XML Examples for IC-TDF

IC-TDF-Examples

Version 2021-NOV

December 1, 2022

Table of Contents

Chapter 1 - Introduction

1.1 - Purpose

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

Chapter 2 - Example Files

2.1 - IC-TDF-binding.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
        This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
      for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                            xmlns:tdf="urn:us:gov:ic:tdf"
                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                            tdf:version="202111-IC-TDF.202111"
                            xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd">
            <tdf:HandlingAssertion tdf:id="handlingAssertion1" tdf:scope="TDO">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                            xmlns:usagency="urn:us:gov:ic:usagency"
                            xmlns:icid="urn:us:gov:ic:id"
                            ism:ISMCATCESVersion="202211"
                            usagency:CESVersion="202207"
                            icid:DESVersion="202111"
                            edh:DESVersion="201903">
                        <icid:Identifier>guide://999999/uuid</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-06-20T00:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DEA</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                    ism:compliesWith="USGov USIC"
                                    ism:DESVersion="202111.202211"
                                    ism:ISMCATCESVersion="202211"
                                    ism:classification="U"
                                    ism:createDate="2012-06-26"
                                    ism:ownerProducer="USA"
                                    ism:resourceElement="true"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
                <tdf:Binding>
                    <tdf:Signer tdf:subject="MyDN" tdf:issuer="C=US"/>
                    <tdf:SignatureValue tdf:normalizationMethod="Normalization Method"
                                    tdf:includesStatementMetadata="false"
                                    tdf:signatureAlgorithm="SHA256withECDSA">RXhwZWN0ZWQgU3RyaW5nIFZhbHVl</tdf:SignatureValue>
                </tdf:Binding>
            </tdf:HandlingAssertion>
            <tdf:HandlingAssertion tdf:id="handlingAssertion2" tdf:scope="PAYL">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                            xmlns:usagency="urn:us:gov:ic:usagency"
```

