



XML data format for reporting REMS learner data to PARS

This document defines the elements to be used by providers when reporting learner completion data to ACCME's Program and Activity Reporting System (PARS) for the Opioid Analgesic REMS program. The XML schema is based on version 1.54 of the **Medbiquitous ActivityReports** standard.

Some key points:

1. De-identified learner data is being collected in PARS for CME activities which have been registered for the Opioid Analgesic REMS program. Learner completion data that is not associated with an activity registered for the Opioid Analgesic REMS program will result in file validation errors.
2. This description includes only the data elements that are required to submit learner data to PARS. For complete documentation on all data elements that are supported by the Medbiquitous standard, please refer to the Medbiquitous website. Note that the ActivityReport standard incorporates by reference portions of the Healthcare Professional Profile and Healthcare Learning Objects Metadata (LOM) standards.
3. ACCME has extended the Medbiquitous schema by adding a custom root container (ACCMELearnerReports) and a subelement in the ActivityReport XtensibleInfo element to store metadata related to record transaction operations.
4. PARS will expect an ActivityReport element container for each participant completion record in the file. Each ActivityReport container will include one completion record for one learner.

Learner Completion Data Elements

| Element Name | Description | Min Occurs | Max Occurs | Type | ACCME Business Rules |
|----------------------------|--------------------------------------------------|------------|------------|---------|-------------------------------------------------------------------------------------|
| ACCMELearnerReports | Super root element container for ActivityReports | 1 | 1 | Complex | ACCMELearnerReports is the container for all participant completion records. |



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| Element Name | Description | Min Occurs | Max Occurs | Type | ACCME Business Rules |
|------------------------|-----------------------------------------------------------------------------------------------------------|------------|------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ActivityReports | Medbiquitous-defined container element. Contains one or more individual ActivityReport elements. | 1 | 1 | Complex | |
| DateTimeCreated | The date and time the current LearnerReports file was created. | 1 | 1 | Date/Time | Use format <i>yyyy-mm-ddThh:mm:ss</i> (Example: 2018-07-30T17:00:00) Submissions are assumed to be in CST unless time zone is indicated. |
| ActivityReport | Medbiquitous-defined container element. | 1 | many | Complex | Each ActivityReport element holds data for one learner completing one activity. For XML batch file uploads, multiple ActivityReport elements may be included in a single file. For records submitted using the PARS web services, only a single ActivityReport element should be included. |
| ReportingOrganization | Name of the organization that is the accredited provider of the CME activity. | 1 | 1 | String | Full name of the provider (Example: Western Regional Medical Center). |
| Participants | Container element. | 1 | 1 | Container | |
| Participant | Sub-element of Participants. Contains subelements that describe demographic details for a single learner. | 1 | 1 | Container | Only the sub-elements listed in this document are required. |



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| Element Name | Description | Min Occurs | Max Occurs | Type | ACCME Business Rules |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LocalIdentifier | An alphanumeric identifier for the learner used internally by the reporting organization. This should not allow other organizations to identify the learner. | 1 | 1 | String | |
| Domain | Attribute of LocalIdentifier. Must be in format <i>idd:domainname:localidentifiertype</i> where <i>domainname</i> is the domain name of the accredited provider and <i>localidentifiertype</i> is a local identifier for the type of unique ID. | 1 | 1 | String | Example: idd:university.edu:ce |
| StateOfPrimaryPractice | The state that the learner has identified as being the primary state in which he or she practices. | 0 | 1 | String | Use the full name of the state. Example: Michigan |
| DEARegistration | Indicates whether the learner is able to prescribe controlled substances, and if so, the type of registration which allows him or her to do so. | 0 | 1 | Restricted | Valid values: Individual, Institutional, None |
| Profession | The learner's profession. | 1 | 1 | Restricted | Valid values: Physician, Advanced practice nurse, Physician Assistant, Dentist, Podiatrist, Nurse, Pharmacist, Optometrist, Psychologist, Other healthcare professional, Other. |



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|------------------------------|-------------------------------------------------------------------------|------------|------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PracticeArea | The clinical area in which the learner practices. | 0 | 1 | Restricted | Valid values: Addiction, Anesthesiology, Critical Care, Dentistry, Emergency, Family Medicine, Geriatric, Hematology, Hospice and/or Palliative Care, Internal Medicine, Neurology, Obstetrics/Gynecology, Oncology, Ophthalmology, Pain, Pediatric, Physical Medicine and Rehabilitation, Psychiatry, General Surgery, Orthopedic surgery, Other surgical specialty, Urology, Other, N/A. |
| SurgicalProcedures | Indicates whether the learner performs surgical procedures. | 0 | 1 | Boolean | |
| TimeInPractice | The length of time the learner has been in practice. | 0 | 1 | Restricted | Valid values: Trainee, 0-5 years post training, 6-10 years, 11-15 years, 16-20 years, 21+ years. |
| Activity | Sub-element of ActivityReport | 1 | 1 | Container | Holds data elements for learner's completion of the CME activity. |
| ProviderOrganization | Organization ID number for the accredited provider of the CME activity. | 1 | 1 | String | Use the ACCME-issued 7-digit organization ID number, including any leading zeroes. (Example: 0008001). |
| ActivityName | Sub-element of Activity identifying the CME activity. | 1 | 1 | String | Use the ACCME-issued 9 digit Activity ID number (Example: 200654321). |
| RegulatoryInformation | Sub-element of Activity | 1 | 1 | Container | Holds data elements that describe the activity's relationship to any regulations. |



