



# PARS Activity XML File Specification

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## Introduction

XML stands for eXtensible Markup Language. It is a computer language designed to structure and transmit data over the Internet. The Program and Activity Reporting System (PARS) includes a data upload tool that accepts XML files formatted to conform with the Medical Education Metrics (MEMS) XML standard created by the MedBiquitous Consortium. This tool will enable PARS to collect information in a manner that is consistent with the data communications standards being adopted by medical education content providers. Accredited providers whose CME activity tracking systems can export data to XML files may wish to explore this option for transmitting records to PARS.

The purpose of this document is to describe the ACCME's adaptation of MEMS. These instructions are intended for an audience that is familiar with XML, specifically, the information technology staff who support CME departments. It is beyond the scope of these instructions to describe how to create or edit XML files in general, or how to export data from specific CME tracking systems.

The batch upload function in PARS offers providers the ability to add or update multiple activity records from a single file containing data that has been exported from another tracking system. In order to successfully upload data, it is critical that providers properly "map" the necessary data from their system into the file format described in this document. Technical understanding of creating XML-formatted files is assumed.

The PARS XML Activity File Specification is an adaptation of the MEMS standard that has been created by the MedBiquitous Consortium. MEMS in turn incorporates another XML specification, the Healthcare Learning Object Model (Healthcare LOM), which is also published by MedBiquitous. Further information on these specifications can be found at <https://www.medbiq.org/standards>, and it is recommended that implementers review this material in detail.

This document does not define or describe MEMS; rather, it explains how ACCME has extended MEMS and how it will interpret the data fields in a MEMS-conformant data record.

Below is a discussion of several key concepts about the way PARS manages activity records. Understanding these concepts will be helpful throughout your work with the system.

**Adding and Updating activity records:** In a significant change from previous versions of the API, the v3 PARS activity XML record format includes an element for specifying the activity record transaction. Every record must include "Add", "Update", or "Delete". PARS will reject records with transactions that conflict with data in the system such as an "Add" for an activity that already exists, or an "Update" or "Delete" for an activity that cannot be matched given the information included in the record.

**Activity record status:** Another significant change from previous versions of PARS is the use of multiple activity status values. These statuses are briefly described below. This document will detail the data required for an activity record to have the "Active" and subsequent statuses. Note that the "Closed" status is intended to indicate that the activity has been completed and that all information in PARS for it is final. Once an activity record is set to "Closed", PARS will not accept further record transactions for that activity. The "Closed" status requires an explicit indication to be sent to PARS.

**DRAFT:** A draft activity is generally an activity that is not yet available to learners, or that does not have enough information provided in PARS to be considered active.

**ACTIVE:** As long as the end date of the activity is not in the past, and if all required fields have been entered, the activity will have Active status.

**READY TO CLOSE:** Once the end date of an activity is in the past, and if all fields have been entered, the activity status changes automatically to Ready to Close status. At this point, you can enter your final total learner counts and provide final details around commercial support and close your activity.



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**CLOSED:** Once all required fields are complete and you have updated your total learner counts, you will actively change the status of your activities to Closed. The system does not do this, since it doesn't know when your learner counts and other details are final. You will be able to set activities to closed status individually, in bulk manually by selecting the applicable activities or via any of the batch or web services methods.

**Program Summary:** The ACCME requires that providers complete an annual Program Summary, which summarizes programmatic income for the year. The Program Summary cannot be completed using batch upload or API functionality, and must be manually completed in PARS.

**Maintenance of Certification:** Accredited CME providers have the option to register activities for those certifying boards participating in CME in support of MOC using the PARS XML batch upload process. Activities being registered for MOC must fulfill the requirements for the given board's MOC program. Information about CME in support of MOC, including links to each board's requirements, is available at <http://www.accme.org/cme-support-moc>. Further information about formatting XML activity record to include MOC data can be found in [Appendix D](#).

## Version History

Version	Date	Notes
2.0	11/16/2021	Updated document to detail the new PARS v3 XML record format.
1.3	05/20/2020	Updated ABPath practice area selections
1.2	04/23/2020	-Allowed uploads listing both ACCME Activity ID and Provider Activity ID to be accepted by PARS -Removed restrictions to allow ABO activities to be registered for both Improvement in Medical Practice and Patient Safety
1.1	08/13/2019	Combined Activity XML File Specifications for registering activities in PARS to include MOC/CC registration for ABIM, ABP, ABA, ABPath, ABOHNS, and ABO into a single document.



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## XML File Specification Details

This document is a guide for those who wish to upload activities to PARS using XML-formatted data. This document explains ACCME's usage and customization of the **Medbiquitous MEMS** and **Healthcare LOM** standards and specific ACCME business rules and requirements.

Some key points:

1. ACCME did not change the format or structure of the Medbiquitous [MEMS](#), except for 1) the addition of a new super root element called ACCMEActivities, 2) the ACCME customization of the [XtensibleInfo](#) element to collect data for PARS-specific purposes, and 3) the uniqueElementName attribute is necessary for healthcare metadata.
2. Any rules specified in the **ACCME Business Rules** column will be validated by PARS during the XML file upload process. These rules will not be enforced through the use of the Medbiquitous XSD templates.
3. This specification only includes the data elements that will be captured and uploaded by ACCME into PARS. For complete documentation on all data elements that are supported by the Medbiquitous standard, please refer to the Medbiquitous website <https://www.medbig.org/standards>.
4. Any data elements present in the XML file that are not used by ACCME must still conform to the structure and rules specified in the Medbiquitous XSD template. However, ACCME will not capture and upload this data into PARS.
5. For Boolean types, only lowercase "true" and "false" are accepted as validly formatted.

### ACCME Activities

ACCMEActivities is a new super root element for the MedicalEducationMetrics element. This super root element was created by ACCME to allow more than 1 MedicalEducationMetrics element to be contained within a single XML file.

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration	ACCME Business Rules
<b>ACCMEActivities</b>	Super root element that contains 1 or more instances of MedicalEducationMetrics.	1	1	complex	-	-
<b>MedicalEducationMetrics</b>	Medbiquitous-defined container element for each activity. ACCME allows more than one to occur within the ACCMEActivities container. Refer to <a href="#">medicalEducationMetrics</a> for sub-elements within this container.	1	Unbounded	MedicalEducationMetricstype	-	-



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### MedicalEducationMetrics

ACCME did not change the XSD template for this element. Any special ACCME data rules will be enforced by the ACCME Program and Activity Reporting System file upload process, not via the XSD template.

Element Name	Description	ACCME Business Rules
<b>MedicalEducationMetrics</b>	Container element for each activity. ACCME allows more than one to occur within the ACCMEMedicalEducationMetrics container.	-
<b>ReportDescription</b>	Container element	-
ReportingStartDate	First day of the reporting period for the metrics described for the activity. For ACCME, this is expected to be January 1 <sup>st</sup> of the activity reporting year.	-ACCME will ignore the date portion of <i>ReportingStartDate</i> ; the ACCME system will only import the Year portion -The period covered by the ReportingStartDate and ReportingEndDate should reflect the year(s) the activity will be offered for CME and have learners reported. - -
ReportingEndDate	Last day of the reporting period for the metrics described for the activity. For ACCME, this is expected to be December 31 <sup>st</sup> of the activity reporting year.	-ACCME will ignore the date portion of <i>ReportingEndDate</i> ;
<b>ActivityDescription</b>	Container element. Refer to <a href="#">ActivityDescription</a> for sub-elements within this container	-
<b>Lom</b>	Container element. Refer to <a href="#">lom</a> for sub-elements within this container	-
<b>healthcareMetadata</b>	Container element Healthcare Learning Object Metadata Standard.	-
<b>healthcareEducation</b>	Container element. Refer to <a href="#">healthcareEducation</a> for sub-elements within this container.	-
<b>ParticipationMetrics</b>	Container element. Refer to <a href="#">participationMetrics</a> for sub-elements within this container.	-
<b>XtensibleInfo</b>	Container element that contains ACCME-specific data elements. Refer to <a href="#">XtensibleInfo</a> for sub-elements within this container.	-



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### ActivityDescription

ACCME did not change the XSD template for this element. Any special ACCME data rules will be enforced by the ACCME Program and Activity Reporting System file upload process, not via the XSD template.

