XML data format for reporting learner completion to PARS

Contents

Introduction 2

Learner Completion Data Elements 3

Appendix A: CreditCertificate Reference 9

Appendix B: XML Sample Records 12

Version History

Version	Date	Notes
1.7	08/09/2019	Updated document to combine Learner XML File Specification documents for ABIM, ABP, ABA, ABPath, ABOHNS, and ABO into a single document. Updated document to include expanded reporting instructions for submitting completion dates for current and previous years (see CompletedDateTime element)
1.6	01/22/2019	Updated document to include instructions to submit participants for ABO MOC.
1.5	10/11/2018	Updated document to include instructions to submit participants for ABOHNS Continuing Certification.
1.4	07/17/2018	Updated document to include instructions to submit participants for ABPath Continuing Certification.
1.3	04/07/2017	Updated document to include instructions to submit participants for ABIM MOC Part IV (Practice Assessment) Credit.
1.2	11/01/2017	Updated document to include instructions to submit participants for ABA MOCA and ABP MOC credit.
1.1	05/05/2016	Created document with instructions for submitting participants for ABIM MOC Part 2 (Medical Knowledge) and ABIM MOC Patient Safety credit

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Introduction

This document defines the elements to be used by providers when reporting learner completion data to ACCME's Program and Activity Reporting System (PARS) for collaborating ABMS boards. The XML schema is based on version 1.0 of the **Medbiquitous ActivityReports** standard.

The ACCME is currently collaborating with six specialty boards to upload participant data for CME activities that are also registered for the following programs:

- **ABA** – American Board of Anesthesiology's ABA MOCA 2.0 Program
- **ABIM** – American Board of Internal Medicine's MOC Program
- **ABP** – American Board of Pediatrics' MOC Program
- **ABPath** – American Board of Pathology's Continuing Certification Program
- **ABOHNS** – American Board of Otolaryngology – Head and Neck Surgery's Continuing Certification Program
- **ABO** – American Board of Ophthalmology's MOC Program

Some key points:

1. Learner data is being collected in PARS for CME activities which have been registered for Maintenance of Certification/Continuing Certification for the above specialty boards. All learner records must reference a valid board diplomate ID. Learner completion data that is not associated with an activity registered for MOC/CC with the corresponding board in PARS or lacks a valid diplomate ID will result in file validation errors.
2. This description includes only the data elements that are required to submit learner data to PARS. For complete documentation on all data elements that are supported by the Medbiquitous standard, please refer to the Medbiquitous website. Note that the ActivityReport standard incorporates by reference portions of the Healthcare Professional Profile and Healthcare Learning Objects Metadata (LOM) standards.
3. ACCME has extended the Medbiquitous schema by adding a custom root container (ACCMELearnerReports) and a subelement in the ActivityReport XtensibleInfo element to store metadata related to record transaction operations.
4. PARS will expect an ActivityReport element container for each participant completion record in the file. Each ActivityReport container will include **one completion record for one learner**.

5. If a learner is certified with more than one specialty board, and has earned credit for an activity which offers MOC for multiple boards, a separate ActivityReport will need to be submitted for each board. Multiple boards cannot be combined into one record.
6. If a learner completes an activity for which they earned differing point amounts for credit types, two ActivityReport element containers will need to be submitted for the learner. More information can be found in **Appendix A**.

Learner Completion Data Elements

Element Name	Description	Min Occurs	Max Occurs	Type	ACCME Business Rules
ACCMELearnerReports	Super root element container for ActivityReports	1	1	Complex	**ACCMELearnerReports** is the container for all participant completion records.
ActivityReports	Medbiquitous-defined container element. Contains one or more individual ActivityReport elements.	1	1	Complex	
DateTimeCreated	The date and time the current LearnerReports file was created.	1	1	Date/Time	Use format *yyyy-mm-dd*T*hh:mm:ss.* Submissions are assumed to be in CST unless time zone is indicated. (Example: *2019-07-30*T*17:00:00*)

XML data format for reporting learner completion to PARS

Element Name	Description	Min Occurs	Max Occurs	Type	ACCME Business Rules
ActivityReport	Medbiquitous-defined container element.	1	many	Complex	Each ActivityReport element holds data for one learner completing one activity. For XML batch file uploads, multiple ActivityReport elements may be included in a single file. For records submitted using the PARS web services, only a single ActivityReport element should be included.
ReportingOrganization	Name of the organization that is the accredited provider of the CME activity.	1	1	String	Full name of the provider. (Example: *Western Regional Medical Center*).
Member	Container element defined in Medbiquitous Professional Profile schema	1	1	Container	Only the sub-elements listed in this document are required.
UniqueID	Sub-element of Member.	1	1	String	Learner's Board identification number.
Domain	Attribute of UniqueID. Name of the specialty board or other entity	1	1	String	Name of the specialty board or other entity issuing this uniqueID. Values include: *ABIM, ABA, ABP, ABPATH, ABOHNS,* or *ABO*
Name	Sub-element of Member	1	1	Container	
GivenName		1	1	String	First name of the learner. (Example: *Jill*)

