

ACCME PARS Web Services

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Introduction

The ACCME has implemented web services to enable the submission of data to its Program and Activity Reporting System (PARS) directly from software applications. Web services will enable developers to create code enabling a provider’s learning management system to communicate directly with PARS and reduce the need for CME provider staff to input data directly through manual data entry or batch upload methods.

Making use of web services requires modifications to software by developers with technical knowledge of the learning management system and its data structure. The information in this document is intended for the information technology professionals 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.

An enhanced version of PARS is launching in 2021. This version supports new functionality via the introduction of new data formats for activity and learner reporting but is backwards compatible with the prior version of PARS (referred to as “Legacy PARS”). The legacy PARS data formats will be designated as “deprecated”, but they will be supported for an extended period of time to allow organizations to make adjustments, if needed, to their internal systems. Organizations interested in accessing PARS’ enhancements should consider the following:

- Utilize new activity and learner data formats as outlined in PARS documentation.
- The new sandbox environments can be utilized to validate the processing of legacy PARS format and enhanced PARS formats.
- Contact ACCME at info@accme.org to coordinate your organization’s transition from legacy data formats to enhanced data formats in production.
- Do not mix legacy and enhanced formats in production.

General Information

Two web services are available.

The **Activity Data Web Service** offers methods for adding or editing CME activities and retrieving data records for CME activities. It may be used for all CME activities. Providers may use it to add new activities for registration for Maintenance of Certification (MOC) for collaborating boards. Activity records registered for MOC will be transmitted to the appropriate board.

The certifying boards participating in CME in Support of MOC are:

Board Name	Board Acronym
American Board of Internal Medicine	ABIM
American Board of Anesthesiology	ABA
American Board of Pediatrics	ABP
American Board of Pathology	ABPath
American Board of Otolaryngology – Head and Neck Surgery	ABOHNS

American Board of Ophthalmology	ABO
American Board of Surgery	ABS

The **Learner Data Web Service** offers a method for submitting learner data for physicians that complete CME activities, and who wish to have their data reported via the ACCME’s Program and Activity Reporting System (PARS). The ACCME will provide data received to the appropriate licensing or certifying board for purposes of granting participants’ credit.

The **Learner Match Service** offers a method for CME providers to validate that the information available for a learner uniquely matches with an individual in PARS. Successful reporting of learner completions in PARS requires an accurate and distinct match with an individual in PARS. Using this method enables CME providers to identify learners whose data does not match in PARS before sending a learner completion record that would be rejected.

Learner Permission

The Learner Data Web Service is provided as a service to learners. CME providers should transmit data to PARS only with the permission of the learner.

MOC Program Requirements

Providers using the PARS web services to register CME activities for MOC are expected to comply with the policies of the respective specialty board MOC program. Registering an activity in PARS for a specialty board MOC program indicates attesting to meeting the board’s MOC policies. For additional information about board MOC programs, please visit <http://www.accme.org/cme-support-moc>

Security

The web services utilize encryption for all data. All provider connections to the PARS web services need to be configured to use the TLS 1.2 encryption protocol. Data files sent between PARS and ABIM are transferred using secure connections on a SFTP site. PARS and the other medical specialty boards communicate using encrypted web services.

Resources for Developers

A PARS sandbox site is available to providers and IT professionals to aid in the development and testing of software designed to use the PARS web service.

SOAP Deprecation

To maintain backward compatibility for applications that are currently using PARS APIs, PARS continues to support the use of SOAP calls to the legacy Activity and Learner APIs. Ongoing and future development in PARS is focused exclusively on REST XML methods. The services described in this document are available through REST APIs only.

Data Validation

Activity data web service

Activities submitted using the SaveActivity method are sent immediately to PARS. A response indicating the record was “Accepted” or “Rejected” will be returned in real time. Error conditions will be indicated for rejected activity records.

PARS transmits accepted activity records registered for MOC to the respective specialty boards using a daily data transfer.

Learner data web service

At the present, learner data is being collected in PARS only for physicians licensed within the United States who have earned either *AMA PRA Category 1™ Credit* or MOC credit for a participating certifying board. Learner completion data that is not associated with a physician licensed within the United States cannot be uploaded and will result in validation errors. Each learner record must be transmitted separately through the web service, but a single learner record may include more than one type of credit.

Learner records submitted using the SaveLearnerActivity method are sent immediately to PARS. PARS will check that the learner information matches to an individual physician. If the identity information does not match, PARS will send a “Rejected” response in real time. If the identity information can be validated, PARS will return an “Accepted” response in real time. If the submission was initiated by a physician learner clicking a submit button, then this information should be displayed back to the learner

For learner records that include MOC credit, PARS queues accepted learner records and sends them to the certifying board for upload into the diplomate’s file. This data transfer usually occurs overnight. When the record has been transmitted to the certifying board, its status will change to “submitted”. The board will apply further validation to the data, including verification of the points earned. Accept or Reject messages will be sent to PARS by the board. Upon receipt of this response, the status of the learner record in PARS will be updated to reflect that the record has been either “Approved” or “Rejected” for MOC credit. Providers will be notified of any rejected records including the applicable error conditions via an email sent to the primary contact.

Once submitted, participant records cannot be edited. Rather, if a change to a submitted record is required, the provider must delete the record and add a new learner record that contains corrected information.

At this time, PARS will accept learners entered for the current calendar year and the previous calendar year (ex: 2021 completions can be submitted until 3/31/2023, 2022 to 3/31/2024, etc.) as long as the completion date entered is between the listed start date and credit claim date of the activity.

Outline of steps for implementing ACCME PARS web services

Share this document with the technical professional that can modify the CME tracking system. This person should perform the following steps:

- Download the current XML file materials for reporting CME activities and/or learner completion data. These include .zip files containing XSD files, example XML and documentation as well as XML specification documents explaining the business definitions for each data field.

For **ACCME PARS** users:

- Activity XML specifications: <https://www.accme.org/publications/PARS/xml-activity-upload-instructions>
- *ACCMEActivities* examples: <https://www.accme.org/publications/PARS/xml-activity-upload-technical-files>
- Learner XML specifications: <https://www.accme.org/publications/PARS/xml-learner-submission-instructions>
- *ACCMELearnerReports* examples: <https://www.accme.org/publications/PARS/learner-submission-technical-files>

For **JA-PARS** users:

- JA Activity XML specifications: <https://www.jointaccreditation.org/about-ja-pars>
- JA *ACCMEActivities* examples: <https://www.jointaccreditation.org/about-ja-pars>
- Learner XML specifications: <https://www.accme.org/publications/PARS/xml-learner-submission-instructions>
- *ACCMELearnerReports* examples: <https://www.accme.org/publications/PARS/learner-submission-technical-files>

- Review those materials along with the current document.
- Have the primary contact person for your organization request ACCME to provision a web services user account and access to the sandbox platform, by sending an email to info@accme.org . ACCME will issue a web services user account for code interaction with the sandbox platform and a user account for the sandbox user interface.
- Create XML output from your CME data management system. Perform test validation of your XML using the ACCME web services test site.
- Design web service calls and test against the sandbox platform version of PARS.
- Contact the ACCME by email to info@accme.org to request provisioning the production web services user account.
- Deploy the updated application in your production environment with settings to communicate with the production version of PARS.

Activity Data REST Web Service

Purpose of this Service:

The purpose of this web service is to expose methods to enable interaction between applications to add/get activities to/from the ACCME PARS database using XML. There are two methods:

- SaveActivity
- GetActivity

Data Specifications

This web service supports REST request with REST responses. To submit Activities via the Activity web service, simply invoke a web service call.

Production URL: <https://pars.accme.org/services/ACCMEService.svc/IACCMEServiceREST>

Sandbox URL: <https://pars03nsbgateways02.azure-api.net/services/ACCMEService.svc/IACCMEServiceREST>

METHOD: SaveActivity

This method is used to create, update, or delete an activity record in PARS.