Element Name	Description	ACCME Business Rules
<b>ActivityDescription</b>	Container element	-
<b>Lom</b>	Container element. Refer to <a href="#">lom</a> for sub-elements within this container	-
commercialSupportAmount	<p>Indicates the amount of commercial support received from a single source. This amount must be a whole number (no decimal values allowed).</p> <p>This sub-element has the following attributes:</p> <ol style="list-style-type: none"> <li><i>currency</i> – Currency of the amount indicated.</li> <li><i>supportSource</i>- Organization that is the source of commercial support.</li> </ol>	<p>-ACCME is interested in commercial support amounts in USD currency only. All other income specified in non-USD currencies will be ignored.</p> <p>-Include a separate instance of this element for each source of monetary commercial support</p> <p>-ACCME expects a USD currency amount <math>\geq 0</math>.</p> <p>- See <a href="#">Appendix G</a> for a list of commercial support source names.</p>

### Lom

ACCME did not change the XSD template for this element. Any special ACCME data rules will be enforced by PARS file upload process, not via the XSD template.

Element Name	Description	ACCME Business Rules
<b>Lom</b>	Container element. This element is from the IEEE Learning Object Model (LOM) standard.	-
<b>healthcareMetadata</b>	Container element Healthcare Learning Object Metadata Standard.	-
<b>general</b>	Container element.	-
<b>identifier</b>	Container element.	<p>-ACCME requires at least 2 <i>identifier</i> elements per activity.</p> <p>- "Provider Activity ID" must be used when adding a new activity record. Provider Activity ID" should be an internal identifier that your system assigns to uniquely identify an activity. Either "Provider Activity ID" or "ACCME Activity ID" or both can be used when updating an existing activity record.</p> <p>- "URL" is required for an activity to have the status of "active"..</p> <p>- "ACCME Activity ID" is assigned by PARS. It can be included for updating or deleting an existing activity record.</p>
Catalog	Type of unique identifier.	-



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Element Name	Description	ACCME Business Rules
Entry	Unique identifier for the activity.	<ul style="list-style-type: none"> <li>- If catalog = "ACCME Activity ID", it is assumed that <i>entry</i> is unique in the entire system.</li> <li>- If catalog = "Provider Activity ID", it is assumed that <i>entry</i> is unique within the provider organization.</li> <li>- If catalog = "URL", the entry should be the full web address for a page with information about the CME activity, or the web page for the accredited CME provider or its parent organization, if the activity does not have an individual URL. The URL value does not need to be unique for each activity record.</li> </ul>
title	Name of the learning activity.	-
description	Description of the content of the activity.	-Maximum characters allowed is 2500.
keyword	Element for collecting the MOCA Content Outline data. For the list of ABA MOCA Content Outline entries, please visit <a href="http://www.theaba.org/PDFs/MOCA/MOCAContentOutline">http://www.theaba.org/PDFs/MOCA/MOCAContentOutline</a> or <a href="https://www.accme.org/publications/aba-moca-excel-content-outline">https://www.accme.org/publications/aba-moca-excel-content-outline</a>	<p><b>This element and corresponding sub-elements are only used when registering an activity for ABA MOCA.</b></p> <p>-Either one or two Content Outline entries are required for activities registered for MOCA. Each Content Outline selection requires three separate keyword elements in the XML record, one each with the id values "Level 3 ID", "Tag ID", and "Free Text". All three keyword elements must appear for each Content Outline entry.</p>
id	Attribute used to designate the portion of the Content Outline entry included in this keyword.	<p>- "Level 3 ID": the string value for the keyword with this id is the level 3 identifier number for the MOCA Content Outline entry. - "Tag ID": the string value for the keyword with this id is the tag identifier number for the MOCA Content Outline entry. Reporting a tag is optional, but a keyword for "Tag ID" must be included. The string value is left blank if no tag is reported. - "Free Text": the string value for the keyword with this id is the brief text description of the educational content. The string value is left blank if free text is not being reported.</p>
source	Attribute used to indicate the Content Outline selection to which this keyword belongs.	<p>- "01_ABAMCO" for the three keywords associated with the first Content Outline selection.</p> <p>- "02_ABAMCO" for the three keywords associated with a second Content Outline selection.</p>
string	Attribute of keyword.	-Values to include for each keyword vary, please see the description of the id attribute above.



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### HealthcareEducation

ACCME did not change the XSD template for this element. Any special ACCME data rules will be enforced by the ACCME Program and Activity Reporting System file upload process, not via the XSD template.

Element Name	Description	ACCME Business Rules
<b>healthcareEducation</b>	Contains healthcare specific metadata for educational offerings.	-
<b>credits</b>	Container element.	-
nonAccreditedProvider	The educational provider for this activity that is not the accredited provider. Jointly provided activities have a non-accredited provider. Repeat instances of this element for activities that have multiple joint providers.	-If an activity is jointly provided (has an <i>activitySponsorship</i> value of "joint"), include a separate <i>nonAccreditedProvider</i> element for each joint provider.
activityCertification	Identifies the category of credit awarded for the activity by the accredited medical education organization.	-Use the value "AMA PRA Category 1" for activities that are accredited to offer AMA PRA Category 1 credits for physician learners.
numberOfCredits	Number of continuing education credits associated with the activity.	-
<b>activityLocation</b>	Indicates geographical location where an in-person activity takes place.	-
city	Indicates city where in-person activity takes place.	-Check that city is present depending on the <i>activityFormat</i> value.
stateorprovince	Indicates state where in-person activity takes place.	-Check that stateorprovince is present depending on the <i>activityFormat</i> value. -If <i>country</i> is the USA, check that state is a valid two-letter state.
country	Indicates country where in-person activity takes place.	-The country should be a valid 3-letter country code. See <a href="#">Appendix C</a> for a list of country codes.
startDateTime	Indicates the date and time an activity begins.	-ACCME will ignore the time portion of <i>startDateTime</i> .  <b>Note:</b> startDateTime value must include BOTH the date and time components even though the ACCME upload process ignores the time portion of the value. Example: 2021-08-30T00:00:00.