```xml
                    xmlns:icid="urn:us:gov:ic:id"
                    ism:ISMCATCESVersion="202211"
                    usagency:CESVersion="202207"
                    icid:DESVersion="202111"
                    edh:DESVersion="201903">
            <icid:Identifier>guide://999999/uuid</icid:Identifier>
            <edh:DataItemCreateDateTime>2012-06-20T00:00:00Z</edh:DataItemCreateDateTime>
            <edh:ResponsibleEntity edh:role="Custodian">
               <edh:Country>USA</edh:Country>
               <edh:Organization>USA.DEA</edh:Organization>
            </edh:ResponsibleEntity>
            <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                          ism:compliesWith="USGov USIC"
                          ism:DESVersion="202111.202211"
                          ism:ISMCATCESVersion="202211"
                          ism:classification="U"
                          ism:createDate="2012-06-26"
                          ism:ownerProducer="USA"
                          ism:resourceElement="true"/>
         </edh:Edh>
      </tdf:HandlingStatement>
      <tdf:Binding>
         <tdf:Signer tdf:subject="MyDN" tdf:issuer="C=US"/>
         <tdf:SignatureValue tdf:normalizationMethod="Normalization Method"
                             tdf:includesStatementMetadata="false"
                             tdf:signatureAlgorithm="SHA256withECDSA">RXhwZWN0ZWQgU3RyaW5nIFZhbHVl</tdf:SignatureValue>
      </tdf:Binding>
   </tdf:HandlingAssertion>
   <tdf:Assertion tdf:id="assertion1" tdf:scope="TDO">
      <tdf:StringStatement tdf:isEncrypted="false">This is the first assertion</tdf:StringStatement>
   </tdf:Assertion>
   <tdf:Assertion tdf:id="assertion2" tdf:scope="TDO">
      <tdf:Base64BinaryStatement tdf:isEncrypted="false">VGhpcyBpcyBhIGJpbmFyeSBzdGF0ZW1lbnQ=</tdf:Base64BinaryStatement>
   </tdf:Assertion>
   <tdf:StringPayload tdf:filename="myText.txt" tdf:id="org.java" tdf:isEncrypted="false">This is a text document</tdf:StringPayload>
</TrustedDataObject>
```

2.2 - IC-TDF-collection.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
        This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
    for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataCollection xmlns="urn:us:gov:ic:tdf"
                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                            xmlns:tdf="urn:us:gov:ic:tdf"
                            xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                            tdf:version="202111-IC-TDF.202111">
            <tdf:HandlingAssertion tdf:scope="TDC">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                            xmlns:usagency="urn:us:gov:ic:usagency"
                            xmlns:icid="urn:us:gov:ic:id"
                            usagency:CESVersion="202207"
                            icid:DESVersion="202111"
                            edh:DESVersion="201903"
                            ism:DESVersion="202111.202211"
                            ism:ISMCATCESVersion="202211">
                        <icid:Identifier>guide://999002/EdhExample</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DNI</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                    ism:compliesWith="USGov USIC"
                                    ism:resourceElement="true"
                                    ism:createDate="2012-05-29"
                                    ism:classification="U"
                                    ism:ownerProducer="USA"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:Assertion tdf:scope="TDC">
                <tdf:StringStatement>I am an example assertion about this TDC</tdf:StringStatement>
            </tdf:Assertion>
            <TrustedDataObject>
                <tdf:HandlingAssertion tdf:scope="TDO">
                    <tdf:HandlingStatement>
                        <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                                xmlns:usagency="urn:us:gov:ic:usagency"
                                xmlns:icid="urn:us:gov:ic:id"
                                ism:ISMCATCESVersion="202211"
                                usagency:CESVersion="202207"
                                icid:DESVersion="202111">
                            <icid:Identifier>guide://999990/TdoExample</icid:Identifier>
                            <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
```

```
                            <edh:ResponsibleEntity edh:role="Custodian">
                                <edh:Country>USA</edh:Country>
                                <edh:Organization>USA.DIA</edh:Organization>
                            </edh:ResponsibleEntity>
                            <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                          ism:compliesWith="USGov USIC"
                                          ism:resourceElement="true"
                                          ism:createDate="2012-05-29"
                                          ism:classification="U"
