

Verifi Ticketing API (/rs/api/1.3/ticket)

This is the latest ticket api document as of **July/13/2018**

For a specific Verifi ticket, the ticket API stores all information on a request payload and returns back a response.

How to validate your API credentials:

Submit a GET request to the following url: <https://uat.verificoncrete.com/rs/api/1.3/test>

The 2 options below work from either Windows, Linux or Mac:

Option 1: Use CURL from the command line to validate your credentials:

```
curl -X GET https://uat.verificoncrete.com/rs/api/1.3/test -H 'cache-control: no-cache' -H 'content-type: application/json' -H 'verifi-user: user_name' -H 'verifi-user-pass: password'
```

Option 2: Use Postman:

How to submit a ticket to our production environment:

To submit a ticket, send via POST a verifi-ticket element in the following format:

<https://portal.verificoncrete.com/api/1.3/xml/ticket.xsd>

to the URL (Endpoint):

<https://portal.verificoncrete.com/rs/api/1.3/ticket>.

To authenticate, you will need to provide a username and password in the HTTP header fields **verifi-user** and **verifi-user-pass** which are assigned to you by Verifi.

The XML request payload fields are:

Field Name	Type	Description	Required
customer		Name of the customer that placed the order. Optionally, the identifier for this customer in the system that created this ticket can be specified using the @source-system-id attribute. If known, the identifier used by Verifi for this customer can be specified using @verifi-id attribute.	YES
job		Job refers to an order from customer to deliver concrete to a particular site location	YES
job > name		Name of the Job site	YES
job > address		Street address of Job site <i>Type: address-type</i>	YES
job > coordinates		Latitude and Longitude of Job site <i>Type : lat-lng-type</i>	NO
job > due-on-job		Scheduled date and time of the first delivery at Job site	NO
job > order-size		Size of total order	YES

job > minutes-between-deliveries		Time between deliveries	NO
job > volume-per-hour		Volume per hour in terms of CY or CM	NO
job > job-id		Job site ID	NO
plant		Plant information <i>Type : plant-ref-type</i>	YES
truck		Truck information <i>Type : shared-entity-type</i>	YES
scheduled-load-time		The scheduled time for loading the batch into the truck	NO
driver		Name of Driver	YES
mix > mix-code		Name of mix code	YES
load-size		Size of load in terms of CY or CM	YES
target-slump		Slump Target <i>Type: slump-target-type</i>	YES
batch-start		Actual loading start time	NO
batch-finish-time		Actual loaded end time	NO
net-allowable-water		The amount of water that can be added to the load by Verifi.	NO

materials > material > description	Description of material	NO
materials>material>category	Category of materials <i>Type: material-category-type</i>	NO
materials>material> target-weight	Target weight of load. <i>Type: measured-weight-type</i>	NO
materials>material> measured-weight	Actual measured weight of the material <i>Type: measured-weight-type</i>	NO
materials>material> target-volume	Volume target of load <i>Type: measured-volume-type</i>	NO
materials>material> measured-volume	Real Volume of the material <i>Type: measured-volume-type</i>	NO
materials > material > apparent-moisture-percentage	Apparent Moisture Percentage <i>Type: moisture-content-percentage-type</i>	NO
Materials > material > absorption-capacity	SSD moisture content. Not typically provided for materials other than aggregate.	NO
Materials > material > specific-gravity	Specific Gravity	NO
Materials > material > saturated-surface-dry	Specific Gravity Dry	NO
Materials > material > percent-actives	Percentage of material that is not water (applies to admixture materials).	NO

Attributes

ticket-id	Required: String
order-id	Required: String
Created	DateTime

Messages and Codes

Response Code	Description	Resolution
400	Bad request	Check your request XML
200	Success	Check your response XML

Example: Request

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<verifi-ticket xmlns="https://portal.verificoncrete.com/api/1.3/xml/ticket"
xmlns:ns2="https://portal.verificoncrete.com/api/1.3/xml/common-types"
ticket-id="4001" order-id="4001" created="2017-03-20T06:48:17.687-07:00">

