

California ISO Readiness Notes

Title: CRR Production Patch (v 3.6.3) Update

Expected Production Date: August 24, 2023

Link to associated training documents (if applicable):

Contact: CustomerReadiness@caiso.com or submit a CIDI ticket

Beginning on August 24, 2023, the ISO will be updating XML files in the CRR MUI Production Environment. The following table provides details:

<p>Deployment Scope</p>	<p>CRR MUI application must output XML downloads with the correct <code><schemaLocation></code> pointing to a valid root <code>www.caiso.com...</code></p> <p>Impacted artifacts on <code>caiso.com</code> changes per the examples below will be updated to contain the corrected-</p> <ul style="list-style-type: none"> • Schema definition XSD files • Example XML files
<p>CRR Private downloads</p>	<p>Users must get successfully validated XML files for <u>previous or upcoming</u> market publications</p> <p>Users must be able to get a copy of the newly posted <code>xsd</code> files for the private downloads</p>
<p>CRR Public downloads</p>	<p>Users must get successfully validated XML files for <u>upcoming</u> market publications</p> <p>Users must be able to get a copy of the newly posted <code>xsd</code> files for the public downloads</p> <p>Previously posted public downloads <u>prior to the patch deployment</u> will remain <i>'as is'</i>, with the incorrect <code>schemaLocation</code>. System will not change/regenerate old files for download.</p>
<p>CRR Auction/Allocation Portfolio downloads</p>	<p>Users must get successfully validated XML files for any bid portfolio download (previous or upcoming market)</p>

Updated schema location for XML downloads

1. Private download example:

Existing: a user retrieves the Allocation signature XML file with this header:

```
<CRRDownload:CRRSignature xmlns:CRRDownload="http://crr.caiso.org/download/xml"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://crr.caiso.org/download/xml
http://ftapjbos10:8080/crr/download/xml/mui/PrivateAllocationCRRSignature.xsd">
```

Update:

```
<CRRDownload:CRRSignature xmlns:CRRDownload="http://crr.caiso.org/download/xml"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://crr.caiso.org/download/xml
http://www.caiso.com/Documents/PrivateAllocationCRRSignature.xsd">
```

2. Public download example:

Existing: a user retrieves the market results XML file with this header:

```
<CRRDownload:MarketResults xmlns:CRRDownload="http://crr.caiso.org/download/xml"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://crr.caiso.org/download/xml
http://ftapjbos10:8080/crr/mui/download/xml/PublicMarketResults.xsd">
```

Update:

```
<CRRDownload:MarketResults xmlns:CRRDownload="http://crr.caiso.org/download/xml"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://crr.caiso.org/download/xml
http://www.caiso.com/Documents/PublicMarketResults.xsd">
```

3. Auction portfolio download example:

Existing: a user retrieves the portfolio bid XML file with this header:

```
<CRRDownload:bids xmlns:CRRDownload="http://crr.caiso.org/download/xml"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xsi:schemaLocation="http://crr.caiso.org/download/xml  
http://ftapjbos10:8080/crr/mui/download/xml/AuctionPortfolio.xsd">
```

Update:

```
<CRRDownload:bids xmlns:CRRDownload="http://crr.caiso.org/download/xml"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="http://crr.caiso.org/download/xml  
http://www.caiso.com/Documents/AuctionPortfolio.xsd">
```

4. Allocation portfolio download example:

Existing: a user retrieves the portfolio bid XML file with this header:

```
<CRRDownload:nominations xmlns:CRRDownload="http://crr.caiso.org/download/xml"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="http://crr.caiso.org/download/xml  
http://ftapjbos10:8080/crr/mui/download/xml/AllocationStudyPortfolio.xsd">
```

Update:

```
<CRRDownload:nominations xmlns:CRRDownload="http://crr.caiso.org/download/xml"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="http://crr.caiso.org/download/xml  
http://www.caiso.com/Documents/AllocationStudyPortfolio.xsd">
```