                                          ism:ownerProducer="USA"/>
                        </edh:Edh>
                    </tdf:HandlingStatement>
                </tdf:HandlingAssertion>
                <tdf:HandlingAssertion tdf:scope="PAYL">
                    <tdf:HandlingStatement>
                        <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                                         xmlns:usagency="urn:us:gov:ic:usagency"
                                         xmlns:icid="urn:us:gov:ic:id"
                                         ism:ISMCATCESVersion="202211"
                                         usagency:CESVersion="202207"
                                         icid:DESVersion="202111">
                            <icid:Identifier>guide://999990/EdhExample</icid:Identifier>
                            <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                            <edh:ResponsibleEntity edh:role="Custodian">
                                <edh:Country>USA</edh:Country>
                                <edh:Organization>USA.DIA</edh:Organization>
                            </edh:ResponsibleEntity>
                            <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                                  ism:compliesWith="USGov USIC"
                                                  ism:resourceElement="true"
                                                  ism:createDate="2012-05-29"
                                                  ism:classification="S"
                                                  ism:ownerProducer="USA"
                                                  ism:declassDate="2035-10-10"
                                                  ism:derivedFrom="multiple sources"
                                                  ism:derivativelyClassifiedBy="1.4(c)"
                                                  ism:excludeFromRollup="true"
                                                  ism:disseminationControls="RELIDO"/>
                        </edh:ExternalEdh>
                    </tdf:HandlingStatement>
                </tdf:HandlingAssertion>
                <tdf:Assertion tdf:scope="PAYL">
                    <tdf:StringStatement>I am assertion about the payload. This payload is just an example to show usage of the IC-TDF
schema</tdf:StringStatement>
                </tdf:Assertion>
                <tdf:ReferenceValuePayload tdf:uri="http://example/reference/payload"/>
            </TrustedDataObject>
            <TrustedDataObject>
                <tdf:HandlingAssertion tdf:scope="TDO">
                    <tdf:HandlingStatement>
                        <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                                 xmlns:usagency="urn:us:gov:ic:usagency"
                                 xmlns:icid="urn:us:gov:ic:id"
                                 ism:ISMCATCESVersion="202211"
```

```xml
                                    usagency:CESVersion="202207"
                                    icid:DESVersion="202111">
                        <icid:Identifier>guide://999990/TdoExample2</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DIA</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-29"
                                      ism:classification="U"
                                      ism:ownerProducer="USA"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:HandlingAssertion tdf:scope="PAYL">
                <tdf:HandlingStatement>
                    <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                                     xmlns:usagency="urn:us:gov:ic:usagency"
                                     xmlns:icid="urn:us:gov:ic:id"
                                     icid:DESVersion="202111"
                                     ism:ISMCATCESVersion="202211"
                                     usagency:CESVersion="202207">
                        <icid:Identifier>guide://999990/EdhExample2</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DIA</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-29"
                                      ism:classification="S"
                                      ism:ownerProducer="USA"
                                      ism:declassDate="2035-10-10"
                                      ism:derivedFrom="multiple sources"
                                      ism:derivativelyClassifiedBy="1.4(c)"
                                      ism:excludeFromRollup="true"
                                      ism:disseminationControls="RELIDO"/>
                    </edh:ExternalEdh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:Assertion tdf:scope="PAYL">
                <tdf:StringStatement>I am assertion about the payload. This payload is just an example to show usage of the IC-TDF
schema</tdf:StringStatement>
            </tdf:Assertion>
            <tdf:ReferenceValuePayload tdf:uri="http://example/reference/payload"/>
        </TrustedDataObject>
    </TrustedDataCollection>
```