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Element Name	Description	ACCME Business Rules
endDateTime	Indicates the date and time an activity ends, or is no longer available for use by learners.	<p>-ACCME will ignore the time portion of endDateTime,</p> <p><b>Note:</b> endDateTime value must include BOTH the date and time components even though the ACCME upload process ignores the time portion of the value. Example: 2021-08-31T00:00:00</p>
activitySponsorship	Providership. Valid values are "direct" or "joint".	<p>-Definition: A directly provided activity is planned, implemented and evaluated by the accredited provider. Include co-provided activities (provided by two accredited providers) in this category if you are the accredited provider awarding the credit. In contrast, a jointly provided activity is one that is planned, implemented and evaluated by the accredited provider and one or more non-accredited entities.</p>
activityFormat	<p>Indicates the type of learning activity.</p> <p>ACCME expects that the activityFormat value used is one of the recognized ACCME activity types.</p>	<p>-<i>activityFormat</i> instances where the activity type value is NOT one of the recognized ACCME types will be IGNORED and the entire activity record will NOT be processed by PARS.</p> <p>-The system will check for a recognized activity types (also see <a href="#">Appendix B</a>):</p> <ul style="list-style-type: none"> <li>Live Course</li> <li>Regularly Scheduled Series</li> <li>Enduring Material</li> <li>Journal CME/CE</li> <li>Manuscript Review</li> <li>Test-Item Writing</li> <li>Committee Learning</li> <li>Performance/Quality Improvement</li> <li>Internet Searching and Learning</li> <li>Learning from Teaching</li> <li>Other/Blended Learning</li> </ul> <p>Note: not all activity types are eligible for MOC for every board. See each board's requirements for MOC at <a href="http://accme.org/cme-support-moc">http://accme.org/cme-support-moc</a>.</p>



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Element Name	Description	ACCME Business Rules
commercialSupport	Indicates the existence of commercial support from a manufacturer of a commercial product.  NOTE: Use the <a href="#">activityDescription.commercialSupportAmount</a> sub-element to specify commercial support source and amount for an activity.	
targetAudience	Container element for listing the medical practice specialties for which the activity content is relevant.	-The <i>targetAudience</i> element and at least one specialty sub-element are required only if the activity is being registered for MOC.
specialty	Name of a specialty for which the activity content is relevant.	<b><i>This element is required for MOC activity registration.</i></b>  The list of valid specialties for MOC registration appears in <a href="#">Appendix E</a> .

### ParticipationMetrics

ACCME did not change the XSD template for this element. Any special ACCME data rules will be enforced by the ACCME Program and Activity Reporting System file upload process, not via the XSD template.

Element Name	Description	ACCME Business Rules
participationMetrics	Container element.	-
participantsByCategory	Defines the number of participants by category. The XSD file allows 0 or more participantsByCategory elements.  This sub-element has the following attributes: 1. <i>category</i> -Indicates the participant category described.	-System will only capture the first occurrences of this element for the “physician” and “non-physician” categories. The system will ignore all successive occurrences of “physician” and “non-physician” categories.  -The “physician” category definition: the number of MD’s and DO’s that participated in the activity. Residents are included in this category.  -The “non-physician” (now known as “Other Learners”) category definition: the number of participants other than MD’s or DO’s, such as nurses, physician assistants, and other health professionals. Do not include residents in this category.  -Participant totals >0 may not be reported if the activity start date is in the future.



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### XtensibleInfo

ACCME extended the XtensibleInfo element to include fields for data that ACCME wants to capture, but are not part of the Medbiquitous standard.

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	ACCME Business Rules
<b>XtensibleInfo</b>	Container element.	0	1	Container	-	-
<b>CommendationTags</b>	Container element	0	1	Container		For optional use by CME providers.
<b>CommendationTag</b>	Indicates a commendation criterion for which the provider may choose to use this activity as an example.	1	Unbounded	Text	<ul style="list-style-type: none"> <li>- Engages Teams</li> <li>- Engages Patients/Public</li> <li>- Engages Students</li> <li>- Advances Data Use</li> <li>- Addresses Population Health</li> <li>- Collaborates Effectively</li> <li>- Optimizes Communication Skills</li> <li>- Optimizes Technical/Procedural Skills</li> <li>- Creates Individualized Learning Plans</li> <li>- Utilizes Support Strategies</li> <li>- Improves Performance</li> <li>- Improves Healthcare Quality</li> <li>- Improves Patient/Community Health</li> </ul>	If the <i>CommendationTags</i> container is present, at least one <i>CommendationTag</i> element is required.
<b>InKindSupports</b>	Container element for in kind support data.	0	1	Container	-	-
<b>InKindSupport</b>	This sub-element has the following attributes: 1. <i>Source</i> - Source of commercial support.	1	unbounded	Boolean	true, false	Include a separate instance for each source of in-kind <a href="#">commercial support</a> .
<b>DeliveryMethods</b>	Container element for listing DeliveryMethods	0	1	Container	-	-



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Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	ACCME Business Rules
<b>DeliveryMethod</b>	Describes the instructional delivery method for certain types of activities	1	2	Text	Valid options for Live Course or Regularly Scheduled Series format activities: <ul style="list-style-type: none"> <li>- In-Person</li> <li>- Live-Streamed</li> </ul> For Enduring Material format activities: <ul style="list-style-type: none"> <li>- Online</li> <li>- Print/Other</li> </ul>	If the <i>DeliveryMethods</i> container is present, at least one <i>DeliveryMethod</i> element must be included.
<b>MeasuredOutcomes</b>	Container element for MeasuredOutcome elements	0	unbounded	Container		Include a separate MeasuredOutcomes element for each MeasuredOutcome element
<b>MeasuredOutcome</b>	Describes the intended outcomes for the activity	1	1	String	Valid options are: <ul style="list-style-type: none"> <li>- Learner Competence</li> <li>- Learner Performance</li> <li>- Patient Health</li> <li>- Community Health</li> <li>- Learner Knowledge</li> </ul>	Include only one MeasuredOutcome per MeasuredOutcomes container.
<b>MeasurementType</b>	Describes how the activity outcomes are measured	1	2	String	Valid options are: <ul style="list-style-type: none"> <li>- Objective</li> <li>- Subjective</li> </ul>	
<b>MOCRegistrations</b>	Container element for one or more maintenance of certification registrations.	0	1	Container	-	Optional; not required for activity registration, but required for activity to be registered for MOC.
MOCRegistration	Container element.	0	unbounded	Container	-	One per certifying board. Include one <i>MOCRegistration</i> element for each certifying board for which MOC will be offered.
boardName	Indicates name of the specialty board for which the MOC is being registered.	0	1	Text	ABA, ABIM, ABO, ABOHNS, ABP, ABPATH, ABS	Must be a board currently accepting activities registered in PARS.



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Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	ACCME Business Rules
mocPoints	Indicates the number of MOC points for which the activity is registered.	0	1	Decimal	=> 0.25	
MOCCreditType	Indicates the board MOC categories for which the activity is registered	0	Unbounded	String	Varies by certifying board	Business rules for MOC credit types vary by board. Refer to <a href="#">Appendix F</a> for a list of MOC credit types by board.
CreditClaimDate	The cut-off date for participants to request credit for completing the activity.	0	1	Date/time	YYYY-MM-DDT00:00:00	PARS will not accept records with completion dates after the listed credit claim date. PARS will ignore the time portion of the date/time value.
ForPublicList	Indicates whether this activity is to be included in the published list of activities made available to physicians	0	1	Boolean	true, false	
FeeForParticipation	Indicates whether a fee is associated with learner participation in the CME activity.	0	1	String	Yes No, it's free Variable	
ActivityRegistration	Indicates whether the activity is available to all potential learners or if participation is limited (e.g., to staff of the CME provider's institution).	0	1	String	Open to all, Limited	
IsMeritBasedIncentivePayment System	Indicates whether the activity qualifies for MIPS	0	1	Boolean	true, false	
REMS	Container element for REMS information	0	1	Container		Include only if the activity is designated for instruction on an FDA Risk Evaluation and Mitigation Strategy program.
REMSType	Indicates which REMS the activity content addresses	0	1	String	Opioid Analgesic, Mycophenoalate	



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Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	ACCME Business Rules
REMSRelatedIdentifier	For reporting of special grant identifiers related to this REMS designation	0	1	String		Use the RPC ID formatted as EG-#####-####.
activityRecordAction	The intended transaction type for this activity record.	1	1	String	Add, Update, Delete	
closeActivityRecord	Indicates whether this activity record transaction includes final information about the activity.	1	1	Boolean	true, false	A value of "true" for this field will preclude further updates to the activity record. Activities must have an end date in the past and all activity information completed for a value of "true" to successfully validate.



