

CERS Schema Change Log Summary

Release 1.05 → Release 1.06

Prepared by Cal/EPA Technology Services Unit Staff June 14, 2013

This technical document summarizes changes in the CERS EDT XML Schemas since the previous [1.05 Release on January 18, 2013](#). That release included a summary of changes from the original [1.00 Release on April 24, 2012](#). This clean-up/consolidation release adds two additional schemas for endpoints requested by the EDT implementer community, as well as a number of edits to the Regulator Facility Submittal and Facility Metadata Submit schemas to address various corrections and other minor issues identified by CERS EDT testers and Cal/EPA staff since January 2013.

As of June 14, 2013, all CERS EDT environments will only accept the 1.06 versions of the `RegulatorFacilitySubmittal.xsd`, `RegulatorFacilityMetadata.xsd` and `RegulatorFacilityMetadataResponse.xsd` schemas. All other previously released schemas with 1.05 namespaces remain unchanged.

All public information about CERS EDT is posted at <http://cers.calepa.ca.gov/EDT/>. Technical questions about EDT can be referred to Chris Allen (chris.allen@calepa.ca.gov) or Randy Westra (randy.westra@calepa.ca.gov).

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RegulatorFacilitySubmittal.xsd

Some changes for this schema were identified during development of the RegulatorFacilitySubmittal.xsd, some changes correct errors while others reflect a change driven by a better design.

minOccurs Attribute

In an effort to reduce the size of XML submittal package and simplify the code EDT implementers will need for generating an XML file based on RegulatorFacilitySubmittal.xsd, all XML elements for data points that were not minimally-required per the [CERS Data Registry](#) have had their minOccurs attribute set to 0. This change supports these XML elements to **not** be provided if no value was provided by the facility owner/operator. CERS will treat missing XML elements as “Null”, which *means the business did not provide a value*.

Excessive Choice Sequences Removed

In previous versions of the schema, certain XML elements were grouped into XSD choice sequences, which allowed for 0 or multiple children XML elements to exist. Cal/EPA determined these Choice sequences offered little to no value to CERS or EDT implementers, so they were removed.

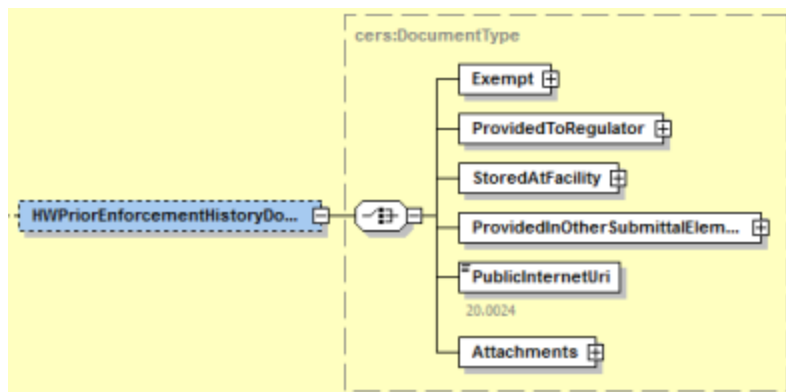
xs:positiveInteger replaced with xs:int

Several XML elements were typed with xs:positiveInteger which does not allow zero. In cases where zero is allowed, the data type was changed to be xs:int.

