Activity Report Specifications

Version History

Version No.	Date	Changed By	Changes Made
1.0	26 August 2009		
1.1	3 February 2012	Valerie Smothers	Added arid attribute to ActivityReports and ActivityReport; added extensibility via xsd:any to ActivityReport.
1.2	6 March 2012	Valerie Smothers	Added extensibility via xsd:any to ActivityReports, Module, and Activity.
1.21	11 October 2012	Valerie Smothers	Clarified Module definition.
1.3	22 July 2013	Valerie Smothers	Added ActivityInstanceID, LaunchAction, ActivityLocation, ReturnLocation, Results (to Activity)
1.4	5 September 2013	Valerie Smothers	Added Status element to activity, modified Activity datamodel, clarified definitions of Launch Action and Return Location.
1.5	20 April 2018	Valerie Smothers	Added elements to support REMS: ReportingStartDate, ReportingEndDate, Participants, Commercial Supporter, RegulatoryInformation
1.51	28 August 2018	Valerie Smothers	Made Status under Module optional. Added veterinarian to list of professions. Modified YearsInPractice value to include 0-5 years post-training. Changed NonNullString references to NonNullStringType in common schema. Added ReportingStartDate and ReportingEndDate. Added Sample XML for Opioid REMS.
1.52	29 November 2018	Valerie Smothers	Made the following optional: StateOfPrimaryPractice, DEARegistration, PracticeArea, SurgicalProcedures, TimeInPractice

| 1.53 | 2 January 2019 | Valerie Smothers | Corrected TimeInPractice value to include 0-5 years post training instead of >5 years post training. |
| 1.54 | 28 January 2019 | Valerie Smothers | Changed Addiction to Substance Use Disorder to reflect FDA documentation. |

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2   Documentation Conventions

This document uses the following conventions:

Convention	Description
Bold Text	When used with an XML element name, indicates that the element contains sub-elements.
Italics	When used in an XML element description, an attribute of the XML element.
`Monospaced type`	Sample XML tags, code, schema, or portion thereof.

The document uses graphics generated by Altova XML Spy® software, which uses the following graphical conventions.
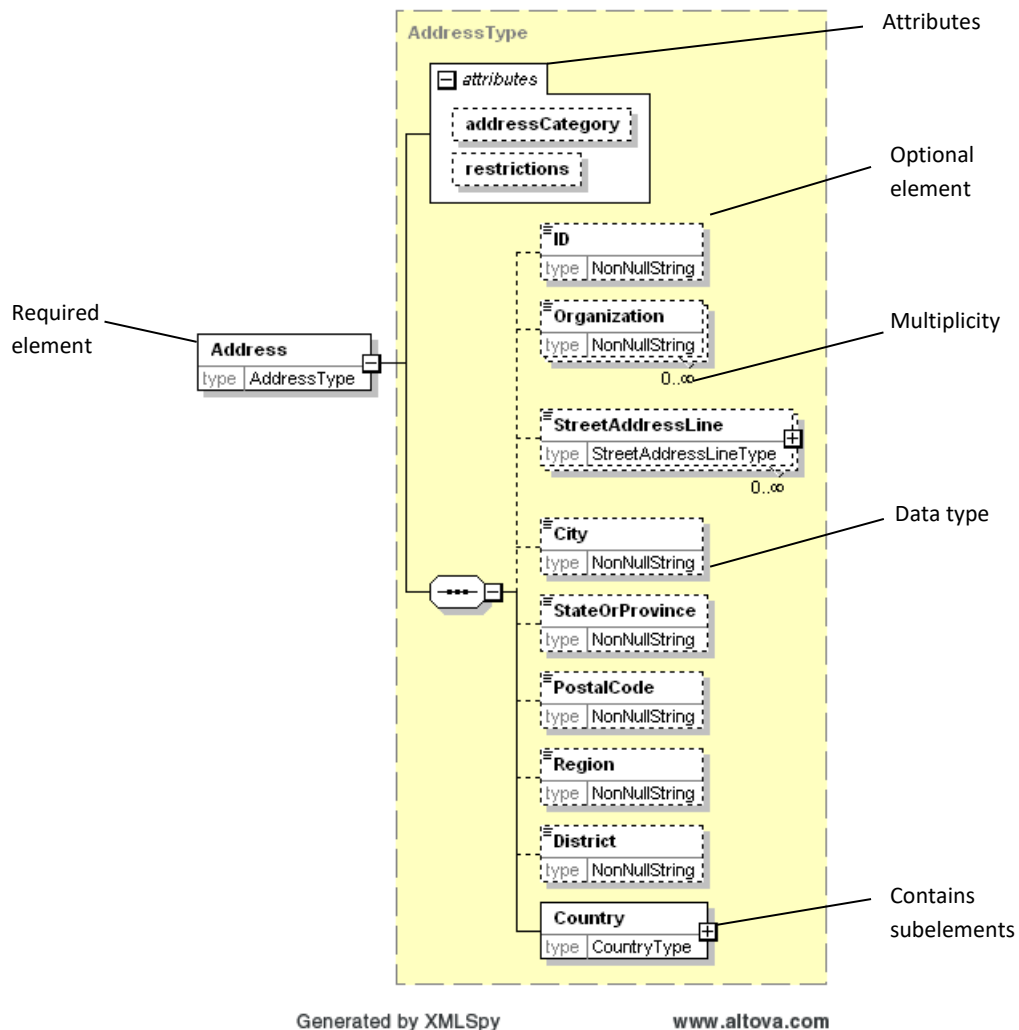
3 Conformance

To conform to the Standard Name specification, an XML document shall:

- Validate against the Activity Report XML Schema available at:
  http://ns.medbiq.org/activityreport/v2/activityreport.xsd
- Conform to any additional requirements stated in this specification.
- Optionally include elements not defined in this document only in permitted areas and only if those elements are namespace qualified.

4   Common Data Types

Most of the elements and attributes in MedBiquitous XML documents use the data types defined by the W3C XML schema definition [XSD]. In some cases MedBiquitous creates its own datatypes as part of its best practices or to meet a specific requirement. Commonly used datatypes are defined in the common.xsd file. For more information about common datatypes, see:
http://www.medbiq.org/sites/default/files/CommonSpecifications.pdf

5   Introduction

This document describes the MedBiquitous Consortium Activity Report XML Schema in detail. It is intended for use by anyone who wants to develop tools or implement electronic systems to:

- Track the learning and certification activities of physicians and other medical professionals, or
- Share learner demographic data for learning activities related to regulatory actions, such as the US Food and Drug Administration (FDA) Risk Evaluation and Mitigation Strategy (REMS) for Opioids.

The objective of this Activity Report Schema is to provide a data structure that allows one to represent the educational and maintenance of competence activities of physicians and other medical professionals in a standard format. The Activity Report also provides a data structure for representing learner-level demographics for those individuals participating in a learning activity. This structure then enables the exchange of activity report information between related business systems and over the Web.

Within professional medicine, there is a need for societies, certifying boards, licensing entities, and other organizations to exchange information about the educational activities of physicians and other medical professionals. Professional societies often serve as the providers of medical education and other resources to enhance the competency of physicians and other medical professionals. Many certifying boards track these educational and competency activities as part of their requirements for maintaining certification.

In addition, educators, accrediting bodies, CE supporters, and government agencies may collect demographic data for activities supporting regulatory actions in order to measure the reach of educational activities and analyze the learner population that is receiving, or not receiving, the education.

The Activity Report Schema provides a lingua franca for the structure of this data and facilitates the educational and public service missions of these organizations and others. The schema in no way compromises the confidentiality, integrity, or security of activity data.

The Activity Report also provides a way to represent Point of Care Learning data. The American Academy of Family Physicians (AAFP) defines point of care learning as "practice-based learning that takes place in support of specific patient care." Clinicians often use point-of –care learning products to answer clinical questions. Other types of evidence-based clinical literature may be used at point of care as well.

In 2005, the American Medical Association (AMA) Physician's Recognition Award (PRA) and Credit System and the American Academy of Family Physicians (AAFP) Credit System began to award Continuing Medical Education (CME) credit for Internet Point of Care learning. In order to claim CME credit, the AMA and AAFP require learners to review the clinical question, identify relevant sources, and describe the application of findings to practice. This specification enables the exchange of such data. While credit may be awarded for point-of-care learning activities, this specification is intended for use

with a broad scope of point-of-care learning activities regardless of whether or not credit is designated or awarded.

This Activity Report Schema forms a portion of MedBiquitous' technology blueprint for medical education and is part of its overall XML framework and software architecture for professional medicine.

