

Preliminary XSD Change Summary for CERS 3

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This technical document summarizes the anticipated changes in the CERS EDT XML Schemas for CERS 3 development for the new APSA, UST, and CME features and enhancements.

Please note that this document is being provided for preparatory purposes to give the CERS EDT implementers community a forward look at the anticipated XML schema changes for CERS 3. Please note that while the intent of this document is to provide the most accurate summary possible of anticipated schema changes, the content is preliminary in nature and therefore subject to change.

Technical questions about EDT can be referred to Manoj Beeravelli (Manoj.Beeravelli@calepa.ca.gov) or John Miller (john.miller@calepa.ca.gov).

Revision History

Version	Description	Date
1	Initial version	5/10/2018
2	<ul style="list-style-type: none">- Added an additional affected schema for APSA: Regulator Facility Submittal Submit Response- Added additional elements to RFSQ and RFS schemas for APSA	6/1/2018
3	<ul style="list-style-type: none">- Removed CME- Added BOE	1/24/2019

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APSA Feature

New APSA Facility Information submittal element resource for APSA submittal element

New resource includes 4 new data registry fields:

- Conditionally Exempt APSA Tank Facility
- Date of SPCC Plan Certification or Date of 5-Year Review
- Total Aboveground Storage Capacity of Petroleum
- Number of Tanks in Underground Area(s)

Affected Schemas

Tier 2: Regulator Facility Submittal Query

Tier 6: Regulator Facility Submittal Submit

Tier 6: Regulator Facility Submittal Response

Schema Changes

Tier 2: Regulator Facility Submittal Query

- Add new complex type cers:APSAFacilityInformationType
 - Fields/elements
 - Conditionally Exempt APSA Tank Facility
 - XML Tag: ConditionallyExempt
 - Type: cers:YesNoFlagType
 - nullable: False
 - minOccurs: 1 (default)
 - Data Registry ID: 800
 - Date of SPCC Plan Certification or Date of 5-Year Review
 - XML Tag: SPCCPlanCertificationOrFiveYearReview
 - Type: cers:Date
 - nullable: True
 - minOccurs: 0
 - Data Registry ID: 801
 - Total Aboveground Storage Capacity of Petroleum
 - XML Tag: TotalAbovegroundStorageCapacityOfPetroleum
 - Type: xs:positiveInteger
 - nullable: True
 - minOccurs: 0
 - Data Registry ID: 802
 - Restriction(s)
 - TotalDigits: 12
 - Number of Tanks in Underground Area(s)
 - XML Tag: NumberOfTanksInUndergroundAreas
 - Type: xs:nonNegativeInteger
 - nullable: True
 - Data Registry ID: 803

- Restriction(s)
 - TotalDigits: 5
- APSA Facility Information Regulator Key
 - XML Tag: APSAFacilityInformationRegulatorKey
 - Type: cers:RegulatorEntityType
 - Data Registry ID: 20.0413
 - Restriction(s)
 - minLength: 0
- CERS Unique Key
 - XML Tag: CERSUniqueKey
 - Type: cers:CERSUniqueKey
 - Restriction(s)
 - minLength: 36
- Add new element of type cers:APSAFacilityInformationType to AbovegroundPetroleumStorageTanksType complex type
 - Restriction(s)
 - minOccurs: 0

Tier 6: Regulator Facility Submittal Submit

- Add new complex type cers:APSAFacilityInformationType
 - Fields/elements
 - Conditionally Exempt APSA Tank Facility
 - XML Tag: ConditionallyExempt
 - Type: cers:YesNoFlagType
 - nullable: False
 - minOccurs: 1 (default)
 - Data Registry ID: 800
 - Date of SPCC Plan Certification or Date of 5-Year Review
 - XML Tag: SPCCPlanCertificationOrFiveYearReview
 - Type: cers:Date
 - nullable: True
 - minOccurs: 0
 - Data Registry ID: 801
 - Total Aboveground Storage Capacity of Petroleum
 - XML Tag: TotalAbovegroundStorageCapacityOfPetroleum
 - Type: xs:positiveInteger
 - nullable: True
 - minOccurs: 0
 - Data Registry ID: 802
 - Restriction(s)
 - Total Digits: 12

- Number of Tanks in Underground Area(s)
 - XML Tag: NumberOfTanksInUndergroundAreas
 - Type: xs:nonNegativeInteger
 - nullable: True
 - minOccurs: 0
 - Data Registry ID: 803
 - Restriction(s)
 - TotalDigits: 5
- Add new element of type cers:APSAFacilityInformationType to AbovegroundPetroleumStorageTanksType complex type
 - Restriction(s):
 - minOccurs: 1 (default)