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## Appendices

### A: Saving and closing Activities

The table below provides details on the data the PARS System requires for submitting an activity record and for closing an activity record. A closed activity record cannot be edited further.

Field Name	Data is Required in Field:	
	To save Active record	To close out activity record
<a href="#">ReportingStartDate</a>	Yes	Yes
<a href="#">ReportingEndDate</a>	Yes <i>Note: This field is required by the MedicalEducationMetrics specification, but it will not be displayed on the PARS system.</i>	Yes <i>Note: This field is required by the MedicalEducationMetrics specification, but it will not be displayed on the PARS system.</i>
<a href="#">identifier</a>	Yes	Yes
<a href="#">title</a>	Yes	Yes
<a href="#">startDateTime</a>	Yes	Yes
<a href="#">endDateTime</a>	Yes	Yes
<a href="#">city</a>	Required if the ActivityFormat is one of the following: <ul style="list-style-type: none"> <li>- Live Course</li> <li>- Regularly Scheduled Series and DeliveryMethod is "In-Person"</li> </ul> For other ActivityFormats data should not be entered	Required if the ActivityFormat is one of the following: <ul style="list-style-type: none"> <li>- Live Course</li> <li>- Regularly Scheduled Series and DeliveryMethod is "In-Person"</li> </ul> For other ActivityFormats data should not be entered
<a href="#">stateorprovince</a>	Required if country is USA and the ActivityFormat is one of the following: <ul style="list-style-type: none"> <li>• Live Course</li> <li>• Regularly Scheduled Series and DeliveryMethod is "In-Person"</li> </ul> For other ActivityFormats data should not be entered	Required if country is USA and the ActivityFormat is one of the following: <ul style="list-style-type: none"> <li>• Live Course</li> <li>• Regularly Scheduled Series and DeliveryMethod is "In-Person"</li> </ul> For other ActivityFormats data should not be entered
<a href="#">country</a>	Required if the ActivityFormat is one of the following: <ul style="list-style-type: none"> <li>- Live Course</li> <li>- Regularly Scheduled Series and DeliveryMethod is "In-Person"</li> </ul> For other ActivityFormats data should not be entered	Required if the ActivityFormat is one of the following: <ul style="list-style-type: none"> <li>- Live Course</li> <li>- Regularly Scheduled Series and DeliveryMethod is "In-Person"</li> </ul> For other ActivityFormats data should not be entered
<a href="#">activitySponsorship</a>	Yes	Yes <i>(Note: "sponsorship" is now displayed on the PARS system as "providership")</i>
<a href="#">activityFormat</a>	Yes	Yes
<a href="#">participantsByCategory</a>	No	Yes, the system requires data for one category of "physician" and one category of "non-physician"



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Field Name	Data is Required in Field:	
	To save Active record	To close out activity record
		<i>(Note: "non-physician" is now displayed on the PARS system as "other learners")</i>
<a href="#">commercialSupport</a>	No	Yes
<a href="#">nonAccreditedProvider</a>	No	If the activitySponsorship field is "joint", then this field is required. If the activitySponsorship field is "direct" or not entered, then no data should be entered in this field.
<a href="#">credits</a>	Yes	Yes
<a href="#">description</a>	Yes	Yes
<a href="#">commercialSupportAmount</a>	No	If commercialSupport is "Yes", then each commercial support source should have a value entered in this field. If commercialSupport is "No", then no data should be entered in this field.
<a href="#">MeasuredOutcomes</a>	No	Yes (at least one)
<a href="#">CreditClaimDate</a>	No	No (Yes, if the activity is an MOC activity)
<a href="#">ForPublicList</a>	No	Yes
<a href="#">FeeForParticipation</a>	No	No (Yes, if ForPublicList is set to true)
<a href="#">ActivityRegistration</a>	No	No (Yes, if ForPublicList is set to true)
<a href="#">IsMeritBasedIncentivePaymentSystem</a>	No	No
<a href="#">REMS</a>	No	No (Yes, if the activity is a REMS activity; For REMS activities, REMSType and REMSRelatedIdentifier fields also required.)
<a href="#">ActivityRecordAction</a>	Yes	Yes
<a href="#">CloseActivityRecord</a>	No	Yes (must be "True" to indicate that the activity record submission is intended to close the activity record.)





## PARS Activity XML File Specification

### B: ACCME Activity Types and Delivery Method Types

These Activity Types and Delivery Method Categories are the valid combinations for use in the activityFormat and DeliveryMethod elements.

<b>Activity Type</b>	<b>Delivery Method</b>
Live Course	In-Person, Live-Streamed
Regularly Scheduled Series	In-Person, Live-Streamed
Enduring Material	Online, Print/Other
Journal CME/CE	Not applicable
Manuscript Review	Not applicable
Test-Item Writing	Not applicable
Committee Learning	Not applicable
Performance/Quality Improvement	Not applicable
Internet Searching and Learning	Not applicable
Learning from Teaching	Not applicable
Other/Blended Learning	Not applicable



# PARS Activity XML File Specification

## C: List of Country Codes

Below is a list of the 3-letter country codes for the [country](#) element.

*Note: Please see the [U.S. Territories / Regions](#) section for information regarding U.S. territory / region processing*

Country	Code
Afghanistan	AFG
Åland Islands	ALA
Albania	ALB
Algeria	DZA
American Samoa	ASM
Andorra	AND
Angola	AGO
Anguilla	AIA
Antarctica	ATA
Antigua and Barbuda	ATG
Argentina	ARG
Armenia	ARM
Aruba	ABW
Australia	AUS
Austria	AUT
Azerbaijan	AZE
Bahamas	BHS
Bahrain	BHR
Bangladesh	BGD
Barbados	BRB
Belarus	BLR
Belgium	BEL
Belize	BLZ
Benin	BEN
Bermuda	BMU
Bhutan	BTN
Bolivia (Plurinational State of)	BOL
Bonaire, Sint Eustatius and Saba	BES
Bosnia and Herzegovina	BIH
Botswana	BWA
Bouvet Island	BVT
Brazil	BRA
British Indian Ocean Territory	IOT
British Virgin Islands	VGB
Brunei Darussalam	BRN
Bulgaria	BGR
Burkina Faso	BFA
Burundi	BDI
Cabo Verde	CPV
Cambodia	KHM
Cameroon	CMR
Canada	CAN
Cayman Islands	CYM
Central African Republic	CAF
Chad	TCD

Country	Code
Chile	CHL
China	CHN
China, Hong Kong Special Administrative Region	HKG
China, Macao Special Administrative Region	MAC
Christmas Island	CXR
Cocos (Keeling) Islands	CCK
Colombia	COL
Comoros	COM
Congo	COG
Cook Islands	COK
Costa Rica	CRI
Côte d'Ivoire	CIV
Croatia	HRV
Cuba	CUB
Curaçao	CUW
Cyprus	CYP
Czechia	CZE
Democratic People's Republic of Korea	PRK
Democratic Republic of the Congo	COD
Denmark	DNK
Djibouti	DJI
Dominica	DMA
Dominican Republic	DOM
Ecuador	ECU
Egypt	EGY
El Salvador	SLV
Equatorial Guinea	GNQ
Eritrea	ERI
Estonia	EST
Eswatini	SWZ
Ethiopia	ETH
Falkland Islands (Malvinas)	FLK
Faroe Islands	FRO
Fiji	FJI
Finland	FIN
France	FRA
French Guiana	GUF
French Polynesia	PYF
French Southern Territories	ATF
Gabon	GAB
Gambia	GMB
Georgia	GEO
Germany	DEU
Ghana	GHA
Gibraltar	GIB