XML data format for reporting learner completion to PARS

Element Name	Description	Min Occurs	Max Occurs	Type	ACCME Business Rules
FamilyName		1	1	String	Last name of the learner. (Example: *Smith*)
PersonalInfo	Sub-element of Member	0	1	Container	This is optional for ABA and ABP reporting. **Do not include this element if BirthDate is not being reported.**
BirthDate	Sub-element of PersonalInfo. Month and day of learner's date of birth.	0	1	Date	Include month and day. This is optional for ABA and ABP reporting. For all other records, format as 1904-*MM-DD.* Use 1904 in place of the actual year. (Example: *1904-04-15*)
Activity	Sub-element of ActivityReport	1	1	Container	Holds data elements for learner's completion of the CME activity.
ProviderOrganization	Organization ID number for the accredited provider of the CME activity.	1	1	String	Use the ACCME-issued 7-digit organization ID number, including any leading zeroes. (Example: *0008001*)
ActivityName	Sub-element of Activity identifying the CME activity.	1	1	String	Use the ACCME-issued 9-digit Activity ID number. (Example: *200654321*)
Module	Sub-element of Activity	1	1	Container	Holds data elements for the learner's completion of the CME activity.

XML data format for reporting learner completion to PARS

Element Name	Description	Min Occurs	Max Occurs	Type	ACCME Business Rules
ModuleName	The name/title of the CME activity. Sub-element of Module.	1	1	String	Text name of the CME activity. (Example: *Western Regional Conference 2019*)
moduleID	Attribute for ModuleName. The unique identifier for the activity.	1	1	String	Use the ACCME-issued 9-digit Activity ID number. (Example: *200654321*)
Status	The status of the learner's completion of this activity. Sub-element of Module.	1	1	String (restricted)	The only accepted value is *Completed.* Any other value will cause the record to be rejected.
CompletedDateTime	The date and time for the learner's completion of the activity. Sub-element of Module.	1	1	Date/Time	Use the format *YYYY-MM-DDThh:mm:ss*. Submissions are assumed to be in CST unless time zone is indicated. (Example: *2018-08-01T00:00:00*). ***Updated (August 2019)*** Learner completion will be accepted in PARS for the current calendar year and the previous calendar year (ex: 2018 completion can be submitted until 3/31/2020, 2019 to 3/31/2021, etc.) as long as the completion date entered is between the listed start and end dates of the activity, and corresponds with the reporting year of the activity.

Element Name	Description	Min Occurs	Max Occurs	Type	ACCME Business Rules
CreditCertificate	Sub-element of Module, holding data elements describing the points awarded to the learner.	1	3	Container	Each record must have one CreditCertificate that includes an activityCertification value (**See Appendix A for values**) To report additional credit types earned for the activity by the learner, include additional CreditCertificate containers with activityCertification values.
CreditReceived	Sub-element of CreditCertificate. Defined as the credits element in the Medbiquitous HLOM standard.	1	1	Container	
activityCertification	Identifies the category of points being awarded. Sub-element of CreditReceived. Each board has specific credit language.	1	3 (varies)	String (restricted)	See Appendix A for all current activityCertification values. activityCertification must be present in the activity record in order to pass validation, and must match the UniqueId domain of the learner. (Example: *ABA MOCA Part 2* or *ABIM MOC Part IV*)
creditUnit	Describes the unit being awarded. Sub-element of CreditReceived.	1	1	String (restricted)	The only accepted value is *Point*.

XML data format for reporting learner completion to PARS

Element Name	Description	Min Occurs	Max Occurs	Type	ACCME Business Rules
numberOfCredits	Details the number of credits awarded to the learner for this activity completion. Sub-element of CreditReceived.	1	1	Decimal	Numeric decimal value with up to two digits to the right of the decimal point, in increments of .25 (Example: 1.75). If there are multiple *creditCertificate* elements, all must contain the same value for *numberOfCredits*.
CreditID	A unique identifier for the credit awarded to the learner. Sub-element of CreditCertificate.	1	1	Uniform resource name (URN)	Format as ccid:*provider domain:provider system unique identifier* (Example:*ccid:WesternRegionalMedicalCenter.org:12345*)
XtensibleInfo	Container for custom elements added by ACCME. Sub-element of ActivityReport.	1	1	Container	
LearnerRecordAction	Describes the data transaction for the current ActivityReport record. Sub-element of XtensibleInfo.	1	1	String (restricted)	Use *add* for reporting a learner completion. Use *delete* for reporting the removal of a learner completion record.