6　Other Standards, Specifications, or Schemas Referenced

This standard references the following standards, specifications, or schemas. The informative references here, which describe how these references are used, link to formal references appearing later in this document.

- ANSI/MEDBIQ PP.10.1-2008, Healthcare Professional Profile [Professional Profile]
  The Professional Profile provides a common format for information describing the individual healthcare professional, including name, address, institution, licensure, certification, and more.

- ANSI/MEDBIQ LO.10.1-2008, Healthcare Learning Object Metadata [Healthcare LOM]
  Healthcare LOM extends the IEEE LOM standard and provides a format for describing healthcare learning resources and activities. Vocabularies and datatypes from Healthcare LOM are used in the Curriculum Inventory.
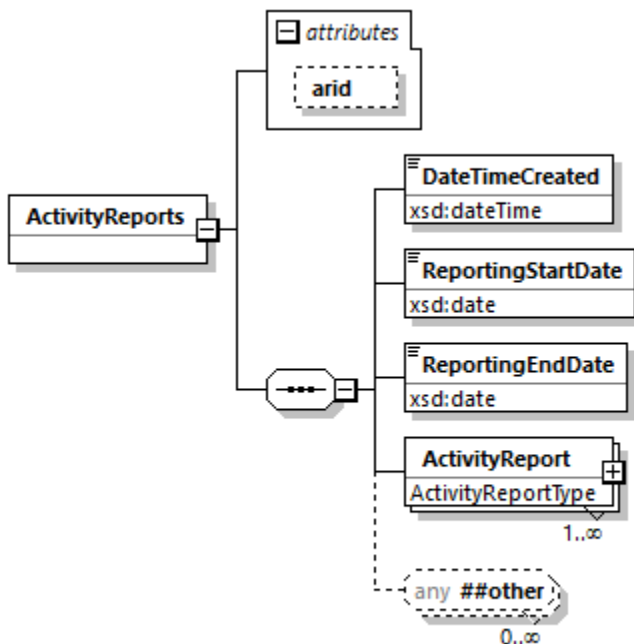
7   Activity Report Schema

The following sections explain the Activity Report Schema grammar. Values in **bold** under XML Tags column indicate that the element has sub-elements.

All the elements having sub-elements will be defined in separate sections. All elements without sub-elements will be defined within the appropriate element sections that use them.

7.1   ActivityReports

ActivityReports is the root element. It contains information on registration for, completion of, or expiration of learning activities, maintenance of competence activities, or other relevant activities for one or more healthcare professionals. ActivityReports must occur once within an activity report.

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Element Information

Element	Description	Required	Multiplicity	Datatype
ActivityReports	Contains information on registration for, completion of, or expiration of learning activities, maintenance of competence activities, or other relevant activities for one or more	Required	1	Container

	healthcare professionals. ActivityReports has the following attribute: *arid* a globally unique identifier for this XML document. The arid attribute uses the arid Uniform Resource Name (URN) format as shown below: arid:*domain*:*localidentifier* *domain* is a the domain name that uniquely identifies the organization issuing the Activity Reports document. *localidentifier* is a locally unique identifier for the Activity Reports document created by the organization issuing the document.			
DateTimeCreated	Defines the date and time this set of reports was created. For example: 2018-01-23T09:00:00 Indicates January 23, 2018, 9 AM.	Required	1	dateTime
ReportingStartDate	Defines the first day of the reporting period for the data in this activity report. For example, 2018-01-23 indicates January 23, 2018.	Required	1	date
ReportingEndDate	Defines the last day of the reporting period for the data in this activity report. For example, 2018-01-23 indicates January 23, 2018.	Required	1	date
ActivityReport	Contains subelements that define the activities of a single person. See section ActivityReport for more information.	Required	1 or more	Container

Any	The ActivityReports element may contain any elements defined by the organization implementing the schema provided those elements are defined in another namespace. This is the preferred method of extension.	Optional	0 or more	Any datatype

Example:

```
<ActivityReports>
   <DateTimeCreated>2018-08-23T09:00:00</DateTimeCreated>
   <ReportingStartDate>2018-01-01<ReportingStartDate>
   <ReportingEndDate>2018-06-30</ReportingEndDate>
   <ActivityReport>
       ...
   </ActivityReport>
   <ActivityReport>
       ...
   </ActivityReport>
</ActivityReports>
```
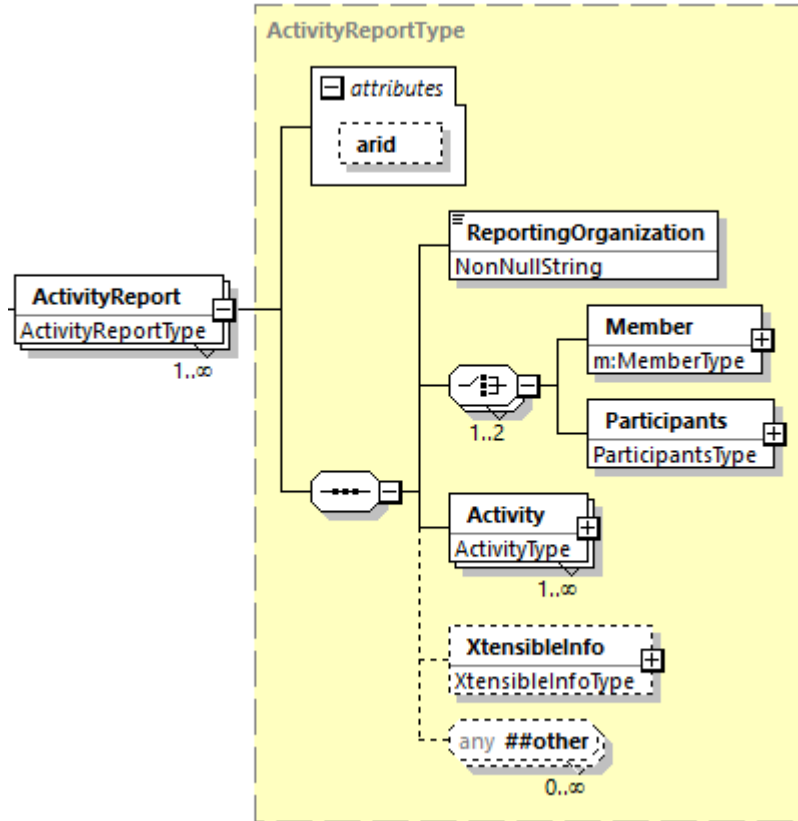
8   ActivityReport

ActivityReport is the subelement of ActivityReports. ActivityReport contains subelements that define the activities of a single physician or medical professional. ActivityReport is required and may occur multiple times.

ActivityReport Element Information

Element	Description	Required	Multiplicity	Datatype
ActivityReport	ActivityReport is the subelement of ActivityReports. It contains subelements that define the activities of a single person. ActivityReport has the following attribute: *arid* a globally unique identifier for this activity report. The arid attribute uses the arid Uniform Resource Name (URN) format as shown below: arid:*domain:localidentifier*	Required	1 or more	Container

	domain is a the domain name that uniquely identifies the organization issuing the Activity Report. *localidentifier* is a locally unique identifier for the Activity Report created by the organization issuing the report.			
ReportingOrganization	ReportingOrganization is the sub-element of the ActivityReport element that defines the name of the organization that is the source of the activity report.	Required	1	NonNullString
Member	Member is imported from the MedBiquitous Professional Profile schema. It contains subelements that define name and profile information for a single person. Member is a sub-element of ActivityReport. See the *MedBiquitous Healthcare Professional Profile Specifications and Description Document* for more information.	Member and/or Participants is Required	0 to 1	Container (See *MedBiquitous Healthcare Professional Profile Specifications and Description Document* for more information)
Participants	Describes demographic data about the learners that participated in the described activity. See section Participants for more information.	Member and/or Participants is Required	0 to 1	Container
Activity	This is the sub-element of the ActivityReport element. It defines one activity and its status for one person. See section Activity for more information.	Required	1 or more	Container
XtensibleInfo	XtensibleInfo is the subelement of Member.	Optional	0 or 1	Container

	XtensibleInfo contains sub-elements defined by the organization implementing the schema. See section XtensibleInfo for more information. XtensibleInfo is included for backward compatibility and is not the preferred method of extension.			
Any	The ActivityReport element may contain any elements defined by the organization implementing the schema provided those elements are defined in another namespace. This is the preferred method of extension.	Optional	0 or more	Any datatype

Example 1:

```
<ActivityReport>
  <ReportingOrganization>HighWire Press</Organization>
  <m:Member>
      <m:Name>
        <n:GivenName>Percy</n:GivenName>
        <n:GivenName>Bysshe</n:GivenName>
        <n:FamilyName>Shelley</n:FamilyName>
        <n:Degree>MD</n:Degree>
      </m:Name>
  </m:Member>
  <Activity>
      . . .
  </Activity>
```

Example 2:

```
<ActivityReport>
   <ReportingOrganization>Nonesuch University</ReportingOrganization>
   <Participants>
      <Participant>
      . . .
      </Participant>
      <Participant>
      . . .
      </Participant>
```
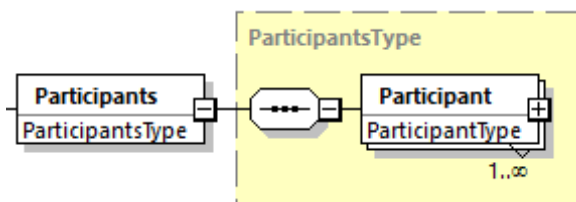
```
<Participant>
.  .  .
</Participant>
</Participants>
<Activity>
.  .  .
</Activity>
```

8.1 Participants

Participants describes demographic data about the learners that participated in the described activity.

