



pennsylvania
LIQUOR CONTROL BOARD

Bureau of Alcohol Education
Office of Information Technology Services

Responsible Alcohol Management Program

Web Trainee Transfer Service

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Introduction

The Web Trainee eLMS Transfer Service allows an approved vendor to submit a trainee to the PLCB RAMP tracking system through a Web 2.0 interface. Using a Web 2.0 interface allows vendors to automate the submission of a trainee who has passed or failed an electronic version of the owner manager training course. This service is currently available for testing and production use, and this document outlines the usage of the service; the most current version of this document is available at the following link:

<https://www.apps.lcb.pa.gov/RAMP/Documentation/>

Web Service Keys

Upon request and approval, PLCB will provide each vendor with two web service keys: production and sandbox. The sandbox key should be used during testing, when the vendor wants to submit test requests to PLCB without actually certifying that the trainees in the request have completed training. When the production key is used, the submitted trainees will actually be recorded in the PLCB system as having passed the training. Exactly 1 key must be included in each request to the web service in the VendorIdentifier tag. These keys are used to secure the submission of trainee records, are unique to each vendor, and should be kept confidential. If a vendor key is compromised, the vendor should contact PLCB security to have the key revoked.

Submitting Trainees

Trainee submission is accomplished through a single web service call over https to:

<https://www.apps.lcb.pa.gov/RAMP/OwnerManager>

Requests should not be submitted if the remote host does not present a valid SSL certificate. The request to submit trainees is passed to the web service either as the content of a POST, or as a post field named 'Request' in the POST. The results of the request are returned in the HTTP response.

	Content Type header	Send request data in
Send as content	text/xml	Content of the HTTP request
Send as a form submission	multipart/form-data application/x-www-form-urlencoded etc.	Post field named 'Request'

The post field method is easier to implement for initial testing by using the following HTML in a local web page, while the content method is sometimes easier to implement in an automated system:

```
<form method=POST  
action="https://www.apps.lcb.pa.gov/RAMP/OwnerManager">  
  <textarea name="Request"></textarea>  
  <br>
```

```
<input type="Submit">
</form>
```

Schema

The request must be marked up in XML, and must validate against the RAMPeLMSTraineeSubmit schema. The schema for the trainee submission is available at the following link:

<https://www.apps.lcb.pa.gov/RAMP/xsd/RAMPeLMSTraineeSubmit.xsd>

Note: <SessionDateTime> field is the date-time an individual was trained, NOT the date-time processed.

Sample RAMPeLMSTraineeSubmit

(Indenting and line breaks are optional.)

```
<?xml version="1.0" encoding="UTF-8"?>
<RAMPeLMSTraineeSubmit>
  <VendorIdentifier>4e75d50a4b9a7f8a1cb2...eac0612dfd086a2cd439b3e16cc57c9d2</VendorIdentifier>
  <Trainee>
    <SessionDateTime>2011-09-30T13:49:36</SessionDateTime>
    <Name>
      <First>Tonia</First>
      <MiddleInitial>G</MiddleInitial>
      <Last>Kratochvil</Last>
    </Name>
    <Email>RedhouseMaple@somewhere.com</Email>
    <LID>901326</LID>
    <TraineeID>1234010180</TraineeID>
    <Address>
      <StreetOne>229 Jenna Steadings St.</StreetOne>
      <City>Mapleredhouse</City>
      <State>PA</State>
      <Zip>
        <FirstFive>41655</FirstFive>
        <LastFour>9477</LastFour>
      </Zip>
    </Address>
    <Phone>
      <Number>8529753105</Number>
      <Extension>9526</Extension>
    </Phone>
  </Trainee>
</RAMPeLMSTraineeSubmit>
```

Processing the Response

The web service XML response must be processed by the vendor to confirm that the trainee was successfully submitted to the system; receiving a response does not indicate that the trainee has been recorded into the PLCB system. There may have been errors with the XML, the Vendor Identifier, or the individual trainee. PLCB maintains a copy of the XML received and the XML response to the vendor for logging and auditing purposes.

Schema

The schema for the result includes 4 high level tags: ParseError, SystemError, VendorIdentificationError, TraineeError, and Processed. The first 4 indicate that the trainee was not

successfully submitted to the system. The Processed message means that the trainee was processed successfully.

The result schema is available at the following link:

<https://www.apps.lcb.pa.gov/RAMP/xsd/RAMPeLMSTraineeResult.xsd>

Invalid XML Result

If either invalid XML is sent, or if the XML fails to validate to the schema, a ParseError will be returned, along with Message tags for the errors encountered.

```
<RAMPeLMSTraineeResult>
  <ParseError>
    <Message>Fatal Error 4: Start tag expected, '&lt;' not found on line 1</Message>
    <Message>Error 1872: The document has no document element. on line 0</Message>
  </ParseError>
</RAMPeLMSTraineeResult>
```

Invalid Vendor Identifier Result

If the submitted VendorIdentifier is invalid, a VendorIdentificationError will be returned. The Message tag will indicate what VendorIdentifier was submitted.

```
<?xml version="1.0" encoding="UTF-8"?>
<RAMPeLMSTraineeResult>
  <VendorIdentificationError>
    <Message>4e86260b936ec2.28283837 is not valid</Message>
  </VendorIdentificationError>
</RAMPeLMSTraineeResult>
```

System Error Result

If the web service is unable to process the trainees at this time, a SystemError will be returned. Retry the request at a later time.

```
<?xml version="1.0" encoding="UTF-8"?>
<RAMPeLMSTraineeResult>
  <SystemError>
    <Message>E1001</Message>
  </SystemError>
</RAMPeLMSTraineeResult>
```

Trainee Error Result

If there is an error with the trainee, a TraineeError will be returned. The TraineeError node will contain the details of why the trainee was not accepted. Trainee errors include:

- Duplicate trainee (The same trainee, training, and session date/time were already processed.)
- Invalid LID (The LID specified with the trainee is not a valid PLCB LID.)
- Invalid session date/time (Session date/time must be within 30 days, and not in the future, of the current date/time with respect to any supplied time zone.)

```
<?xml version="1.0" encoding="UTF-8"?>
<RAMPeLMSTraineeResult>
  <TraineeError>
    <Message>Duplicate trainee</Message>
  </TraineeError>
</RAMPeLMSTraineeResult>
```

Processed Result

If the trainee was processed successfully, a Processed message will be returned. The Processed message includes an Environment tag which confirms the environment of the VendorIdentifier: TEST or PRODUCTION, and a TrainingSessionNumber, which can be recorded for proof of successful submission. (Successful submissions with the TEST VendorIdentifier will return a TrainingSessionNumber of 0.) The TraineeID and SessionDateTime are provided for reference.

```
<RAMPeLMSTraineeResult>
  <Processed>
    <Environment>PRODUCTION</Environment>
    <Trainee>
      <TrainingSessionNumber>158</TrainingSessionNumber>
      <SessionDateTime>2011-09-30T16:51:05</SessionDateTime>
      <TraineeID>1234010180</TraineeID>
    </Trainee>
  </Processed>
</RAMPeLMSTraineeResult>
```