

# **SMPTE STANDARD**

## **D-Cinema Operations — Facility List Message — Amendment 1**



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### **Foreword**

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SMPTE Engineering Documents are drafted in accordance with the rules given in its Standards Operations Manual.

Amendment 1 to SMPTE ST 430-7:2008 was prepared by Technology Committee 21DC.

### **Intellectual Property**

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## 1 Scope

This document amends SMPTE ST 430-7:2008.

## 2 Amendments

### 2.1 Section 5.2

Line 1 of Table 1 is replaced by the following:

dcml	<a href="http://www.smpte-ra.org/schemas/433/2008/dcmlTypes/">http://www.smpte-ra.org/schemas/433/2008/dcmlTypes/</a>
------	---

### 2.2 Annex C

Replace the body of Annex C with the following:

The XML Schema document presented in this appendix normatively defines the structure of a Facility List Message using a machine-readable language. While this schema is intended to faithfully represent the structure presented in the normative prose portions (Sections 5 and 6) of this document, conflicts in definition may occur. In the event of such a conflict, the normative prose shall be the authoritative expression of the standard.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  xmlns:flm="http://www.smpte-ra.org/schemas/430-7/2008/FLM"
  xmlns:etm="http://www.smpte-ra.org/schemas/430-3/2006/ETM"
  xmlns:dcml="http://www.smpte-ra.org/schemas/433/2008/dcmlTypes/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  targetNamespace="http://www.smpte-ra.org/schemas/430-7/2008/FLM"
  elementFormDefault="qualified" attributeFormDefault="unqualified"
  id="FacilityListMessage">
  <xs:import namespace="http://www.w3.org/2000/09/xmldsig#" />
  <xs:import namespace="http://www.smpte-ra.org/schemas/433/2008/dcmlTypes/" />
  <xs:complexType name="FLMRequiredExtensionsType">
    <xs:sequence>
      <xs:element name="FLMPartial" type="xs:boolean" minOccurs="0"/>
      <xs:element name="FacilityInfo">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="FacilityID" type="xs:anyURI"/>
            <xs:element name="AnnotationText" type="dcml:UserTextType"
              minOccurs="0"/>
            <xs:element name="FacilityName" type="dcml:UserTextType" minOccurs="0"/>
            <xs:element name="UTCOffset" type="flm:UTCOffsetType" minOccurs="0"/>
            <xs:element name="ContactInfo" type="flm:ContactInfoType"
              minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SecurityDeviceList" type="flm:SecurityDeviceListType"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

```

<xs:complexType name="SecurityDeviceListType">
  <xs:choice>
    <xs:element name="SecurityDevice" type="flm:CombinedType"
      maxOccurs="unbounded"/>
    <xs:element name="SecurityDeviceCertificate" type="flm:CertOnlyType"
      maxOccurs="unbounded"/>
  </xs:choice>
</xs:complexType>

<xs:complexType name="CertOnlyType">
  <xs:sequence>
    <xs:element ref="ds:KeyInfo"/>
    <xs:element name="ForensicMarkId" type="flm:ForensicMarkIdType" minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="CombinedType">
  <xs:complexContent>
    <xs:extension base="flm:CertOnlyType">
      <xs:sequence>
        <xs:element name="DeviceDescription" type="dcml:deviceDescriptionType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="ForensicMarkIdType">
  <xs:sequence>
    <xs:element name="AlgorithmId" type="xs:anyURI"/>
    <xs:element name="MarkId">
      <xs:simpleType>
        <xs:restriction base="xs:nonNegativeInteger">
          <xs:minInclusive value="0"/>
          <xs:maxInclusive value="524287"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ContactInfoType">
  <xs:sequence>
    <xs:element name="Name" type="dcml:UserTextType"/>
    <xs:element name="CountryCode" type="dcml:UserTextType"/>
    <xs:element name="Phone1" type="dcml:UserTextType"/>
    <xs:element name="Phone2" type="dcml:UserTextType"/>
    <xs:element name="Email" type="dcml:UserTextType"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="UTCOffsetType">

```

```

<xs:sequence>
  <xs:element name="Offset" type="flm:HourMinuteType"/>
  <xs:element name="DSTException" minOccurs="0">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="DSTOffset" type="flm:HourMinuteType"/>
        <xs:element name="DSTStart" type="xs:dateTime"/>
        <xs:element name="DSTEnd" type="xs:dateTime"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>

<xs:simpleType name="HourMinuteType">
  <xs:restriction base="xs:string">
    <xs:pattern value="-?[0-9][0-9]:[0-9][0-9]"/>
  </xs:restriction>
</xs:simpleType>
</xs:schema>