## PARS Activity XML File Specification

Country	Code
Greece	GRC
Greenland	GRL
Grenada	GRD
Guadeloupe	GLP
Guam	GUM
Guatemala	GTM
Guernsey	GGY
Guinea	GIN
Guinea-Bissau	GNB
Guyana	GUY
Haiti	HTI
Heard Island and McDonald Islands	HMD
Holy See	VAT
Honduras	HND
Hungary	HUN
Iceland	ISL
India	IND
Indonesia	IDN
Iran (Islamic Republic of)	IRN
Iraq	IRQ
Ireland	IRL
Isle of Man	IMN
Israel	ISR
Italy	ITA
Jamaica	JAM
Japan	JPN
Jersey	JEY
Jordan	JOR
Kazakhstan	KAZ
Kenya	KEN
Kiribati	KIR
Kuwait	KWT
Kyrgyzstan	KGZ
Lao People's Democratic Republic	LAO
Latvia	LVA
Lebanon	LBN
Lesotho	LSO
Liberia	LBR
Libya	LBY
Liechtenstein	LIE
Lithuania	LTU
Luxembourg	LUX
Madagascar	MDG
Malawi	MWI
Malaysia	MYS
Maldives	MDV
Mali	MLI
Malta	MLT
Marshall Islands	MHL
Martinique	MTQ

Country	Code
Mauritania	MRT
Mauritius	MUS
Mayotte	MYT
Mexico	MEX
Micronesia (Federated States of)	FSM
Monaco	MCO
Mongolia	MNG
Montenegro	MNE
Montserrat	MSR
Morocco	MAR
Mozambique	MOZ
Myanmar	MMR
Namibia	NAM
Nauru	NRU
Nepal	NPL
Netherlands	NLD
New Caledonia	NCL
New Zealand	NZL
Nicaragua	NIC
Niger	NER
Nigeria	NGA
Niue	NIU
Norfolk Island	NFK
North Macedonia	MKD
Northern Mariana Islands	MNP
Norway	NOR
Oman	OMN
Pakistan	PAK
Palau	PLW
Panama	PAN
Papua New Guinea	PNG
Paraguay	PRY
Peru	PER
Philippines	PHL
Pitcairn	PCN
Poland	POL
Portugal	PRT
Puerto Rico	PRI
Qatar	QAT
Republic of Korea	KOR
Republic of Moldova	MDA
Réunion	REU
Romania	ROU
Russian Federation	RUS
Rwanda	RWA
Saint Barthélemy	BLM
Saint Helena	SHN
Saint Kitts and Nevis	KNA
Saint Lucia	LCA
Saint Martin (French Part)	MAF



## PARS Activity XML File Specification

Country	Code
Saint Pierre and Miquelon	SPM
Saint Vincent and the Grenadines	VCT
Samoa	WSM
San Marino	SMR
Sao Tome and Principe	STP
Saudi Arabia	SAU
Senegal	SEN
Serbia	SRB
Seychelles	SYC
Sierra Leone	SLE
Singapore	SGP
Sint Maarten (Dutch part)	SXM
Slovakia	SVK
Slovenia	SVN
Solomon Islands	SLB
Somalia	SOM
South Africa	ZAF
South Georgia and the South Sandwich Islands	SGS
South Sudan	SSD
Spain	ESP
Sri Lanka	LKA
State of Palestine	PSE
Sudan	SDN
Suriname	SUR
Svalbard and Jan Mayen Islands	SJM
Sweden	SWE
Switzerland	CHE
Syrian Arab Republic	SYR
Tajikistan	TJK

Country	Code
Thailand	THA
Timor-Leste	TLS
Togo	TGO
Tokelau	TKL
Tonga	TON
Trinidad and Tobago	TTO
Tunisia	TUN
Turkey	TUR
Turkmenistan	TKM
Turks and Caicos Islands	TCA
Tuvalu	TUV
Uganda	UGA
Ukraine	UKR
United Arab Emirates	ARE
United Kingdom of Great Britain and Northern Ireland	GBR
United Republic of Tanzania	TZA
United States Minor Outlying Islands	UMI
United States of America	USA
United States Virgin Islands	VIR
Uruguay	URY
Uzbekistan	UZB
Vanuatu	VUT
Venezuela (Bolivarian Republic of)	VEN
Viet Nam	VNM
Wallis and Futuna Islands	WLF
Western Sahara	ESH
Yemen	YEM
Zambia	ZMB
Zimbabwe	ZWE

Source: United Nations, October 15, 2021 list. <https://unstats.un.org/unsd/methodology/m49/>

### **U.S. Territories / Regions:**

For the following U.S. territories/regions, the country code of USA within the [country](#) element should be used along with the applicable U.S. State abbreviation within the [stateorprovince](#) element.

Country	Country Code	U.S State Abbreviation
American Samoa	USA	AS
Federated States of Micronesia	USA	FM
Guam	USA	GU
Marshall Islands	USA	MH
Northern Mariana Islands	USA	MP
Puerto Rico	USA	PR
Palau	USA	PW
U.S. Virgin Islands	USA	VI



## PARS Activity XML File Specification

### D: Registering an Activity for Maintenance of Certification (MOC)/Continuing Certification (CC)

Accredited CME providers can register activities for a participating board's Maintenance of Certification (MOC)/Continuing Certification (CC) program using the PARS XML batch upload process, as long as they meet the requirements outlined in the board's program guide. Complete information about CME for MOC and links to each board's program guide is available at <http://accme.org/cme-support-moc>.

Registering an activity for MOC is optional for the provider. If an activity is not being registered for MOC, then the MOC fields cannot be included in the activity record.

Some activity types cannot be registered for specific boards. Acceptable activity types are listed in each board's program guide accessible through [the ACCME website](#).

The fields below must be present in the XML for each activity that is being registered for MOC.

- a. LOM
  - i. **identifier**: an additional identifier element of container type "URL" is required for reporting an activity URL.
- b. Healthcare Education
  - i. **targetAudience** must contain at least one "specialty" element
  - ii. **endDateTime** is required
- c. Extensible Information
  - i. **MOCRegistrations** must contain at least one "MOCRegistration" element
  - ii. **MOCRegistration** must contain:
    1. **specialtyBoard** with the name of a valid specialty board (valid specialty boards are: ABA, ABIM, ABO, ABOHNS, ABP, ABPATH, ABS)
    2. **mocPoints** with a number of at least 0.25 representing the number of MOC points.
    3. At least one **MOCcreditType** with the value of valid credit type for the specialty board (listed in [Appendix F](#)).
  - iii. **FeeForParticipation** must be included
  - iv. **ActivityRegistration** must be included



# PARS Activity XML File Specification

## E: MOC specialties by board

### American Board of Internal Medicine (ABIM) list of specialties

These values are used in the specialty sub-element when reporting activities registered for ABIM MOC.

Specialty
Adolescent Medicine
Adult Congenital Heart Disease
Advanced Heart Failure and Transplant Cardiology
Cardiovascular Disease
Clinical Cardiac Electrophysiology
Critical Care Medicine
Endocrinology, Diabetes, and Metabolism
Gastroenterology
Geriatric Medicine
Hematology
Hospice and Palliative Medicine
Hospital Medicine
Infectious Disease
Internal Medicine
Interventional Cardiology
Medical Oncology
Nephrology
Pulmonary Disease
Rheumatology
Sleep Medicine
Sports Medicine
Transplant Hepatology

### American Board of Anesthesiology (ABA) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABA MOCA.

Specialty
Ambulatory/Outpatient
Cardiac Anesthesia
Critical Care Medicine
General Operative Anesthesia
Hospice and Palliative Medicine
Neuro Anesthesia
Obstetric Anesthesia
Pain Medicine
Pediatric Anesthesia
Regional Anesthesia/Acute Pain
Sleep Medicine
Thoracic Anesthesia
Trauma

### American Board of Pediatrics (ABP) list of interest areas

These values are used in the specialty sub-element when reporting activities registered for ABP MOC.