Content Type: application/xml; charset=utf-8

Method: POST

Production EndPoint: <https://pars.accme.org/services/ACCMEService.svc/IACCMEServiceREST/SaveActivity>

Sandbox EndPoint: <https://pars03nsbgateways02.azure-api.net/services/ACCMEService.svc/IACCMEServiceREST/SaveActivity>

(Please note that there are many patterns and techniques for invoking a web service call depending on the development platform currently utilized by the provider organization. It is the responsibility of the provider organization to design and develop their web service call to fit their software application environment.)

Sample Request:

```
<?xml version="1.0" encoding="utf-8"?>
<SubmitMessage xmlns="http://schemas.datacontract.org/2004/07/BLL.Service">
  <Data>
    &lt;accme:ACCMEActivities xmlns="http://ns.medbiq.org/metrics/v2/"
      xmlns:accme="http://docs.accme.org/schemas/ACCMEActivities/v3/"
      xmlns:ex="http://www.accme.org/ACCMEActivityExtension/v3"
      xmlns:medbiq="http://ns.medbiq.org/metrics/v2/" xmlns:lom="http://ltsc.ieee.org/xsd/LOM"
      xmlns:hx="http://ns.medbiq.org/lom/extend/v1/" xmlns:ad="http://ns.medbiq.org/address/v1/"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://docs.accme.org/schemas/ACCMEActivities/v3/ ./ACCMEActivities.xsd"&gt;
      &lt;MedicalEducationMetrics&gt;
        &lt;ReportDescription&gt;
          &lt;ReportingStartDate&gt;2021-01-01&lt;/ReportingStartDate&gt;
          &lt;ReportingEndDate&gt;2021-12-31&lt;/ReportingEndDate&gt;
        &lt;/ReportDescription&gt;
        &lt;ActivityDescription&gt;
```

```

<!--lom:lom-->
  <!--lom:general-->
    <!--lom:identifier-->
      <!--lom:catalog-->ACCME Activity ID</lom:catalog-->
      <!--lom:entry--></lom:entry-->
    </lom:identifier-->
    <!--lom:identifier-->
      <!--lom:catalog-->Provider Activity ID</lom:catalog-->
      <!--lom:entry-->addactivityexample</lom:entry-->
    </lom:identifier-->
    <!--lom:identifier-->
      <!--lom:catalog-->URL</lom:catalog-->
      <!--lom:entry-->http://www.example.nil</lom:entry-->
    </lom:identifier-->
    <!--lom:title-->
      <!--lom:string-->Internal Medicine Manuscript</lom:string-->
    </lom:title-->
    <!--lom:description-->
      <!--lom:string-->Content is the description of the information and topics
that were discussed during the CME activity.</lom:string-->
    </lom:description-->
  </lom:general-->
  <!--hx:healthcareMetadata uniqueElementName="healthcareMetadata"-->
    <!--hx:healthcareEducation-->
      <!--hx:credits-->
        <!--hx:activityCertification-->AMA PRA Category
1</hx:activityCertification-->
        <!--hx:numberOfCredits-->2</hx:numberOfCredits-->
      </hx:credits-->
      <!--hx:targetAudience-->
        <!--hx:specialty-->
          <!--lom:string-->Hematology</lom:string-->
        </hx:specialty-->
        <!--hx:specialty-->
          <!--lom:string-->Nephrology</lom:string-->
        </hx:specialty-->
      </hx:targetAudience-->
      <!--hx:startDateTime-->2021-01-30T00:00:00</hx:startDateTime-->
      <!--hx:endDateTime-->2021-12-30T00:00:00</hx:endDateTime-->
      <!--hx:activitySponsorship-->direct</hx:activitySponsorship-->
      <!--hx:activityFormat-->
        <!--lom:string-->Manuscript Review</lom:string-->
      </hx:activityFormat-->
      <!--hx:commercialSupport-->yes</hx:commercialSupport-->
    </hx:healthcareEducation-->
  </hx:healthcareMetadata-->
</lom:lom-->
  <!--CommercialSupportAmount supportSource="Abiomed"
currency="USD"-->12000</CommercialSupportAmount-->
  </ActivityDescription-->
  </ParticipationMetrics-->

```



```

    &lt;ParticipantsByCategory category="physician"&gt;2&lt;/ParticipantsByCategory&gt;
    &lt;ParticipantsByCategory category="non-physician"&gt;10&lt;/ParticipantsByCategory&gt;
&lt;/ParticipationMetrics&gt;
&lt;XtensibleInfo&gt;
    &lt;ex:MeasuredOutcomes&gt;
        &lt;ex:MeasuredOutcome&gt;Learner Competence&lt;/ex:MeasuredOutcome&gt;
        &lt;ex:MeasurementType&gt;Objective&lt;/ex:MeasurementType&gt;
        &lt;ex:MeasurementType&gt;Subjective&lt;/ex:MeasurementType&gt;
    &lt;/ex:MeasuredOutcomes&gt;
    &lt;ex:MOCRegistrations&gt;
        &lt;ex:MOCRegistration&gt;
            &lt;ex:boardName&gt;ABIM&lt;/ex:boardName&gt;
            &lt;ex:mocPoints&gt;2.0&lt;/ex:mocPoints&gt;
            &lt;ex:MOCcreditType&gt;Medical Knowledge&lt;/ex:MOCcreditType&gt;
            &lt;ex:MOCcreditType&gt;Patient Safety&lt;/ex:MOCcreditType&gt;
        &lt;/ex:MOCRegistration&gt;
    &lt;/ex:MOCRegistrations&gt;
    &lt;ex:CreditClaimDate&gt;2021-12-31T00:00:00&lt;/ex:CreditClaimDate&gt;
    &lt;ex:ForPublicList&gt;true&lt;/ex:ForPublicList&gt;
    &lt;ex:FeeForParticipation&gt;Yes&lt;/ex:FeeForParticipation&gt;
    &lt;ex:ActivityRegistration&gt;Open to All&lt;/ex:ActivityRegistration&gt;
    &lt;ex:activityRecordAction&gt;Add&lt;/ex:activityRecordAction&gt;
    &lt;ex:closeActivityRecord&gt;false&lt;/ex:closeActivityRecord&gt;
    &lt;/XtensibleInfo&gt;
&lt;/MedicalEducationMetrics&gt;
&lt;/accme:ACCMEActivities&gt;</Data>
<Password>*****</Password>
<ProviderId>1234567</ProviderId>
<ReportingYear>2021</ReportingYear>
<User>webserviceuser@yourdomain.org </User>
</SubmitMessage>

```

Sample Response:

```

<ResponseMessage xmlns="http://schemas.datacontract.org/2004/07/BLL.Service"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <Data>&lt;accme:ACCMEActivities
xmlns:ex="http://docs.accme.org/schemas/ACCMEActivityExtension/v3/"
xmlns:hx="http://ns.medbiq.org/lom/extend/v1/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:medbiq="http://ns.medbiq.org/metrics/v1/" xmlns:lom="http://ltsc.ieee.org/xsd/LOM"
xmlns:ad="http://ns.medbiq.org/address/v1/"
xmlns:accme="http://docs.accme.org/schemas/ACCMEActivities/v3/"&gt;&#xD;
    &lt;MedicalEducationMetrics xmlns="http://ns.medbiq.org/metrics/v2/"&gt;&#xD;
        &lt;ReportDescription&gt;&#xD;
            &lt;ReportingStartDate&gt;2021-01-01&lt;/ReportingStartDate&gt;&#xD;
            &lt;ReportingEndDate&gt;2021-12-31&lt;/ReportingEndDate&gt;&#xD;
        &lt;/ReportDescription&gt;&#xD;
        &lt;ActivityDescription&gt;&#xD;
            &lt;lom:lom&gt;&#xD;
                &lt;lom:general uniqueElementName="general"&gt;&#xD;
                    &lt;lom:identifier&gt;&#xD;

