



XML Examples for CDSM

CDSM-Examples

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Chapter 1 - Introduction

1.1 - Purpose

This is an informative supplement for CDSM. This document provides concrete examples of XML files implementing CDSM elements and attributes.

Chapter 2 - Example Files

2.1 - CDSM-ManifestOnly-TDO.xml

```
<?xml-model href="../../../Schematron/CDSM/CDSM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/CDSM-TDF/CDSM-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/BASE-TDF/BASE-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/IC-SF/IC-SF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><tdf:TrustedDataObject xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:us:gov:ic:tdf" xmlns:tdf="urn:us:gov:ic:tdf" xmlns:sfhashv="urn:us:gov:ic:sf:hashverification" xmlns:sf="urn:us:gov:ic:sf" xmlns:cdsm="urn:us:gov:ic:cdsmanifest" xmlns:sign="http://www.w3.org/2000/09/xmldsig#" xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/CDSM-TDF/CDSM-TDF.xsd urn:us:gov:ic:cdsmanifest ../../Schema/CDSM/CDSM.xsd urn:us:gov:ic:sf:hashverification ../../Schema/IC-SF/HashVerification.xsd" tdf:version="202111-CDSM-TDF.202111" sf:DESVersion="202111">
  <tdf:Assertion tdf:scope="PAYL">
    <tdf:StructuredStatement>
      <cdsm:CdsManifestAssertion cdsm:DESVersion="202111">
        <cdsm:Originator>Oracle</cdsm:Originator>
        <cdsm:Product>Java JDK 11 Linux</cdsm:Product>
        <cdsm:PayloadVersion>11.0.1</cdsm:PayloadVersion>
        <cdsm:CPE>cpe:/a:oracle:java_jdk_linux</cdsm:CPE>
        <cdsm:Arch>64-bit</cdsm:Arch>
        <cdsm:VirusScanList>
          <cdsm:VirusScan>
            <cdsm:ScanVendor>McAfee</cdsm:ScanVendor>
            <cdsm:ScanVersion>VSE8.88</cdsm:ScanVersion>
            <cdsm:SignatureDate>2019-01-17T09:00:00Z</cdsm:SignatureDate>
            <cdsm:ScanResult>clean</cdsm:ScanResult>
          </cdsm:VirusScan>
        </cdsm:VirusScanList>
        <cdsm:VendorChecksum>
          <cdsm:MD5>eddcdd2f6f14cdb37ff4a10763c61898</cdsm:MD5>
          <cdsm:SHA256>844fc3d6679cec3da7cf8ca5bb831e0f1770192ffff7a9549dec4e0f41b9d77b</cdsm:SHA256>
        </cdsm:VendorChecksum>
      </cdsm:CdsManifestAssertion>
    </tdf:StructuredStatement>
    <tdf:Binding>
      <tdf:Signer tdf:subject="*.example.com" tdf:issuer="DNAnexus CA"/>
      <tdf:SignatureValue tdf:signatureAlgorithm="SHA256withRSA" tdf:normalizationMethod="http://www.w3.org/TR/xml-c14n11" tdf:includesStatementMetadata="false">
9506118b839dde42bb20baca7b717854d8d0eaa2f22fd4ddcc33ac84c225226f3470de3bb4983eb608a04cb0349a4f2d83f62a43f1aa9e192d0c34bf33dee712c8860e884942ab5bee2dfb01ecc4597958b84e5693ee41adc7b5fe71c27e9a928f6def8d4e6f4d74195d7f1d232d6050176e070980ea02de15578d9a87398328</tdf:SignatureValue>
      </tdf:Binding>
    </tdf:Assertion>
    <tdf:ReferenceValuePayload tdf:uri="openjdk-11.0.1_linux-x64_bin.tar.gz" tdf:mediaType="application/octet-stream">
      <sfhashv:ContentDecodedHashVerification sfhashv:hashType="SHA-256">
```

```

    <sfhashv:TotalHash sfhashv:blockSize="134217728" sfhashv:totalBlocks="2">1e9e34e5e8472b6ac51c1ae1cab3fe06fad053beb8ebfd8977b010655bfdd3c3</sfhashv:TotalHash>
    <sfhashv:BlockHash sfhashv:block="1">4e5e608aa3e28350cebc98e47dfe784f966bd027ea376b7d4700fe6b07ea3d</sfhashv:BlockHash>
    <sfhashv:BlockHash sfhashv:block="2">2e3e8e46bd027ea376b7d47dc0758a48a4f96e68fe78e064700f700fe6b07ea3</sfhashv:BlockHash>
  </sfhashv:ContentDecodedHashVerification>
</tdf:ReferenceValuePayload>
</tdf:TrustedDataObject>