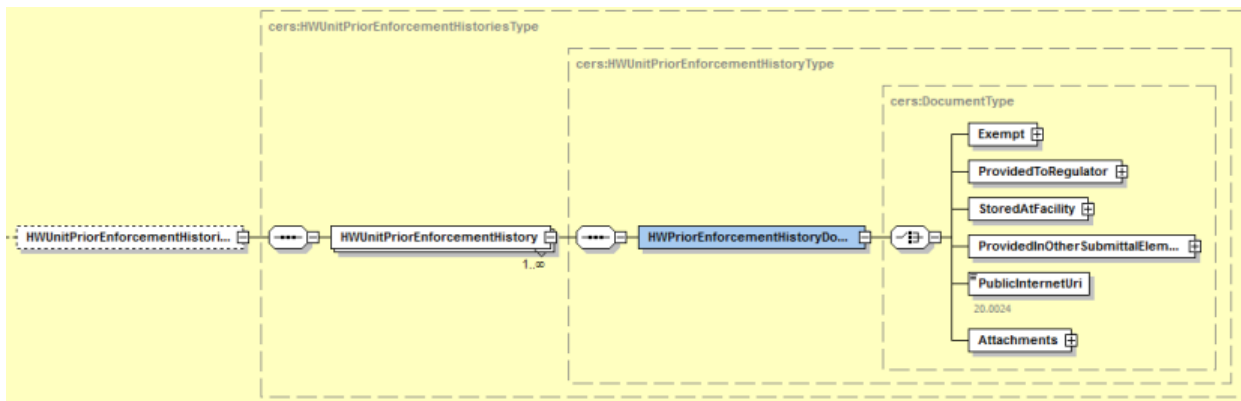
Documents

Several of the individual Submittal Element complex types (UST and Tiered Permitting specifically) defined overly complex document structures which this release simplifies considerably. This should simplify the coding required for EDT implementers.

Current Version (1.06)



Previous Version (1.05)



SubmittalElementHeader Complex Type

The SubmittalElementHeader complex type was changed significantly from previous releases.

Addition of SubmittalType XML Element

Facility Submittals submitted to this endpoint must be identified as one of these Submittal Types (CDR Field #20.0121):

Pass-Through Submittal:

The Facility Submittal originated from the actions of the facility's owner/operator while using a local reporting portal. The Submittal Elements exactly represent the data/documents submitted into the local reporting portal to meet legal reporting requirements for the facility, i.e., the data exactly reflects what the facility owner/operator entered in advance of pressing the "Submit" button in the local reporting portal. The facility submittal data has not been altered by the regulator. (Code value=2)

Proxy Submittal:

The Facility Submittal originated from the regulator submitting data on behalf of the facility's owner/operator. A typical Proxy Submittal use case would be that during a facility inspection or perhaps a phone call with the facility's owner/operator, it is jointly determined that a previously submitted data field(s) needs to be updated/corrected, and for whatever reason it is not convenient/practical for the business to submit the change in CERS (or a local reporting portal). So the regulator makes a change in their local data system that ultimately generates and sends a Proxy Submittal to CERS reflecting the change. In general Cal/EPA discourages CUPAs from making Proxy Submittals because a facility owner/operator could claim they did not agree to the Proxy Submittal's changes (and/or future submittals based upon it). (Code value=3)

For Proxy Submittals, the following Submitter-related fields should reflect the values shown below so CERS will clearly indicate the nature of the submittal.

- Provide in the SubmitterEmail (CDR #20.0013) field a meaningful email for the regulator who performed the modifications, or a generic email address for the regulator.
- Provide in the SubmitterFirstName (CDR #20.0011) field the first name of the regulator representative who performed the modification(s), or the following value: "Staff of"

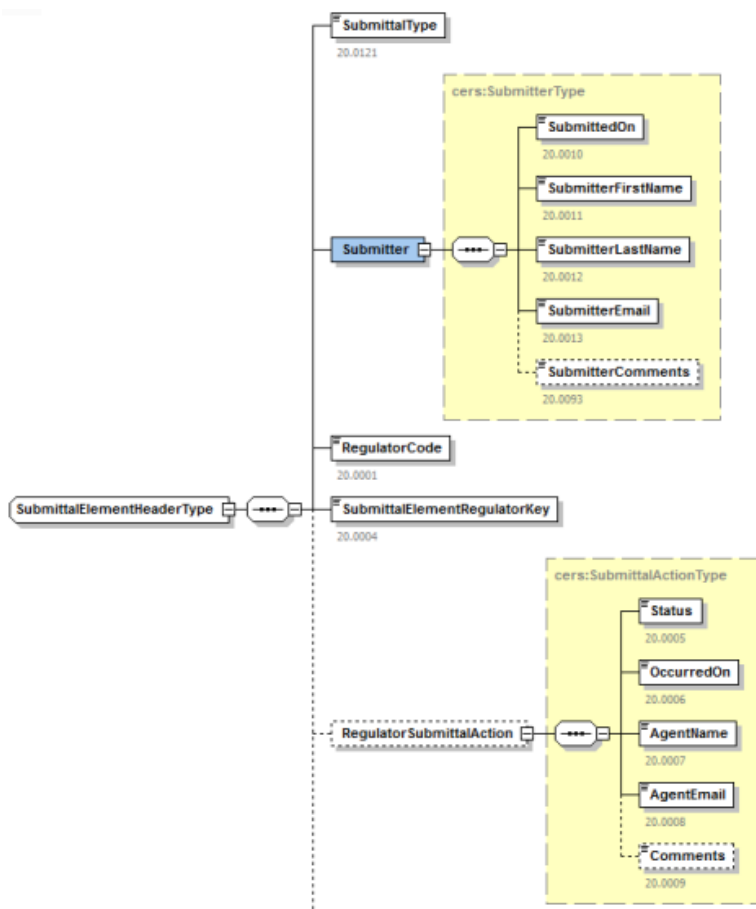
- Provide in the SubmitterLastName (CDR #20.0012) field the last name of the regulator representative who performed the modification(s), or put the name of the Regulator’s Agency (e.g., "AnyTown Environmental Health Services")
- Regulator must provide in the SubmitterComments (CDR #20.0093) field either: 1) details about the changes made by the regulator, or 2) provide the following minimal text: "There is regulator-entered information in this submission."