Participants Element Information

Element	Description	Required	Multiplicity	Datatype
Participants	Describes demographic data about the learners that participated in the described activity.	Member and/or Participants is Required	0 to 1	Container
Participant	Contains subelements that describe demographic details for a single learner. See section Participant for more information.	Required	1 or more	Container

Example:

```
<Participants>
    <Participant>
    .  .  .
    </Participant>
    <Participant>
    .  .  .
    </Participant>
    <Participant>
    .  .  .
    </Participant>
</Participants>
```
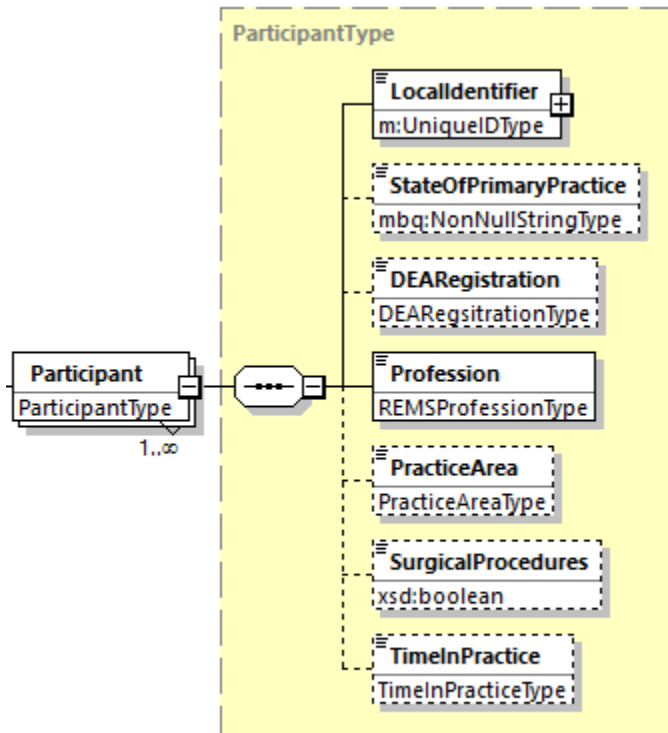
8.2 Participant

Participant contains subelements that describe demographic details for a single learner.

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Participants Element Information

Element	Description	Required	Multiplicity	Datatype
Participant	Contains subelements that describe demographic details for a single learner.	Required	1 or more	Container
LocalIdentifier	LocalIdentifier defines an alphanumeric identifier for the learner used internally by the reporting organization. The LocalIdentifier allows the reporting organization to identify the learner for auditing purposes, but does not allow other organizations to identify the learner.	Required	1	Non-null String

	LocalIdentifier has the following attribute: *domain* Provides a unique identifier describing the type of ID described by LocalIdentifier. Domain has the following format: idd:*domainname*:*localidentifier* Where: *domainname* is an internet domain name owned by the organization issuing the unique ID and *localidentifer* is a local identifier for the type of unique ID. For example: idd:aamc.org:famous Use of the domain attribute is required when using the LocalIdentifier element.			
StateOfPrimaryPractice	The state that the learner has identified as being the primary state in which he or she practices.	Optional	0 or 1	Non-null String
DEARegistration	Indicates whether or not the learner is able to prescribe controlled substances, and if so, the type of registration which allows him or her to do so. Valid values are: Individual, Institutional, None.	Optional	0 or 1	Restricted
Profession	The learner's profession. Valid values are: Physician, Advanced practice nurse, Physician Assistant, Dentist, Podiatrist, Nurse, Pharmacist, Optometrist, Psychologist,	Required	1	Restricted

	Other health care professional, Other.			
PracticeArea	The clinical area in which the learner practices. Valid values are: Anesthesiology, Critical Care, Dentistry, Emergency, Family Medicine, Geriatric, Hematology, Hospice and/or Palliative Care, Internal Medicine, Neurology, Obstetrics/Gynecology, Oncology, Ophthalmology, Pain, Pediatric, Physical Medicine and Rehabilitation, Psychiatry, General surgery, Orthopedic surgery, Other surgical specialty, Substance Use Disorder, Urology, Other, N/A.	Optional	0 or 1	Restricted
SurgicalProcedures	Indicates whether the learner performs surgical procedures.	Optional	0 or 1	Boolean
TimeInPractice	The length of time the learner has been in practice. Valid values are: Trainee (e.g., student, intern, resident, fellow), 0-5 years post training, 6-10 years, 11-15 years, 16-20 years, 21+ years.	Optional	0 or 1	Restricted

Example:

```
<Participant>
    <LocalIdentifier domain="idd:nonesuch.edu:ce">H046431</LocalIdentifier>
    <StateOfPrimaryPractice>Michigan</StateOfPrimaryPractice>
    <DEARegistration>Individual</DEARegistration>
    <Profession>Physician</Profession>
    <PracticeArea>General Surgery</PracticeArea>
    <SurgicalProcedures>true</SurgicalProcedures>
    <TimeInPractice>0-5 years post training</TimeInPractice>
</Participant>
```
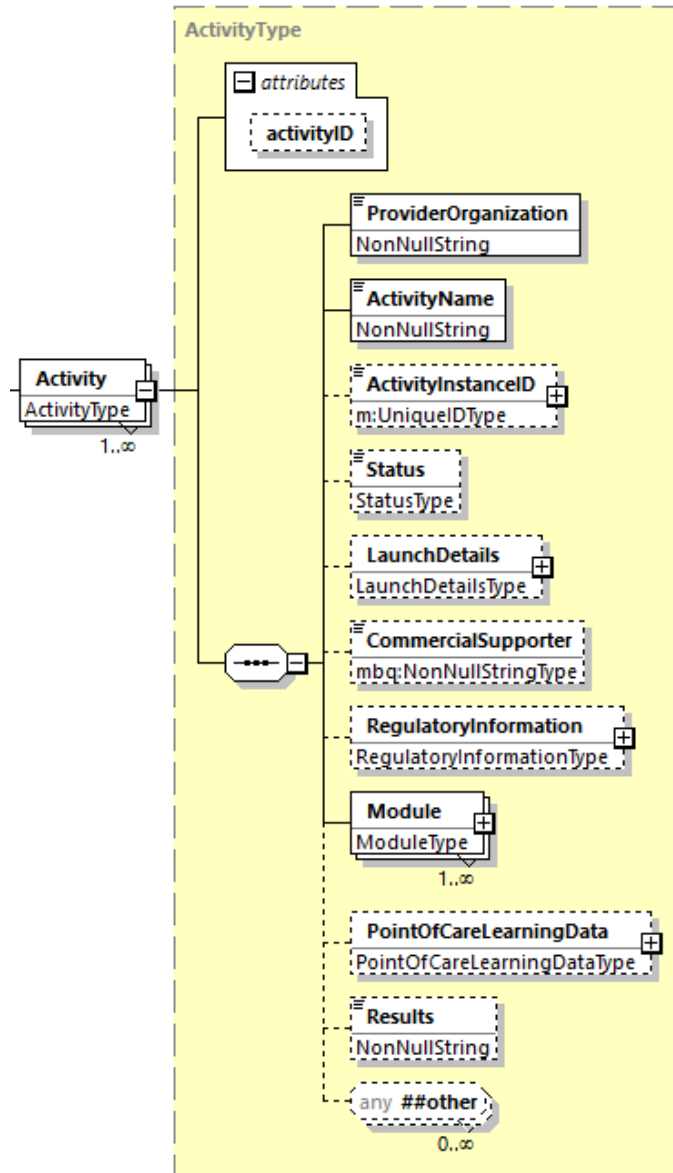
9   Activity

The Activity element identifies the type of educational or other activity completed or started by an individual. For example, in pediatrics this may be eQIPP or PREP SA (both of which are activities that can be applied towards a pediatrician's maintenance of certification requirements in the US). If Activity Report is describing an individual's educational accomplishments or learner demographics for a specific

activity, the activity element describes a continuing education activity. The Activity element is a subelement of ActivityReport. Activity may occur multiple times and is required.