Updated schema files for XML downloads

1. Private download example:

Existing: When a user retrieves the “ExistingCRRs” XML file with the following data content it results in “Invalid XML”- due to missing *Asset Owner* in the posted schema definition “ExistingCRRs.xsd” file

```
<CRRDownload:CRRID>999999</CRRDownload:CRRID>  
<CRRDownload:MarketName>ALLOC_LT_2015_S04_TL</CRRDownload:MarketName>  
<CRRDownload:AssetOwner>9999</CRRDownload:AssetOwner>
```

Resolution:

```
make optional = <element name="MarketParticipant" type="string" minOccurs="0"  
maxOccurs="1"/>
```

```
add optional = <element name="AssetOwner" type="string" minOccurs="0" maxOccurs="1"/>
```

2. Public download example:

Existing: When a user retrieves the “BaseLoading” XML file with the following data content it results in “Invalid XML” due to the incorrect *fractionDigits* cardinality “1” in the posted schema definition “BaseLoadingCRRs.xsd” file

```
<CRRDownload:BaseLoadingCRR>
<CRRDownload:MW>1.851</CRRDownload:MW>
```

Resolution:

```
update = <fractionDigits value="1"/> TO <fractionDigits value="3"/>
```

Schema Definition (XSD) File Updates

This patch deployment involves artifact updates posted on the [CRR Application](#) page, for entries marked with a “Yes”. Note that previously incorrect posted files will be overwritten with brand new ones.

#	Current posting on caiso.com	Update to Schema Filename	Change?	Description
1	BaseLoadingCRRs.xsd	BaseLoadingCRRs.xsd	Yes	Update <fractionDigits value="1"/> TO <fractionDigits value="3"/>
2	BindingConstraints.xsd	BindingConstraints.xsd	Yes	Rename element name="ShadowPrice" to "ClearingPrice" Update <element name="ShadowPrice" type="double" minOccurs="0"/> to <element name="ClearingPrice" type="double" minOccurs="0"/>
3	Contingencies.xsd	Contingencies.xsd	No	N/A
4	ExistingCRRs_xsd.xsd	ExistingCRRs.xsd	Yes	Update filename to remove extra "xsd" on www.caiso.com posting; Update schema: make optional: <element name="MarketParticipant" type="string" minOccurs="0" maxOccurs="1"/> add optional: <element name="AssetOwner" type="string" minOccurs="0" maxOccurs="1"/>
5	Interfaces.xsd	Interfaces.xsd	No	N/A
6	MonitoredLinesandTransformers.xsd	MonitoredLinesandTransformers.xsd	No	N/A
7	PrivateAllocationCRRSignature.xsd	PrivateAllocationCRRSignature.xsd	No	N/A
8	PrivateAllocationResults_xsd.xsd	PrivateAllocationResults.xsd	Yes	Update filename to remove extra "xsd" on www.caiso.com posting

9	PrivateAllocationUpperBound.xsd	PrivateAllocationUpperBound.xsd	No	N/A
10	PrivateAuctionResults_xsd.xsd	PrivateAuctionResults.xsd	Yes	Update filename to remove extra "xsd" on www.caiso.com posting; Update <element name="BidCurve" maxOccurs="10"> TO <element name="BidCurve" maxOccurs="20">
11	PrivateLoadMigration.xsd	PrivateLoadMigration.xsd	Yes	Update the <element name="LoadMigrationCr TO <element name="loadmigrationCrr"
12	PublicMarketResults_xsd.xsd	PublicMarketResults.xsd	Yes	Update filename to remove extra "xsd" on www.caiso.com posting
13	SourceSink.xsd	SourceSink.xsd	No	N/A
14	SourceSinkClearingPrices.xsd	SourceSinkClearingPrices.xsd	No	N/A
15	AuctionPortfolio_xsd.xsd	AuctionPortfolio.xsd	Yes	Update filename to remove extra "xsd" on www.caiso.com posting
16	AllocationStudyPortfolio_xsd.xsd	AllocationStudyPortfolio.xsd	Yes	Update filename to remove extra "xsd" on www.caiso.com posting
17	HistoricalForecast_xsd.xsd	HistoricalForecast.xsd	Yes	Update filename to remove extra "xsd" on www.caiso.com posting

For questions regarding this change please submit a CIDI ticket or contact your ISO Client Representative.