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Information Exchange

**THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA
NATIONAL INSTITUTE OF BUILDING SCIENCES**

agcXML

**APPLICATION FOR PAYMENT
DATA SPECIFICATION AND SCHEMA**

**VERSION 1.0
MARCH 4, 2009**

The agcXML Project

The Associated General Contractors of America

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March 2009

1 . APPLICATION FOR PAYMENT

The agcXML **ApplicationForPayment** schema is discussed in this document as a class diagram using the Unified Modeling Language notation, UML. The document should present the overall structure of the agcXML schema and discuss its components and dependencies – particularly the interrelationship between the common layer for aecXML definitions, common agcXML definitions and the particular usage and extension for the **ApplicationForPayment** schema. It also shows where components from ifcXML are reused and where IFC based BIM information can be handled and mapped into agcXML.

1.1 The ApplicationForPayment schema

The **ApplicationForPayment** schema is the schema to be used for sending and receiving applications for payment between parties involved in electronic exchange of business messages. The schema deals with the variable part of the Application for Payment, not with the layout of the documents. In scope are:

- The meta-data of the application for payment document (who, when, with what application)
- The owner, contractor, subcontractor, prime designer, and construction manager as parties to the Application for Payment (mandatory depending on type of Application for Payment)
- The project information for the Application for Payment
- The application for payment and its components
- The reference to a summary of a change order (optionally)
- The reference to a schedule of values (required)

1.1.1 Name space considerations

The following name spaces are assigned:

- ifcXML – not part of the XML schema, will be handled by XSLT based mapping, when required
- aecXMLCOS:
 - xmlns:cos="http://www.aecXML.org/aecXML/cos"
- agcXMLCommon:
 - xmlns:agcxml="http://www.aecXML.org/agcXML/agcXMLCommon"
- ApplicationForPayment:
 - xmlns:agcafp="http://www.aecXML.org/agcXML/ApplicationForPayment"

1.2 The ApplicationForPayment root element

The root element of the xml exchange document is the **ApplicationForPayment** element. It is defined in the **ApplicationForPayment** name space, and inherits from the **DocumentTransaction** in the **agcXMLCommon** name space. All attributes and elements of **DocumentTransaction** are explained in the document “agcXML Common Definitions.”

The **ApplicationForPayment** element adds the following Application for Payment-specific elements:

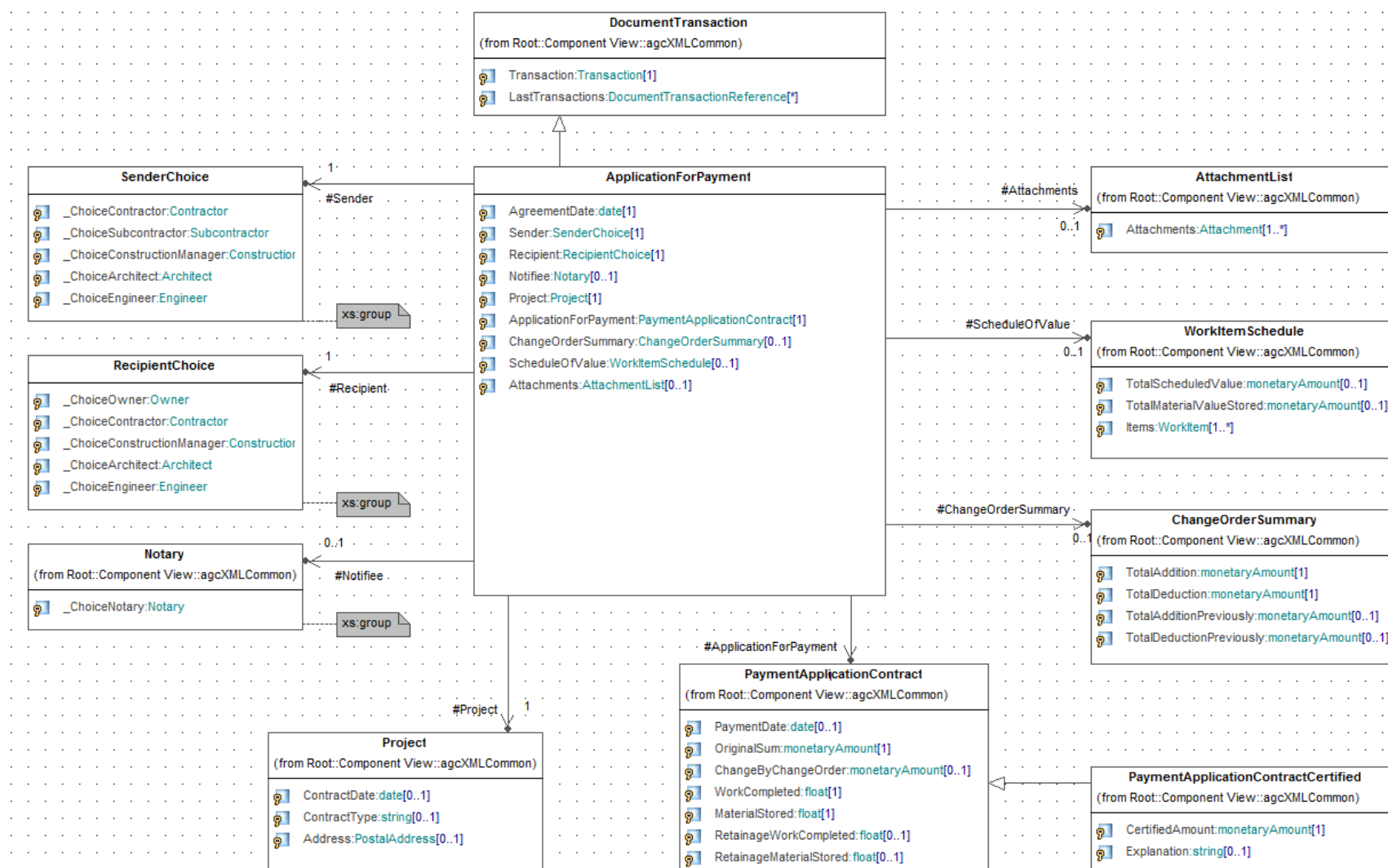


Figure 1: the root element **ApplicationForPayment** in **ApplicationForPayment** name space

1.2.1 Basic document information

The **ApplicationForPayment** carries (if fully instantiated) the following information:

- The governing form (i.e. the template for the Application for Payment document)
- The information about the parties to the Application for Payment
 - The sender information, being either:
 - Contractor
 - Architect/Engineer
 - Construction Manager/Adviser
 - Subcontractor information (for Subcontractor Application for Payment only)
 - The recipient information, being either:
 - Owner
 - Contractor (for Subcontractor Application for Payment only)
 - Architect/Engineer
 - Construction Manager/Adviser
 - The notary information
- The project information (name and reference number)
- The Application for Payment
 - the number, date, period
 - the total sum and variations
 - the work and material already completed or stored
 - retainage in work and/or material
 - certified amount to be paid
- The change order summary
 - Total and previous additions and deductions
- The schedule of values
 - Work item number, description and scheduled value
 - Work completed
 - Retainage
- (optionally) attachments to the application for payment

1.2.2 Governing form

The exchange of the Application for Payment is based on the standard contract forms published by the AIA, AGC, EJCDC, or other standard contract forms. The element **GoverningForm** is defined at **Document**. It should include one of the following values for **Name**; additional templates can be defined and agreed upon:

Value	Document Name
▪ ConsensusDOCS 291 (formerly AGC Document 291)	Application for Payment (GMP)
▪ ConsensusDOCS 292 (formerly AGC Document 292)	Application for Payment (Lump Sum)
▪ ConsensusDOCS 491 (formerly AGC Document 491)	Design-Builder's Application for Payment (Cost Plus, w/GMP)
▪ ConsensusDOCS 492 (formerly AGC Document 492)	Design-Builder's Application for Payment (Lump Sum Contract)
▪ AIA Document G702-1992	Contractor's Application and Certificate for Payment

