Engine AWS API Document

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AWS API Overview

The AWS API is an extension to the existing Engine API. It allows an S3 Storage Path to be used to locate the media file.
This document provides information on the extended parts of the API and should be used in conjunction with the Engine API Document for full context.

Posting an S3 Path

An additional tag can be added to the **File** and **Report** tags called **AdvancedPathInfo.** This allow additional information to be added about the **Path** and **ReportPath** and how they should be resolved.

For AWS S3 Paths the **AwsS3PathInfo** tag is used.

The path type is specified in the **AwsS3PathType** tag. The following options are supported:

- AWS_S3_PATH_VIRTUAL_HOSTED_URL
- AWS_S3_PATH_URI

And additional tag **AwsS3RegionType** is needed when using *AWS_S3_PATH_URI* to specify the AWS Region.

The following regions are supported:

- us-east-2 [US East (Ohio)]
- us-east-1 [US East (N. Virginia)]
- us-west-1 [US West (N. California)]
- us-west-2 [US West (Oregon)]
- af-south-1 [Africa (Cape Town)]
- ap-east-1 [Asia Pacific (Hong Kong)]
- ap-southeast-3 [Asia Pacific (Jakarta)]
- ap-south-1 [Asia Pacific (Mumbai)]
- ap-northeast-3 [Asia Pacific (Osaka)]
- ap-northeast-2 [Asia Pacific (Seoul)]
- ap-southeast-1 [Asia Pacific (Singapore)]
- ap-southeast-2 [Asia Pacific (Sydney)]
- ap-northeast-1 [Asia Pacific (Tokyo)]
- ca-central-1 [Canada (Central)]
- eu-central-1 [Europe (Frankfurt)]
- eu-west-1 [Europe (Ireland)]
- eu-west-2 [Europe (London)]
- eu-south-1 [Europe (Milan)]
- eu-west-3 [Europe (Paris)]
- eu-north-1 [Europe (Stockholm)]
- me-south-1 [Middle East (Bahrain)]
- sa-east-1 [South America (São Paulo)]

An example of a job posts with S3 Paths can be found in ***Appendix B -Posting a S3 Virtual Hosted URL Path Example XML*** and ***Appendix C - Posting a S3 URI Path Example XML.***