2.3 - IC-TDF-encryption_GCM.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
        This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
        for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                            xmlns:tdf="urn:us:gov:ic:tdf"
                            xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                            tdf:version="202111-IC-TDF.202111">
            <tdf:HandlingAssertion tdf:scope="TDO">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                            xmlns:usagency="urn:us:gov:ic:usagency"
                            xmlns:icid="urn:us:gov:ic:id"
                            usagency:CESVersion="202207"
                            icid:DESVersion="202111"
                            edh:DESVersion="201903"
                            ism:DESVersion="202111.202211"
                            ism:ISMCATCESVersion="202211">
                        <icid:Identifier>guide://999990/something</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DNI</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                    ism:compliesWith="USGov USIC"
                                    ism:resourceElement="true"
                                    ism:createDate="2012-05-28"
                                    ism:classification="U"
                                    ism:ownerProducer="USA"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:HandlingAssertion tdf:scope="PAYL" tdf:appliesToState="unencrypted">
                <tdf:HandlingStatement>
                    <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                                    xmlns:usagency="urn:us:gov:ic:usagency"
                                    xmlns:icid="urn:us:gov:ic:id"
                                    usagency:CESVersion="202207"
                                    icid:DESVersion="202111"
                                    edh:DESVersion="201903"
                                    ism:DESVersion="202111.202211"
                                    ism:ISMCATCESVersion="202211">
                        <icid:Identifier>guide://999990/something</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
```