Activity Element Information

Element	Description	Required	Multiplicity	Datatype
Activity	The Activity element is a subelement of ActivityReport. Activity has one attribute: *activityID* A unique identifier for this activity.	Required	1 or more	Container
ProviderOrganization	This is the sub-element of the Activity element. ProviderOrganization defines the name of the organization that is the official provider of this activity. For continuing education activities, ProviderOrganization is the accredited CE provider.	Required	1	NonNullString
ActivityName	This is the sub-element of the Activity element. It defines the name of the activity completed. For example, PREP Self Assessment. If the Activity Report describes a continuing education activity, ActivityName is the title of the educational activity or course.	Required	1	NonNullString
ActivityInstanceID	An alphanumeric identifier for this instance of the activity. ActivityInstanceID has the following attribute: *domain* Defines the organization that is the source of the unique identifier. *domain* has the following format: idd:*domainname*:*localidentifier* Where: *domainname* is internet domain name that is a valid URN authority (see RFC 3986 - URI) and is owned by the organization issuing the unique ID. and	Optional	0 or 1	NonNullString

	localidentifer is a local identifier for the type of unique ID. For example: idd:absurgery.org:instance Use of the domain attribute is required when using the ActivityInstanceID element.			
Status	The individual's status in relation to this activity. Valid values are registered, completed, and expired.	Optional	0 or 1	Restricted
LaunchDetails	Information required to launch an activity and return the learner to a predefined location.	Optional	0 or 1	Container
Commercial Supporter	The organization providing commercial support for the activity.	Optional	0 or 1	Non-null string
Regulatory Information	Contains elements that describe the relationship of this activity to any regulations.	Optional	0 or 1	Container
Module	This is the sub-element of the Activity element. It contains subelements that further define the activities of a single person. See section Module for more information.	Required	1 or more	Container
PointOfCareLearningData	PointOfCareLearningData contains subelements that document data about a point of care learning activity. PointOfCareLearningData is a sub-element of ActivityReport. See section PointOfCareLearningData more information.	Optional	0 or 1	Container
Results	The individual's results for the overall activity. For example, pass or fail.	Optional	0 or 1	Nonnullstring
Any	The Activity element may contain any elements defined by the organization implementing the schema provided those elements are defined in another namespace.	Optional	0 or more	Any datatype

	This is the preferred method of extension.			

Example 1:

```
<Activity>
  <ProviderOrganization>
    American Academy of Pediatrics
  </Providerorganization>
  <ActivityName>eQIPP</ActivityName>
  <Module>
     <ModuleName>Asthma</ModuleName>
     <Status>Registered</Status>
     <StartDate>2003-27-01</StartDate>
     <DueDate>2004-27-01</DueDate>
  </Module>
</Activity>
```

Example 2:

```
<Activity>
   <ProviderOrganization>Nonesuch University</ProviderOrganization>
   <ActivityName>Pain Management Update</ActivityName>
   <ActivityInstanceID
domain="idd:accme.org:instance">12345</ActivityInstanceID>
   <Status>Completed</Status>
   <LaunchDetails>
      <LaunchAction>noaction</LaunchAction>
      <ActivityLocation>http://nonesuch.edu/node123</ActivityLocation>
   </LaunchDetails>
   <CommercialSupporter>REMS Program Companies</CommercialSupporter>
   <RegulatoryInformation>
      <CompliantToRegulation label="Opioid
REMS">http://www.accessdata.fda.gov/drugsatfda_docs/label/2018/OpioidREM20
18.pdf</CompliantToRegulation>
   </RegulatoryInformation>
   <Module>
      <ModuleName>Pain Management Update</ModuleName>
      <Results>Pass</Results>
   </Module>
</Activity>
```
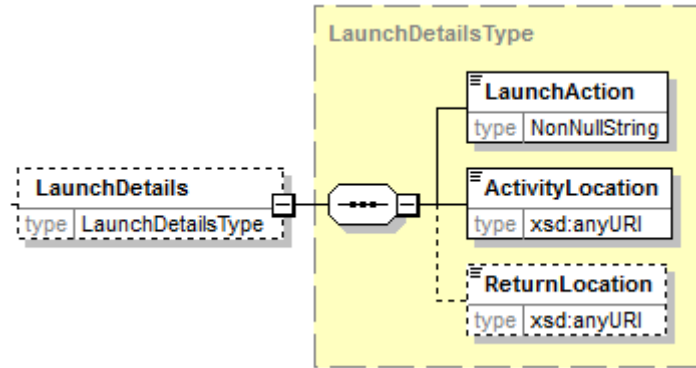
10 LaunchDetails

LaunchDetails has subelements that provide information required to launch an activity and return the learner to a predefined location. LaunchDetails is optional.

LaunchDetails Element Information

Element	Description	Required	Multiplicity	Datatype
LaunchDetails	LaunchDetails has subelements that provide information required to launch an activity and return the learner to a predefined location	Optional	0 or 1	Container
LaunchAction	The user's desired action while launching the activity. Recommended values are: Noaction – the user does not require any action to be taken Activity – the user desires to be placed in the activity to start, resume, or review the activity CE – the user desires to either claim CE credit or view the CE certificate or equivalent report for the credit earned. Registry – the user wishes to access the clinical registry associated with this activity	Required	0 or 1	NonNullstring
ActivityLocation	The location to launch this activity. The location may include a token required for access.	Required	0 or 1	anyURI
ReturnLocation	The location to which the learner will return upon exiting the activity.	Optional	0 or 1	anyURI

Example: TBD

10.1 RegulatoryInformation

RegulatoryInformation contains elements that describe the relationship of this activity to any regulations.
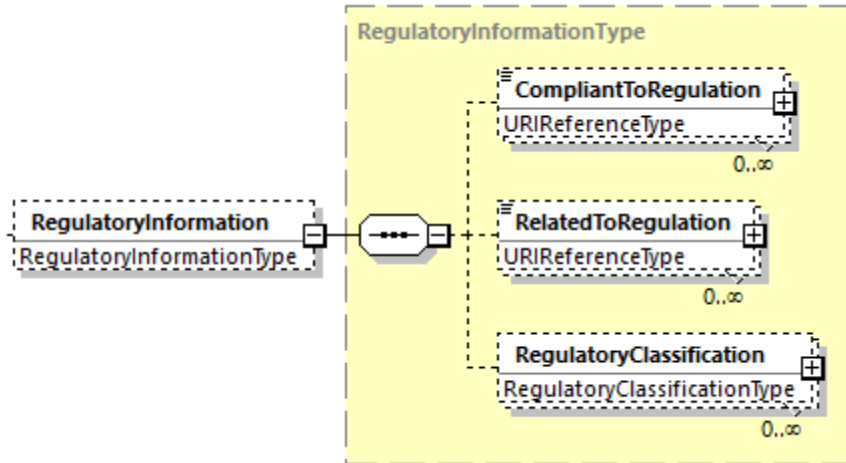
RegulatoryInformation Element Information

Element	Description	Required	Multiplicity	Datatype
RegulatoryInformation	Contains elements that describe the relationship of this activity to any regulations.	Optional	0 or 1	**Container**
CompliantToRegulation	CompliantToRegulation indicates that the activity described is compliant to requirements outlined in a regulation. The value of CompliantToRegulation is the URI of the regulation. CompliantToRegulation has the following attribute: *label* A label for the regulation. For example, ER/LA Opioid REMS.	Optional	0 or more	Any URI

Element	Description	Required	Multiplicity	Datatype
RelatedToRegulation	RelatedToRegulation indicates that the activity described is related to requirements outlined in a regulation. The value of RelatedToRegulation is the URI of the regulation. RelatedToRegulation has the following attribute: *label* A label for the regulation. For example, ER/LA Opioid REMS.	Optional	0 or more	Any URI
RegulatoryClassification	Contains subelements that describe how the activity described relates to a classification system used within the regulation, such as the Blueprint used within a Risk Evaluation and Mitigation Strategy. For more information, see section RegulatoryClassification.	Optional	0 or more	Container