Appendix A - Job POST with S3 XML Schema

```
<?xml version= 1.0  encoding= UTF-8  ?>
<xs:schema xmlns:xs= http://www.w3.org/2001/XMLSchema >

<?xml version="1.0" encoding="UTF-8" ?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <!--Uuid-->
  <xs:simpleType name="Uuid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[A-Fa-f0-9]{32}|(\{|\()?[A-Fa-f0-9]{8}-([A-Fa-f0-9]{4}-){3}[A-Fa-f0-9]{12}(\}|\))?"/>
    </xs:restriction>
  </xs:simpleType>

  <!--OnOff-->
  <xs:simpleType name="onOff">
    <xs:restriction base="xs:string">
      <xs:enumeration value="on"/>
      <xs:enumeration value="off"/>
    </xs:restriction>
  </xs:simpleType>

  <!--TrueFalse-->
  <xs:simpleType name="trueFalse">
    <xs:restriction base="xs:string">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>

  <!--Pattern for Report-->
  <xs:complexType name = "ReportParameter">
    <xs:sequence>
      <xs:element name="ReportPath" type="xs:string" maxOccurs="1"/>
      <xs:element name="ReportType" maxOccurs="1">
        <xs:complexType>
          <xs:attribute name="xml" type="onOff" use="required"/>
          <xs:attribute name="pdf" type="onOff" use="required"/>
          <xs:attribute name="csv" type="onOff" use="required"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="ReportName" maxOccurs="1">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Name" maxOccurs="1">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="Base" type="xs:string"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="AdvancedReportPathInfo" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="AwsS3PathInfo" minOccurs="0" maxOccurs="1">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="AwsS3PathType" type="xs:string" minOccurs="0" maxOccurs="1"/>
                  <xs:element name="AwsS3RegionType" type="xs:string" minOccurs="0" maxOccurs="1"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

  <!--Pattern for Source-->
  <xs:complexType name = "SourceParameter">
    <xs:sequence>
      <xs:element name="Id" maxOccurs="unbounded">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:element name="File" maxOccurs="unbounded">
              <xs:complexType>
```

```
                <xs:sequence>
                  <xs:element name="Name" maxOccurs="1">
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="Base" type="xs:string"/>
                      </xs:sequence>
                    </xs:complexType>
                  </xs:element>
                  <xs:element name="Path" type="xs:string" maxOccurs="1"/>
                  <xs:element name="AdvancedPathInfo" minOccurs="0">
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="AwsS3PathInfo" minOccurs="0" maxOccurs="1">
                          <xs:complexType>
                            <xs:sequence>
                              <xs:element name="AwsS3PathType" type="xs:string" minOccurs="0" maxOccurs="1"/>
                              <xs:element name="AwsS3RegionType" type="xs:string" minOccurs="0" maxOccurs="1"/>
                            </xs:sequence>
                          </xs:complexType>
                        </xs:element>
                      </xs:sequence>
                    </xs:complexType>
                  </xs:element>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="ReferenceTimecode" type="xs:string" minOccurs="0" maxOccurs="1"/>
            <xs:element name="Segment" minOccurs="0">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="SOM" type="xs:string" minOccurs="0" maxOccurs="1"/>
                  <xs:element name="DUR" type="xs:string" minOccurs="0" maxOccurs="1"/>
                  <xs:element name="EOM" type="xs:string" minOccurs="0" maxOccurs="1"/>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
          <xs:attribute name="uuid" type="Uuid" use="required"/>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
</xs:complexType>

<!--Pattern for Destination-->
<xs:complexType name = "DestinationParameter">
  <xs:sequence>
    <xs:element name="Id" maxOccurs="unbounded">
      <xs:complexType mixed="true">
        <xs:sequence>
          <xs:element name="File" maxOccurs="unbounded">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="Name" maxOccurs="1">
                  <xs:complexType>
                    <xs:sequence>
                      <xs:element name="Base" type="xs:string"/>
                    </xs:sequence>
                  </xs:complexType>
                </xs:element>
                <xs:element name="Path" type="xs:string" maxOccurs="1"/>
                <xs:element name="AdvancedPathInfo" minOccurs="0">
                  <xs:complexType>
                    <xs:sequence>
                      <xs:element name="AwsS3PathInfo" minOccurs="0" maxOccurs="1">
                        <xs:complexType>
                          <xs:sequence>
                            <xs:element name="AwsS3PathType" type="xs:string" minOccurs="0" maxOccurs="1"/>
                            <xs:element name="AwsS3RegionType" type="xs:string" minOccurs="0" maxOccurs="1"/>
                          </xs:sequence>
                        </xs:complexType>
                      </xs:element>
                    </xs:sequence>
                  </xs:complexType>
                </xs:element>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
          <xs:element name="Timecode" type="xs:string" minOccurs="0" maxOccurs="1"/>
          <xs:element name="StreamTagging" minOccurs="0" maxOccurs="1">
            <xs:complexType>
              <xs:sequence>
```

```
                    <xs:element name="Stream" minOccurs="0" maxOccurs="64">
                      <xs:complexType>
                        <xs:attribute name="number" type="xs:string" use="required"/>
                        <xs:attribute name="languageTag" type="xs:string" use="required"/>
                      </xs:complexType>
                    </xs:element>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
              <xs:element name="ChannelTagging" minOccurs="0" maxOccurs="1">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="Channel" minOccurs="0" maxOccurs="64">
                      <xs:complexType>
                        <xs:attribute name="number" type="xs:string" use="required"/>
                        <xs:attribute name="channelTag" type="xs:string" use="required"/>
                      </xs:complexType>
                    </xs:element>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
              <xs:element name="Segment" minOccurs="0">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="SOM" type="xs:string" minOccurs="0" maxOccurs="1"/>
                    <xs:element name="DUR" type="xs:string" minOccurs="0" maxOccurs="1"/>
                    <xs:element name="EOM" type="xs:string" minOccurs="0" maxOccurs="1"/>
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
            <xs:attribute name="uuid" type="Uuid" use="required"/>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>


    <!--Main-->
    <xs:element name="Jobs">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Job" minOccurs="1" maxOccurs="unbounded">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="Workflow">
                  <xs:complexType>
                    <xs:attribute name="uuid" type="Uuid" use="required"/>
                  </xs:complexType>
                </xs:element>
                <xs:element name="Source" type="SourceParameter" minOccurs="1" maxOccurs="1"/>
                <xs:element name="Destination" type="DestinationParameter" minOccurs="0" maxOccurs="1"/>
                <xs:element name="Report" type="ReportParameter" minOccurs="0" maxOccurs="1"/>
              </xs:sequence>
              <xs:attribute name="uuid" type="Uuid"/>
              <xs:attribute name="title" type="xs:string"/>
              <xs:attribute name="userFlag" type="xs:string"/>
              <xs:attribute name="priority" type="trueFalse"/>
              <xs:attribute name="version" type="xs:string" use="required"/>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>

</xs:schema>
```