  <customer source-system-id="100092">Construction of House</customer>

  <job job-id="0001">

    <address>

      <ns2:address-line>62 Whittemore Avenue</ns2:address-line>

      <ns2:address-line>Cambridge</ns2:address-line>

    </address>

    <due-on-job>2017-03-20T06:55:55.000-07:00</due-on-job>

    <order-size units="y3">100.0</order-size>

    <minutes-between-deliveries>65</minutes-between-deliveries>

    <coordinates>

      <ns2:latitude>70.89</ns2:latitude>
```

```
        <ns2:longitude>23.34</ns2:longitude>

    </coordinates>

</job>

<scheduled-load-time>2017-03-20T06:55:55.000-07:00</scheduled-load-time>

<plant source-system-id="08" />

<truck>296</truck>

<driver source-system-id="2289">Dan, Joe</driver>

<mix>

    <mix-code>24AB456B</mix-code>

</mix>

<load-size units="y3">5.0</load-size>

<target-slump units="in">

    <ns2:ordered>2.5</ns2:ordered>

</target-slump>

<batch-start>2017-03-20T06:55:55.000-07:00</batch-start>

<batch-finish-time>2017-03-20T06:58:30.000-07:00</batch-finish-time>

<net-allowable-water units='l'>5</net-allowable-water>

<materials>

    <material>

        <category>Fine Aggregate</category>

        <target-weight units="lb">5445.596</target-weight>

        <measured-weight units="lb">5520.0</measured-weight>

        <apparent-moisture-percentage>3.5</apparent-moisture-percentage>

        <absolute-moisture-percentage>3.5</absolute-moisture-percentage>

        <absorption-capacity>0.0</absorption-capacity>

        <specific-gravity>0.0</specific-gravity>

        <percent-actives>0.0</percent-actives>
```

</material>

<material>

<description>PILAR</description>

<category>Liquid Chemical Admixture</category>

<target-weight units="lb">5233.16</target-weight>

<measured-weight units="lb">5240.0</measured-weight>

<apparent-moisture-percentage>3.5</apparent-moisture-percentage>

<absolute-moisture-percentage>3.5</absolute-moisture-percentage>

<absorption-capacity>0.0</absorption-capacity>

<specific-gravity>93.11</specific-gravity>

<percent-actives>0.0</percent-actives>

</material>

<material>

<target-weight units="lb">4271.357</target-weight>

<measured-weight units="lb">4280.0</measured-weight>

<apparent-moisture-percentage>0.5</apparent-moisture-percentage>

<absolute-moisture-percentage>0.5</absolute-moisture-percentage>

<absorption-capacity>0.0</absorption-capacity>

<specific-gravity>0.0</specific-gravity>

<percent-actives>0.0</percent-actives>

</material>

```
</materials>

</verifi-ticket>
```

Example Response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<ns2:verifi-ticket-ref
xmlns:ns2="https://portal.verificoncrete.com/api/1.3/xml/ticket"
xmlns:ns3="https://portal.verificoncrete.com/api/1.3/xml/common-types"
ticket-id="4001" status="Sent" verifi-id="3682419">

    <ns2:plant source-system-id="08"></ns2:plant>

</ns2:verifi-ticket-ref>
```