Appendix A: CreditCertificate Reference

Reference guide for credit type language used for each participating board.

If a learner completes an activity for which they have earned different credit amounts for different credit types, one of which must be submitted with another credit type, or has earned credit for two different boards, two ActivityRecords will need to be submitted: one that includes the combined credits earned, and another record for the remainder of the credits.

Example 1: Jill Smith attends an activity registered for ABPath MOC Part 2 and SAM. She earns 20 Part 2 credits, and 5 Self-Assessment Module (SAM) credits. This would be reported in **two separate records**. The first record would contain 5 ABPath MOC Part 2 and SAM credits, as SAM cannot be reported as a stand-alone credit. The second record would contain 15 ABPath MOC Part 2 credits only.

Example 2: Jill Smith attends an activity registered for ABPath MOC Part 2 and SAM. She earns 20 Part 2 credits, and 20 SAM credits. This would be reported in a **single record**, containing two CreditCertificates, one for ABPath MOC Part 2, and the second for ABPath MOC SAM

Example 3: Jill Smith is dual-certified with ABIM and ABP and earns credits for an activity registered for both boards. This would be reported in **two separate records**. The first record would contain the credits earned for ABIM. The second record would contain credits earned for ABP.

Board	Min Occurs	Max Occurs	Accepted activityCertification Values	activityCertification details	Notes
ABA	1	2	*ABA MOCA Part 2* *ABA MOCA Patient Safety**	Each ABA learner record must have one CreditCertificate that includes an activityCertification value of *ABA MOCA Part 2*. To report patient safety credit, include a second CreditCertificate with an activityCertification value of *ABA MOCA Patient Safety*.	***Patient Safety** cannot be submitted on its own. This credit type must be submitted along with *ABA MOCA Part 2.*

Board	Min Occurs	Max Occurs	Accepted activityCertification Values	activityCertification details	Notes
ABIM	1	3	*ABIM MOC* *ABIM MOC Part IV* *ABIM MOC Patient Safety**	Each ABIM record must have one CreditCertificate that includes an activityCertification value of *ABIM MOC* or *ABIM MOC Part IV*. To report ABIM MOC Part IV credit in addition to ABIM MOC, include an additional CreditCertificate with an activityCertification value of *ABIM MOC Part IV*. To report ABIM Patient Safety credit, include an additional CreditCertificate with an activityCertification value of *ABIM MOC Patient Safety*.	**Patient Safety* cannot be submitted on its own. This credit type must be submitted along with *ABIM MOC* and/or *ABIM MOC Part IV.* The language of *ABIM MOC* refers to Part II/Medical Knowledge
ABP	1	1	***ABP MOC Part 2***	Each ABP learner record must have one Credit Certificate that includes an activityCertification of *ABP MOC Part 2.*	
ABPATH	1	3	***ABPATH MOC Part 2*** *ABPATH MOC SAM** *ABPATH MOC Part IV*	Each ABPATH learner record must have one CreditCertificate that includes an activityCertification value of *ABPATH MOC Part 2.* To report ABPATH SAM credit, include an additional CreditCertificate with an activityCertification value of *ABPATH MOC SAM*. To report Improvement in Medical Practice (Part IV), include an additional CreditCertificate with an activityCertification of *ABPATH MOC Part IV*	**SAM and/or PART IV* credit cannot be submitted on its own. This credit type must be submitted along with *ABPATH MOC Part 2*.