```

```

    <lom:catalog uniqueElementName="catalog">ACCME Activity ID</lom:catalog>&#xD;
    <lom:entry uniqueElementName="entry" />&#xD;
</lom:identifier>&#xD;
<lom:identifier>&#xD;
    <lom:catalog uniqueElementName="catalog">Provider Activity
ID</lom:catalog>&#xD;
    <lom:entry uniqueElementName="entry">addactivityexample</lom:entry>&#xD;
</lom:identifier>&#xD;
<lom:identifier>&#xD;
    <lom:catalog uniqueElementName="catalog">URL</lom:catalog>&#xD;
    <lom:entry uniqueElementName="entry">http://www.example.nil</lom:entry>&#xD;
</lom:identifier>&#xD;
<lom:title uniqueElementName="title">&#xD;
    <lom:string>Internal Medicine Manuscript</lom:string>&#xD;
</lom:title>&#xD;
<lom:description uniqueElementName="description">&#xD;
    <lom:string>Content is the description of the information and topics that were
discussed during the CME activity.</lom:string>&#xD;
</lom:description>&#xD;
<lom:identifier>&#xD;
    <lom:catalog uniqueElementName="catalog">ACCME Activity ID</lom:catalog>&#xD;
    <lom:entry uniqueElementName="entry">210015702</lom:entry>&#xD;
</lom:identifier>&#xD;
</lom:general>&#xD;
<hx:healthcareMetadata uniqueElementName="healthcareMetadata">&#xD;
    <hx:healthcareEducation>&#xD;
    <hx:credits>&#xD;
    <hx:activityCertification>AMA PRA Category
1</hx:activityCertification>&#xD;
    <hx:numberOfCredits>2</hx:numberOfCredits>&#xD;
</hx:credits>&#xD;
<hx:targetAudience>&#xD;
    <hx:specialty>&#xD;
    <lom:string>Hematology</lom:string>&#xD;
</hx:specialty>&#xD;
<hx:specialty>&#xD;
    <lom:string>Nephrology</lom:string>&#xD;
</hx:specialty>&#xD;
</hx:targetAudience>&#xD;
<hx:startDateTime>2021-01-30T00:00:00</hx:startDateTime>&#xD;
<hx:endDateTime>2021-12-30T00:00:00</hx:endDateTime>&#xD;
<hx:activitySponsorship>direct</hx:activitySponsorship>&#xD;
<hx:activityFormat>&#xD;
    <lom:string>Manuscript Review</lom:string>&#xD;
</hx:activityFormat>&#xD;
<hx:commercialSupport>yes</hx:commercialSupport>&#xD;
</hx:healthcareEducation>&#xD;
</hx:healthcareMetadata>&#xD;
</lom:lom>&#xD;
    <CommercialSupportAmount currency="USD"
supportSource="Abiomed">1200</CommercialSupportAmount>&#xD;

```

```

</ActivityDescription>&#xD;
<ParticipationMetrics>&#xD;
  <ParticipantsByCategory category="physician">&#xD;
  <ParticipantsByCategory category="non-physician">10</ParticipantsByCategory>&#xD;
</ParticipationMetrics>&#xD;
<XtensibleInfo>&#xD;
  <MeasuredOutcomes xmlns="http://www.accme.org/ACCMEActivityExtension/v3">&#xD;
    <MeasuredOutcome>Learner Competence</MeasuredOutcome>&#xD;
    <MeasurementType>Objective</MeasurementType>&#xD;
    <MeasurementType>Subjective</MeasurementType>&#xD;
  </MeasuredOutcomes>&#xD;
  <MOCRegistrations xmlns="http://www.accme.org/ACCMEActivityExtension/v3">&#xD;
    <MOCRegistration>&#xD;
      <boardName>ABIM</boardName>&#xD;
      <mocPoints>2.0</mocPoints>&#xD;
      <MOCCreditType>Medical Knowledge</MOCCreditType>&#xD;
      <MOCCreditType>Patient Safety</MOCCreditType>&#xD;
    </MOCRegistration>&#xD;
  </MOCRegistrations>&#xD;
  <CreditClaimDate xmlns="http://www.accme.org/ACCMEActivityExtension/v3">2021-12-
31T00:00:00</CreditClaimDate>&#xD;
  <ForPublicList
xmlns="http://www.accme.org/ACCMEActivityExtension/v3">true</ForPublicList>&#xD;
  <FeeForParticipation
xmlns="http://www.accme.org/ACCMEActivityExtension/v3">Yes</FeeForParticipation>&#xD;
  <ActivityRegistration xmlns="http://www.accme.org/ACCMEActivityExtension/v3">Open to
All</ActivityRegistration>&#xD;
  <activityRecordAction
xmlns="http://www.accme.org/ACCMEActivityExtension/v3">Add</activityRecordAction>&#xD;
  <closeActivityRecord
xmlns="http://www.accme.org/ACCMEActivityExtension/v3">>false</closeActivityRecord>&#xD;
  </XtensibleInfo>&#xD;
</MedicalEducationMetrics>&#xD;
</accme:ACCMEActivities></Data>
  <ErrorMessage i:nil="true"/>
  <StatusCode>Accepted</StatusCode>
</ResponseMessage>

```

Tips for successful submission

- Always html encode your activity xml message
- Be sure to always include the XML namespace of <http://schemas.datacontract.org/2004/07/BLL.Service>
- Content type must be “application/xml; charset=utf-8”
- Method of “POST” is required
- The elements in the SubmitMessage object MUST appear in the correct order (alphabetic).

Input Parameter SubmitMessage Object:

Property Name	Data Type	Max Length	Required	Description
Data	String	Max	Yes	XML activity data to be submitted to ACCME
Password	String	100	Yes	Password created for web service
ProviderId	String	10	Yes	Provider Id the web service was created under
ReportingYear	String	4	Yes	Year of the activity start date for the Activity begin Submitted
User	String	100	Yes	User Id created for web service

Returned ResponseMessage Object:

Property Name	Data Type	Max Length	Required	Description	Sample Data
Data	String	Max	N/A	Return XML data sent to service	XML Example below
ErrorMessage	Array of Error Messages	Max	N/A	Array of errors found in XML data sent	Error Message Object
StatusCode	String	8	N/A	Returns either Accepted or Rejected	Accepted

ErrorMessage Object

Property Name	Data Type	Max Length	Required	Description	Sample Data
Code	String	3	N/A	Returns error code from PARS	476
Message	String	Max	N/A	Returns corresponding error messages from invalid data sent	An activity matching this ID already

					exists. Existing activities may not use the 'Add' record action.
--	--	--	--	--	--

METHOD: GetActivity

This method is used to get information about a previously submitted activity record in PARS.

Content Type: application/xml; charset=utf-8

Method: POST

EndPoint: <https://pars.accme.org/services/ACCMESvc/IACCMESvcREST/GetActivity>

Sandbox EndPoint: <https://pars03nsbgateways02.azure-api.net/services/ACCMESvc/IACCMESvcREST/GetActivity>

(Please note that there are many patterns and techniques for invoking a web service call depending on the development platform currently utilized by the provider organization. It is the responsibility of the provider organization to design and develop their web service call to fit their software application environment.)