Target Schema Release

5/18/2018

Target CERS EDT Testing Environment Deployment

5/18/2018

UST Feature

CERS-Generated Unique UST ID Numbers

CERS will generate unique IDs for USTs

Affected Schemas

Tier 2: Regulator Facility Submittal Query

Tier 6: Regulator Facility Submittal Submit

Schema Changes

Tier 2: Regulator Facility Submittal Query

- Add new element CERSTankID to complex type cers:USTTankType
 - XML Tag: CERSTankID
 - Type: xs:string
 - Restriction(s)
 - Pattern: ([1-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]-[0-9][0-9][1-9])
 - Example: 10223456-001

Tier 6: Regulator Facility Submittal Submit

- Add new element CERSTankID to complex type cers:USTTankType
 - XML Tag: CERSTankID
 - Type: xs:string
 - Restriction(s)
 - Pattern: ([1-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]-[0-9][0-9][1-9])
 - Example: 10223456-001

Target Schema Release

9/1/2018

Target CERS EDT Testing Environment Deployment

9/1/2018

Add New Data Element Codes for Data Element 430 Type of Action (UST Tank)

Add two new values (data element codes) for data element 430 Type of Action (UST Tank) to facilitate transferring tanks from the APSA program to the UST program and vice versa.

Affected Schemas

Tier 2: Regulator Facility Submittal Query

Tier 6: Regulator Facility Submittal Submit

Schema Changes

Tier 2: Regulator Facility Submittal Query

- Add two new enumerations to element TypeOfAction under complex type cers:USTTankType
 - AST Change to UST (enumeration value TBD)
 - UST Change to AST (enumeration value TBD)
- Added Type of Action "Split Facility"
 - New type of action "Split Facility"
- Increase maxlength from 8 to 9 for BOENumberType type
 - Maxlength from 8 to 9"

Tier 6: Regulator Facility Submittal Submit

- Add two new enumerations to element TypeOfAction under complex type cers:USTTankType
 - AST Change to UST (enumeration value TBD)
 - UST Change to AST (enumeration value TBD)
- Add Type of Action “Split Facility”
 - New type of action “Split Facility”
- Increase maxlength from 8 to 9 for BOENumberType type
 - Maxlength from 8 to 9”

Target Schema Release

9/1/2018

Target CERS EDT Testing Environment Deployment

9/1/2018

Add New Data Element Codes for Data Element 439 Tank Use

Add one new value (data element code) for data element 439 Tank Use.

Affected Schemas

Tier 2: Regulator Facility Submittal Query

Tier 6: Regulator Facility Submittal Submit

Schema Changes

Tier 2: Regulator Facility Submittal Query

- Add one new enumeration to element TankUse under complex type cers:USTTankType
 - Airport Hydrant System (enumeration value = 07)

Tier 6: Regulator Facility Submittal Submit

- Add one new enumeration to element TankUse under complex type cers:USTTankType
 - Airport Hydrant System (enumeration value = 07)

Target Schema Release

9/1/2018

Target CERS EDT Testing Environment Deployment

9/1/2018

Add New Data Element Codes for Data Element 440 Tank Contents

Add four new values (data element codes) for data element 440 Tank Contents and obsolete 2 values. Obsolete values will remain in the XSD for historical purposes, but will raise warning guidance messages that obsolete data element codes are selected.

Affected Schemas

Tier 2: Regulator Facility Submittal Query

Tier 6: Regulator Facility Submittal Submit

Schema Changes

Tier 2: Regulator Facility Submittal Query

- Add four new enumerations to element TankContents under complex type cers:USTTankType
 - E85 (enumeration value TBD)
 - Biodiesel B6 – B99 (enumeration value TBD)
 - Biodiesel B100 (enumeration value TBD)
 - Kerosene (enumeration value TBD)

Tier 6: Regulator Facility Submittal Submit

- Add four new enumerations to element TankContents under complex type cers:USTTankType
 - E85 (enumeration value TBD)
 - Biodiesel B6 – B99 (enumeration value TBD)
 - Biodiesel B100 (enumeration value TBD)
 - Kerosene (enumeration value TBD)

Target Schema Release

9/1/2018

Target CERS EDT Testing Environment Deployment

9/1/2018

Tier 3: Regulator CME Submit

- Add new element PerformanceMeasure under complex type cers:ViolationType
 - XML Tag: PerformanceMeasure
 - 7 enumerated values (values TBD)

Target Schema Release

11/1/2018

Target CERS EDT Testing Environment Deployment

11/1/2018

Add New Data Element Technical Compliance Rate

Add new data element Technical Compliance Rate (data dictionary ID TBD), and obsolete data element 913a Significant Operational Compliance and associated data element codes. Data element 913a and associated codes will remain in the XSD for historical purposes, but will not be replaced by Technical Compliance Rate for future Inspections.

