

XML VALIDATION

XML Schema reference for CPL : [CPL-ST429-7-CompositionPlaylistType.xsd](#)

```
$ xmllint --noout --schema CPL-ST429-7-CompositionPlaylistType.xsd CPL.xml
CPL.xml validates
```

As with the PKL, the CPL will include the two basic XSD imports (XML and Signature).

GET IDENTIFIER (ID) OF CPL

Using xmllint :

```
$ xmllint --xpath '//*[local-name()="CompositionPlaylist"]/*[local-name()="Id"]/text()' CPL.xml
urn:uuid:d2e32d20-1f85-4d86-b09f-2ee40ac097a0
```

Using shell - short form :

```
$ grep -oE '<Id>urn:uuid:[A-Za-z0-9-]+\</Id>' CPL.xml | head -n1 | awk -F'<|>' '{ print $3 }'
urn:uuid:d2e32d20-1f85-4d86-b09f-2ee40ac097a0
```

Using shell - long form :

```
$ grep -oE '<Id>urn:uuid:[A-Za-z0-9]{8}-[A-Za-z0-9]{4}-[A-Za-z0-9]{4}-[A-Za-z0-9]{4}-[A-Za-z0-9]{12}</Id>' CPL.xml |
urn:uuid:d2e32d20-1f85-4d86-b09f-2ee40ac097a0
```

Using Python :

```
>>> from lxml import etree
>>> with open("CPL.xml", "rb") as xml:
    tree = etree.fromstring(
        text = xml.read()
    )
    tree.xpath("//*[local-name()='CompositionPlaylist']/*[local-name()='Id']/text()")
[urn:uuid:d2e32d20-1f85-4d86-b09f-2ee40ac097a0]
```

GET CONTENTTITLE OF CPL

Using xmllint :

```
xmllint --xpath '//*[local-name()="CompositionPlaylist"]/*[local-name()="ContentTitleText"]/text()' CPL.xml
DCP-INSIDE-CRYPT-TEST-2D-24_C_FR-XX_51_4K_20220102_SMPTE_OV
```

Using shell (mode strict) :

```
grep -oE "<ContentTitleText>[A-Za-z0-9_\-]+\</ContentTitleText>" CPL.xml | head -n1 | awk -F'<|>' '{ print $3 }'
DCP-INSIDE-CRYPT-TEST-2D-24_C_FR-XX_51_4K_20220102_SMPTE_OV
```

Using shell (mode don't care at all)

```
grep -oE "<ContentTitleText>.*\</ContentTitleText>" CPL.xml | head -n1 | awk -F'<|>' '{ print $3 }'
DCP-INSIDE-CRYPT-TEST-2D-24_C_FR-XX_51_4K_20220102_SMPTE_OV
```

Using Python :

```
>>> from lxml import etree
>>> with open("CPL.xml", "rb") as xml:
    tree = etree.fromstring(
        text = xml.read()
    )
    tree.xpath("/*[local-name()='CompositionPlaylist']/*[local-name()='ContentTitleText']/text()")
['DCP-INSIDE-CRYPT_ TST-2D-24_C_FR-XX_51_4K_20220102_SMPTE_OV']
```