Specialty
Adolescent Medicine
Child Abuse Pediatrics
Clinical Informatics
Developmental-Behavioral Pediatrics
General Pediatrics
Hospice & Palliative Medicine
Hospital Medicine
Medical Toxicology
Neonatal-Perinatal Medicine



## PARS Activity XML File Specification

Specialty
Neurodevelopmental Disabilities
Pediatric Cardiology
Pediatric Critical Care Medicine
Pediatric Emergency Medicine
Pediatric Endocrinology
Pediatric Gastroenterology
Pediatric Hematology-Oncology
Pediatric Infectious Diseases
Pediatric Nephrology
Pediatric Neurology
Pediatric Pulmonology
Pediatric Rheumatology
Pediatric Transplant Hepatology
Professionalism/Patient Safety/Other Skills
Sleep Medicine
Sports Medicine

### American Board of Ophthalmology (ABO) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABO MOC

Practice Areas
Comprehensive/General Ophthalmology
Cataract/Anterior Segment
Cornea/External Disease
Glaucoma
Neuro-Ophthalmology and Orbit
Oculoplastics and Orbit
Oncology
Pathology
Pediatric Ophthalmology/Strabismus
Retina/Vitreous
Refractive Management/Intervention
Uveitis
All Practice Areas

### American Board of Otolaryngology-Head & Neck Surgery (ABOHNS) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABOHNS MOC

Practice Areas
Allergy
Facial Plastic & Reconstructive Surgery
Head & Neck
Laryngology
Otology
Neurotology
Pediatric Otolaryngology
Rhinology
Sleep Medicine
General Otolaryngology

### American Board of Pathology (ABPath) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABPath CC

Practice Areas
All Practice Areas (e.g. ethics)
Blood Bank/ Transfusion Medicine
Breast
Cardiovascular
Chemical Pathology



## PARS Activity XML File Specification

Practice Areas
Clinical Pathology
Cytopathology
Dermatopathology
Endocrine
Female Reproductive
Forensic Pathology
GI (incl. Liver, Pancreas, Biliary)
Head & Neck/ Oral
Hematology (Blood, BM)
Hematopathology (LN, Spleen)
Hemostasis & Thrombosis/Coagulation
Infectious Diseases/ Medical Microbiology
Lab Management
Male Genital
Medical Director
Molecular Genetic Pathology
Neuropathology (incl. Neuromuscular)
Other
Patient Safety
Pediatric Pathology
Placenta
Pulmonary, Mediastinum
Renal/Medical Renal
Soft Tissue & Bone
Surgical Pathology
Transplant Pathology
Urinary Tract

### American Board of Surgery (ABS) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABPath CC

Practice Areas
Complex General Surgical Oncology
Hand Surgery
Hospice & Palliative Medicine
Pediatric Surgery
Surgical Critical Care
Vascular Surgery
General Surgery





## PARS Activity XML File Specification

### F: Credit types for MOC registration

Each board participating in CME in support of MOC has defined one or more credit types specific to the MOC program. The requirements for each of these types can be found in the board's program guide, which is accessible at <http://accme.org/cme-support-moc>. These types can be indicated in the XML XtensibleInfo element **MOCCreditType**. MOC registration for each board requires at least one element indicating the appropriate credit type. The corresponding credit types are indicated below.

Board Name	MOC Credit Type	Additional Business Rules
American Board of Anesthesiology	Medical Knowledge	
	Patient Safety	Patient Safety can only be submitted in combination with another credit type
American Board of Internal Medicine	Medical Knowledge	
	Practice Assessment	
	Patient Safety	Patient Safety can only be submitted in combination with another credit type
American Board of Ophthalmology	Lifelong Learning	All ABO MOC activities must at minimum meet the requirements of Lifelong Learning. Lifelong Learning is required for ABO MOC registration.
	Self-Assessment	
	Improvement in Medical Practice	
	Patient Safety	
American Board of Otolaryngology – Head and Neck Surgery	Self-Assessment	
	Improvement in Medical Practice	
	Patient Safety	Patient Safety can only be submitted in combination with another credit type
American Board of Pathology	Lifelong Learning	All ABPath MOC activities must at minimum meet the requirements of Lifelong Learning. Lifelong Learning is required for ABPath MOC registration.
	Improvement in Medical Practice	
American Board of Pediatrics	Lifelong Learning and Self-Assessment	



## PARS Activity XML File Specification

American Board of Surgery	Accredited CME	All ABS CC activities must at minimum meet the requirements of Accredited CME. Accredited CME is required for ABS CC registration.
	Self-Assessment	



# PARS Activity XML File Specification

## G: Commercial Supporter Source List

If the source of commercial support appears in the following list, use the name as formatted below for reporting in PARS.

3M Health Care
Abbott (Any division)
Abbott Laboratories
AbbVie (Any division)
AbioMed
ABIOMED, Inc.
Ablation Frontiers, Inc.
Accuray Inc.
AccuVein, LLC
Acorn Cardiovascular Inc.
Actelion Pharmaceuticals
Active Implants Corporation
Addition Technology Inc.
Adept-Med International Inc.
Aderans Research Institute
Advanced BioHealing, Inc.
Advanced Medical Optics, Inc.
AGA Medical Corporation
Agion Technologies
Alcon (Any division)
Alexion Pharmaceuticals
Allegro Diagnostics, Inc.
Allergan (Any division)
Alliance Home Healthcare
Alphatec Spine, Inc.
Alure Medical Inc.
Amarin Pharmaceuticals, Inc.
American Medical Systems
Amgen, Inc.
Amylin Pharmaceuticals, Inc.
Andersen Products, Inc.
Aperio Technologies, Inc.
Apicare Inc.
Arbor Pharmaceuticals
ARC Specialty Products, Balchem Corp.
Arobella Medical, LLC
Arthrex

Artificial Muscle, Inc.
Astellas (Any division)
Asthmatx, Inc.
AstraZeneca (Any division)
Atos Medical Inc.
Atrium Medical Corporation
ATS Medical, Inc.
Autonomic Technologies, Inc.
Auxilium Pharmaceuticals
AxoGen, Inc.
B. Braun Medical, Inc.
Bard Peripheral Vascular, Inc.
Bausch & Lomb (Any division)
Baxano, Inc.
Baxter International, Inc.
Bayer (Any division)
Bayer HealthCare, Diabetes Care
BD
Beckman Coulter, Inc.
Berlin Heart Inc.
BioControl Ltd.
BioCure, Inc.
Biogen
BioMarker Strategies, LLC
BioMedical Life Systems, Inc.
bioMerieux, Inc.
Biomerix Corporation
Biomet, Inc.
BioMimetic Therapeutics, Inc.
Bio-Rad Laboratories
Biosense Webster, Inc.
BioSurface Engineering Technologies, Inc.
BIOTRONIK, Inc.
Boehringer Ingelheim Pharmaceuticals, Inc.
Boston Scientific Corporation
Bracco Diagnostics, Inc.
Bristol-Myers Squibb Company



## PARS Activity XML File Specification

Bristol-Myers Squibb Company Worldwide Medicines Group
Broncus Technologies Inc.
BTG International, Inc.
C. R. Bard, Inc.
Calgary Scientific Inc.
Calibra Medical, Inc.
Cardinal Health
CardioFocus, Inc.
CardioMag Imaging, Inc.
CardioMEMS, Inc.
CaridianBCT, Inc.
Cayenne Medical Inc.
CEA Global, Inc.
Celera
Celgene Corporation
Celleration, Inc.
Cepheid
Chesson Labs
Chiesi
Choice Medical, Inc.
Cleveland Medical Devices
Clovis Oncology
Coeur Incorporated
Cohera Medical, Inc.
ConforMIS, Inc.
ConMed
Consensus Orthopedics Inc.
ConvaTec Inc.
Cook Medical, Inc.
CooperSurgical, Inc.
CoreValve Inc.
Corin USA
Covalon Technologies, Ltd.
Covidien
Crescendo Bioscience
CriTech Research, Inc.
CSL Behring, LLC
Cubist Pharmaceuticals, Inc.
CUREMARK
CVRx, Inc.
Cyberonics, Inc.