- AIA Document G702/CMA-1992 Application and Certificate for Payment
Construction Manager-Adviser Edition
- AIA Document G722/CMA-1992 Project Application and Project Certificate for Payment

1.3 The parties involved in the Application for Payment

An Application for Payment is exchanged between a sender and a recipient. An Application for Payment is initiated by an applicant (the Contractor or Construction Manager at Risk) and forwarded to an approval authority (the Architect/Engineer). The approval authority subsequently forwards the approved Application for Payment to the Owner or the Owner's Construction Manager/Adviser for payment. Information about organization and person of the parties is provided in the document "agcXML Common Definitions," Section "Person and Organization."

1.3.1 The sender

The sender for the `ApplicationForPayment` can be the Subcontractor (for Subcontractor Application for Payment), the Contractor, the Construction Manager at Risk, the Construction Manager/Adviser, or the Architect/Engineer (for Contractor Application for Payment). It is accessible as `Sender`, being a choice group of `Subcontractor`, `Contractor`, `ConstructionManagerAdvisor`, `Architect`, or `Engineer`.

Information about `Architect`, `Engineer`, `ConstructionManager`, `Contractor`, and `Subcontractor` is provided in the document "agcXML Common Definitions."

1.3.2 The recipient

The recipient for the `ApplicationForPayment` can be the Contractor, the Construction Manager at Risk, the Architect/Engineer, the Construction Manager/Adviser, or the Owner. It is accessible as `Recipient`, being a choice group of `Architect`, `Engineer`, `Contractor`, `ConstructionManagerAdvisor`, or `Owner`.

Information about `Owner` and `Contractor` is provided in the document "agcXML Common Definitions."

1.3.3 The notifiee

The information of the `Notary` for the Application for Payment is included as `Notary` referencing `Notary`. Information about `Notary` is provided in the document "agcXML Common Definitions."

1.4 The project information

The `Project` is provided by `Project`. The minimum information provided within the `ApplicationForPayment` schema should be `Project.Name` and `Project.ReferenceNumber`.

Information about `Project` is provided in the document "agcXML Common Definitions", section "Project."

1.5 The Application for Payment information

The `ApplicationForPayment` provides the information about the Application for Payment for a particular `ApplicationForPayment`. It is a specialization of the `PaymentApplication` element within the `agcXMLCommon` name space. Either a `PaymentApplicationContract`, or its specialization, the `PaymentApplicationContractCertified` can be asserted.

Information about `PaymentApplicationContract` and `PaymentApplicationContractCertified` are provided in the document "agcXML Common Definitions", Section "Payment Application."

1.6 The change order summary

A change order summary element is included, accessible by [ChangeOrderSummary](#). It is defined in the [agcXMLCommon](#) name space and contains the following fields: [TotalAddition](#), [TotalDeduction](#), [TotalAdditionPreviously](#), and [TotalDeductionPreviously](#).

Information about [ChangeOrderSummary](#) is provided in the document “agcXML Common Definitions”, section “Change order.”

1.7 The schedule of values

The Schedule of Values for a particular Application for Payment should be included. It reuses the [WorkItemSchedule](#) element defined in the [agcXMLCommon](#) name space. The total schedule is given by a name or number, an optional description and the [TotalScheduleValue](#), [TotalCompletedValue](#), [TotalCompletedValuePreviously](#) and [TotalMaterialValueStored](#). If individual Items are provided for the schedule of values, they are included as a list of [Items](#).

Information about [WorkItemSchedule](#) and [WorkItem](#) is provided in the document “agcXML Common Definitions”, section “Work Item and Work Item Schedule.”

1.8 Attachments

Optionally, attachments can be added to the transaction. It is provided by the [AttachmentList](#).

Information about [AttachmentList](#) and [Attachment](#) is provided in the document “agcXML Common Definitions”, section “Document references.”

