  type="caseOfficialList"/>
<xs:element name="defenseAttorneys"
  type="caseOfficialList"/>
<xs:element name="initiatingParties" type="casePartyList"/>
<xs:element name="caseInitiatingPartyOrganizations"
  type="casePartyList"/>
<xs:element name="caseDefendantParties"
  type="casePartyList"/>
<xs:element name="witnesses" type="casePartyList"/>
<xs:element name="events" type="caseEventList"/>
<xs:element name="courtID" type="xs:string"/>
<xs:element name="documents" type="documentList"/>
</xs:sequence>
</xs:complexType>
```

2.2.3 ACCEPTFILING USE CASE

Brief Description

CMS conveys an acknowledgement message to the AOC'S e-Filing service.

Step-By-Step Description

1. The CMS will ask the system, in accordance with the CMS specification, to send a SOAP request message to the AOC's E-Filing service in regards with the effort of the CMS to create a case record for a particular unique case filing identifier.

2. The system will form the SOAP request message to invoke the E-filing service's method "acceptFiling".
3. The system will parse the response from the E-filing service and may or may not provide the output to the CMS in accordance with the CMS specification.

The formal definition of the use case is as follows:

ACCEPTFILING USE CASE

Use Case Name	acceptFiling use case
Trigger	The CMS notifies the system to invoke the acceptFiling method of the E-Filing system.
Precondition	The User or a program has previously invoked the getCaseFiling method (described above) to get the case filing meta data of a particular case identifier together with the documents that constitute the case filing.
Basic Path	<ol style="list-style-type: none"> 1. The CMS in accordance with the CMS specification notifies the system to invoke the acceptFiling method of the E-Filing service. 2. The system forms the SOAP acceptFilingRequest request message to invoke the AOC's E-filing service method acceptFiling. 3. The system consumes the response from the AOC's E-Filing service (acceptFilingResponse), and provides it to the CMS in accordance to the CMS specification.
Alternative Paths	None.
Post-condition	Based on the cms specification.
Exception Paths	If there is a fault returned from the E-filing service or the SOAP response is malformed, the system will attempt two subsequent retries. If these are unsuccessful, then the system will return an error message to the CMS.

XML Format	<p>The method invoked is described in the wsdl:</p> <pre style="color: red;"> <wsdl:operation name="acceptFiling"> <wsdl:input message="acceptFilingRequest" name="acceptFilingRequest"> </wsdl:input> <wsdl:output message="acceptFilingResponse" name="acceptFilingResponse"> </wsdl:output> </wsdl:operation> the input acceptFilingRequest to the method is: <wsdl:message name="acceptFilingRequest"> <wsdl:part element="acceptFiling" name="parameters"> </wsdl:part> </wsdl:message> where the element is: <xs:element name="acceptFiling"> <xs:complexType> <xs:sequence> </pre>
-------------------	---

```

        <xs:element maxOccurs="1" minOccurs="1" name="uuid"
            nillable="false"
            type="xs:string"/>
        <xs:element maxOccurs="1" minOccurs="1"
            name="docket" nillable="false"
            type="xs:string"/>
        <xs:element maxOccurs="1" minOccurs="0" name="judge"
            nillable="true"
            type="xs:string"/>
        <xs:element maxOccurs="1" minOccurs="0"
            name="courtDate" nillable="true"
            type="xs:date"/>
        <xs:element maxOccurs="1" minOccurs="1"
            name="documents" type="documentList"
        />
    </xs:sequence>
</xs:complexType>
</xs:element>
the output acceptFilingResponse from the method is:
<wsdl:message name="acceptFilingResponse">
    <wsdl:part element="acceptFilingResponse" name="parameters">
    </wsdl:part>
</wsdl:message>
where the element is:
<xs:element name="acceptFilingResponse">
    <xs:complexType> </xs:complexType>
</xs:element>

```

2.2.4 REJECTFILING USE CASE

Brief Description

CMS conveys an rejection message to the AOC'S e-Filing service.

Step-By-Step Description

1. The CMS will ask the system, in accordance with the CMS specification, to send a SOAP request message to the AOC's E-Filing service in regards with the effort of the CMS to create a case record for a particular unique case filing identifier.

2. The system will form the SOAP request message to invoke the E-filing service's method "rejectFiling".

3. The system will parse the response from the E-filing service and may or may not provide the output to the CMS in accordance with the CMS specification.

The formal definition of the use case is as follows:

REJECTFILING USE CASE

Use Case Name rejectFiling use case

Trigger The CMS notifies the system to invoke the rejectFiling method of the E-Filing system.

Precondition The User or a program has previously invoked the getCaseFiling method (described above) to get the case filing meta data of a particular case identifier together with the documents that constitute the case filing.

Basic Path

4. The CMS in accordance with the CMS specification notifies the system to invoke the rejectFiling method of the E-Filing service.
5. The system forms the SOAP rejectFilingRequest request message to invoke the AOC's E-filing service method rejectFiling.
6. The system consumes the response from the AOC's E-Filing service (rejectFilingResponse), and provides it to the CMS in accordance to the CMS specification.

Alternative Paths None.

Post-condition Based on the cms specification.

Exception Paths If there is a fault returned from the E-filing service or the SOAP response is malformed, the system will attempt two subsequent retries. If these are unsuccessful, then the system will return an error message to the CMS.

XML Format The method invoked is described in the wsdl:

```
<wsdl:operation name="rejectFiling">
    <wsdl:input message="rejectFilingRequest"> </wsdl:input>
    <wsdl:output message="rejectFilingResponse"> </wsdl:output>
</wsdl:operation>
the input rejectFilingRequest to the method is:
<wsdl:message name="rejectFilingRequest">
    <wsdl:part element="rejectFiling" name="parameters">
</wsdl:part>
</wsdl:message>
where the element is:
<xs:element name="rejectFiling">
    <xs:complexType>
        <xs:sequence>
            <xs:element maxOccurs="1" minOccurs="1"
                name="uuid" nillable="false"

```

```
        type="xs:string"/>
    <xs:element maxOccurs="1" minOccurs="0"
        name="rejectionReason"
        nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>
</xs:element>
the output rejectFilingResponse from the method is:
<wsdl:message name="rejectFilingResponse">
    <wsdl:part element="rejectFilingResponse" name="parameters">
</wsdl:part>
</wsdl:message>
where the element is:
<xs:element name="rejectFilingResponse">
    <xs:complexType> </xs:complexType>
</xs:element>
```

3 USER CHARACTERISTICS

The user of the system is expected to develop a program that will invoke the methods of the system.

The user of the system is also expected to develop a program that integrates the system's consumption of the payload of the response from the E-filing service and provide it to the CMS in accordance with the CMS specification.

2.4 NON-FUNCTIONAL REQUIREMENTS

The system will have write permissions to whichever directory the user configures the system to save files to. The system will have Internet connectivity in order to communicate with the E-filing service.

2.5 EXTERNAL INTERFACE REQUIREMENTS

The system interfaces with two separate entities:

1. The system interfaces with CMS.

The CMS invokes the system's request methods and receives the consumed by the system AOC's E-Filing service in accordance with the CMS specification.

2. The system interfaces with the AOC's E-filing service. The system both sends and receives SOAP messages to and from the AOC's E-Filing service

2.6 SECURITY

Standard system administrative practices should be used when integrating the system into the CMS system. The system will authenticate with the E-filing service through HTTP Basic and the security of the transmission will be handled by SSL/TLS.