For every Proxy Submittal, CUPAs MUST send an email or paper mail communication to the facility owner/operator indicating they made the Proxy Submittal, and these communications must be retained/archived for review by Cal/EPA during CUPA evaluations.

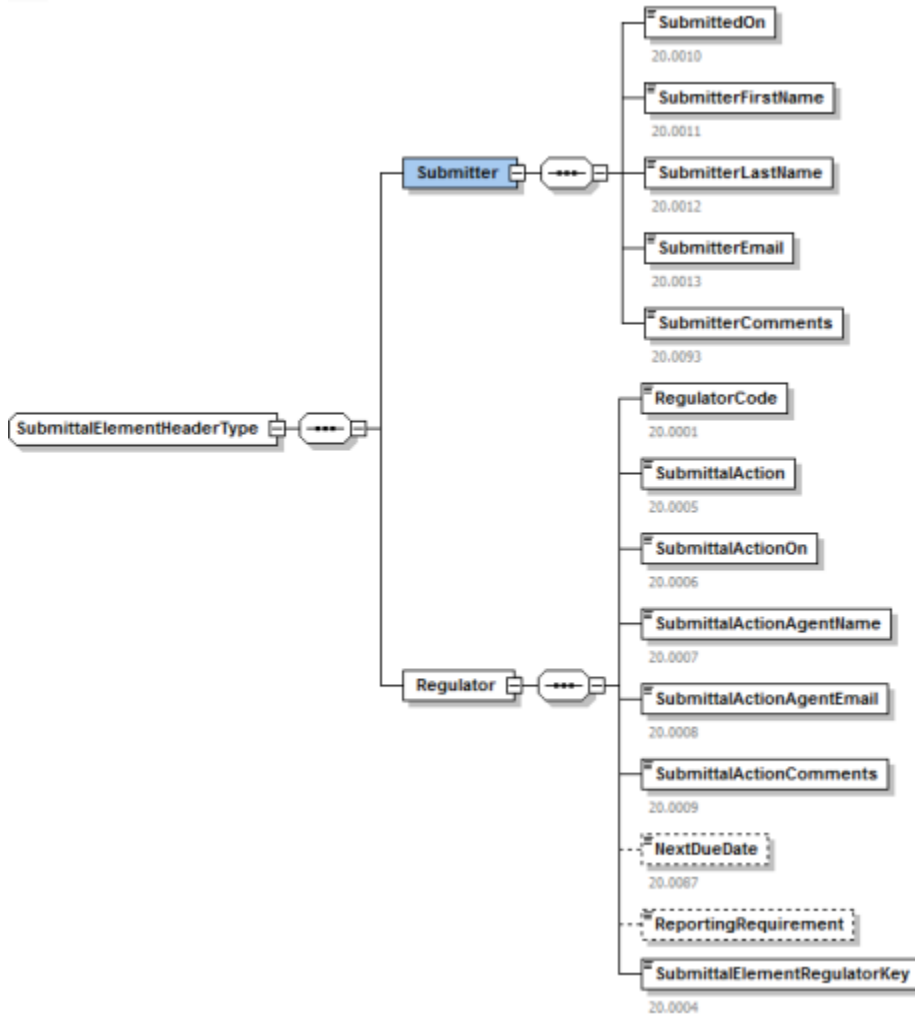
RegulatorSubmittalAction replaces Regulator XML Element