```xml
                    <edh:Organization>USA.DNI</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-28"
                                      ism:classification="U"
                                      ism:ownerProducer="USA"
                                      ism:excludeFromRollup="true"/>
            </edh:ExternalEdh>
        </tdf:HandlingStatement>
    </tdf:HandlingAssertion>
    <tdf:HandlingAssertion tdf:scope="PAYL" tdf:appliesToState="encrypted">
        <tdf:HandlingStatement>
            <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                     xmlns:usagency="urn:us:gov:ic:usagency"
                     xmlns:icid="urn:us:gov:ic:id"
                     usagency:CESVersion="202207"
                     icid:DESVersion="202111"
                     edh:DESVersion="201903"
                     ism:DESVersion="202111.202211"
                     ism:ISMCATCESVersion="202211">
                <icid:Identifier>guide://999990/something</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.DNI</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:compliesWith="USGov USIC"
                              ism:resourceElement="true"
                              ism:createDate="2012-05-28"
                              ism:classification="U"
                              ism:ownerProducer="USA"/>
            </edh:Edh>
        </tdf:HandlingStatement>
    </tdf:HandlingAssertion>
    <tdf:Assertion tdf:id="myID" tdf:scope="TDO">
        <tdf:StringStatement>assertion statement</tdf:StringStatement>
    </tdf:Assertion>
    <tdf:EncryptionInformation>
        <tdf:KeyAccess>
            <tdf:AttachedKey>
                <tdf:KeyValue>abcdefghijklmnop</tdf:KeyValue>
            </tdf:AttachedKey>
        </tdf:KeyAccess>
        <!-- In Galois Counter Mode (http://csrc.nist.gov/publications/nistpubs/800-38D/SP-800-38D.pdf),
you encrypt your payload, you pass in your plaintext (P), an initialization vector (IV), and
some additional authenticated data (A) (as well as my shared secret Key), and you produce:
ciphertext (C), and an authentication tag (T).

So to decrypt my payload (which is what we care about here), I will need to pass in the same
IV and A parameters (as well as my shared secret Key) as my inputs for encryption, as well
as the C and T parameters that were my output from encryption. This allows me to authenticate
```

```
        the integrity of my input, and then decrypt the actual payload (I have attached a picture
        from the NIST pub that illustrates the decrypt steps).