2. XML SCHEMA

The XML schema definitions are defined in different name spaces following the agcXML Technical Framework.

- The most general definitions are included in the [aecXMLCOS](#) name space; some of those definitions are taken from other standards, such as [ifcXML](#) for general elements and ISO-IEC_82045-5 for document metadata.
- Definitions that are common to document exchanges within the scope of [agcXML](#) are included in the [agcXMLCommon](#) name space.
- The document exchange specific to Applications for Payment is defined in the [ApplicationForPayment](#) name space by reusing the elements from the above two layers.

2.1 aecXMLCOS name space

The XML schema definitions of the aecXMLCOS schema are provided in the document “agcXML Common Definitions”, Section “aecXML Schema.”

2.2 agcXMLCommon name space

The XML schema definitions of the agcXMLCommon schema are provided in the document “agcXML Common Definitions”, Section “agcXMLCommon Schema.”

2.3 ApplicationForPayment name space

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Mit XMLSpy v2009 (http://www.altova.com) von Thomas Liebich (AEC3 Deutschland GmbH) bearbeitet -->
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:agcafp="http://www.aecXML.org/agcXML/ApplicationForPayment"
  xmlns:agcxml="http://www.aecXML.org/agcXML/agcXMLCommon" xmlns:cos="http://www.aecXML.org/aecXML/cos"
  targetNamespace="http://www.aecXML.org/agcXML/ApplicationForPayment" elementFormDefault="qualified"
  attributeFormDefault="unqualified">
  <xs:import namespace="http://www.aecXML.org/aecXML/cos" schemaLocation="aecXMLCOS.xsd"/>
  <xs:import namespace="http://www.aecXML.org/agcXML/agcXMLCommon" schemaLocation="agcXMLCommon.xsd"/>
  <!--application for payment diagram-->
  <xs:element name="ApplicationForPayment" type="agcafp:ApplicationForPayment"
    substitutionGroup="agcxml:DocumentTransaction" nillable="false"/>
  <xs:complexType name="ApplicationForPayment">
    <xs:complexContent>
      <xs:extension base="agcxml:DocumentTransaction">
        <xs:sequence>
          <xs:element name="AgreementDate" type="xs:date"/>
          <xs:element name="Sender">
            <xs:complexType>
              <xs:group ref="agcafp:SenderChoice"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="Recipient">
            <xs:complexType>
              <xs:group ref="agcafp:RecipientChoice"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="Notifiee">
            <xs:complexType>
              <xs:group ref="agcafp:NotifieeChoice" minOccurs="0"/>
            </xs:complexType>
          </xs:element>
          <xs:element name="Project" type="agcxml:Project"/>
          <xs:element name="ApplicationForPayment" type="agcxml:PaymentApplicationContract"/>
          <xs:element name="ChangeOrderSummary" type="agcxml:ChangeOrderSummary"/>
          <xs:element name="ScheduleOfValue" type="agcxml:WorkItemSchedule" minOccurs="0"/>
          <xs:element name="Attachments" type="agcxml:AttachmentList" minOccurs="0"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:schema>
```