Example:

```
        <RegulatoryInformation>
                <CompliantToRegulation label="ER/LA Opioid REMS">
http://www.accessdata.fda.gov/drugsatfda_docs/label/2012/OpioidREMJuly2012.pd
f
                </CompliantToRegulation>
        </RegulatoryInformation>
```
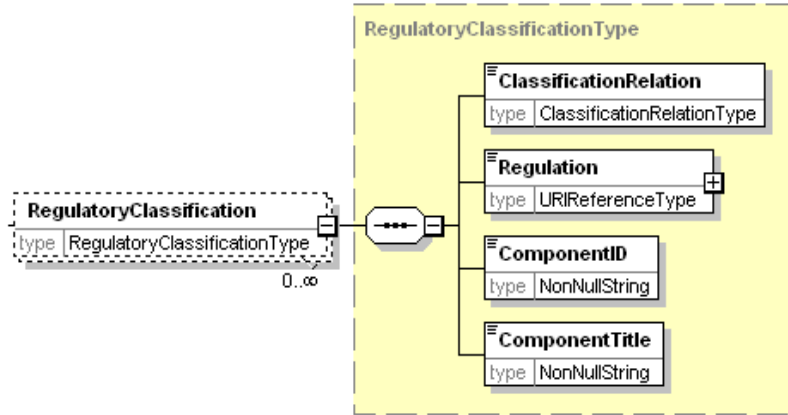
10.1.1 RegulatoryClassification

RegulatoryClassification describes how the activity described relates to a classification system used within the regulation.

RegulatoryClassificationElementInformation

Element	Description	Required	Multiplicity	Datatype
RegulatoryClassification	Contains subelements that describe how the activity described relates to a classification system used within the regulation, such as the Blueprint used within a Risk Evaluation and Mitigation Strategy.	Optional	0 or more	Container
ClassificationRelation	ClassificationRelation describes whether the activity's post course assessment addresses the regulation component or whether the activity's instruction addresses the regulation component. Valid values are Assessment Addresses and Instruction Addresses.	Required	1	Restricted

Element	Description	Required	Multiplicity	Datatype
Regulation	Regulation points to the regulation that contains the classification system used to classify this activity. The value of Regulation is the URI of the regulation. Regulation has the following attribute: *label* A label for the regulation. For example, ER/LA Opioid REMS.	Required	1	Any URI
ComponentID	The identifier for the component of the classification system. For example, II.	Required	1	NonNullString
ComponentTitle	The title for the component of the classification system. For example, Initiating Therapy, Modifying Dosing, and Discontinuing Use of ER/LA Opioid Analgesics.	Required	1	NonNullString

Example:

```
<RegulatoryClassification>
      <ClassificationRelation>Instruction Addresses</ClassificationRelation>
      <Regulation label="ER/LA Opioid
REMS">http://www.accessdata.fda.gov/drugsatfda_docs/label/2012/OpioidREMJuly2
012.pdf</Regulation>
      <ComponentID>II</ComponentID>
      <ComponentTitle>Initiating Therapy, Modifying Dosing, and Discontinuing
Use of ER/LA Opioid Analgesics</ComponentTitle>
</RegulatoryClassification>
```

11 Module

Module is the subelement of Activity. Module contains subelements that define an educational or other activity and an individual's status in relation to that activity. There may be many Modules within an activity. If the activity does not consist of multiple modules, the module should still be used, and the

ModuleName should be identical to the ActivityName. Module is required and may occur multiple times.
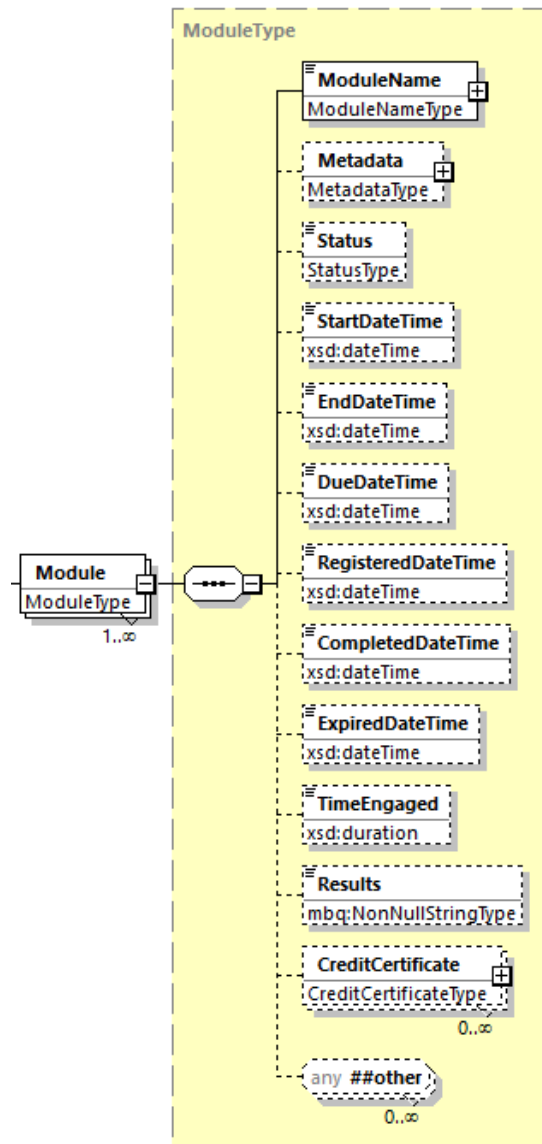
Example:

```
<Module>
   <ModuleName>Preventive Guidelines for Women</ModuleName>
   <Metadata>
       <Location>http://my.americanheart.org/metadata/001.xml</Location>
   </Metadata>
   <Status>Completed</Status>
   <CompletedDateTime>2005-11-09T21:30:00</CompletedDate>
   <TimeEngaged>PT1H30M</TimeEngaged>
   <Results>Pass</Results>
```

```
<CreditCertificate>
  <CreditReceived>
     <hx:accreditingBody>ACCME</hx:accreditingBody>
     <hx:activityCertification>
       AMA PRA category 1
     </hx:activityCertification>
     <hx:creditType>CME</hx:creditType>
     <hx:creditUnit>Credits</hx:creditUnit>
     <hx:accreditedProvider>
       American Heart Association
     </hx:accreditedProvider>
     <hx:releaseDate>2005-10-30</hx:releaseDate>
     <hx:expirationDate>2006-10-30</hx:expirationDate>
     <hx:numberOfCredits>1.5</hx:numberOfCredits>
  </CreditReceived>
  <CreditID>ccid:americanheart.org:12345.8767<CreditID>
</CreditCertificate>
</Module>
```

Module Element Information

Element	Description	Required	Multiplicity	Datatype
Module	Module is the subelement of Activity. It contains subelements that further define the activities of a single person. If the activity described does not include multiple modules, the Module element should still be used to describe the details of the activity.	Required	1 or more	Container
ModuleName	This is a sub-element of the Module element. It defines the name of the module within this activity. For example, if the activity is the Pediatrics eQIPP resource for practice improvement, the module may be Asthma. This element has the following attribute: *moduleID* A unique identifier for this module.	Required	1	NonNullString

Metadata	This is a sub-element of the Module element. It contains subelements that provide or reference descriptive metadata for the activity.	Optional	0 or 1	Container
Status	This is a sub-element of the Module element. It defines the individual's status in relation to this module. Valid values are registered, completed, and expired.	Optional	1	Restricted
StartDateTime	This is a sub-element of the Module element. It defines the date and time the individual started this module.	Optional	0 or 1	dateTime
EndDateTime	This is a sub-element of the Module element. It defines the date and time that the individual ended the module.	Optional	0 or 1	dateTime
DueDateTime	This is a sub-element of the Module element. It defines the final date and time for this individual to complete this module according to the sending organization. The receiving organization (e.g. the certifying board) may have a different due date for this module if it is required to maintain certification.	Optional	0 or 1	dateTime
RegisteredDateTime	This is a sub-element of the Module element. It defines the date and time the individual registered for this module.	Optional	0 or 1	dateTime
CompletedDateTime	This is a sub-element of the Module element. It defines the date and time the individual completed this module.	Optional	0 or 1	dateTime