```

### 2.3 Annex D

Replace the body of Annex D with the following:

```

<?xml version="1.0" encoding="UTF-8"?>
<etm:DCinemaSecurityMessage xsi:schemaLocation="http://www.smpte-ra.org/schemas/430-3/2006/ETM etm4flm.xsd"
  xmlns:dcml="http://www.smpte-ra.org/schemas/433/2008/dcmlTypes/"
  xmlns:etm="http://www.smpte-ra.org/schemas/430-3/2006/ETM"
  xmlns:flm="http://www.smpte-ra.org/schemas/430-7/2008/FLM"
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <etm:AuthenticatedPublic Id="ID_1">
    <etm:MessageId>urn:uuid:00000000-0000-0000-0000-000000000000</etm:MessageId>
    <etm:MessageType>http://ExampleFLM</etm:MessageType>
    <etm:AnnotationText language="en">Example FLM</etm:AnnotationText>
    <etm:IssueDate>2001-12-17T09:30:47.0Z</etm:IssueDate>
    <etm:Signer>
      <ds:X509IssuerName>String</ds:X509IssuerName>
      <ds:X509SerialNumber>0</ds:X509SerialNumber>
    </etm:Signer>
    <etm:RequiredExtensions>
      <etm:FLMRequiredExtensions>
        <flm:FLMPartial>>false</flm:FLMPartial>
        <flm:FacilityInfo>
          <flm:FacilityID>http://www.facility.com</flm:FacilityID>
          <flm:AnnotationText language="en">String</flm:AnnotationText>
          <flm:FacilityName language="en">String</flm:FacilityName>
          <flm:UTCOffset>
            <flm:Offset>00:00</flm:Offset>
            <flm:DSTException>
              <flm:DSTOffset>00:00</flm:DSTOffset>

```

```

    <flm:DSTStart>2001-12-17T09:30:47.0Z</flm:DSTStart>
    <flm:DSTEnd>2001-12-17T09:30:47.0Z</flm:DSTEnd>
  </flm:DSTException>
</flm:UTCOffset>
<flm:ContactInfo>
  <flm:Name language="en">String</flm:Name>
  <flm:CountryCode language="en">String</flm:CountryCode>
  <flm:Phone1 language="en">String</flm:Phone1>
  <flm:Phone2 language="en">String</flm:Phone2>
  <flm:Email language="en">String</flm:Email>
</flm:ContactInfo>
</flm:FacilityInfo>
<flm:SecurityDeviceList>
  <flm:SecurityDevice>
    <ds:KeyInfo Id="ID_2">
      <ds:KeyName>String</ds:KeyName>
      <ds:KeyName>String</ds:KeyName>
      <ds:KeyName>String</ds:KeyName>
    </ds:KeyInfo>
    <flm:ForensicMarkId>
      <flm:AlgorithmId>http://www.facility.com</flm:AlgorithmId>
      <flm:MarkId>0</flm:MarkId>
    </flm:ForensicMarkId>
    <flm:ForensicMarkId>
      <flm:AlgorithmId>http://www.facility.com</flm:AlgorithmId>
      <flm:MarkId>0</flm:MarkId>
    </flm:ForensicMarkId>
    <flm:ForensicMarkId>
      <flm:AlgorithmId>http://www.facility.com</flm:AlgorithmId>
      <flm:MarkId>0</flm:MarkId>
    </flm:ForensicMarkId>
    <flm:DeviceDescription>
      <dcml:DeviceIdentifier idtype="DeviceUID">urn:uuid:00000000-0000-0000-0000-000000000000</dcml:DeviceIdentifier>
      <dcml:DeviceTypeID scope="http://www.smpte-
ra.org/schemas/433/2008/dcmlTypes/#device-type-
tokens">token</dcml:DeviceTypeID>
      <dcml:DeviceSubsystemTypeID scope="http://www.smpte-
ra.org/schemas/433/2008/dcmlTypes/#device-type-
tokens">token</dcml:DeviceSubsystemTypeID>
      <dcml:DeviceSerial>String</dcml:DeviceSerial>
      <dcml:ManufacturerID>urn:uuid:00000000-0000-0000-0000-000000000000</dcml:ManufacturerID>

      <dcml:ManufacturerCertID>UjBsR09EbGhjZ0dTQUxNQUFBUUNBRU1tQ1p0
dU1GUXhEUzhi</dcml:ManufacturerCertID>

      <dcml:DeviceCertID>UjBsR09EbGhjZ0dTQUxNQUFBUUNBRU1tQ1p0dU1GUX
hEUzhi</dcml:DeviceCertID>
      <dcml:ManufacturerName>String</dcml:ManufacturerName>
      <dcml:DeviceName>String</dcml:DeviceName>
      <dcml:ModelNumber>String</dcml:ModelNumber>
      <dcml:VersionInfo>