Sample Request:

```
<SearchCriteria xmlns="http://schemas.datacontract.org/2004/07/BLL.Service">
  <Password>*****</Password>
  <ProviderActivityId>addactivityexample</ProviderActivityId>
  <ProviderId>1234567</ProviderId>
  <SchemaVersion>3</SchemaVersion>
  <User>webserviceuser@yourdomain.org</User>
</SearchCriteria>
```

Sample Result:

```
<SearchResult xmlns="http://schemas.datacontract.org/2004/07/BLL.Service"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Data>&lt;accme:ACCMESvcActivities
xmlns:ex="http://docs.accme.org/schemas/ACCMESvcActivityExtension/v3/"
xmlns:hx="http://ns.medbiq.org/lom/extend/v1/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:medbiq="http://ns.medbiq.org/metrics/v1/" xmlns:lom="http://ltsc.ieee.org/xsd/LOM"
xmlns:ad="http://ns.medbiq.org/address/v1/"
xmlns:accme="http://docs.accme.org/schemas/ACCMESvcActivities/v3/"&gt;&#xD;
  &lt;MedicalEducationMetrics xmlns="http://ns.medbiq.org/metrics/v2/"&gt;&#xD;
  &lt;ReportDescription&gt;&#xD;
  &lt;ReportingStartDate&gt;2021-01-01&lt;/ReportingStartDate&gt;&#xD;
  &lt;ReportingEndDate&gt;2021-12-31&lt;/ReportingEndDate&gt;&#xD;
  &lt;/ReportDescription&gt;&#xD;
  &lt;ActivityDescription&gt;&#xD;
  &lt;lom:lom&gt;&#xD;
  &lt;lom:general uniqueElementName="general"&gt;&#xD;
  &lt;lom:identifier&gt;&#xD;
  &lt;lom:catalog uniqueElementName="catalog"&gt;ACCMESvc Activity ID&lt;/lom:catalog&gt;&#xD;
  &lt;lom:entry uniqueElementName="entry"&gt;210015702&lt;/lom:entry&gt;&#xD;
  &lt;/lom:identifier&gt;&#xD;
  &lt;lom:identifier&gt;&#xD;
  &lt;lom:catalog uniqueElementName="catalog"&gt;Provider Activity
ID&lt;/lom:catalog&gt;&#xD;
```

```

    <lom:entry uniqueElementName="entry">addactivityexample</lom:entry>&#xD;
  </lom:identifier>&#xD;
  <lom:identifier>&#xD;
    <lom:catalog uniqueElementName="catalog">URL</lom:catalog>&#xD;
    <lom:entry uniqueElementName="entry">http://www.example.nil</lom:entry>&#xD;
  </lom:identifier>&#xD;
  <lom:title uniqueElementName="title">&#xD;
    <lom:string>Internal Medicine Manuscript</lom:string>&#xD;
  </lom:title>&#xD;
  <lom:description uniqueElementName="description">&#xD;
    <lom:string>Content is the description of the information and topics that were
discussed during the CME activity.</lom:string>&#xD;
  </lom:description>&#xD;
  </lom:general>&#xD;
  <lom:educational>&#xD;
    <lom:typicalLearningTime uniqueElementName="typicalLearningTime">&#xD;
      <lom:duration uniqueElementName="duration">PT2H0M</lom:duration>&#xD;
    </lom:typicalLearningTime>&#xD;
  </lom:educational>&#xD;
  <hx:healthcareMetadata uniqueElementName="healthcareMetadata">&#xD;
    <hx:healthcareEducation>&#xD;
      <hx:credits>&#xD;
        <hx:activityCertification>AMA PRA Category
1</hx:activityCertification>&#xD;
        <hx:accreditedProvider>AAA Test Organization</hx:accreditedProvider>&#xD;
        <hx:numberOfCredits>2.00</hx:numberOfCredits>&#xD;
      </hx:credits>&#xD;
      <hx:targetAudience>&#xD;
        <hx:specialty>&#xD;
          <lom:string>Hematology</lom:string>&#xD;
        </hx:specialty>&#xD;
        <hx:specialty>&#xD;
          <lom:string>Nephrology</lom:string>&#xD;
        </hx:specialty>&#xD;
      </hx:targetAudience>&#xD;
      <hx:activityLocation>&#xD;
        <ad:StreetAddressLine />&#xD;
        <ad:Country />&#xD;
      </hx:activityLocation>&#xD;
      <hx:startDateTime>2021-01-30T00:00:00</hx:startDateTime>&#xD;
      <hx:endDateTime>2021-12-30T00:00:00</hx:endDateTime>&#xD;
      <hx:activitySponsorship>direct</hx:activitySponsorship>&#xD;
    </hx:healthcareEducation>&#xD;
  </hx:healthcareMetadata>&#xD;
  </lom:lom>&#xD;
  <CommercialSupportAmount currency="USD"
supportSource="AbioMed">12000.0000</CommercialSupportAmount>&#xD;
  </ActivityDescription>&#xD;
  <ParticipationMetrics>&#xD;
    <ParticipantsByCategory category="non-physician">10</ParticipantsByCategory>&#xD;
    <ParticipantsByCategory category="physician">2</ParticipantsByCategory>&#xD;
  </ParticipationMetrics>&#xD;
  <XtensibleInfo>&#xD;
    <ex:CommendationTags />&#xD;
    <ex:InKindSupports />&#xD;
    <ex:DeliveryMethods />&#xD;
    <ex:MeasuredOutcomes>&#xD;
      <ex:MeasuredOutcome>Learner Competence</ex:MeasuredOutcome>&#xD;
    </ex:MeasuredOutcomes>&#xD;
    <ex:MOCRegistrations>&#xD;
      <ex:MOCRegistration>&#xD;
        <ex:boardName>ABIM</ex:boardName>&#xD;
        <ex:mocPoints>2.00</ex:mocPoints>&#xD;
        <ex:MOCcreditType>Patient Safety</ex:MOCcreditType>&#xD;
        <ex:MOCcreditType>Medical Knowledge</ex:MOCcreditType>&#xD;
      </ex:MOCRegistration>&#xD;

```

```

</ex:MOCRegistrations>&#xD;
<ex:CreditClaimDate>2021-12-31T23:59:59</ex:CreditClaimDate>&#xD;
<ex:ForPublicList>true</ex:ForPublicList>&#xD;
<ex:FeeForParticipation />&#xD;
<ex:ActivityRegistration>Open to All</ex:ActivityRegistration>&#xD;

<ex:IsMeritBasedIncentivePaymentSystem>>false</ex:IsMeritBasedIncentivePaymentSystem>&#xD;
  </XtensibleInfo>&#xD;
  </MedicalEducationMetrics>&#xD;
</accme:ACCMEActivities></Data>
</SearchResult>

```

Tips for successful submission

- Be sure to always include the XML namespace of <http://schemas.datacontract.org/2004/07/BLL.Service>
- Content type must be “application/xml; charset=utf-8”
- Method of “POST” is required
- The elements in the SearchCriteria object MUST appear in the correct order (alphabetic).
- Any optional element that you are not searching for can be excluded from the search criteria (example – ActivityId can be excluded if not searching by ActivityId)
- Be sure to Decode the contents
- At least one of the properties marked with an asterisk* must be included: ActivityID, ActivityStartDate, ActivityTypeName, or ProviderActivityId

Parameter SearchCriteria Object

Property Name	Data Type	Max Length	Required	Description
ActivityID*	Int		No	ACCME Activity Id
ActivityStartDate*	DateTime		No	Date when activity started <i>Exclude from XML If not searching by this field</i>
ActivityTypeName*	String	50	No	Name of Activity Type: Live Course Regularly Scheduled Series Enduring Material Journal CME/CE Manuscript Review Test Item Writing Committee Learning Performance/Quality Improvement Internet Searching and Learning Learning from Teaching Other/Blended Learning <i>Exclude from XML If not searching by this field</i>
Password	String	100	Yes	Password created for web service

ProviderActivityId*	String	50	No	Your Organization Activity Id <i>Exclude from XML If not searching by this field</i>
ProviderId	String	10	Yes	Provider Id the web service was created under
SchemaVersion	Int	1	No	Enter a SchemaVersion value of 3 to receive the most current version of the Activity XML schema. Any other value will return a result with the legacy Activity XML format.
User	String	100	Yes	User Id created for web service

Returned SearchResult Object

<i>Property Name</i>	<i>Data Type</i>	<i>Max Length</i>	<i>Required</i>	<i>Description</i>
Data	String	Max	N/A	Contains result of search in format of Activity XML

Learner Data REST Web Service

Purpose of this Service:

The purpose of this web service is to expose methods to enable interaction between applications to add learner completion records to the ACCME PARS database. To add learner completion data that counts for physician certifying Board requirements, the activity must have been registered previously to award credit for MOC.