```
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <!--application for payment actor diagram - Group definition for choice of client and applicant-->
    <xs:group name="SenderChoice">
      <xs:choice>
        <xs:element ref="agcxml:Contractor"/>
        <xs:element ref="agcxml:Subcontractor"/>
        <xs:element ref="agcxml:ConstructionManagerAdvisor"/>
        <xs:element ref="agcxml:Engineer"/>
        <xs:element ref="agcxml:Architect"/>
      </xs:choice>
    </xs:group>
    <xs:group name="RecipientChoice">
      <xs:choice>
        <xs:element ref="agcxml:Owner"/>
        <xs:element ref="agcxml:Contractor"/>
        <xs:element ref="agcxml:ConstructionManagerAdvisor"/>
        <xs:element ref="agcxml:Engineer"/>
        <xs:element ref="agcxml:Architect"/>
      </xs:choice>
    </xs:group>
    <xs:group name="NotifieeChoice">
      <xs:choice>
        <xs:element ref="agcxml:Notary"/>
      </xs:choice>
    </xs:group>
  </xs:schema>
```

A . ASSIGNMENT TO COMPARATIVE ANALYSIS

The following table shows each agcXML element reference (defined as a path from root element **ApplicationForPayment** in **ApplicationForPayment** name space) assigned to the corresponding data field obtained from the comparative analysis of the existing transaction media for application for payment transactions (the commonly accepted standard contract forms published by the AIA, AGC, and EJCDC, and others). The table is NOT intended to represent the entire content of the schema or the actual cardinality of each element in the schema. The full comparative analysis is published separately and can be obtained from AGC.

agcXML Comparative Analysis

Application for Payment

Data Field Description/Content	Cardinality	Path from root element in current agcXML schema
Agreement Date		
Project Agreement Date (dd/mm/yyyy)	[1]	AgreementDate (based on xs:date)
Owner Information		
Owner Company Name	[1]	Recipient: Owner.Name
Owner Project Number	[0..1]	Recipient: Owner.ProjectNumber
Owner Representative Last Name	[1]	Recipient: Owner.Representative.FamilyName
Owner Representative First Name	[1]	Recipient: Owner.Representative.GivenName
Owner Representative Title	[1]	Recipient: Owner.Representative.RepresentativeTitle
Owner Representative Application for Payment Signature	[0..1]	Recipient: Owner.Signature.SignatoryName
Owner Representative Application for Payment Signature Date	[0..1]	Recipient: Owner.Signature.SignatureDate
Contractor Information		
Contractor Company Name	[1]	Sender/Recipient: Contractor.Name
Contractor Project Number	[1]	Sender/Recipient: Contractor.ProjectNumber
Contractor Representative Last Name	[1]	Sender/Recipient: Contractor.Representative.FamilyName
Contractor Representative First Name	[1]	Sender/Recipient: Contractor.Representative.GivenName
Contractor Representative Title	[1]	Sender/Recipient: Contractor.Representative.RepresentativeTitle
Application for Payment Signature	[1]	Sender/Recipient: Contractor.Signature.SignatoryName
Application for Payment Signature Date	[1]	Sender/Recipient: Contractor.Signature.SignatureDate
Notary Public Information		
Notary Public Last Name	[1]	Notiffee: Notary.Representative.FamilyName
Notary Public First Name	[1]	Notiffee: Notary.Representative.GivenName
Notary Public Signature	[1]	Notiffee: Notary.Representative.SignatoryName
Notary Public Signature Date	[1]	Notiffee: Notary.Representative.SignatureDate
Notary Public County	[1]	Notiffee: Notary.License.JurisdictionCounty
Notary Public State	[1]	Notiffee: Notary.License.JurisdictionState
Notary Public Commission Expiration Date	[1]	Notiffee: Notary.License.ExpirationDate
Construction Manager/Adviser Information		
Construction Manager Company Name	[0..1]	Sender/Recipient: ConstructionManager.Name
Construction Manager Project Number	[0..1]	Sender/Recipient: ConstructionManager.ProjectNumber
Construction Manager Representative Last Name	[0..1]	Sender/Recipient: ConstructionManager.Representative.FamilyName
Construction Manager Representative First Name	[0..1]	Sender/Recipient: ConstructionManager.Representative.GivenName
Application for Payment Signature	[0..1]	Sender/Recipient: ConstructionManager.Representative.Signature.SignatoryName