Appendix B -Posting a S3 Virtual Hosted URL Path Example XML

```
POST http://localhost:44544/jobs HTTP/1.1 Content-Type: text/xml
Host: localhost:44544
<Jobs>
  <Job uuid="" title="JOB1" userFlag="User1" priority="false" version="7">
    <Workflow uuid="{b401b37c-f85b-48a5-b46f-0e5cc1f1ad53}"/>
    <Source>
      <Id uuid="{00000000-0000-0000-0000-000000000000}">
        <File>
          <Name>
            <Base>Test.mxf</Base>
          </Name>
          <Path>https://emotions3bucket.s3.eu-west-2.amazonaws.com/Source/</Path>
          <AdvancedPathInfo>
            <AwsS3PathInfo>
              <AwsS3PathType>AWS_S3_PATH_VIRTUAL_HOSTED_URL</AwsS3PathType>
            </AwsS3PathInfo>
          </AdvancedPathInfo>
        </File>
      </Id>
    </Source>
    <Destination>
      <Id uuid="{d377260d-f071-45a3-a992-38747ed75574}">
        <File>
          <Name>
            <Base>Test-completed.mxf</Base>
          </Name>
          <Path>https://emotions3bucket.s3.eu-west-2.amazonaws.com/Destination</Path>
          <AdvancedPathInfo>
            <AwsS3PathInfo>
              <AwsS3PathType>AWS_S3_PATH_VIRTUAL_HOSTED_URL</AwsS3PathType>
            </AwsS3PathInfo>
          </AdvancedPathInfo>
        </File>
      </Id>
    </Destination>
    <Report>
      <ReportPath>https://emotions3bucket.s3.eu-west-2.amazonaws.com/Report</ReportPath>
      <ReportType pdf="on" csv="off" xml="on"/>
      <ReportName>
        <Name>
          <Base>Test-Report</Base>
        </Name>
      </ReportName>
      <AdvancedReportPathInfo>
        <AwsS3PathInfo>
          <AwsS3PathType>AWS_S3_PATH_VIRTUAL_HOSTED_URL</AwsS3PathType>
        </AwsS3PathInfo>
      </AdvancedReportPathInfo>
    </Report>
  </Job>
</Jobs>
```

Appendix C - Posting a S3 URI Path Example XML

```
POST http://localhost:44544/jobs HTTP/1.1 Content-Type: text/xml
Host: localhost:44544
<Jobs>
  <Job uuid="" title="JOB1" userFlag="User1" priority="false" version="7">
    <Workflow uuid="{b401b37c-f85b-48a5-b46f-0e5cc1f1ad53}"/>
    <Source>
      <Id uuid="{00000000-0000-0000-0000-000000000000}">
        <File>
          <Name>
            <Base>Test.mxf</Base>
          </Name>
          <Path>s3://emotions3bucket/Source/</Path>
          <AdvancedPathInfo>
            <AwsS3PathInfo>
              <AwsS3PathType>AWS_S3_PATH_URI</AwsS3PathType>
              <AwsS3RegionType>eu-west-2</AwsS3RegionType>
            </AwsS3PathInfo>
          </AdvancedPathInfo>
        </File>
      </Id>
    </Source>
    <Destination>
      <Id uuid="{d377260d-f071-45a3-a992-38747ed75574}">
        <File>
          <Name>
            <Base>Test-completed.mxf</Base>
          </Name>
          <Path>s3://emotions3bucket/Destination</Path>
          <AdvancedPathInfo>
            <AwsS3PathInfo>
              <AwsS3PathType>AWS_S3_PATH_URI</AwsS3PathType>
              <AwsS3RegionType>eu-west-2</AwsS3RegionType>
            </AwsS3PathInfo>
          </AdvancedPathInfo>
        </File>
      </Id>
    </Destination>
    <Report>
      <ReportPath>s3://emotions3bucket/Report</ReportPath>
      <ReportType pdf="on" csv="off" xml="on"/>
      <ReportName>
        <Name>
          <Base>Test-Report</Base>
        </Name>
      </ReportName>
      <AdvancedReportPathInfo>
        <AwsS3PathInfo>
          <AwsS3PathType>AWS_S3_PATH_URI</AwsS3PathType>
          <AwsS3RegionType>eu-west-2</AwsS3RegionType>
        </AwsS3PathInfo>
      </AdvancedReportPathInfo>
    </Report>
  </Job>
</Jobs>
```