This service has three methods:

- SaveLearnerActivity
- GetLearnerStatusByLearner
- GetLearnerStatusByCreditId

Webconfig Bindings:

Since the XML data being sent/received to/from the service can be long, we suggest you setup your http binding with max values

```
<webHttpBinding>
  <binding name="webHttpBinding_ACCME">
    <security mode="None"></security>
    <readerQuotas maxDepth="128" maxStringContentLength="2147483647"
maxArrayLength="2147483647" maxNameTableCharCount="2147483647" />
  </binding>
</webHttpBinding>
```

Data Specifications

This web service supports REST requests with REST responses. To submit participant activities via the PARS II web service, simply invoke a web service call.

Production URL: <https://parsii.accme.org/services/ACCMELearnerService.svc/IACCMELearnerServiceREST>

Sandbox URL: <https://pars03nsbgateways01.azure-api.net/services/ACCMELearnerService.svc/IACCMELearnerServiceREST/>

METHOD: SaveLearnerActivity

This method is used to create or remove a learner completion record in PARS.

Content Type: application/xml; charset=utf-8

Method: POST

Production EndPoint:

<https://parsii.accme.org/services/ACCMELearnerService.svc/IACCMELearnerServiceREST/SaveLearnerActivity>

Sandbox EndPoint: [https://pars03nsbgateways01.azure-](https://pars03nsbgateways01.azure-api.net/services/ACCMELearnerService.svc/IACCMELearnerServiceREST/SaveLearnerActivity)

[api.net/services/ACCMELearnerService.svc/IACCMELearnerServiceREST/SaveLearnerActivity](https://pars03nsbgateways01.azure-api.net/services/ACCMELearnerService.svc/IACCMELearnerServiceREST/SaveLearnerActivity)

(Please note that there are many patterns and techniques for invoking a web service call depending on the development platform currently utilized by the provider organization. It is the responsibility of the provider organization to design and develop their web service call to fit their software application environment.)

Sample Request:

```
<SubmitMessage xmlns="http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects">
  <Data>
    <accme:ACCMELearnerReports xmlns="http://docs.accme.org/schemas/ACCMELearnerReports/v3/"
      xmlns:accme="http://docs.accme.org/schemas/ACCMELearnerReports/v3/"
      xmlns:ex="http://docs.accme.org/schemas/ACCMELearnerReportExtension/v3/"
      xmlns:ar="http://ns.medbiq.org/activityreport/v2/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:lom="http://ltsc.ieee.org/xsd/LOM" xmlns:m="http://ns.medbiq.org/member/v2/"
      xmlns:n="http://ns.medbiq.org/name/v2/" xmlns:hx="http://ns.medbiq.org/lom/extend/v1/"
      xmlns:a="http://ns.medbiq.org/address/v2/"
      xsi:schemaLocation="http://docs.accme.org/schemas/ACCMELearnerReports/v3/
ACCMELearnerReports.xsd">&gt;
      <ar:ActivityReports>&gt;
        <ar:DateTimeCreated>2021-08-11T00:00:00</ar:DateTimeCreated>
        <ar:ActivityReport>&gt;
          <ar:ReportingOrganization>AAA Test Organization</ar:ReportingOrganization>
          <ar:Member>&gt;
            <m:UniqueID domain="ME">MD999902</m:UniqueID>
            <m:UniqueID domain="ABIM">999902</m:UniqueID>
            <m:Name>&gt;
              <n:GivenName>Jane</n:GivenName>
              <n:FamilyName>ACCME</n:FamilyName>
            </m:Name>
            <m:PersonalInfo>&gt;
              <m:BirthDate>1904-10-30</m:BirthDate>
            </m:PersonalInfo>
          </ar:Member>
          <ar:Activity>&gt;
            <ar:ProviderOrganization>1234567</ar:ProviderOrganization>
            <ar:ActivityName>210015516</ar:ActivityName>
            <ar:Module>&gt;
              <ar:ModuleName moduleID="210015516">Internal Medicine Update 2</ar:ModuleName>
              <ar:Status>Completed</ar:Status>
              <ar:CompletedDateTime>2021-07-06T16:01:00</ar:CompletedDateTime>
              <ar:CreditCertificate>&gt;
                <ar:CreditReceived>&gt;
                  <hx:activityCertification>AMA PRA Category 1</hx:activityCertification>
                  <hx:creditUnit>Point</hx:creditUnit>
                  <hx:numberOfCredits>2</hx:numberOfCredits>
                </ar:CreditReceived>
                <ar:CreditID>ccid:aaatestorganization.org:v31234</ar:CreditID>
              </ar:CreditCertificate>
              <ar:CreditCertificate>&gt;
                <ar:CreditReceived>&gt;
                  <hx:activityCertification>ABIM Medical Knowledge</hx:activityCertification>
                  <hx:creditUnit>Point</hx:creditUnit>
                  <hx:numberOfCredits>1.5</hx:numberOfCredits>
                </ar:CreditReceived>
                <ar:CreditID>ccid:aaatestorganization.org:v31235</ar:CreditID>
              </ar:CreditCertificate>
              <ar:CreditCertificate>&gt;
                <ar:CreditReceived>&gt;
                  <hx:activityCertification>ABIM Patient Safety</hx:activityCertification>
                  <hx:creditUnit>Point</hx:creditUnit>
                  <hx:numberOfCredits>1.5</hx:numberOfCredits>
                </ar:CreditReceived>
                <ar:CreditID>ccid:aaatestorganization.org:v31236</ar:CreditID>
              </ar:CreditCertificate>
            </ar:Module>
          </ar:Activity>
        </ar:ActivityReport>
      </ar:ActivityReports>
    </accme:ACCMELearnerReports>
  </Data>
</SubmitMessage>
```

```
    </ar:CreditCertificate>
  </ar:Module>
</ar:Activity>
<ar:XtensibleInfo>
  <ex:learnerRecordAction>add</ex:learnerRecordAction>
</ar:XtensibleInfo>
</ar:ActivityReport>
</ar:ActivityReports>
</accme:ACCMELearnerReports>
</Data>
  <Password>*****</Password>
  <ProviderId>1234567</ProviderId>
  <ReportingYear>2021</ReportingYear>
  <User>webserviceuser@yourdomain.org</User>
</SubmitMessage>
```