Cytomedix, Inc.
Cytori Therapeutics, Inc.
Daiichi Sankyo, Inc.
DEKA Research & Development Corporation
Deltex Medical, Inc.
DePuy (Any division)
Digirad Corporation
Disc Dynamics, Inc.
Discovery Laboratories, Inc.
DJO Incorporated
EarlyDETECT Inc.
Edwards Lifesciences Corporation
EGI
Eisai, Inc.
Electro-Optical Sciences, Inc.
EMD Serono
Endo Pharmaceuticals, Inc.
Endocare Inc.
Eng3 Corporation
Entellus Medical, Inc.
EnteroMedics Inc.
Etex Corporation
Ethicon (Any division)
EVAHEART MEDICAL USA, INC.
Evalve, Inc.
EXACT Sciences Corporation
Exelixis
EyeIC, Inc.
febit
Fenwal Inc.
Fisher & Paykel Healthcare
FMC BioPolymer
Focus Diagnostics, Inc. Healthcare Diagnostics Group
Forest (Any division)
Fujifilm (Any division)
Galderma (Any division)
Galiil Medical
Gambro Renal Products, Inc.
GE Healthcare
GeneEX Incorporation
Genentech (Any division)



## PARS Activity XML File Specification

Genomic Health, Inc.
Genzyme (Any division)
Genzyme Corporation
GI Dynamics, Inc.
Gilead Sciences, Inc.
Given Imaging
GlaxoSmithKline
Globus Medical, Inc.
Grace Medical, Inc.
Greatbatch, Inc.
Greer Laboratories, Inc.
Grifols
Hansen Medical, Inc.
Hard Manufacturing Company, Inc.
Harmac Medical Products, Inc.
Healthpoint, Ltd.
Heartscape Technologies Inc.
Heidelberg Engineering, Inc.
Helicos BioSciences Corporation
HemCon Medical Technologies, Inc.
Heraeus Medical GmbH
Hill-Rom Company, Inc.
Hitachi (Any division)
Hoffmann-La Roche Inc.
Hollister Incorporated
Hologic, Inc.
Hospira, Inc.
Hutchinson Technology Inc. BioMeasurement Division
Hygeia II Medical Group Inc.
IDev Technologies, Inc.
Imalux Corporation
Immucor, Inc.
Incyte Corporation
InfraReDx, Inc.
Inset Technologies Incorporated
InSightec Inc.
Instrumentation Laboratory
Integra LifeSciences Corporation
Intel Corporation
IntelligentMD
Interface Biologics, Inc.

Intralink-Spine LLC
Ipsen
IRIS International, Inc.
ISTO Technologies, Inc.
J.R. Medical, Inc.
Janssen (Any division)
Jazz Pharmaceuticals, Inc.
Johnson & Johnson
K2M, Inc.
Kadmon Pharmaceuticals
Kaneka Pharma America LLC
Karl Storz Endoscopy
Kensey Nash Corporation
KF Medical Inc.
Kinetic Concepts, Inc.
Kowa Pharmaceuticals
KRONUS, Inc.
Lansinoh Laboratories
Lexicor Medical Technology, LLC
Life Instrument Corporation
LifeSync Corporation
Lilly (Any division)
Lundbeck, Inc.
M2S, Inc.
MagForce Nanotechnologies AG
Mallinckrodt Pharmaceuticals
Masimo (Any division)
Maverick Biosciences Pty Ltd
McKesson (Any division)
Mead Johnson Nutrition Company
Meda Pharmaceuticals, Inc.
Mederi Therapeutics, Inc.
Medicsight, PLC
Mediplus Ltd
Medtronic (Any division)
MedVenture Technology Corporation
Merck (Any division)
Merck Human Health Division - U.S. Human Health
Merck Research Laboratories
Merck Vaccine Division
Merz (Any division)



## PARS Activity XML File Specification

Micell Technologies, Inc.
Micronics, Inc.
MicroPhage, Incorporated
MicroTransponder Inc.
Micrus Endovascular Corporation
Millennium Pharmaceuticals, Inc.
Milliken & Company
Mindray
Minnesota Medical Development, Inc.
MinSURG Corporation
mtm laboratories AG
Mylan (Any division)
Myriad (Any division)
NanoVasco, Inc.
Navilyst Medical
nContact Surgical
NDI Medical
NeoMatrix
NeoVista, Inc.
Nerites Corporation
Nestle (Any division)
NeuroPace, Inc.
Newport Medical Instruments, Inc.
Nexus6 Ltd
Nitric BioTherapeutics Inc.
Novartis Corporation Pharmaceuticals
Novartis Vaccines & Diagnostics, Inc.
Novasys Medical, Inc.
NovaVision, Inc.
Novo Nordisk (Any division)
Novocure
NPS Pharmaceuticals, Inc.
NuMED Inc
NuVasive
OHK Medical Devices, Inc.
Olympus Corporation
Oncoscope, Inc.
One Word dmg
Onyx Pharmaceuticals, Inc.
OPHTEC USA, Inc.
OptiMedica Corporation

Orla Protein Technologies Ltd
OrthAlign, Inc.
Orthofix Inc.
OrthoPediatrics, LLC
Orthovita Inc.
Osmetech Molecular Diagnostics
Otsuka America Pharmaceutical, Inc.
Otsuka America Pharmaceutical, Inc. (OAPI)
Otsuka America, Inc. (OAI)
Otsuka Maryland Medicinal Laboratories (OMML)
Otsuka Pharmaceutical Development & Commercialization, Inc. (OPDC)
Pacira Pharmaceuticals, Inc.
Paracor Medical
Paradigm Spine, LLC
ParagonDX, LLC
Pathfinder Therapeutics, Inc.
PathoLase, Inc.
Pathwork Diagnostics, Inc.
PEAK Surgical, Inc.
Pega Medical Inc.
Percutaneous Systems, Inc.
Pfizer (Any division)
Philips (Any division)
PhotoThera
pico-tesla Magnetic Therapies, LLC
PolyRemedy, Inc.
Porex Corporation
Prescient Medical, Inc.
Prizm Medical, Inc.
PrognostiX, Inc.
Prolacta Bioscience, Inc.
Prometheus Laboratories, Inc.
ProRhythm, Inc.
Proteogenix, Inc.
Proteus Biomedical
Purdue Pharma, LP
Qiagen Sciences
Questcor Pharmaceuticals, Inc.
ReGen Biologics, Inc.
Regeneron Pharmaceuticals, Inc.
REMS Program Companies (RPC)



## PARS Activity XML File Specification

Robodoc Division of Curexo Technology Corp.
Roche (Any division)
RoundTable Healthcare Partners
RTI Biologics, Inc.
Sakura Finetek U.S.A., Inc.
Salient Surgical Technologies, Inc.
Salix Pharmaceuticals, Inc.
sanofi pasteur
Sanofi S.A.
sanofi-aventis U.S.
Schering-Plough Corporation
Scient'X USA, Inc.
Seattle Genetics
Semprus BioSciences*
Seno Medical Instruments Inc.
Sensors for Medicine and Science, Inc.
Shire Pharmaceuticals
Shumsky Therapeutic Pillows
Siemens (Any division)
Sigma-Tau Pharmaceuticals, Inc.
Silere Medical Technology Inc.
Silk Road Medical
Sleep Solutions, Inc.
Smith & Nephew (Any division)
SonoSite
Sorin S.p.A.
Spectrum (Any division)
Spinal Restoration, Inc.
Spiration Inc.
St. Jude Medical, Inc.
STERIS Corporation
Strata LLC
Straumann USA LLC
Stryker (Any division)
Sunovion Pharmaceuticals, Inc.
superDimension, Inc.
Symbios Medical Products, LLC
SyntheMed, Inc.
Systemex America, Inc.
T2 Biosystems, Inc.
Taiho Pharmaceutical