Application for Payment Signature Date	[0..1]	Sender/Recipient: ConstructionManager.Representative.Signature.SignatureDate
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Prime Design Professional Information

Architect/Engineer Company Name	[0..1]	Sender/Recipient: Architect.Name Sender/Recipient: Engineer.Name Sender/Recipient: Architect.ProjectNumber
Architect/Engineer Project Number	[0..1]	Sender/Recipient: Engineer.ProjectNumber Sender/Recipient: Architect.Representative.FamilyName
Architect/Engineer Representative Last Name	[0..1]	Sender/Recipient: Engineer.Representative.FamilyName Sender/Recipient: Architect.Representative.GivenName
Architect/Engineer Representative First Name	[0..1]	Sender/Recipient: Engineer.Representative.GivenName Sender/Recipient: Architect.Representative.RepresentativeTitle
Architect/Engineer Representative Title	[0..1]	Sender/Recipient: Engineer.Representative.RepresentativeTitle Sender/Recipient: Architect.Representative.Signature.SignatoryName
Application for Payment Signature	[0..1]	Sender/Recipient: Engineer.Representative.Signature.SignatoryName Sender/Recipient: Architect.Representative.Signature.SignatureDate
Application for Payment Signature Date	[0..1]	Sender/Recipient: Engineer.Representative.Signature.SignatureDate

Project Information

Project Name 1 (e.g., Smith Biophysics Laboratory)	[1]	Project.Name
Project Reference Number	[1]	Project.ProjectId
Type of contract	[0..1]	Project.ContractType

Application for Payment Information

Application for Payment Number	[1]	ApplicationForPayment.Name
Application for Payment Date	[1]	ApplicationForPayment.PaymentDate
Application for Payment Period	[1]	ApplicationForPayment.PaymentPeriod
Distribution to (check all that apply)		<i>note: it is only a tick for the document distribution</i>
Owner	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Construction Manager	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Architect	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Contractor	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Field	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Other	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Original Contract Sum, in dollars	[1]	ApplicationForPayment.OriginalSum
Guaranteed Maximum Price		ApplicationForPayment.OriginalSum
Change in Contract Sum by Change Order to Date, in dollars	[1]	ApplicationForPayment.ChangeByChangeOrder
Contract Sum to Date, in dollars	[1]	<not included, can be calculated>
Guaranteed Maximum Price to date, in dollars		<not included, can be calculated>
Work completed to date		ApplicationForPayment.WorkCompleted
Material & Equipment stored to date		ApplicationForPayment.MaterialStored
Total Work Completed and Material & Equipment Stored to Date, in dollars	[1]	<not included, can be calculated>
Retainage rate, work completed to date (percentage)	[1]	<not included, can be calculated>
Retainage applied to work completed to date, in dollars	[1]	ApplicationForPayment.RetainageWorkCompleted
Retainage rate, Materials & Equipment (percentage)	[1]	<not included, can be calculated>
Retainage applied to Materials & Equipment stored to date, in dollars	[1]	ApplicationForPayment.RetainageMaterialStored
Total Retainage applied to work completed and materials & equipment stored	[1]	<not included, can be calculated>

to date, in dollars		
Total completed and stored to date less retainage, in dollars	[1]	<not included, can be calculated>
Total previously paid	[1]	ApplicationForPayment.PaidPreviously
Current payment due	[1]	<not included, can be calculated>
Balance to complete, including retainage	[1]	<not included, can be calculated>
Change Order Summary Information		
Total additions previously approved by Owner	[0..1]	ChangeOrderSummary.TotalAddition
Total deductions previously approved by Owner	[0..1]	ChangeOrderSummary.TotalDeduction
Total additions approved by Owner this period	[0..1]	ChangeOrderSummary.TotalAdditionPreviously
Total deductions approved by Owner this period	[0..1]	ChangeOrderSummary.TotalDeductionPreviously
Certification Information		
Amount certified for payment	[1]	ApplicationForPayment.CertifiedAmount