Sample Response:

```
<ResponseMessage xmlns="http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Data>&lt;accme:ACCMELearnerReports
xmlns:ex="http://docs.accme.org/schemas/ACCMELearnerReportExtension/v3/"
xmlns:hx="http://ns.medbiq.org/lom/extend/v1/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:medbiq="http://ns.medbiq.org/metrics/v1/" xmlns:lom="http://ltsc.ieee.org/xsd/LOM"
xmlns:ad="http://ns.medbiq.org/address/v1/"
xmlns:accme="http://docs.accme.org/schemas/ACCMELearnerReports/v3/"&gt;&#xD;
  &lt;ActivityReports xmlns="http://ns.medbiq.org/activityreport/v2/"&gt;&#xD;
    &lt;DateTimeCreated&gt;2021-08-11T00:00:00&lt;/DateTimeCreated&gt;&#xD;
    &lt;ReportingStartDate&gt;0001-01-01&lt;/ReportingStartDate&gt;&#xD;
    &lt;ReportingEndDate&gt;0001-01-01&lt;/ReportingEndDate&gt;&#xD;
    &lt;ActivityReport&gt;&#xD;
      &lt;ReportingOrganization&gt;AAA Test Organization&lt;/ReportingOrganization&gt;&#xD;
      &lt;Member&gt;&#xD;
        &lt;UniqueID domain="ME" xmlns="http://ns.medbiq.org/member/v2/"&gt;
MD999902&lt;/UniqueID&gt;&#xD;
        &lt;UniqueID domain="ABIM"
xmlns="http://ns.medbiq.org/member/v2/"&gt;999902&lt;/UniqueID&gt;&#xD;
        &lt;Name xmlns="http://ns.medbiq.org/member/v2/"&gt;&#xD;
          &lt;GivenName xmlns="http://ns.medbiq.org/name/v2/"&gt;Jane&lt;/GivenName&gt;&#xD;
          &lt;FamilyName xmlns="http://ns.medbiq.org/name/v2/"&gt;ACCME&lt;/FamilyName&gt;&#xD;
          &lt;/Name&gt;&#xD;
          &lt;PersonalInfo xmlns="http://ns.medbiq.org/member/v2/"&gt;&#xD;
            &lt;BirthDate&gt;1904-10-30&lt;/BirthDate&gt;&#xD;
            &lt;/PersonalInfo&gt;&#xD;
          &lt;/Member&gt;&#xD;
          &lt;Activity&gt;&#xD;
            &lt;ProviderOrganization&gt;1234567&lt;/ProviderOrganization&gt;&#xD;
            &lt;ActivityName&gt;210015516&lt;/ActivityName&gt;&#xD;
            &lt;Module&gt;&#xD;
              &lt;ModuleName moduleID="210015516"&gt;Internal Medicine Update 2&lt;/ModuleName&gt;&#xD;
              &lt;Status&gt;Completed&lt;/Status&gt;&#xD;
              &lt;CompletedDateTime&gt;2021-07-06T00:00:00&lt;/CompletedDateTime&gt;&#xD;
              &lt;CreditCertificate&gt;&#xD;
                &lt;CreditReceived&gt;&#xD;
                  &lt;hx:activityCertification&gt;AMA PRA Category
1&lt;/hx:activityCertification&gt;&#xD;
                    &lt;hx:creditUnit&gt;Point&lt;/hx:creditUnit&gt;&#xD;
                    &lt;hx:numberOfCredits&gt;2&lt;/hx:numberOfCredits&gt;&#xD;
                    &lt;/CreditReceived&gt;&#xD;
                    &lt;CreditID&gt;ccid:aaatestorganization.org:v31234&lt;/CreditID&gt;&#xD;
                    &lt;/CreditCertificate&gt;&#xD;
                    &lt;CreditCertificate&gt;&#xD;
                    &lt;CreditReceived&gt;&#xD;
                      &lt;hx:activityCertification&gt;ABIM Medical
Knowledge&lt;/hx:activityCertification&gt;&#xD;
                        &lt;hx:creditUnit&gt;Point&lt;/hx:creditUnit&gt;&#xD;
                        &lt;hx:numberOfCredits&gt;1.5&lt;/hx:numberOfCredits&gt;&#xD;
                        &lt;/CreditReceived&gt;&#xD;
                        &lt;CreditID&gt;ccid:aaatestorganization.org:v31235&lt;/CreditID&gt;&#xD;
                        &lt;/CreditCertificate&gt;&#xD;
                        &lt;CreditCertificate&gt;&#xD;
                        &lt;CreditReceived&gt;&#xD;
                          &lt;hx:activityCertification&gt;ABIM Patient
Safety&lt;/hx:activityCertification&gt;&#xD;
                            &lt;hx:creditUnit&gt;Point&lt;/hx:creditUnit&gt;&#xD;
                            &lt;hx:numberOfCredits&gt;1.5&lt;/hx:numberOfCredits&gt;&#xD;
                            &lt;/CreditReceived&gt;&#xD;
                            &lt;CreditID&gt;ccid:aaatestorganization.org:v31236&lt;/CreditID&gt;&#xD;
                            &lt;/CreditCertificate&gt;&#xD;
                          &lt;/Module&gt;&#xD;
                        &lt;/Activity&gt;&#xD;
                      &lt;/XtensibleInfo&gt;&#xD;
                &lt;/ActivityReports&gt;&#xD;
  &lt;/Data>&lt;/ResponseMessage&gt;
```

```

        <learnerRecordAction
xmlns="http://docs.accme.org/schemas/ACCME LearnerReportExtension/v3/">add</learnerRecordAction
gt;&#xD;
    </XtensibleInfo>&#xD;
    </ActivityReport>&#xD;
    </ActivityReports>&#xD;
</accme:ACCME LearnerReports></Data>
    <ErrorMessages/
    <StatusCode>Accepted</StatusCode>
</ResponseMessage>

```

Tips for successful submission

- Always html encode your activity xml message
- Be sure to always include the XML namespace of <http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects>
- Content type must be “application/xml; charset=utf-8”
- Method of “POST” is required
- The elements in the SubmitMessage object MUST appear in the correct order (alphabetic).

Input Parameter SubmitMessage Object:

Property Name	Data Type	Max Length	Required	Description
Data	String	Max	Yes	XML activity data to be submitted to ACCME
Password	String	100	Yes	Password created for web service
ProviderId	String	10	Yes	Provider Id the web service was created under
User	String	100	Yes	User Id created for web service

Returned ResponseMessage Object:

Property Name	Data Type	Max Length	Required	Description	Sample Data
Data	String	Max	N/A	Return XML data sent to service	XML Example below
ErrorMessage	Array of Error Messages	Max	N/A	Array of errors found in XML data sent	Error Message Object
StatusCode	String	8	N/A	Returns either Accepted or Rejected	Accepted

ErrorMessage Object

Property Name	Data Type	Max Length	Required	Description	Sample Data
---------------	-----------	------------	----------	-------------	-------------

Code	String	3	N/A	Returns error code from PARS	621
Message	String	Max	N/A	Returns corresponding error messages from invalid data sent	Missing Diplomat ID.

METHOD: GetLearnerStatusByLearner

This method searches for all records matching the search criteria provided.

Content Type: application/xml; charset=utf-8

Method: POST

Production EndPoint:

<https://parsii.accme.org/services/ACCMELearnerService.svc/IACCMELearnerServiceREST/GetLearnerStatusByLearner>

Sandbox EndPoint: <https://pars03nsbgateways01.azure-api.net/services/ACCMELearnerService.svc/IACCMELearnerServiceREST/GetLearnerStatusByLearner>

Sample Request

```
<?xml version='1.0' encoding='utf-8'?>
<LearnerStatusSearchByLearner
xmlns="http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects">
  <ActivityId>210015647</ActivityId>
  <BirthDay>31</BirthDay>
  <BirthMonth>10</BirthMonth>
  <CompletionDate>2021-08-01</CompletionDate>
  <UniqueId>999902</UniqueId>
  <Password>***</Password>
  <ProviderId>1234567</ProviderId>
  <User>webserviceuser@accme.org</User>
</LearnerStatusSearchByLearner>
```

Sample Response:

```
<ArrayOfResponseMessage
xmlns="http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <ResponseMessage>
    <Data>Activity Id: 210015516; Submission Date: 08/24/2021 21:12:31 PM; Learner Id:
278846</Data>
    <ErrorMessages/>
    <StatusCode>Pending</StatusCode>
  </ResponseMessage>
</ArrayOfResponseMessage>
```

Tips for successful submission

- Be sure to always include the XML namespace of <http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects>

- Content type must be “application/xml; charset=utf-8”
- All elements are required for the search to execute
- Method of “POST” is required
- The elements in the LearnerStatusSearchByLearner object MUST appear in the correct order (alphabetic).

(Please note that there are many patterns and techniques for invoking a web service call depending on the development platform currently utilized by the provider organization. It is the responsibility of the provider organization to design and develop their web service call to fit their software application environment.)

Parameter LearnerStatusSearchByLearner Object:

Property Name	Data Type	Max Length	Required	Description
ActivityId	Int	20	Yes	ACCME Activity Id
BirthDay	Int	2	Yes	Learner’s birth day
BirthMonth	Int	2	Yes	Learner’s birth month
CompletionDate	DateTime		Yes	Learner’s completion date of the Activity
Password	String	100	Yes	Password created for web service
ProviderId	String	10	Yes	Provider Id the web service was created under
Uniqueld	String	20	Yes	Unique Id for Learner from the licensing or certifying board
User	String	100	Yes	User Id created for web service

Returned ArrayOfResponseMessage Object:

Property Name	Data Type	Max Length	Required	Description	Sample Data
ResponseMessage	Array of Response Messages	Max	N/A	Array of response Messages matching the Credit Id.	