Board	Min Occurs	Max Occurs	Accepted activityCertification Values	activityCertification details	Notes
ABOHNS	1	3	***ABOHNS MOC Part II*** *ABOHNS MOC Part IV* *ABOHNS MOC Patient Safety**	Each ABOHNS learner record must have one CreditCertificate that includes an activityCertification value of *ABOHNS MOC Part II.* To report Improvement in Medical Practice (Part IV), include an additional CreditCertificate with an activityCertification of *ABOHNS MOC Part IV*. To report ABOHNS Patient Safety credit, include an additional CreditCertificate with an activityCertification value of *ABOHNS MOC Patient Safety*.	**Patient Safety* cannot be submitted on its own. This credit type must be submitted along with *ABOHNS MOC Part II* and/or *ABOHNS MOC Part IV.*
ABO	1	3	***ABO MOC Part II*** *ABO MOC SAM* *ABO MOC Part IV** *ABO MOC Patient Safety**	Each ABO learner record must have one CreditCertificate that includes an activityCertification value of *ABO MOC Part II.* To report ABO Patient Safety credit, include an additional CreditCertificate with an activityCertification value of *ABO MOC Patient Safety*. To report Improvement in Medical Practice (Part IV), include an additional CreditCertificate with an activityCertification of *ABO MOC Part IV.* To report Self-Assessment (SAM), include an additional CreditCertificate with an activityCertification of *ABO MOC SAM.*	*Records may not include both *Improvement in Medical Practice* and *Patient Safety*. *All *SAM*, *Part IV*, and *Patient Safety* credit types must be submitted along with *ABO MOC Part II.*

Appendix B: XML Sample Records

Following are examples of ACCMELearnerReports records formatted

1) For reporting participant completion of a learner earning ABP MOC Part 2 credits.
2) For reporting participant completion of a learner earning ABA MOCA Part 2 and Patient Safety credits.
3) For reporting participant completion of a learner earning ABIM MOC Part II, Part IV and Patient Safety credits.

(These records contain non-production data; providers will need to supply references to valid activity records in their own account in PARS when reporting data.)

For a full range of examples, the ACCME has a zip file available here containing sample XML files and other technical files to be used for submitting learner completion data for activities registered for MOC. This file contains examples for all currently available specialty boards. This file is useful to support both implementation of the web services and XML batch upload file development.

1) Example of an ACCMELearnerReports file containing a single learner completion record for ABP MOC Part 2

```
<accme:ACCMELearnerReports xsi:schemaLocation="http://www.accme.org/ACCMELearnerReports
    ACCMELearnerReports.xsd">
<ar:ActivityReports>
 <ar:DateTimeCreated>2019-08-01T00:00:00</ar:DateTimeCreated>
<ar:ActivityReport>
 <ar:ReportingOrganization>AAA Test Organization</ar:ReportingOrganization>
<ar:Member>
 <m:UniqueID domain="ABP">1234567</m:UniqueID>
<m:Name>
 <n:GivenName>Jill</n:GivenName>
 <n:FamilyName>Smith</n:FamilyName>
   </m:Name>
<m:PersonalInfo>
 <m:BirthDate>1904-11-20</m:BirthDate>
```

```
    </m:PersonalInfo>
    </ar:Member>
<ar:Activity>
 <ar:ProviderOrganization>1234567</ar:ProviderOrganization>
 <ar:ActivityName>200118847</ar:ActivityName>
<ar:Module>
 <ar:ModuleName moduleID="200118847">Endocrine Update 2019</ar:ModuleName>
 <ar:Status>Completed</ar:Status>
 <ar:CompletedDateTime>2019-07-17T12:15:00</ar:CompletedDateTime>
<ar:CreditCertificate>
<ar:CreditReceived>
 <hx:activityCertification>ABP MOC Part 2</hx:activityCertification>
 <hx:creditUnit>Point</hx:creditUnit>
 <hx:numberOfCredits>5.5</hx:numberOfCredits>
    </ar:CreditReceived>
 <ar:CreditID>ccid:AAATestOrganization.org:1234</ar:CreditID>
    </ar:CreditCertificate>
    </ar:Module>
    </ar:Activity>
<ar:XtensibleInfo>
 <ex:learnerRecordAction>add</ex:learnerRecordAction>
    </ar:XtensibleInfo>
    </ar:ActivityReport>
  </accme:ACCMELearnerReports>
```