        When I receive a TDO where my payload has been encrypted using GCM, except for the Key, all
        of those other values need to be provided along with the ciphertext (i.e., the encrypted
        payload). So for instance, the EncryptionMethod might look like this: -->
<tdf:EncryptionMethod tdf:algorithm="AES">
                    <tdf:KeySize>32</tdf:KeySize>
                    <tdf:IVParams>YW55IGNhcm5hbCBwbGVhcwYW55IGNhcm5hbCBwbGVhcw</tdf:IVParams>
                    <tdf:AdditionalAuthenticatedData>5sA55IG49d5hbCBwbGVhcwa3</tdf:AdditionalAuthenticatedData>
                    <tdf:AuthenticationTag>B20abww4lLmNOqa43sas</tdf:AuthenticationTag>
                </tdf:EncryptionMethod>
            </tdf:EncryptionInformation>
            <tdf:StringPayload tdf:isEncrypted="true">ad32s9a</tdf:StringPayload>
        </TrustedDataObject>
```

2.4 - IC-TDF-encryption_payl.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
        This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
      for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                              xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                              xmlns:tdf="urn:us:gov:ic:tdf"
                              xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                              tdf:version="202111-IC-TDF.202111">
          <tdf:HandlingAssertion tdf:scope="TDO">
            <tdf:HandlingStatement>
                <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                          xmlns:usagency="urn:us:gov:ic:usagency"
                          xmlns:icid="urn:us:gov:ic:id"
                          usagency:CESVersion="202207"
                          icid:DESVersion="202111"
                          edh:DESVersion="201903"
                          ism:DESVersion="202111.202211"
                          ism:ISMCATCESVersion="202211">
                  <icid:Identifier>guide://999990/something</icid:Identifier>
                  <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                  <edh:ResponsibleEntity edh:role="Custodian">
                      <edh:Country>USA</edh:Country>
                      <edh:Organization>USA.DNI</edh:Organization>
                  </edh:ResponsibleEntity>
                  <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                ism:compliesWith="USGov USIC"
                                ism:resourceElement="true"
                                ism:createDate="2012-05-28"
                                ism:classification="U"
                                ism:ownerProducer="USA"/>
                </edh:Edh>
            </tdf:HandlingStatement>
          </tdf:HandlingAssertion>
          <tdf:HandlingAssertion tdf:scope="PAYL" tdf:appliesToState="unencrypted">
            <tdf:HandlingStatement>
                <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                                  xmlns:usagency="urn:us:gov:ic:usagency"
                                  xmlns:icid="urn:us:gov:ic:id"
                                  usagency:CESVersion="202207"
                                  icid:DESVersion="202111"
                                  edh:DESVersion="201903"
                                  ism:DESVersion="202111.202211"
                                  ism:ISMCATCESVersion="202211">
                  <icid:Identifier>guide://999990/something</icid:Identifier>
                  <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                  <edh:ResponsibleEntity edh:role="Custodian">
                      <edh:Country>USA</edh:Country>
```

```xml
                    <edh:Organization>USA.DNI</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-28"
                                      ism:classification="U"
                                      ism:ownerProducer="USA"
                                      ism:excludeFromRollup="true"/>
            </edh:ExternalEdh>
        </tdf:HandlingStatement>
    </tdf:HandlingAssertion>
    <tdf:HandlingAssertion tdf:scope="PAYL" tdf:appliesToState="encrypted">
        <tdf:HandlingStatement>
            <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                     xmlns:usagency="urn:us:gov:ic:usagency"
                     xmlns:icid="urn:us:gov:ic:id"
                     usagency:CESVersion="202207"
                     icid:DESVersion="202111"
                     edh:DESVersion="201903"
                     ism:DESVersion="202111.202211"
                     ism:ISMCATCESVersion="202211">
                <icid:Identifier>guide://999990/something</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.DNI</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:compliesWith="USGov USIC"
                              ism:resourceElement="true"
                              ism:createDate="2012-05-28"
                              ism:classification="U"
                              ism:ownerProducer="USA"/>
            </edh:Edh>
        </tdf:HandlingStatement>
    </tdf:HandlingAssertion>
    <tdf:Assertion tdf:id="myID" tdf:scope="TDO">
        <tdf:StringStatement>assertion statement</tdf:StringStatement>
    </tdf:Assertion>
    <tdf:EncryptionInformation>
        <tdf:KeyAccess>
            <tdf:AttachedKey>
                <tdf:KeyValue>abcdefghijklmnop</tdf:KeyValue>
            </tdf:AttachedKey>
        </tdf:KeyAccess>
        <tdf:EncryptionMethod tdf:algorithm="SHA-256"/>
    </tdf:EncryptionInformation>
    <tdf:StringPayload tdf:isEncrypted="true">ad32s9a</tdf:StringPayload>
</TrustedDataObject>
```

2.5 - IC-TDF-encryption_sequence.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
        This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
      for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                            xmlns:tdf="urn:us:gov:ic:tdf"
                            xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                            tdf:version="202111-IC-TDF.202111">
          <tdf:HandlingAssertion tdf:scope="TDO">
            <tdf:HandlingStatement>
              <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                      xmlns:usagency="urn:us:gov:ic:usagency"
                      xmlns:icid="urn:us:gov:ic:id"
                      ism:ISMCATCESVersion="202211"
                      usagency:CESVersion="202207"
                      icid:DESVersion="202111"
                      edh:DESVersion="201903">
                <icid:Identifier>guide://999999/uuid</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-06-20T00:00:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                  <edh:Country>USA</edh:Country>
                  <edh:Organization>USA.DEA</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                            ism:compliesWith="USGov USIC"
                            ism:DESVersion="202111.202211"
                            ism:ISMCATCESVersion="202211"
                            ism:classification="U"
                            ism:createDate="2012-06-26"
                            ism:ownerProducer="USA"
                            ism:resourceElement="true"/>
              </edh:Edh>
            </tdf:HandlingStatement>
          </tdf:HandlingAssertion>
          <tdf:HandlingAssertion tdf:scope="PAYL">
            <tdf:HandlingStatement>
              <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                      xmlns:usagency="urn:us:gov:ic:usagency"
                      xmlns:icid="urn:us:gov:ic:id"
                      ism:ISMCATCESVersion="202211"
                      usagency:CESVersion="202207"
                      icid:DESVersion="202111"
                      edh:DESVersion="201903">
                <icid:Identifier>guide://999999/uuid</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-06-20T00:00:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                  <edh:Country>USA</edh:Country>
```