```

```
<dcml:Name>String</dcml:Name>
  <dcml:Value>String</dcml:Value>
</dcml:VersionInfo>
  <dcml:DeviceComment language="en">String</dcml:DeviceComment>
</flm:DeviceDescription>
</flm:SecurityDevice>
<flm:SecurityDevice>
  <ds:KeyInfo Id="ID_3">
    <ds:KeyName>String</ds:KeyName>
    <ds:KeyName>String</ds:KeyName>
    <ds:KeyName>String</ds:KeyName>
  </ds:KeyInfo>
  <flm:ForensicMarkId>
    <flm:AlgorithmId>http://www.altova.com</flm:AlgorithmId>
    <flm:MarkId>0</flm:MarkId>
  </flm:ForensicMarkId>
  <flm:ForensicMarkId>
    <flm:AlgorithmId>http://www.altova.com</flm:AlgorithmId>
    <flm:MarkId>0</flm:MarkId>
  </flm:ForensicMarkId>
  <flm:ForensicMarkId>
    <flm:AlgorithmId>http://www.altova.com</flm:AlgorithmId>
    <flm:MarkId>0</flm:MarkId>
  </flm:ForensicMarkId>
  <flm:DeviceDescription>
    <dcml:DeviceIdentifier idtype="DeviceUID">urn:uuid:00000000-0000-0000-0000-000000000000</dcml:DeviceIdentifier>
    <dcml:DeviceTypeID scope="http://www.smpte-ra.org/schemas/433/2008/dcmlTypes/#device-type-tokens">token</dcml:DeviceTypeID>
    <dcml:DeviceSubsystemTypeID scope="http://www.smpte-ra.org/schemas/433/2008/dcmlTypes/#device-type-tokens">token</dcml:DeviceSubsystemTypeID>
    <dcml:DeviceSerial>String</dcml:DeviceSerial>
    <dcml:ManufacturerID>urn:uuid:00000000-0000-0000-0000-000000000000</dcml:ManufacturerID>
    <dcml:ManufacturerCertID>UjBsR09EbGhjZ0dTQUxNQUFBUUNBRU1tQ1p0dU1GUXhEUzhi</dcml:ManufacturerCertID>
    <dcml:DeviceCertID>UjBsR09EbGhjZ0dTQUxNQUFBUUNBRU1tQ1p0dU1GUXhEUzhi</dcml:DeviceCertID>
    <dcml:ManufacturerName>String</dcml:ManufacturerName>
    <dcml:DeviceName>String</dcml:DeviceName>
    <dcml:ModelNumber>String</dcml:ModelNumber>
    <dcml:VersionInfo>
      <dcml:Name>String</dcml:Name>
      <dcml:Value>String</dcml:Value>
    </dcml:VersionInfo>
    <dcml:DeviceComment language="en">String</dcml:DeviceComment>
  </flm:DeviceDescription>
</flm:SecurityDevice>
<flm:SecurityDevice>
```

```

<ds:KeyInfo Id="ID_4">
  <ds:KeyName>String</ds:KeyName>
  <ds:KeyName>String</ds:KeyName>
  <ds:KeyName>String</ds:KeyName>
</ds:KeyInfo>
<flm:ForensicMarkId>
  <flm:AlgorithmId>http://www.altova.com</flm:AlgorithmId>
  <flm:MarkId>0</flm:MarkId>
</flm:ForensicMarkId>
<flm:ForensicMarkId>
  <flm:AlgorithmId>http://www.altova.com</flm:AlgorithmId>
  <flm:MarkId>0</flm:MarkId>
</flm:ForensicMarkId>
<flm:ForensicMarkId>
  <flm:AlgorithmId>http://www.altova.com</flm:AlgorithmId>
  <flm:MarkId>0</flm:MarkId>
</flm:ForensicMarkId>
<flm:DeviceDescription>
  <dcml:DeviceIdentifier idtype="DeviceUID">urn:uuid:00000000-0000-0000-0000-000000000000</dcml:DeviceIdentifier>
  <dcml:DeviceTypeID scope="http://www.smpte-
    ra.org/schemas/433/2008/dcmlTypes/#device-type-
    tokens">token</dcml:DeviceTypeID>
  <dcml:DeviceSubsystemTypeID scope="http://www.smpte-
    ra.org/schemas/433/2008/dcmlTypes/#device-type-
    tokens">token</dcml:DeviceSubsystemTypeID>
  <dcml:DeviceSerial>String</dcml:DeviceSerial>
  <dcml:ManufacturerID>urn:uuid:00000000-0000-0000-0000-000000000000</dcml:ManufacturerID>

  <dcml:ManufacturerCertID>UjBsR09EbGhjZ0dTQUxNQUFBUNBRU1tQ1p0
    dU1GUXhEUzhi</dcml:ManufacturerCertID>

  <dcml:DeviceCertID>UjBsR09EbGhjZ0dTQUxNQUFBUNBRU1tQ1p0dU1GUX
    hEUzhi</dcml:DeviceCertID>
  <dcml:ManufacturerName>String</dcml:ManufacturerName>
  <dcml:DeviceName>String</dcml:DeviceName>
  <dcml:ModelNumber>String</dcml:ModelNumber>
  <dcml:VersionInfo>
    <dcml:Name>String</dcml:Name>
    <dcml:Value>String</dcml:Value>
  </dcml:VersionInfo>
  <dcml:DeviceComment language="en">String</dcml:DeviceComment>
</flm:DeviceDescription>
</flm:SecurityDevice>
</flm:SecurityDeviceList>
</etm:FLMRequiredExtensions>
</etm:RequiredExtensions>
</etm:AuthenticatedPublic>
</etm:DCinemaSecurityMessage>

```