ExpiredDateTime	This is a sub-element of the Module element. It defines the date and time the individual's access to the module expired.	Optional	0 or 1	dateTime
TimeEngaged	This is a sub-element of the Module element. It defines the amount of time the participant spent engaged in the activity.	Optional	0 or 1	Duration
Results	This is a sub-element of the Module element. It defines the individual's results for this module. For example, pass or fail.	Optional	0 or 1	NonNullString
CreditCertificate	This is a sub-element of the Module element. It contains subelements that describe and identify the credits received for completing this activity. See section CreditCertificate for more information.	Optional	0 or more	Container
Any	The Module element may contain any elements defined by the organization implementing the schema provided those elements are defined in another namespace. This is the preferred method of extension.	Optional	0 or more	Any datatype

11.1 Metadata

Metadata is the subelement of Module. It contains subelements that provide or reference descriptive metadata for the activity.
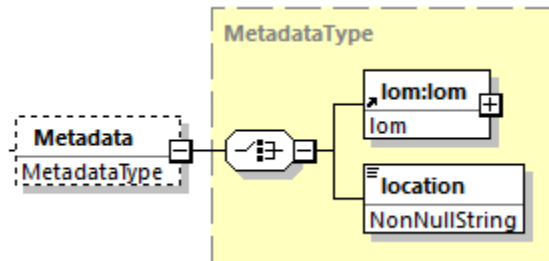
Example:

```
<Metadata>
    <Location> http://www.cd.gov/metadata/001</Location>
</Metadata>
```

Or:

```
<Metadata>
    <lom:lom>
      <general>
          <identifier>
            <catalog>URL</catalog>

<entry>http://www.atsdr.cdc.gov/HEC/CSEM/arsenic/index.html</entry>
          </identifier>
          <title>
            <string language="en">Arsenic Toxicity</string>
          </title>
      </general>
      <metaMetadata>
          <identifier>
            <catalog>URL</catalog>
            <entry>http://www.cd.gov/metadata/001</entry>
          </identifier>
      </metaMetadata>
      <hx:healthcareMetadata>
          <hx:healthcareEducation>
            <hx:expirationDate>2006-10-30</hx:expirationDate>
            <hx:creditsAvailable>yes</hx:creditsAvailable>
```

```
                    <hx:credits>
                          <hx:accreditingBody>ACCME</hx:accreditingBody>
                          <hx:activityCertification>AMA PRA category
1</hx:activityCertification>
                          <hx:creditType>CME</hx:creditType>
                          <hx:creditUnit>Credits</hx:creditUnit>
                          <hx:accreditedProvider>
                            Centers for Disease Control and Prevention
                          </hx:accreditedProvider>
                          <hx:releaseDate>2005-10-30</hx:releaseDate>
                          <hx:expirationDate>2006-10-30</hx:expirationDate>
                          <hx:numberOfCredits>1.5</hx:numberOfCredits>
                    </hx:credits>
               </hx:healthcareMetadata>
          </lom:lom>
     </Metadata>
```
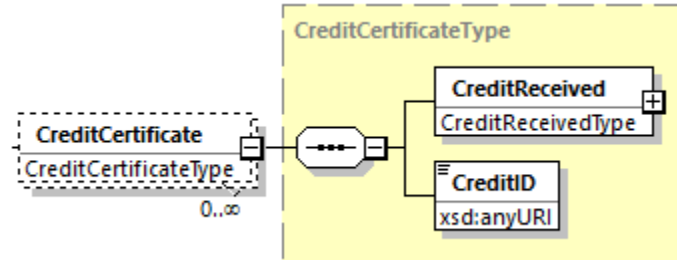
Metadata Element Information

Element	Description	Required	Multiplicity	Datatype
Metadata	This is a sub-element of the Module element. It contains subelements that provide or reference descriptive metadata for the activity.	Optional	0 or 1	Container
lom	This is a sub-element of the Module element. It contains subelements that provide a full learning object metadata record using the Healthcare Learning Object Metadata specification. Metadata provides descriptive information about an activity.	Either lom or Location is required	1	lom See the *Healthcare Learning Object Metadata Specifications and Description Document* for more information.
Location	This is a sub-element of the Module element. It provides a URL or other location reference for a learning object metadata record that uses the Healthcare Learning Object Metadata specification.	Either lom or Location is required	1	Non-null string

11.2 CreditCertificate

CreditCertificate is the subelement of Module. CreditCertificate describes and identifies the credits received for completing an education or certification activity.

Example:

```
<CreditCertificate>
    <CreditReceived>
        <hx:accreditingBody>ACCME</hx:accreditingBody>
        <hx:activityCertification>
          AAFP Elective
        </hx:activityCertification>
        <hx:creditType>CME</hx:creditType>
        <hx:creditUnit>Credits</hx:creditUnit>
        <hx:accreditedProvider>
          American Academy of Pediatrics
        </hx:accreditedProvider>
        <hx:releaseDate>2006-04-01</hx:releaseDate>
        <hx:expirationDate>2007-04-01</hx:expirationDate>
        <hx:numberOfCredits>3</hx:numberOfCredits>
    </CreditReceived>
    <CreditID>ccid:aap.org:6789012345</CreditID>
</CreditCertificate>
```
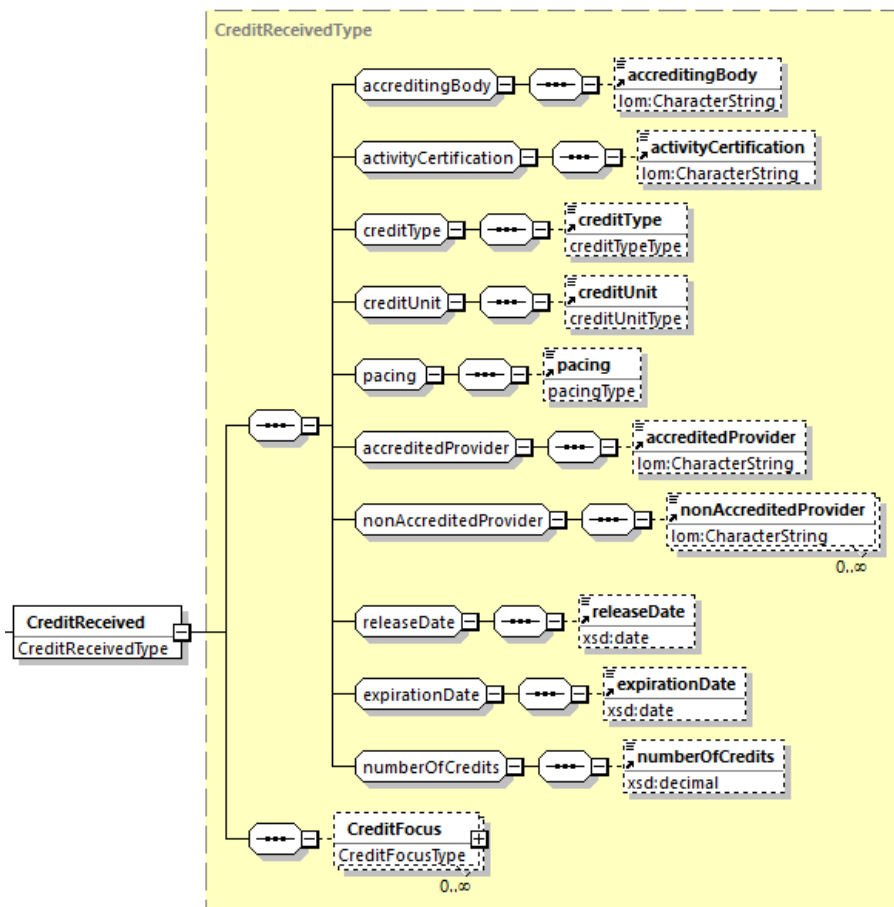
CreditCertificate Element Information

Element	Description	Required	Multiplicity	Datatype
CreditCertificate	This is a sub-element of the Module element. If a learner received multiple types of credit for an activity, repeat the credit certificate element to describe each type of credit received.	Optional	0 or more	Container
CreditReceived	This is a sub-element of the CreditCertificate element. Its type definition extends the credits type from Healthcare Learning Object Metadata. This element is required if the CreditCertificate element is used. It has subelements that define the number of credits (CME, CE, CPE, or other professional credit) that the individual has received as a result of completing this module.	Required	1	Container See the section CreditReceived for more information.
CreditID	CreditID is the subelement of CreditCertificate. This element is required if the CreditCertificate element is used. It provides a globally unique identifier for the specific credits awarded by the provider to the learner. CreditID uses the Credit Certificate Identifier (heid) Uniform Resource Name (URN) format as shown below: ccid:*providerdomain*:*localidentifier* *providerdomain* is a the domain name that uniquely identifies the provider of the educational activity. *localidentifier* is a locally unique identifier for the credit certificate created by the provider.	Required	1	Healthcare Education Identifier URN

11.3 CreditReceived

CreditReceived is sub-element of the CreditCertificate element. . It has subelements that define the number of credits (CME, CE, CPE, or other professional credit) that the individual has received as a result of completing this module.