Affected Schemas

Tier 2: Regulator CME Query

Schema Changes

Tier 2: Regulator CME Query

- Add new element TechnicalComplianceRate under complex type cers:InspectionType
 - XML Tag: TechnicalComplianceRate
 - Type: xs:decimal

Target Schema Release

11/1/2018

Target CERS EDT Testing Environment Deployment

11/1/2018

Add New Type USTClosureRegulator

Create new entity/type called USTClosureRegulator. The purpose of this new type is to give regulators the ability to close USTs via the Inspection process. The new type will be added to the Regulator CME Submit and Regulator CME Query XSDs.

Affected Schemas

Tier 2: Regulator CME Query

Tier 3: Regulator CME Submit

Schema Changes split

Tier 2: Regulator CME Query

- Add new complex type cers:RegulatorUSTClosureType
 - Fields/elements
 - InspectionRegulatorKey
 - XML Tag: InspectionRegulatorKey
 - Type: cers:RegulatorEntityKeyType
 - nullable: true
 - minOccurs: 0
 - Data Registry ID: 20.0045
 - InspectionCERSUniqueKey
 - XML Tag: InspectionCERSUniqueKey
 - Type: cers:CERSUniqueKey
 - Restriction(s)
 - minLength: 36
 - RegulatorUSTClosureRegulatorKey
 - XML Tag: RegulatorUSTClosureRegulatorKey
 - Type: cers:RegulatorEntityKeyType
 - nullable: true
 - minOccurs: 0
 - Data Registry ID: TBD
 - RegulatorUSTClosureCERSUniqueKey
 - XML Tag: RegulatorUSTClosureCERSUniqueKey
 - Type: cers:CERSUniqueKey
 - Restriction(s)
 - minLength: 36
 - Regulator Type of Action (UST)
 - XML Tag: RegulatorTypeOfAction
 - Type: xs:string
 - nullable: False

- minOccurs: 0
 - Data Registry ID: TBD
 - Data Element Codes
 - UST Permanent Closure on Site (value 1)
 - UST Removal (value 2)
 - Restriction(s)
 - xs:enumeration value="1"
 - xs:enumeration value="2"
 - RegulatorDateUSTPermanentlyClosed
 - XML Tag: RegulatorDateUSTPermanentlyClosed
 - Type: cers:Date
 - nullable: true
 - minOccurs: 0
 - Data Registry ID: TBD
- Add new complex type cers:RegulatorUSTClosuresType
- Sequence
 - Type: RegulatorUSTClosureType
 - maxOccurs: unbounded
- Add new element "Regulator UST Closures" of type cers:RegulatorUSTClosuresType to cers:CMESubmittalsType complex type
- nullable: true

Tier 3: Regulator CME Submit

- Add new complex type cers:RegulatorUSTClosureType
- Fields/elements
 - InspectionRegulatorKey
 - XML Tag: InspectionRegulatorKey
 - Type: cers:RegulatorEntityKeyType
 - Data Registry ID: 20.0045
 - RegulatorUSTClosureRegulatorKey
 - XML Tag: RegulatorUSTClosureRegulatorKey
 - Type: cers:RegulatorEntityKeyType
 - Data Registry ID: TBD
 - Regulator Type of Action (UST)
 - XML Tag: RegulatorTypeOfAction
 - Type: xs:string
 - Data Registry ID: TBD
 - Data Element Codes
 - UST Permanent Closure on Site (value 1)
 - UST Removal (value 2)
 - Restriction(s)

- xs:enumeration value="1"
 - xs:enumeration value="2"
 - RegulatorDateUSTPermanentlyClosed
 - XML Tag: RegulatorDateUSTPermanentlyClosed
 - Type: cers:Date
 - Data Registry ID: TBD
- Add new complex type cers:RegulatorUSTClosuresType
 - Sequence
 - Type: RegulatorUSTClosureType
 - maxOccurs: unbounded
- Add new element "Regulator UST Closures" of type cers:RegulatorUSTClosuresType to cers:CMESubmittalsType complex type
 - nillable: true
 - minOccurs: 0

Target Schema Release

11/1/2018

Target CERS EDT Testing Environment Deployment

11/1/2018