2) Example of an ACCMELearnerReports file containing a single learner completion for ABA MOCA Part 2 and Patient Safety credits.

```
<accme:ACCMELearnerReports xsi:schemaLocation="http://www.accme.org/ACCMELearnerReports
    ACCMELearnerReports.xsd">
<ar:ActivityReports>
 <ar:DateTimeCreated>2016-07-30T17:00:00</ar:DateTimeCreated>
<ar:ActivityReport>
 <ar:ReportingOrganization>Western Regional Medical Center</ar:ReportingOrganization>
<ar:Member>
 <m:UniqueID domain="ABA">35817878</m:UniqueID>
<m:Name>
 <n:GivenName>Jill</n:GivenName>
 <n:FamilyName>Smith</n:FamilyName>
   </m:Name>
<m:PersonalInfo>
 <m:BirthDate>1904-11-20</m:BirthDate>
   </m:PersonalInfo>
   </ar:Member>
<ar:Activity>
 <ar:ProviderOrganization>0008001</ar:ProviderOrganization>
 <ar:ActivityName>200654321</ar:ActivityName>
<ar:Module>
 <ar:ModuleName moduleID="200654321">Western Regional Conference 2016</ar:ModuleName>
 <ar:Status>Completed</ar:Status>
 <ar:CompletedDateTime>2016-07-17T12:15:00</ar:CompletedDateTime>
<ar:CreditCertificate>
<ar:CreditReceived>
 <hx:activityCertification>ABA MOCA Part 2</hx:activityCertification>
 <hx:creditUnit>Point</hx:creditUnit>
 <hx:numberOfCredits>10</hx:numberOfCredits>
   </ar:CreditReceived>
 <ar:CreditID>ccid:WesternRegionalMedicalCenter.org:12345</ar:CreditID>
   </ar:CreditCertificate>
```

```
<ar:CreditCertificate>
<ar:CreditReceived>
 <hx:activityCertification>ABA MOCA Patient Safety</hx:activityCertification>
 <hx:creditUnit>Point</hx:creditUnit>
 <hx:numberOfCredits>10</hx:numberOfCredits>
   </ar:CreditReceived>
 <ar:CreditID>ccid:WesternRegionalMedicalCenter.org:12346</ar:CreditID>
   </ar:CreditCertificate>
   </ar:Module>
   </ar:Activity>
<ar:XtensibleInfo>
 <ex:learnerRecordAction>add</ex:learnerRecordAction>
   </ar:XtensibleInfo>
   </ar:ActivityReport>
  </accme:ACCMELearnerReports>
```

3) Example of an ACCMELearnerReports file containing a single learner completion for ABIM MOC Part II, Part IV, and Patient Safety:

```
<accme:ACCMELearnerReports xsi:schemaLocation="http://www.accme.org/ACCMELearnerReports
    ACCMELearnerReports.xsd">
<ar:ActivityReports>
 <ar:DateTimeCreated>2017-03-24T00:00:00</ar:DateTimeCreated>
<ar:ActivityReport>
 <ar:ReportingOrganization>AAA Test Organization</ar:ReportingOrganization>
<ar:Member>
 <m:UniqueID domain="ABIM">999903</m:UniqueID>
<m:Name>
 <n:GivenName>Damon</n:GivenName>
 <n:FamilyName>DeAngelis</n:FamilyName>
   </m:Name>
<m:PersonalInfo>
 <m:BirthDate>1904-10-30</m:BirthDate>
```

```
    </m:PersonalInfo>
    </ar:Member>
<ar:Activity>
 <ar:ProviderOrganization>1234567</ar:ProviderOrganization>
 <ar:ActivityName>200750108</ar:ActivityName>
<ar:Module>
 <ar:ModuleName moduleID="200750108">Internal Medicine Sample Conference Winter 2017</ar:ModuleName>
 <ar:Status>Completed</ar:Status>
 <ar:CompletedDateTime>2017-01-15T16:15:00</ar:CompletedDateTime>
<ar:CreditCertificate>
<ar:CreditReceived>
 <hx:activityCertification>ABIM MOC</hx:activityCertification>
 <hx:creditUnit>Point</hx:creditUnit>
 <hx:numberOfCredits>17.5</hx:numberOfCredits>
    </ar:CreditReceived>
 <ar:CreditID>ccid:AAATest.org:20170110-10</ar:CreditID>
    </ar:CreditCertificate>
<ar:CreditCertificate>
<ar:CreditReceived>
 <hx:activityCertification>ABIM MOC Part IV</hx:activityCertification>
 <hx:creditUnit>Point</hx:creditUnit>
 <hx:numberOfCredits>17.5</hx:numberOfCredits>
    </ar:CreditReceived>
 <ar:CreditID>ccid:AAATest.org:20170110-11</ar:CreditID>
    </ar:CreditCertificate>
<ar:CreditCertificate>
<ar:CreditReceived>
 <hx:activityCertification>ABIM MOC Patient Safety</hx:activityCertification>
 <hx:creditUnit>Point</hx:creditUnit>
 <hx:numberOfCredits>17.5</hx:numberOfCredits>
    </ar:CreditReceived>
 <ar:CreditID>ccid:AAATest.org:20170110-12</ar:CreditID>
```

```
    </ar:CreditCertificate>
    </ar:Module>
    </ar:Activity>
<ar:XtensibleInfo>
 <ex:learnerRecordAction>add</ex:learnerRecordAction>
    </ar:XtensibleInfo>
    </ar:ActivityReport>
    </ar:ActivityReports>
    </accme:ACCMELearnerReports>
```