Takeda Pharmaceuticals (Any division)
Teleflex Medical
Terumo (Any division)
Tesaro
Teva Pharmaceutical Industries
The Innovation Factory
The P.F. Laboratories, Inc.
Theranostics Health
Therapeutic Pillows
TherOx, Inc.
Thoratec Corporation
Tomophase Corporation
Toray Industries (America), Inc.
Tornier, Inc.
Toshiba (Any division)
TranS1, Inc.
Transoma Medical, Inc.
TriReme Medical Inc.
TyRx Pharma, Inc.
UCB
Uluru Inc.
United Therapeutics
Urovalve, Inc.
US HIFU, LLC
USCI Japan
Valeant Pharmaceuticals (Any division)
Vapotherm, Inc.
Varian Medical Systems, Inc.
VeraLight, Inc.
Vertex Pharmaceuticals
Viacor, Inc.
VidaCare Corporation
Vidara Therapeutics
ViiV Healthcare
Vilex Inc.
ViroPharma Incorporated
Visionquest Industries Inc.
Vitalcor, Inc.
VitalWear Inc.
VivoMetrics, Inc.
VNUS Medical Technologies, Inc.



## PARS Activity XML File Specification

W. L. Gore & Associates, Inc.
Walgreens (Any division)
WaveTec Vision Systems, Inc.
Welch Allyn, Inc.
Wound Care Innovations, LLC
Wright Medical Technology, Inc.

Wyeth
Wyeth Pharmaceuticals
Wyeth Research
Xceed Molecular
Zimmer (Any division)
Zoll (Any division)

### H: List of Error Codes

Code	Description
101	Activity record action was not specified.
102	Activity record action invalid.
103	Add action has duplicate of existing activity ID.
104	Record not found. Update action has unknown activity ID.
105	Record not found. Delete action has unknown activity ID.
106	Activity could not be deleted. Participant records exist for this activity.
107	Activity record is a duplicate for an activity submitted to Board through non-ACCME methods and cannot be reported through PARS.
200	Missing number of AMA credits
202	Missing ACCME Activity ID.
203	Missing Activity title.
204	No specialties included in record.
205	Missing Activity start date.
206	Missing MOC points.
207	Missing Variable MOC points.
208	Missing Patient safety approval status.
209	Missing reporting start date.
210	Missing reporting end date.
211	Missing activity format.
212	Missing providership.
213	Missing provider name.
214	Missing joint provider name.
215	Missing activity end date.
216	Missing Provider Activity ID.
217	Missing content outline elements
218	Missing Medical Knowledge approval status
219	Missing Practice Assessment approval status
220	Missing activity URL
302	ACCME Activity ID not valid.
303	Activity title not valid.
304	Specialty not valid.
305	Activity start date not valid.
306	MOC points not valid.
307	Variable MOC points not valid.
308	Patient safety approval status not valid.
309	Reporting start date not valid.
310	Reporting end date not valid.
311	Activity format not valid.





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312	Providership not valid.
313	Provider name not valid.
314	Joint provider name not valid.
315	Activity start date format is invalid. Expected yyyy-mm-ddT:00:00:00
316	Activity end date format is invalid. Expected yyyy-mm-ddT:00:00:00
317	Medical Knowledge approval status not valid.
318	Practice Assessment approval status not valid.
319	MOC points not in increment of 0.25
320	Activity specialty/licensing board registration cannot be removed. Learner completion records exist for {Board acronym} and must be deleted before the activity registration can be removed.
321	Activity REMS registration cannot be removed. REMS learner completion records exist for this activity and must be deleted before the REMS registration can be removed.
451	Invalid User: Access Denied
452	Invalid Reporting Year: Please enter in a valid year. Example: 2015
453	Data could not be read. Please make sure that you are uploading XML data in the correct format.
454	Only one Activity at a time can be submitted thru this service.
455	Error Reading XML Web Service: [Error Message]
456	MEMS Element: entry: [XML Identifier], - Invalid data value/format for [Element Name]: [Data Value]
457	MEMS Element: entry:[XML Identifier], Element name: [Element Name] - Missing required field: [Field Name]
458	MEMS Element: entry: [XML Identifier], Element name: ActivityDescription/lom:lom/lom:general/lom:identifier/lom:catalog/lom:entry - ACCME ActivityID is invalid/does not exist
459	MEMS Element: entry:[XML Identifier], Element name: mem:ActivityDescription/lom:lom/hx:healthcareMetadata/hx:healthcareEducation/hx:activityFormat - Invalid data value for Activity Type: [Activity Type]
460	MEMS Element: entry: [XML Identifier], Element name: mem:ActivityDescription/lom:lom/hx:healthcareMetadata/hx:healthcareEducation/hx:activityFormat - At least one subcategory is required for a Course or Internet Live Course
461	MEMS Element: entry: [XML Identifier], Element name: [Element Name] - Invalid value for Reporting Year: [Data Value]. You cannot add or update activities for [Data Value] because the data for this year has already been attested as complete.
462	MEMS Element: entry: [XML Identifier], Element name: [Element Name] - Invalid value for Reporting Year: [Data Value].
463	MEMS Element: identifier: entry:[XML Identifier], Element name: [Element Name] - Invalid element.
464	MEMS Element: Update Reporting Year from [Existing Reporting Year] to [New Reporting Year] not permitted.
465	MEMS Element: entry: [XML Identifier], Element name: [Element Name]: This activity record is assigned to a reporting year that is not currently available for entry of records.
466	MEMS Element: entry: [XML Identifier], - Failed to add the activity
467	MEMS Element: entry: [XML Identifier], - Failed to update the activity
468	MEMS Element: entry: [XML Identifier], - Invalid data value/format for Credits Offered:[Credits Offered].
469	Activity end date cannot be earlier than activity start date.
470	Based on activity end date, activity cannot be registered for [Board name] MOC.
472	Keyword element(s) not valid for MOCA content outline.
473	MEMS Element: entry: [XML Identifier], Element name: [Element Name] - This activity is already closed and cannot be updated.
474	Internal ID cannot be the Organization ID. Please enter a unique value for this field.
475	Credit Claim date cannot be before the activity end date listed for the activity



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476	An activity matching this ID already exists. Existing activities may not use the 'Add' record action.
477	Duplicate Entry. Two or more activity records in this submission have the same ID. Please ensure all activities in this file have unique IDs.
478	Pharmacy sequence number already in use.
479	Invalid data value/format for Commendation Tag:
480	Invalid data value/format for REMS Type:
481	Closed activities may not be edited.
482	Learners may not be reported for activities in the future.
483	This activity cannot be closed. Activities must have all required fields completed and an end date in the past to be closed.
484	Missing default credit type:
485	Invalid template
486	Activity Format cannot be changed when individual learners have been reported
487	Activity credit type cannot be submitted alone
488	Invalid delivery method(s):
489	Invalid count of Keyword element(s): {Count}
490	At least one practice area or specialty is required
491	Invalid practice area or specialty
492	Activity cannot be deleted.
999	General activity record processing error.
9999	Fatal Error: Please contact IT Support.