Cal/EPA identified a design issue in the SubmittalElementHeader’s Regulator element where all of the SubmittalAction subelements (SubmittalActionAgentName, SubmittalActionAgentEmail, SubmittalActionOn, SubmittalActionComments) would always need to be specified, which would be inappropriate for submittal elements that have not yet been acted upon by a regulator. To address this issue, the Regulator XML element was replaced with a RegulatorSubmittalAction XML element that contains the information noted above, and only needs to be expressed when the Submittal Element is being submitted with a Submittal Action other than “Submitted”.

Current Version (1.06)



Previous Version (1.05)



RegulatorFacilityMetadata.xsd

Cal/EPA made a minor correction to the `GeographicInformation` element to be consistent with other EDT schemas (e.g., `RegulatorFacilitySubmittalQuery.xsd`). No changes were made to the `RegulatorFacilityMetadataResponse.xsd` schema except to change its namespace to match the new 1.06 versioning of the `RegulatorFacilityMetadata.xsd` schema.

1.06 Version

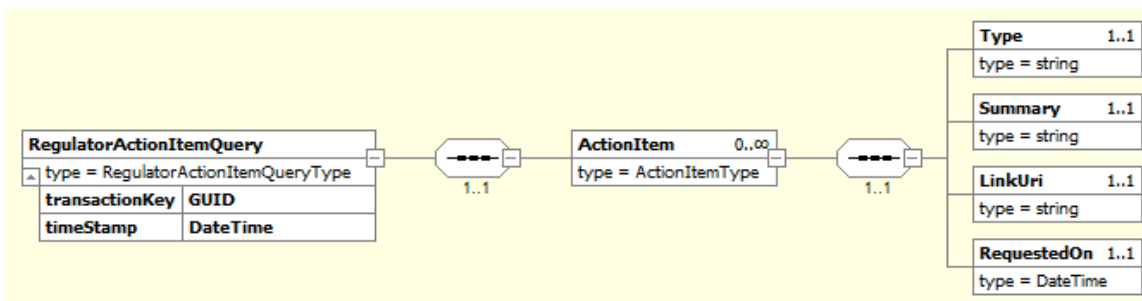
```
196 | <xs:element name="SubmittalElements" type="cers:SubmittalElementsType" minOccurs="0"/>
197 | <xs:element name="GeographicInformation" minOccurs="0">
198 |   <xs:complexType>
199 |     <xs:sequence>
200 |       <xs:element name="CERSPoint" type="cers:CERSGeographicPointLocationDataType"/>
201 |     </xs:sequence>
202 |   </xs:complexType>
203 | </xs:element>
204 | </xs:sequence>
205 | </xs:complexType>
206 | </xs:schema>
```

1.05 Version

```
178 <xs:element name="SubmittalElements" type="cers:SubmittalElementsType" minOccurs="0"/>
179 <xs:element name="GeographicInformation" type="cers:CERSGeographicPointLocationDataType" minOccurs="0"/>
180 </xs:sequence>
181 </xs:complexType>
182 </xs:schema>
183
```

RegulatorActionItemQuery.xsd

This schema is for the [Regulator Action Item Query](#) (RAIQ) endpoint that will be released during July in response to a request from an EDT implementer. The purpose of the schema/endpoint is to support an EDT implementer to query summary data for all of the Action Items their regulator has pending in CERS (e.g., Facility Transfer, Facility Delete, Organization Access Request) and display the listing inside of the local data system. The endpoint will return a listing of Action Items as shown below. Please provide any comments/suggestions on this schema/endpoint no later than June 30, 2013.



RegulatorFacilityTransferQuery.xsd

This schema is for the [Regulator Facility Transfer Query](#) (RFTQ) endpoint that will be released during July in response to a request from an EDT implementer. The purpose of the schema/endpoint is to support an EDT implementer proactively discovering ownership changes for CERS facilities in advance of learning about them from successive *Facility Information* submittals. The endpoint will return a listing of Facility Transfers in CERS that occurred on or since a specified date. Please provide any comments/suggestions on this schema/endpoint no later than June 30, 2013.