Example:

```
<CreditReceived>
   <hx:accreditingBody>ACCME</hx:accreditingBody>
   <hx:activityCertification>
     AAFP Elective
   </hx:activityCertification>
   <hx:creditType>CME</hx:creditType>
   <hx:creditUnit>Credits</hx:creditUnit>
   <hx:accreditedProvider>
```

```
            American Academy of Pediatrics
        </hx:accreditedProvider>
        <hx:releaseDate>2006-04-01</hx:releaseDate>
        <hx:expirationDate>2007-04-01</hx:expirationDate>
        <hx:numberOfCredits>3</hx:numberOfCredits>
    </CreditReceived>
```

CreditReceived Element Information

Element	Description	Required	Multiplicity	Datatype
CreditReceived	This is a sub-element of the CreditCertificate element. Its type definition extends the credits type from Healthcare Learning Object Metadata. This element is required if the CreditCertificate element is used. It has subelements that define the number of credits (CME, CE, CPE, or other professional credit) that the individual has received as a result of completing this module.	Required	1	Container
accreditingBody				
activityCertification				
creditType				
creditUnit	See the *Healthcare Learning Object Metadata Specifications and Description Document* description of the credit element for more information.			
pacing				
accreditedProvider				
nonAccreditedProvider				
releaseDate				
expirationDate				
numberOfCredits				
CreditFocus	CreditFocus is a subelement of the CreditReceived element. It contains subelements that define a category or area of focus included in this credit certificate. See section CreditFocus for more information.	Optional	0 or more	Container

11.4 Credit Focus

CreditFocus defines a category or area of focus included in the credit certificate. Some organizations award subspecialty certificates, others provide categories of credit. CreditFocus enables organizations to describe those category-based credits and certificates.
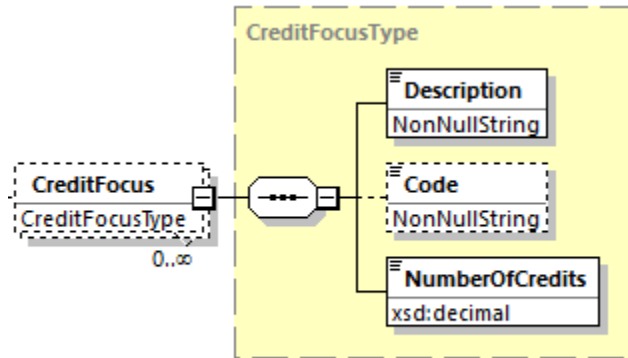
Example:

```
<CreditFocus>
      <Description>CME Computed Tomography</Description>
      <Code>CT</Code>
      <NumberOfCredits>2.5</NumberOfCredits>
</CreditFocus>
```

CreditFocus Element Description

Element	Description	Required	Multiplicity	Datatype
CreditFocus	CreditFocus is a subelement of the CreditReceived element. It contains subelements that define a category or area of focus included in this credit certificate.	Optional	0 or more	Container
Description	Description is a subelement of CreditFocus. It provides a text description or category of the credit focus.	Required	1	Non-nullstring
Code	Code is a subelement of CreditFocus that provides a succinct code matching the description.	Optional	0 or 1	Non-nullstring
NumberOfCredits	NumberOfCredits is the subelement of CreditFocus	Required	1	Decimal

	that defines how many credits are associated with this credit focus or category.			

12 PointOfCareLearning

PointOfCareLearningData contains elements that provide data about a point of care learning experience. PointOfCareLearningData must occur once within a PointOfCareLearningData instance document.
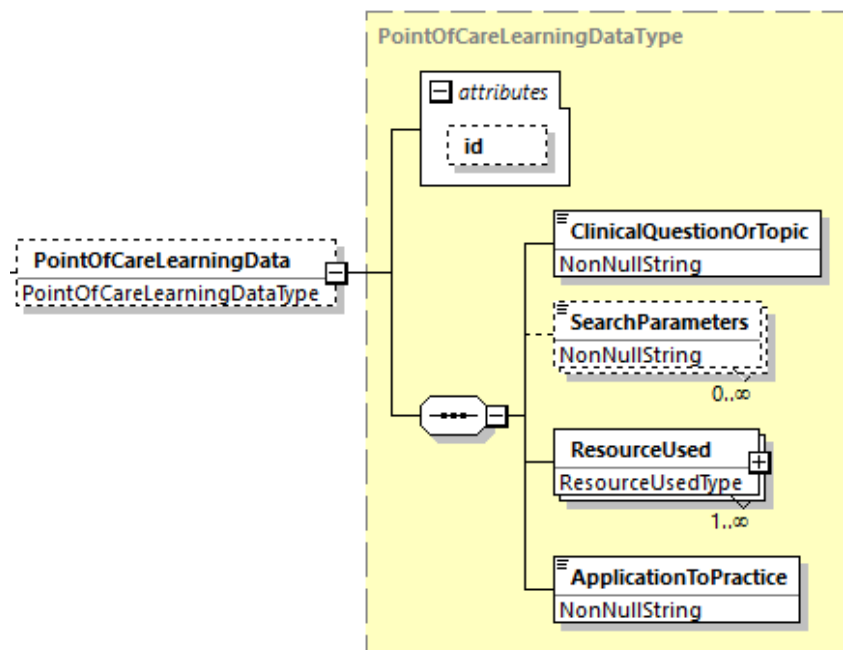
PointOfCareLearningData has the following elements.

PointOfCareLearningData Element Information

Element	Description	Required	Multiplicity	Datatype
PointOfCareLearningData	PointOfCareLearningData is the root element. It contains elements that provide data about the	Optional	0 or 1	Container

	point-of-care learning experience. PointOfCareLearningData has the following attribute: *id* A unique identifier for this set of point of care learning data.			
ClinicalQuestionOrTopic	ClinicalQuestionOrTopic is the subelement of PointOfCareLearningData that describes the clinical question asked or topic selected by the learner to begin the search for learning resources at the point of care.	Required	1	Non-null string
SearchParameters	SearchParameters is the subelement of PointOfCareLearningData that describes the search parameters entered by the learner if a collection search was used to find relevant resources at the point of care.	Optional	0 or more	Non-null string
ResourceUsed	ResourceUsed is the subelement of PointOfCareLearningData that describes the title of a learning resource used as part of this point of care learning experience. If the resource is an article in a collection, use the title of the article. See ResourceUsed section for more information.	Required	1 or more	Container
ApplicationToPractice	ApplicationToPractice is the subelement of PointOfCareLearningData that indicates how the learner describes applying the learning	Required	1	Non-null string

	resource to his or her practice. ApplicationToPractice may indicate that the learner was unable to apply the learning to the question at hand.			

Example:

```
<PointOfCareLearningData>
      <ClinicalQuestionOrTopic>
      Is zinc recommended for type 2 diabletic patients?
      </ClinicalQuestionOrTopic>
      <SearchParameters>zinc</SearchParameters>
      <SearchParameters>diabetes</SearchParameters>
      <ResourceUsed>
<Title>
Zinc Supplementation for the Prevention of Type 2 Diabetes
Mellitus
</Title>
<Collection> The Cochrane Library</Collection>
<CollectionID type="uri">
"http://www.cochrane.org/reviews/en/ab005525.html"
            </CollectionID>
            <ResourceLocation>
"http://www.cochrane.org/reviews/en/ab005525.html"
            </ResourceLocation>
            <Relevant>true</Relevant>
      </ResourceUsed>
      <ApplicationToPractice>Advised patient that zinc
supplementation was not helpful to her condition.</ApplicationToPractice>
      </PointOfCareLearningData>
```
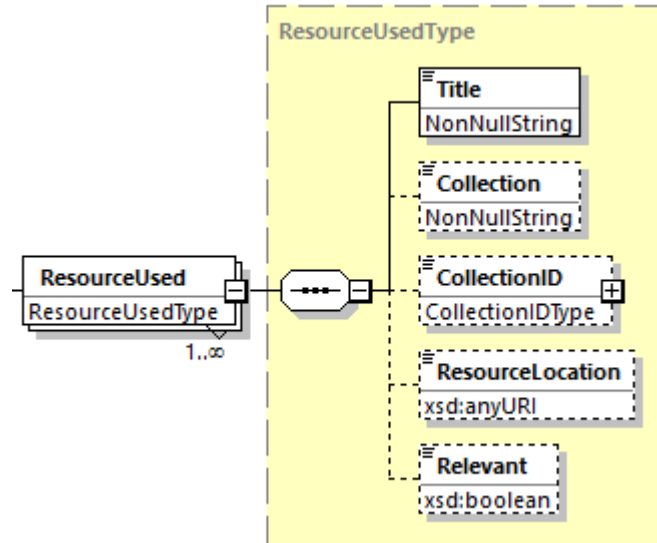
12.1 ResourceUsed

ResourceUsed contains subelements that describe a resource used as part of this point of care learning activity.