Common-types.xsd

```
<?xml version="1.0" encoding="UTF-8"?>

<schema xmlns="http://www.w3.org/2001/XMLSchema" xmlns:vct="https://portal.verificoncrete.com/api/1.3/xml/common-types"
targetNamespace="https://portal.verificoncrete.com/api/1.3/xml/common-types" elementFormDefault="qualified">

  <simpleType name="weight-units-type">

    <annotation>

      <documentation>Supported unit designators for ice and other materials measured by weight.</documentation>

    </annotation>

    <restriction base="token">

      <enumeration value="lb">

        <annotation>

          <documentation>Pounds</documentation>

        </annotation>

      </enumeration>

      <enumeration value="kg">

        <annotation>
```

```
<documentation>Kilograms</documentation>
</annotation>
</enumeration>
</restriction>
</simpleType>
<simpleType name="water-units-type">
  <annotation>
    <documentation>Supported unit designators for water.</documentation>
  </annotation>
  <restriction base="token">
    <enumeration value="gal">
      <annotation>
        <documentation>Gallons</documentation>
      </annotation>
    </enumeration>
    <enumeration value="l">
      <annotation>
        <documentation>Liters</documentation>
      </annotation>
    </enumeration>
    <enumeration value="ml">
      <annotation>
        <documentation>Milliliters</documentation>
      </annotation>
    </enumeration>
    <enumeration value="fl oz">
      <annotation>
        <documentation>Fluid ounces</documentation>
      </annotation>
    </enumeration>
    <enumeration value="lb">
      <annotation>
        <documentation>Pounds</documentation>
      </annotation>
    </enumeration>
    <enumeration value="kg">
      <annotation>
        <documentation>Kilograms</documentation>
      </annotation>
    </enumeration>
  </restriction>
</simpleType>
```

```

</restriction>
</simpleType>
<simpleType name="material-category-type">
  <annotation>
    <documentation>Possible categories of materials that can be added to concrete during batching.</documentation>
  </annotation>
  <restriction base="string">
    <enumeration value="Coarse Aggregate"/>
    <enumeration value="Fine Aggregate"/>
    <enumeration value="Portland Cement"/>
    <enumeration value="Fly Ash (Cementitious)"/>
    <enumeration value="Slag Cement (Cementitious)"/>
    <enumeration value="Silica Fume (Cementitious)"/>
    <enumeration value="Metakaolin (Cementitious)"/>
    <enumeration value="Natural Pozzolan (Cementitious)"/>
    <enumeration value="Other Supplementary Cementitious Material"/>
    <enumeration value="Powder(Non-Cementitious)"/>
    <enumeration value="Liquid Chemical Admixture"/>
    <enumeration value="Fiber"/>
  </restriction>
</simpleType>
<complexType name="slump-target-type">
  <annotation>
    <documentation>Type used to indicate target slump.</documentation>
  </annotation>
  <sequence>
    <element name="ordered" type="double">
      <annotation>
        <documentation>Target slump indicated on order.</documentation>
      </annotation>
    </element>
    <element name="at-delivery" type="double" minOccurs="0">
      <annotation>
        <documentation>Target slump requested by customer at time of delivery, if different from the target
          indicated on the original order.
        </documentation>
      </annotation>
    </element>
  </sequence>
  <attribute name="units" type="vct:slump-units-type" use="required">
    <annotation>

```



```

    <documentation>Unit-of-measure used for the provided target slump value(s).</documentation>
  </annotation>
</attribute>
</complexType>
<complexType name="measured-weight-type">
  <simpleContent>
    <extension base="double">
      <attribute name="units" type="vct:weight-units-type" use="required"/>
    </extension>
  </simpleContent>
</complexType>
<complexType name="measured-water-type">
  <simpleContent>
    <extension base="double">
      <attribute name="units" type="vct:water-units-type" use="required"/>
    </extension>
  </simpleContent>
</complexType>
<attributeGroup name="shared-entity-attributes">
  <annotation>
    <documentation>Common attributes used to identify entities that are shared between Verifi and another system.
  </documentation>
  </annotation>
  <attribute name="verifi-id" type="long" use="optional">
    <annotation>
      <documentation>Value created and used by Verifi to identify a specific entity.
    </documentation>
  </annotation>
</attribute>
  <attribute name="source-system-id" type="string" use="optional">
    <annotation>
      <documentation>Value created by and used in a in a system external to Verifi.</documentation>
    </annotation>
  </attribute>
</attributeGroup>
<complexType name="address-type">
  <sequence>
    <element name="address-line" type="string" maxOccurs="3"/>
    <element name="city" type="string"/>
    <element name="state" type="string"/>
  </sequence>
</complexType>

```

```
<element name="postal-code" type="string"/>
</sequence>
</complexType>
<complexType name="lat-lng-type">
  <attribute name="latitude" type="double"/>
  <attribute name="longitude" type="double"/>
</complexType>
<complexType name="plant-ref-type">
  <complexContent>
    <extension base="vct:shared-entity-type">
      <attribute name="type" type="vct:plant-types-type" use="optional"/>
      <attribute name="sequence" type="token" use="optional"/>
    </extension>
  </complexContent>
</complexType>
<complexType name="moisture-content-percentage-type">
  <simpleContent>
    <extension base="double">
      <attribute name="from-moisture-meter" type="boolean" default="true"/>
    </extension>
  </simpleContent>
</complexType>
</schema>
```