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| Element Name | Description | Min Occurs | Max Occurs | Type | ACCME Business Rules |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CompliantToRegulation | Sub-element of RegulatoryInformation. Indicates that the activity described is compliant to a regulation. | 1 | 1 | String/URL | For Opioid Analgesic REMS program, use http://www.accessdata.fda.gov/drugsatfda_docs/label/2018/OpioidREM2018.pdf |
| Label | Attribute of CompliantToRegulation. Labels the regulation. | 1 | 1 | String | For Opioid Analgesic REMS program, use "Opioid REMS" |
| Module | Sub-element of Activity | 1 | 1 | Container | Holds data elements for the learner's completion of the CME activity. |
| ModuleName | The name/title of the CME activity. Sub-element of Module. | 1 | 1 | String | Text name of the CME activity (Example: Western Regional Conference 2018). |
| moduleID | Attribute for ModuleName. The unique identifier for the activity. | 1 | 1 | String | User the ACCME-issued 9 digit Activity ID number (Example: 200654321). |
| Status | The status of the learner's completion of this activity. Sub-element of Module. | 1 | 1 | String (restricted) | The only accepted value is <i>Completed</i> . Any other value will cause the record to be rejected. |
| CompletedDateTime | The date and time for the learner's completion of the activity. CompletedDateTime must fall on or between the start and end dates of the activity. Sub-element of Module. | 1 | 1 | Date/Time | Use the format YYYY-MM-DDThh:mm:ss. (Example: 2018-08-01T00:00:00). Submissions are assumed to be in CST unless time zone is indicated. |
| XtensibleInfo | Container for custom elements added by ACCME. Sub-element of ActivityReport. | 1 | 1 | Container | |
| LearnerRecordAction | Describes the data transaction for the current ActivityReport record. Sub-element of XtensibleInfo. | 1 | 1 | String (restricted) | Use <i>add</i> for reporting a learner completion. Use <i>delete</i> for reporting the removal of a learner completion record. |



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Example Record

Following is an example of an ACCME Learner Reports record formatted for reporting de-identified learner completion of an Opioid Analgesic REMS activity. This record contains non-production data; providers will need to supply references to valid activity records in their own account in PARS when reporting data.

```
<accme:ACCME LearnerReports xsi:schemaLocation="http://www.accme.org/ACCME LearnerReports ACCME LearnerReports.xsd">
  <ar:ActivityReports>
    <ar:DateTimeCreated>2018-06-01T03:00:00</ar:DateTimeCreated>
    <ar:ActivityReport>
      <ar:ReportingOrganization>Western Regional Medical Center</ar:ReportingOrganization>
      <Participants>
        <Participant>
          <LocalIdentifier domain="idd:nonesuch.edu:ce">H046431</LocalIdentifier>
          <StateOfPrimaryPractice>Michigan</StateOfPrimaryPractice>
          <DEARegistration>Individual</DEARegistration>
          <Profession>Physician</Profession>
          <PracticeArea>General Surgery</PracticeArea>
          <SurgicalProcedures>true</SurgicalProcedures>
          <TimeInPractice>0-5 years post training</TimeInPractice>
        </Participant>
      </Participants>
      <ar:Activity>
        <ar:ProviderOrganization>0008001</ar:ProviderOrganization>
        <ar:ActivityName>200928702</ar:ActivityName>
        <RegulatoryInformation>
          <CompliantToRegulation label="Opioid
REMS">http://www.accessdata.fda.gov/drugsatfda_docs/label/2018/OpioidREM2018.pdf</CompliantToRegulation>
        </RegulatoryInformation>
        <ar:Module>
          <ar:ModuleName moduleID="200928702">rss</ar:ModuleName>
          <ar:Status>Completed</ar:Status>
          <ar:CompletedDateTime>2018-05-15T01:01:01</ar:CompletedDateTime>
        </ar:Module>
      </ar:Activity>
    </ar:ActivityReport>
  </ar:ActivityReports>
</accme:ACCME LearnerReports>
```



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