ResourceUsed has the following elements:

ResourceUsed Element Information

Element	Description	Required	Multiplicity	Datatype
ResourceUsed	ResourceUsed is the subelement of PointOfCareLearningData. It's subelements describe the title and source of a learning resource used as part of this point of care learning experience.	Required	1 or more	Container
Title	Title is the subelement of ResourceUsed that describes the title of a learning resource used as part of this point of care learning experience.	Required	1	Nonnull String
Collection	Collection is the subelement of ResourceUsed that describes the name of the collection that is the source of the article. For example, The Cochrane Library.	Optional	0 or 1	Nonnull String
CollectionID	CollectionID is the subelement of	Optional	0 or 1	Nonnull String

	ResourceUsed that provides the unique identifier of the article used by the collection. If the article has a digital object identifier (DOI), it may be used. CollectionID has one attribute: *type* the type of identifier used. For example, DOI, PubMed, or URI.			
ResourceLocation	ResourceLocation is the subelement of ResourceUsed that provides the URL of the article.	Optional	0 or 1	URI
Relevant	Relevant is the subelement of ResourceUsed that indicates whether or not the learner found the resource relevant. Valid values are: true, false.	Optional	0 or 1	Restricted

Example:

```
        <ResourceUsed>
<Title>
Zinc Supplementation for the Prevention of Type 2 Diabetes
Mellitus
</Title>
<Collection> The Cochrane Library</Collection>
<CollectionID type="uri">
"http://www.cochrane.org/reviews/en/ab005525.html"
        </CollectionID>
        <ResourceLocation>
"http://www.cochrane.org/reviews/en/ab005525.html"
        </ResourceLocation>
        <Relevant>true</Relevant>
    </ResourceUsed>
```

13 XtensibleInfo

The XtensibleInfo element contains sub-elements defined by the organization implementing the schema. XtensibleInfo is included for backward compatibility and is not the preferred method of extension.

XtensibleInfo is a sub-element of ActivityReport.

14 Sample XML Documents

14.1 CE Credit Example

```xml
<?xml version = "1.0" encoding = "UTF-8"?>
<ActivityReports xmlns = "http://ns.medbiq.org/activityreport/v1/" xmlns:xsi
= "http://www.w3.org/2001/XMLSchema-instance" xmlns:lom =
"http://ltsc.ieee.org/xsd/LOM" xmlns:m = "http://ns.medbiq.org/member/v1/"
xmlns:n = "http://ns.medbiq.org/name/v1/" xmlns:hx =
"http://ns.medbiq.org/lom/extend/v1/" xsi:schemaLocation =
"http://ns.medbiq.org/activityreport/v1/ activityreport.xsd">
    <DateTimeCreated>2006-04-15T00:00:00</DateTimeCreated>
    <ActivityReport>
        <ReportingOrganization>HighWire Press</ReportingOrganization>
        <Member>
            <m:UniqueID domain = "American Academy of Pediatrics">
              654321
            </m:UniqueID>
            <m:Name>
                <n:GivenName>Paul</n:GivenName>
                <n:GivenName>Lawrence</n:GivenName>
                <n:FamilyName>Dunbar</n:FamilyName>
            </m:Name>
        </Member>
        <Activity>
            <ProviderOrganization>
              American Academy of Pediatrics
            </ProviderOrganization>
            <ActivityName>NeoReviews, Volume 7, Issue 4</ActivityName>
            <Module>
                <ModuleName>NeoReviews, Volume 7, Issue 4</ModuleName>
                <Metadata>
                    <location>
                      http://neoreviews.aappublications.org/metadata/v7i4.xml
                    </location>
                </Metadata>
                <Status>Completed</Status>
                <TimeEngaged>PT3H</TimeEngaged>
                <Results>passed</Results>
                <CreditCertificate>
                    <CreditReceived>
                        <hx:accreditingBody>ACCME</hx:accreditingBody>
                        <hx:activityCertification>
                          AAFP Elective
                        </hx:activityCertification>
                        <hx:creditType>CME</hx:creditType>
                        <hx:creditUnit>Credits</hx:creditUnit>
                        <hx:accreditedProvider>
                          American Academy of Pediatrics
                        </hx:accreditedProvider>
                        <hx:releaseDate>2006-04-01</hx:releaseDate>
                        <hx:expirationDate>2007-04-01</hx:expirationDate>
                        <hx:numberOfCredits>3</hx:numberOfCredits>
                    </CreditReceived>
```

```xml
            <CreditID>ccid:aap.org:6789012345</CreditID>
         </CreditCertificate>
      </Module>
   </Activity>
  </ActivityReport>
</ActivityReports>
```

14.2 Opioid REMS Example

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ActivityReports xmlns="http://ns.medbiq.org/activityreport/v2/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://ns.medbiq.org/activityreport/v2/
activityreport.xsd" arid="arid:nonesuch.edu:D14352">
   <DateTimeCreated>2018-08-28T09:00:00</DateTimeCreated>
   <ReportingStartDate>2018-01-01</ReportingStartDate>
   <ReportingEndDate>2018-06-30</ReportingEndDate>
   <ActivityReport>
      <ReportingOrganization>Nonesuch University</ReportingOrganization>
      <Participants>
         <Participant>
            <LocalIdentifier
domain="idd:nonesuch.edu:ce">H046431</LocalIdentifier>
            <StateOfPrimaryPractice>Michigan</StateOfPrimaryPractice>
            <DEARegistration>Individual</DEARegistration>
            <Profession>Physician</Profession>
            <PracticeArea>General Surgery</PracticeArea>
            <SurgicalProcedures>true</SurgicalProcedures>
            <TimeInPractice>0-5 years post training</TimeInPractice>
         </Participant>
         <Participant>
            <LocalIdentifier
domain="idd:nonesuch.edu:ce">H025461</LocalIdentifier>
            <StateOfPrimaryPractice>Wisconsin</StateOfPrimaryPractice>
            <DEARegistration>None</DEARegistration>
            <Profession>Nurse</Profession>
            <PracticeArea>Hospice and/or Palliative Care</PracticeArea>
            <SurgicalProcedures>false</SurgicalProcedures>
            <TimeInPractice>11-15 years</TimeInPractice>
         </Participant>
      </Participants>
      <Activity>
         <ProviderOrganization>Nonesuch University</ProviderOrganization>
         <ActivityName>Pain Management Update</ActivityName>
         <ActivityInstanceID
domain="idd:accme.org:instance">12345</ActivityInstanceID>
         <Status>Completed</Status>
```

```
        <LaunchDetails>
            <LaunchAction>noaction</LaunchAction>
            <ActivityLocation>http://nonesuch.edu/node123</ActivityLocation>
        </LaunchDetails>
        <CommercialSupporter>REMS Program Companies</CommercialSupporter>
        <RegulatoryInformation>
            <CompliantToRegulation label="Opioid
REMS">http://www.accessdata.fda.gov/drugsatfda_docs/label/2018/OpioidREM2018.
pdf</CompliantToRegulation>
        </RegulatoryInformation>
        <Module>
            <ModuleName>Pain Management Update</ModuleName>
            <Results>Pass</Results>
        </Module>
    </Activity>
  </ActivityReport>
</ActivityReports>
```

15 References

Healthcare LOM

ANSI/MEDBIQ LO.10.1-2008, Healthcare Learning Object Metadata (Healthcare LOM). MedBiquitous
Website. http://www.medbiq.org/std_specs/standards/index.html#HCLOM. Accessed June 1, 2011.

Professional Profile

ANSI/MEDBIQ PP.10.1-2008, Healthcare Professional Profile. MedBiquitous Website.
http://www.medbiq.org/std_specs/standards/index.html#HCProfProfile Accessed June 13, 2011.

XSD

Extensible Markup Language (XML) 1.0 (Fifth Edition), W3C Website. 26 November 2008
http://www.w3.org/TR/2008/REC-xml-20081126/ . Accessed March 20, 2012.