```

2.2 - CDSM-MultipleAssertions-TDO.xml

```
<?xml-model href="../../../Schematron/CDSM/CDSM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/CDSM-TDF/CDSM-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/BASE-TDF/BASE-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/ANLYS/ANLYS_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/IC-SF/IC-SF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><tdf:TrustedDataObject xmlns:tdf="urn:us:gov:ic:tdf" xmlns:cdsm="urn:us:gov:ic:cdsmanifest" xmlns:anlys="urn:us:gov:ic:anlysassert" xmlns:sign="http://www.w3.org/2000/09/xmldsig#" xmlns:sfhashv="urn:us:gov:ic:sf:hashverification" xmlns:sf="urn:us:gov:ic:sf" xmlns="urn:us:gov:ic:tdf" xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/CDSM-TDF/CDSM-TDF.xsd urn:us:gov:ic:cdsmanifest ../../Schema/CDSM/CDSM.xsd urn:us:gov:ic:anlysassert ../../Schema/ANLYS/ANLYS.xsd urn:us:gov:ic:sf:hashverification ../../Schema/IC-SF/HashVerification.xsd" tdf:version="202111-CDSM-TDF.202111" sf:DESVersion="202111">
  <tdf:Assertion tdf:scope="PAYL">
    <tdf:StructuredStatement>
      <cdsm:CdsManifestAssertion cdsm:DESVersion="202111">
        <cdsm:Originator>Oracle</cdsm:Originator>
        <cdsm:Product>Java JDK 11 Linux</cdsm:Product>
        <cdsm:PayloadVersion>11.0.1</cdsm:PayloadVersion>
        <cdsm:CPE>cpe:/a:oracle:java_jdk_linux</cdsm:CPE>
        <cdsm:Arch>64-bit</cdsm:Arch>
        <cdsm:VirusScanList>
          <cdsm:VirusScan>
            <cdsm:ScanVendor>McAfee</cdsm:ScanVendor>
            <cdsm:ScanVersion>VSE8.88</cdsm:ScanVersion>
            <cdsm:SignatureDate>2019-01-17T09:00:00Z</cdsm:SignatureDate>
            <cdsm:ScanResult>clean</cdsm:ScanResult>
          </cdsm:VirusScan>
        </cdsm:VirusScanList>
        <cdsm:VendorChecksum>
          <cdsm:MD5>eddcdd2f6f14cdb37ff4a10763c61898</cdsm:MD5>
          <cdsm:SHA256>844fc3d6679cec3da7cf8ca5bb831e0f1770192ffff7a9549dec4e0f41b9d77b</cdsm:SHA256>
        </cdsm:VendorChecksum>
      </cdsm:CdsManifestAssertion>
    </tdf:StructuredStatement>
    <tdf:Binding>
      <tdf:Signer tdf:subject="*.example.com" tdf:issuer="DNAnexus CA"/>
      <tdf:SignatureValue tdf:signatureAlgorithm="SHA256withRSA" tdf:normalizationMethod="http://www.w3.org/TR/xml-c14n11" tdf:includesStatementMetadata="false">
        9506118b839dde42bb20baca7b717854d8d0eaa2f22fd4ddcc33ac84c225226f3470de3bb4983eb608a04cb0349a4f2d83f62a43f1aa9e192d0c34bf33dee712c8860e884942ab5bee2dfb01ecc4597958b84e5693ee41adc7b5fe71c27e9a928f6def8d4e6f4d74195d7f1d232d6050176e070980ea02de15578d9a87398328</tdf:SignatureValue>
      </tdf:Binding>
    </tdf:Assertion>
    <tdf:Assertion tdf:scope="PAYL">
      <tdf:StructuredStatement>
        <anlys:AnalysisAssertion anys:DESVersion="202111">
          <anlys:OriginContentFilename>NonMaliciousStuffToMoveCrossDomain</anlys:OriginContentFilename>
          <anlys:KnownMalicious>>false</anlys:KnownMalicious>
        </tdf:StructuredStatement>
      </tdf:Assertion>
    </tdf:Assertion>
  </tdf:Assertion>
</tdf:TrustedDataObject>
```

```

    <anlys:AnalysisMethodList>
      <anlys:AnalysisMethod>Virus_Scan</anlys:AnalysisMethod>
    </anlys:AnalysisMethodList>
    <anlys:AnalysisMethodToolList>
      <anlys:AnalysisMethodTool>
        <anlys:AnalysisMethodToolName>ManualAnalysis</anlys:AnalysisMethodToolName>
      </anlys:AnalysisMethodTool>
    </anlys:AnalysisMethodToolList>
  </anlys:AnalysisAssertion>
</tdf:StructuredStatement>
<tdf:Binding>
  <tdf:Signer tdf:subject="*.example.com" tdf:issuer="DNAnexus CA"/>
  <tdf:SignatureValue tdf:signatureAlgorithm="SHA256withRSA"
    tdf:normalizationMethod="http://www.w3.org/TR/xml-c14n11"
    tdf:includesStatementMetadata="false">
9506118b839dde42bb20baca7b717854d8d0eaa2f22fd4ddcc33ac84c225226f3470de3bb4983eb608a04cb0349a4f2d83f62a43f1aa9e192d0c34bf33dee712c8860e884942ab5bee2dfb01ecc4597958b84e5693ee41adc7b5fe71c27e9a928
f6def8d4e6f4d74195d7f1d232d6050176e070980ea02de15578d9a87398328</tdf:SignatureValue>
  </tdf:Binding>
</tdf:Assertion>
<tdf:ReferenceValuePayload tdf:uri="openjdk-11.0.1_linux-x64_bin.tar.gz"
  tdf:mediaType="application/octet-stream">
  <sfhashv:ContentDecodedHashVerification sfhashv:hashType="SHA-256">
    <sfhashv:TotalHash sfhashv:blockSize="134217728" sfhashv:totalBlocks="2">1e9e34e5e8472b6ac51c1ae1cab3fe06fad053beb8ebfd8977b010655bfdd3c3</sfhashv:TotalHash>
    <sfhashv:BlockHash sfhashv:block="1">4e5e608aa3e28350cebc98e47dfe784f966bd027ea376b7d4700fe6b07ea3d</sfhashv:BlockHash>
    <sfhashv:BlockHash sfhashv:block="2">2e3e8e46bd027ea376b7d47dc0758a48a4f96e68fe78e064700f700fe6b07ea3</sfhashv:BlockHash>
  </sfhashv:ContentDecodedHashVerification>
</tdf:ReferenceValuePayload>
</tdf:TrustedDataObject>

```