```xml
                    <edh:Organization>USA.DEA</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:compliesWith="USGov USIC"
                              ism:DESVersion="202111.202211"
                              ism:ISMCATCESVersion="202211"
                              ism:classification="U"
                              ism:createDate="2012-06-26"
                              ism:ownerProducer="USA"
                              ism:resourceElement="true"/>
            </edh:Edh>
        </tdf:HandlingStatement>
    </tdf:HandlingAssertion>
    <tdf:Assertion tdf:id="assertionId1" tdf:scope="PAYL" tdf:type="binary">
        <tdf:StatementMetadata tdf:appliesToState="encrypted">
            <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                     xmlns:usagency="urn:us:gov:ic:usagency"
                     xmlns:icid="urn:us:gov:ic:id"
                     ism:ISMCATCESVersion="202211"
                     usagency:CESVersion="202207"
                     icid:DESVersion="202111">
                <icid:Identifier>guide://999990/DIA-CNTRL-NO-1754-1762</icid:Identifier>
                <edh:DataItemCreateDateTime>2006-07-28T00:00:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.DIA</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:classification="U"
                              ism:ownerProducer="USA"
                              ism:resourceElement="true"
                              ism:compliesWith="USGov USIC"
                              ism:createDate="2019-12-19"/>
            </edh:Edh>
        </tdf:StatementMetadata>
        <tdf:StatementMetadata tdf:appliesToState="unencrypted">
            <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             xmlns:icid="urn:us:gov:ic:id"
                             usagency:CESVersion="202207"
                             icid:DESVersion="202111"
                             edh:DESVersion="201903"
                             ism:DESVersion="202111.202211"
                             ism:ISMCATCESVersion="202211">
                <icid:Identifier>guide://999990/something</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.DNI</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-28"
```

```xml
                                        ism:classification="U"
                                        ism:ownerProducer="USA"
                                        ism:excludeFromRollup="true"/>
                </edh:ExternalEdh>
            </tdf:StatementMetadata>
            <tdf:EncryptionInformation>
                <tdf:KeyAccess>
                    <tdf:AttachedKey>
                        <tdf:KeyValue>Jk6Jmdo7FwnbuIk/vHkjxQ==</tdf:KeyValue>
                    </tdf:AttachedKey>
                </tdf:KeyAccess>
                <tdf:EncryptionMethod tdf:algorithm="AES">
                    <tdf:KeySize>16</tdf:KeySize>
                </tdf:EncryptionMethod>
            </tdf:EncryptionInformation>
            <tdf:Base64BinaryStatement tdf:filename="binVal.xml"
                                        tdf:isEncrypted="true"
                                        tdf:mediaType="application/octet-stream">VGhpcyBpcyBhIHRlc3Qu</tdf:Base64BinaryStatement>
    </tdf:Assertion>
    <tdf:Assertion tdf:id="assertionId2" tdf:scope="PAYL" tdf:type="binary">
        <tdf:StatementMetadata tdf:appliesToState="encrypted">
            <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                     xmlns:usagency="urn:us:gov:ic:usagency"
                     xmlns:icid="urn:us:gov:ic:id"
                     ism:ISMCATCESVersion="202211"
                     usagency:CESVersion="202207"
                     icid:DESVersion="202111">
                <icid:Identifier>guide://999990/DIA-CNTRL-NO-1754-1762</icid:Identifier>
                <edh:DataItemCreateDateTime>2006-07-28T00:00:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.DIA</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:classification="U"
                              ism:ownerProducer="USA"
                              ism:resourceElement="true"
                              ism:compliesWith="USGov USIC"
                              ism:createDate="2019-12-19"/>
            </edh:Edh>
        </tdf:StatementMetadata>
        <tdf:StatementMetadata tdf:appliesToState="unencrypted">
            <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             usagency:CESVersion="202207"
                             edh:DESVersion="201903"
                             ism:DESVersion="202111.202211"
                             ism:ISMCATCESVersion="202211">
                <icid:Identifier xmlns:icid="urn:us:gov:ic:id">guide://999990/something</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.DNI</edh:Organization>
                </edh:ResponsibleEntity>
```