Explanation for variance with amount requested	[0..1]	ApplicationForPayment.Explanation
Schedule of Values Information		
Item Number	n	ScheduleOfValue.Items[n].Name
Item Description	[1..*]	ScheduleOfValue.Items[n].Description
Item: Scheduled Value	[1..*]	ScheduleOfValue.Items[n].ScheduledValue
Total Scheduled Value	[1]	ScheduleOfValue.TotalScheduledValue
Item: Value of work completed from previous applications	[1..*]	ScheduleOfValue.Items[n].CompletedValuePreviously
Total work completed from previous applications	[1]	ScheduleOfValue.TotalCompletedValuePreviously
Item: Value of work completed this period	[1..*]	ScheduleOfValue.Items[n].ScheduledValue
Total work completed this period	[1]	ScheduleOfValue.TotalScheduledValue
Item: Value of materials stored on site	[1..*]	ScheduleOfValue.Items[n].MaterialValueStored
Total value of materials stored on site	[1]	ScheduleOfValue.TotalMaterialValueStored
Item: Total value of work completed and materials stored to date	[1..*]	<not included, can be calculated>
Total of total value of work completed and materials stored on site	[1]	<not included, can be calculated>
Item: Percent of work complete	[1..*]	<not included, can be calculated>
Total percent of work complete	[1]	<not included, can be calculated>
Item: Value of work remaining to be completed	[1..*]	<not included, can be calculated>
Total value of work remaining to be completed	[1]	<not included, can be calculated>
Item: Retainage (only if variable rate)	[1..*]	ScheduleOfValue.Items[n].Retainage

Table 1: agcXMLpath information assigned to the fields of the comparative analysis for applications for payment (owner-contractor)

agcXML Comparative Analysis
 Subcontractor Application for Payment
 Data Field Description/Content

Cardinality agcXML schema Name

Agreement Date		
Project Subcontract Agreement Date (dd/mm/yyyy)	[1]	AgreementDate:date (based on xs:date)
Contractor Information		
Contractor Company Name	[1]	Recipient: Contractor.Name
Contractor Project Number	[1]	Recipient: Contractor.ProjectNumber
Contractor Representative Last Name	[1]	Recipient: Contractor.Representative.FamilyName
Contractor Representative First Name	[1]	Recipient: Contractor.Representative.GivenName
Contractor Representative Title	[1]	Recipient: Contractor.Representative.RepresentativeTitle
Subcontractor Information		
Subcontractor Company Name	[1]	Sender: Subcontractor.Name
Subcontractor Project Number	[1]	Sender: Subcontractor.ProjectNumber
Subcontractor Federal Tax ID Number		Sender: Subcontractor.FederalTaxId
Subcontractor License Jurisdiction Name:		Sender: Subcontractor.License.JurisdictionTown
Subcontractor License Number:		Sender: Subcontractor.License.Number
Subcontractor Representative Last Name	[1]	Sender: Subcontractor.Representative.FamilyName
Subcontractor Representative First Name	[1]	Sender: Subcontractor.Representative.GivenName
Subcontractor Representative Title	[1]	Sender: Subcontractor.Representative.RepresentativeTitle
Subcontractor Representative		
Application for Payment Signature	[1]	Sender: Subcontractor.Representative.Signature.SignatoryName
Subcontractor Representative		
Application for Payment Signature Date	[1]	Sender: Subcontractor.Representative.Signature.SignatureDate
Notary Public Information		
Notary Public Last Name	[1]	Notary: Notary.Representative.FamilyName
Notary Public First Name	[1]	Notary: Notary.Representative.GivenName
Notary Public Signature	[1]	Notary: Notary.Representative.SignatoryName
Notary Public Signature Date	[1]	Notary: Notary.Representative.SignatureDate
Notary Public County	[1]	Notary: Notary.License.JurisdictionCounty
Notary Public State	[1]	Notary: Notary.License.JurisdictionState
Notary Public Commission Expiration Date	[1]	Notary: Notary.License.ExpirationDate
Project Information		
Project Name 1 (e.g., Smith Biophysics Laboratory)	[1]	ProjectInformation.Name
Project Reference Number	[1]	ProjectInformation.ReferenceNumber
Type of Subcontract	[0..1]	ProjectInformation.ContractType
Application for Payment Information		
Application for Payment Number	[1]	ApplicationForPaymentInformation.Name
Application for Payment Period	[1]	ApplicationForPaymentInformation.PaymentPeriod