ResponseMessage Object:

Property Name	Data Type	Max Length	Required	Description	Sample Data
Data	String	Max	N/A	Return a string with Activity Id; Submission Date; Learner Id	
ErrorMessage	Array of Error Messages	Max	N/A	Array of errors found in XML data sent	Error Message Object
StatusCode	String	8	N/A	Returns either Accepted, Rejected or Pending	Accepted

ErrorMessage Object

<i>Property Name</i>	Data Type	Max Length	Required	Description	Sample Data
Code	String	3	N/A	Returns error code from PARS	621
Message	String	Max	N/A	Returns error messages from invalid data sent	Missing Learner ID.

METHOD: GetLearnerStatusByCreditId

This method returns all Learner Completion records matching the Provider supplied Credit ID.

Content Type: application/xml; charset=utf-8

Method: POST

Production EndPoint:

https://parsii.accme.org/services/ACCME LearnerService.svc/IACCME LearnerServiceREST/GetLearnerStatusByCreditId

Sandbox EndPoint: https://pars03nsbgateways01.azure-

api.net/services/ACCME LearnerService.svc/IACCME LearnerServiceREST/GetLearnerStatusByCreditId

Sample Request:

```
<?xml version='1.0' encoding='utf-8'?>
<LearnerStatusSearchByCreditId
xmlns="http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects">
  <CreditId>ccid:testprovider.org:0b3f00a4-eb21-1a43-74c8-34bb0e843701</CreditId>
  <Password>***</Password>
  <ProviderId>1234567</ProviderId>
  <User>webserviceuser@testprovider.org</User>
</LearnerStatusSearchByCreditId>
```

Sample Response:

```
<ArrayOfResponseMessage
xmlns="http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <ResponseMessage>
    <Data>Activity Id: 210056789; Submission Date: 08/01/2021 04:30:15 PM; Learner Id:
999898</Data>
    <ErrorMessages/>
    <StatusCode>Accepted</StatusCode>
  </ResponseMessage>
</ArrayOfResponseMessage>
```

Tips for successful submission

- Be sure to always include the XML namespace of <http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects>
- Content type must be “application/xml; charset=utf-8”
- All elements are required for the search to execute
- Method of “POST” is required
- The elements in the LearnerStatusSearchByCreditId object MUST appear in the correct order (alphabetic).

(Please note that there are many patterns and techniques for invoking a web service call depending on the development platform currently utilized by the provider organization. It is the responsibility of the provider organization to design and develop their web service call to fit their software application environment.)

Parameter LearnerStatusSearchByCreditId Object:

Property Name	Data Type	Max Length	Required	Description
---------------	-----------	------------	----------	-------------

User	String	100	Yes	User Id created for web service
Password	String	100	Yes	Password created for web service
ProviderId	String	10	Yes	Provider Id the web service was created under
Credit Id	String	300	Yes	Unique Id for this instance of learner credit from provider system

Returned ArrayOfResponseMessage Object:

<i>Property Name</i>	Data Type	Max Length	Required	Description	Sample Data
ResponseMessage	Array of Response Messages	Max	N/A	Array of response Messages matching the Credit Id.	

ResponseMessage Object:

<i>Property Name</i>	Data Type	Max Length	Required	Description	Sample Data
Data	String	Max	N/A	Return a string with Activity Id; Submission Date; Learner Id	
ErrorMessage	Array of Error Messages	Max	N/A	Array of errors found in XML data sent	Error Message Object
StatusCode	String	8	N/A	Returns either Accepted, Rejected or Pending	Accepted

ErrorMessage Object

<i>Property Name</i>	Data Type	Max Length	Required	Description	Sample Data
Code	String	3	N/A	Returns error code from PARS	451
Message	String	Max	N/A	Returns corresponding error messages from invalid data sent	Invalid user: Access Denied

LearnerMatchRequest Web Service

The purpose of this web service is to enable CME providers to validate that the information available to them for identifying a learner matches with a distinct PARS entry for that learner.

METHOD: LearnerMatchRequest

This web service method returns a single numeric value equal to the count of PARS learners matched with information sent in the request. If this number is a 1, the identity information matches with a single PARS learner entry and is sufficient for reporting completion records for the learner.

If the LearnerMatchRequest response returns any value other than 1, the identity data does not match with a single PARS learner entry and attempts to submit learner completion records with this identity information will be rejected by PARS.

Content Type: application/xml; charset=utf-8

Method: POST

Production EndPoint: <https://parsii.accme.org/services/LearnerMatchService.svc/ILearnerMatchServiceREST/GetLearnerMatch>

Sandbox EndPoint: <https://pars03nsbgateways01.azure-api.net/services/LearnerMatchService.svc/ILearnerMatchServiceREST/GetLearnerMatch>

Sample Request:

```
<LearnerMatchRequest xmlns="http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <BirthDay>26</BirthDay>
  <BirthMonth>9</BirthMonth>
  <BoardIds>
    <BoardId>
      <Board>ABIM</Board>
      <LearnerId>999898</LearnerId>
    </BoardId>
  </BoardIds>
  <FirstName>Helen</FirstName>
  <LastName>Markman</LastName>
  <LicenseId>44861</LicenseId>
  <MedicalSchoolName>Harvard Medical School</MedicalSchoolName>
  <Npi>1234567890</Npi>
  <Password>***</Password>
  <StateName>OH</StateName> -->
  <User>webserviceuser@testprovider.org</User>
</LearnerMatchRequest>
```

Sample Response:

```
<LearnerMatchResponse
xmlns="http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <MatchedLearnerCount>1</MatchedLearnerCount>
</LearnerMatchResponse>
```

Tips for successful submission

- Be sure to always include the XML namespace of <http://schemas.datacontract.org/2004/07/ACCMEDataServices.ServiceObjects>
- Content type must be "application/xml; charset=utf-8"

- At a minimum, the elements FirstName and LastName and at least one of the elements marked with an asterisk* are required to attempt a learner match
- Method of “POST” is required
- The elements in the LearnerMatchRequest object MUST appear in the correct order (alphabetic).

(Please note that there are many patterns and techniques for invoking a web service call depending on the development platform currently utilized by the provider organization. It is the responsibility of the provider organization to design and develop their web service call to fit their software application environment.)

Parameter LearnerMatchRequest Object:

Property Name	Data Type	Max Length	Required	Description
BirthDay*	Numeric	2	No	Learner’s day of birth (1-31)
BirthMonth*	Numeric	2	No	Learner’s month of birth (1-12)
BoardIds*	Array of BoardId objects	Max	No	Array of BoardId objects for certifying board IDs available for the learner
FirstName	String	100	Yes	Learner’s first or given name
LastName	String	100	Yes	Learner’s last name/surname/family name
LicenseId*	String	100	No	State-issued license identifier for the learner
MedicalSchoolName*	String	255	No	Name of the USA medical school from which the learner graduated
Npi*	Numeric	10	No	Learner’s individual National Provider Identifier number
Password	String	100	Yes	Password created for web service
StateName*	String	2	No	Two letter postal abbreviation for USA state of licensure
User	String	100	Yes	User created for web service

BoardId Object:

Property Name	Data Type	Max Length	Required	Description	Sample Data
Board	String	10	Yes	Abbreviation for certifying board	ABIM
LearnerId	String	100	No	Identifier assigned by the board	999898

Returned LearnerMatchResponse Object:

<i>Property Name</i>	Data Type	Max Length	Required	Description	Sample Data
MatchedLearnerCount	Numeric	9999	N/A	Number of learner records in PARS that match with included data	1

PARS Test (“Sandbox”) Environment

ACCME has made available a “sandbox” or testing version of the PARS environment to assist providers in developing software to interact with PARS. Providers may also use the sandbox environment to experiment with the interface and test file upload formats.

Providers should enter test data exclusively in the sandbox environment. No test data should be added to the production version of PARS.

The sandbox site URL is <https://pars3sb.accme.org>.