Distribution to (check all that apply)		<i>note: it is only a tick for the document distribution</i>
Owner	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Architect	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Contractor	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>

Field	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Other	[0..1]	<i>to be included in general document meta information (following a consolidated approach)</i>
Original Subcontract Sum, in dollars	[1]	ApplicationForPaymentInformation.OriginalSum
Change in Subcontract Sum by Change Order to Date, in dollars	[1]	ApplicationForPaymentInformation.ChangeByChangeOrder
Subcontract Sum to Date, in dollars	[1]	<not included, can be calculated>
Subcontract Work completed to date		ApplicationForPaymentInformation.WorkCompleted
Subcontract Material & Equipment stored to date		ApplicationForPaymentInformation.MaterialStored
Total Subcontract Work Completed and Material & Equipment Stored to Date, in dollars	[1]	<not included, can be calculated>
Retainage rate, subcontract work completed to date (percentage)	[1]	<not included, can be calculated>
Retainage applied to subcontract work completed to date, in dollars	[1]	ApplicationForPaymentInformation.RetainageWorkCompleted
Retainage rate, subcontract Materials & Equipment (percentage)	[1]	<not included, can be calculated>
Retainage applied to subcontract Materials & Equipment stored to date, in dollars	[1]	ApplicationForPaymentInformation.RetainageMaterialStored
Total Retainage applied to subcontract work completed and materials & equipment stored to date, in dollars	[1]	<not included, can be calculated>
Total subcontract work completed and stored to date less retainage, in dollars	[1]	<not included, can be calculated>
Total Subcontract Sum previously paid	[1]	ApplicationForPaymentInformation.PaidPreviously
Current Subcontract payment due	[1]	<not included, can be calculated>
Balance of Subcontract to complete, including retainage	[1]	<not included, can be calculated>
Change Order Summary Information		
Total subcontract additions previously approved by Owner	[0..1]	ChangeOrderSummaryInformation.TotalAddition
Total subcontract deductions previously approved by Owner	[0..1]	ChangeOrderSummaryInformation.TotalDeduction
Total subcontract additions approved by Owner this period	[0..1]	ChangeOrderSummaryInformation.TotalAdditionPreviously
Total subcontract deductions approved by Owner this period	[0..1]	ChangeOrderSummaryInformation.TotalDeductionPreviously
Schedule of Values Information		
Item Number	[1..*]	ScheduleOfValueInformation.Items[n].Name
Item Description	[1..*]	ScheduleOfValueInformation.Items[n].Description
Item: Scheduled Value	[1..*]	ScheduleOfValueInformation.Items[n].ScheduledValue
Total Scheduled Value	[1]	ScheduleOfValueInformation.TotalScheduledValue
Item: Value of work completed from previous applications	[1..*]	ScheduleOfValueInformation.Items[n].CompletedValuePreviously
Total work completed from previous applications	[1]	ScheduleOfValueInformation.TotalCompletedValuePreviously
Item: Value of work completed this period	[1..*]	ScheduleOfValueInformation.Items[n].ScheduledValue
Total work completed this period	[1]	ScheduleOfValueInformation.TotalScheduledValue
Item: Value of materials stored on site	[1..*]	ScheduleOfValueInformation.Items[n].MaterialValueStored
Total value of materials stored on site	[1]	ScheduleOfValueInformation.TotalMaterialValueStored
Item: Total value of work completed and materials stored to date	[1..*]	<not included, can be calculated>
Total of total value of work completed and materials stored on site	[1]	<not included, can be calculated>
Item: Percent of work complete	[1..*]	<not included, can be calculated>
Total percent of work complete	[1]	<not included, can be calculated>
Item: Value of work remaining to be completed	[1..*]	<not included, can be calculated>
Total value of work remaining to be completed	[1]	<not included, can be calculated>
Item: Retainage (only if variable rate)	[1..*]	ScheduleOfValueInformation.Items[n].Retainage

Table 2: agcXMLpath information assigned to the fields of the comparative analysis for applications for payment (contractor-subcontractor)