Important note: All data in the sandbox site is considered testing data. ACCME will not accept test data as fulfillment of provider reporting requirements. Provider organization and contact information in the sandbox site may differ from the information in the production version of PARS. ACCME will not use this information for communications purposes. From time to time, ACCME will update the sandbox site to match the version of the production PARS site. Data in the sandbox site may not be retained permanently.

Appendix A: Error Codes for rejected Activity record transactions

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.
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.
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 data cannot be before the activity end date listed for the activity
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.
999	Fatal Error: Please contact IT Support.

Appendix B: Error Codes for Rejected Learner record transactions

Code #	Description
601	Learner record action was not specified.
602	Learner record action is not valid.
603	Duplicate record (Credit ID was same as a previous record).
605	Record not found. Delete action has unknown credit ID.
606	Record not found. Combination of diplomate ID, ACCME activity ID, and activity completion date was not found.
607	Learner record deletion cannot be accepted by Board.
621	Missing diplomate ID.
622	Missing diplomate first name.
623	Missing diplomate last name.
624	Missing diplomate date of birth.
630	Missing ACCME activity ID.

631	Missing activity completion date.
632	Missing MOC points.
650	Missing ACCME credit ID.
661	Diplomate ID not found in Board records.
664	Diplomate date of birth does not match Board record for this diplomate ID.
665	Diplomate name does not batch Board record.
670	Activity ID does not match with a registered MOC activity.
671	Activity completion date not valid.
672	Activity completion date preceeds activity start date.
673	MOC points not valid.
674	MOC points awarded are greater than amount listed for activity.
675	MOC points not in increment of .25
676	Invalid activityCertification value.
677	Missing creditCertificate element.
678	Invalid activity credit certificate. Activity certificate [Activity Certificate Name] allowed once per learner submission record.
680	Patient safety credit not available for activity.
681	Practice assessment credit not available for activity
690	ACCME activity ID does not exist
705	Due date for reporting participant data has passed. PARS will not accept participant records after the deadline set by the specialty board for the reporting year.
706	Deadline for deleting participant data has passed. PARS will not accept deletions of participant records past the date set by the specialty board.
709	Record is a duplicate for learner completion previously reported to Board.
710	Maximum MOC points already granted.
711	MOC points reported exceed maximum available to this learner for this activity.
712	Learner ID type is not valid.
713	Activity registration type is not valid.
714	OA REMS required field missing: [name of field]
715	OA REMS field [name of field] contains invalid data
716	Activity ID does not match a registered OA REMS activity.
717	Learner cannot receive MOC credit for multiple completions of this activity on a single date.
718	Unable to match a learner with the information provided
719	Diplomate birth date not valid.
720	Licensing state and licensing ID must be specified together
721	Unknown Licensing Board
722	CME Credits not valid.
723	DEA Registration not valid
724	Practice Area not valid
725	Practice State not valid
726	Profession not valid
727	Time in Practice not valid
728	Unknown MOC Board
729	Missing DEA Registration
730	Missing Practice Area
731	Missing Practice State
732	Missing Profession
733	Missing Surgical Procedures
734	Missing Time in Practice
735	MOC Credit Type not valid
736	Unknown REMS
737	Record matches multiple Diplomates
738	XML is Invalid: Exactly 1 Activity node expected
739	XML is Invalid: Exactly 1 Module node expected
740	XML is Invalid: Exactly 1 Member node expected
741	XML is Invalid: Exactly 1 Name node expected
742	XML is Invalid: Excatly 1 BirthDate node expected
743	XML is Invalid: Excatly 1 UniqueID node expected
744	XML is Invalid: Excatly 1 XtensibleInfo node expected
745	XML is Invalid: Excatly 1 Participants node expected
746	Missing Activity completion date
747	Activity completion date is after activity end date.
748	Total AMA Credits cannot be higher than the credits offered

749	Learners may not be reported for draft activities
750	Learners may not be reported for activities in the future
751	Repeat participation is not allowed
998	General learner record processing error.

Appendix C: Test learner records

The following is a list of diplomate records that can be used for the purpose of submitting test learner completion records in the sandbox PARS environment.

ABIM

Diplomate ID	DateOfBirth	FirstName (given name)	LastName (surname)	State of Licensure	State License ID
990016	01/01	Joe	ACCME	CA	94412289
999902	10/30	Jane	ACCME	ME	MD-999902
999999	02/11	John	ACCME	NC	MD-99999
999898	01/01	Helen	Markman	CA	CA999898
999925	01/01	Susan	O'Laughlin	ME	MD17827
999904	10/30	Lisa	Miller	NC	2016-00802
999905	10/30	Tracy	McCardell	CA	A-61054
999903	10/30	Damon	DeAngelis	ME	MD17837
999902	10/30	Bianca	Cevoli	NC	2015-00812
999901	10/27	Alison	Carey	CA	A-71058
999933	11/03	Joe	Test	ME	MD18827

ABA

Diplomate ID	DateOfBirth	FirstName	LastName	State of Licensure	State License ID
35867909	11/24	Tina	Karaccme	CA	14077934
35842092	7/4	Biba Lihau	Seyaccme	ME	26024984
35859112	8/3	Nicole	Minga-Caccme	NC	16126620
35840479	12/25	Bambi	Manaccme	OR	30145536
35931345	1/26	Alice	Neraccme	AL	64873839

ABP

Diplomate ID	DateOfBirth	FirstName	LastName	State of Licensure	State License ID
207691	05/25	Willa	Duncan	CA	70279062
209951	01/14	Drew	Beasley	ME	36322285
231233	10/16	Louisa	Hurst	NC	81345141
609153	01/06	Leilani	Terry	OR	55872818

ABPath

Diplomate ID	DateOfBirth	FirstName	LastName	State of Licensure	State License ID
1000106	03/01	Test2	Account2	CA	51376043
1000107	04/01	Test3	Account3	ME	13663940
1000108	05/01	Test4	Account4	NC	34050109
1000109	06/01	Test5	Account5	OR	24224293
1000110	07/01	Test6	Account6	CA	59091669
1000111	08/01	Test7	Account7	ME	89248578
1000112	09/01	Test8	Account8	NC	48069664
1000113	10/01	Test9	Account9	OR	78337451
1000105	02/01	Test10	Account10	CA	52228274
1000104	01/01	Test11	Account11	ME	95081033

ABOHNS

Diplomate ID	DateOfBirth	FirstName	LastName	State of Licensure	State License ID
999222	01/27	W.A.	Mozart	CA	65836436
999333	11/24	Scott	Joplin	ME	32508792
999444	02/03	Felix	Mendelssohn	NC	85854964
999555	09/13	Clara	Schumann	OR	32640291

ABO

Diplomate ID	DateOfBirth	FirstName	LastName	State of Licensure	State License ID
98989	03/30	Vincent	Van Gogh	CA	54916519
96969	11/15	Georgia	O'Keeffe	ME	57165175
97979	01/28	Jackson	Pollock	NC	48638327
95959	11/14	Claude	Monet	OR	72391740

ABS

Diplomate ID	DateOfBirth	FirstName	LastName	State of Licensure	State License ID
999999	2/7	Charles	Dickens	CA	34344539
888888	12/16	Jane	Austen	ME	94310220
777777	04/28	Harper	Lee	NC	69628729
666666	10/16	Oscar	Wilde	OR	32105313

Licensed/Not Board Certified

First Name	Last Name	Date Of Birth	NPI	State Licensing Details		State Licensing Details		State Licensing Details	
Sarah	Test	01/01	8888888888	TN	555555	NC	999995	ME	MD9988
Rebecca	Test	02/01	7777777777	TN	444444	NC	999994	ME	MD9977
Jean-Michel	Basquiat	12/22	3333333338	CA	G-176529	MD	D99375	OR	MD203167
Piet	Mondrian	03/07	4444444442	CA	C-175439	MD	TD930125	OR	MD217667
Diego	Rivera	12/08	8377333335	CA	G-176829	ND	21989	AL	02034064
Selma	Burke	12/31	8375323311	CA	G-136624	ND	37982	AL	02037063