```xml
                    <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                          ism:compliesWith="USGov USIC"
                                          ism:resourceElement="true"
                                          ism:createDate="2012-05-28"
                                          ism:classification="U"
                                          ism:ownerProducer="USA"
                                          ism:excludeFromRollup="true"/>
                </edh:ExternalEdh>
            </tdf:StatementMetadata>
            <tdf:EncryptionInformation tdf:sequenceNum="1">
                <tdf:KeyAccess>
                    <tdf:AttachedKey>
                        <tdf:KeyValue>Jk6Jmdo7FwnbuIk/vHkjxQ==</tdf:KeyValue>
                    </tdf:AttachedKey>
                </tdf:KeyAccess>
                <tdf:EncryptionMethod tdf:algorithm="AES">
                    <tdf:KeySize>16</tdf:KeySize>
                </tdf:EncryptionMethod>
            </tdf:EncryptionInformation>
            <tdf:EncryptionInformation tdf:sequenceNum="2">
                <tdf:KeyAccess>
                    <tdf:AttachedKey>
                        <tdf:KeyValue>Jk6Jmdo7a3EruIk/vHkjxQ==</tdf:KeyValue>
                    </tdf:AttachedKey>
                </tdf:KeyAccess>
                <tdf:EncryptionMethod tdf:algorithm="AES">
                    <tdf:KeySize>16</tdf:KeySize>
                </tdf:EncryptionMethod>
            </tdf:EncryptionInformation>
            <tdf:Base64BinaryStatement tdf:filename="binVal.xml"
                                       tdf:isEncrypted="true"
                                       tdf:mediaType="application/octet-stream">VGhpcyBpcyBhIHRlc3Qu</tdf:Base64BinaryStatement>
        </tdf:Assertion>
        <tdf:StringPayload tdf:filename="myText.txt" tdf:id="org.java" tdf:isEncrypted="false">This is a text document</tdf:StringPayload>
    </TrustedDataObject>
```

2.6 - IC-TDF-encryption.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
        This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
    for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                            xmlns:tdf="urn:us:gov:ic:tdf"
                            xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                            tdf:version="202111-IC-TDF.202111">
            <tdf:HandlingAssertion tdf:scope="TDO">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                            xmlns:usagency="urn:us:gov:ic:usagency"
                            xmlns:icid="urn:us:gov:ic:id"
                            ism:ISMCATCESVersion="202211"
                            usagency:CESVersion="202207"
                            icid:DESVersion="202111"
                            edh:DESVersion="201903">
                        <icid:Identifier>guide://999999/uuid</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-06-20T00:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DEA</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                    ism:compliesWith="USGov USIC"
                                    ism:DESVersion="202111.202211"
                                    ism:ISMCATCESVersion="202211"
                                    ism:classification="U"
                                    ism:createDate="2012-06-26"
                                    ism:ownerProducer="USA"
                                    ism:resourceElement="true"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:HandlingAssertion tdf:scope="PAYL">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                            xmlns:usagency="urn:us:gov:ic:usagency"
                            xmlns:icid="urn:us:gov:ic:id"
                            ism:ISMCATCESVersion="202211"
                            usagency:CESVersion="202207"
                            icid:DESVersion="202111"
                            edh:DESVersion="201903">
                        <icid:Identifier>guide://999999/uuid</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-06-20T00:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
```

```
                    <edh:Organization>USA.DEA</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:compliesWith="USGov USIC"
                              ism:DESVersion="202111.202211"
                              ism:ISMCATCESVersion="202211"
                              ism:classification="U"
                              ism:createDate="2012-06-26"
                              ism:ownerProducer="USA"
                              ism:resourceElement="true"/>
            </edh:Edh>
        </tdf:HandlingStatement>
    </tdf:HandlingAssertion>
    <tdf:Assertion tdf:id="assertionId1" tdf:scope="PAYL" tdf:type="binary">
        <tdf:StatementMetadata tdf:appliesToState="encrypted">
            <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                     xmlns:usagency="urn:us:gov:ic:usagency"
                     xmlns:icid="urn:us:gov:ic:id"
                     ism:ISMCATCESVersion="202211"
                     usagency:CESVersion="202207"
                     icid:DESVersion="202111">
                <icid:Identifier>guide://999990/DIA-CNTRL-NO-1754-1762</icid:Identifier>
                <edh:DataItemCreateDateTime>2006-07-28T00:00:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.DIA</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:classification="U"
                              ism:ownerProducer="USA"
                              ism:resourceElement="true"
                              ism:compliesWith="USGov USIC"
                              ism:createDate="2019-12-19"/>
            </edh:Edh>
        </tdf:StatementMetadata>
        <tdf:StatementMetadata tdf:appliesToState="unencrypted">
            <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             xmlns:icid="urn:us:gov:ic:id"
                             usagency:CESVersion="202207"
                             icid:DESVersion="202111"
                             edh:DESVersion="201903"
                             ism:DESVersion="202111.202211"
                             ism:ISMCATCESVersion="202211">
                <icid:Identifier>guide://999990/something</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.DNI</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-28"
```

```xml
                                        ism:classification="U"
                                        ism:ownerProducer="USA"
                                        ism:excludeFromRollup="true"/>
                    </edh:ExternalEdh>
                </tdf:StatementMetadata>
                <tdf:EncryptionInformation>
                    <tdf:KeyAccess>
                        <tdf:AttachedKey>
                            <tdf:KeyValue>Jk6Jmdo7FwnbuIk/vHkjxQ==</tdf:KeyValue>
                        </tdf:AttachedKey>
                    </tdf:KeyAccess>
                    <tdf:EncryptionMethod tdf:algorithm="AES">
                        <tdf:KeySize>16</tdf:KeySize>
                    </tdf:EncryptionMethod>
                </tdf:EncryptionInformation>
                <tdf:Base64BinaryStatement tdf:filename="binVal.xml"
                                        tdf:isEncrypted="true"
                                        tdf:mediaType="application/octet-stream">VGhpcyBpcyBhIHRlc3Qu</tdf:Base64BinaryStatement>
        </tdf:Assertion>
        <tdf:Assertion tdf:id="assertionId2" tdf:scope="PAYL" tdf:type="binary">
            <tdf:StatementMetadata tdf:appliesToState="encrypted">
                <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                        xmlns:usagency="urn:us:gov:ic:usagency"
                        xmlns:icid="urn:us:gov:ic:id"
                        ism:ISMCATCESVersion="202211"
                        usagency:CESVersion="202207"
                        icid:DESVersion="202111">
                    <icid:Identifier>guide://999990/DIA-CNTRL-NO-1754-1762</icid:Identifier>
                    <edh:DataItemCreateDateTime>2006-07-28T00:00:00Z</edh:DataItemCreateDateTime>
                    <edh:ResponsibleEntity edh:role="Custodian">
                        <edh:Country>USA</edh:Country>
                        <edh:Organization>USA.DIA</edh:Organization>
                    </edh:ResponsibleEntity>
                    <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                ism:classification="U"
                                ism:ownerProducer="USA"
                                ism:resourceElement="true"
                                ism:compliesWith="USGov USIC"
                                ism:createDate="2019-12-19"/>
                </edh:Edh>
            </tdf:StatementMetadata>
            <tdf:StatementMetadata tdf:appliesToState="unencrypted">
                <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                                xmlns:usagency="urn:us:gov:ic:usagency"
                                usagency:CESVersion="202207"
                                edh:DESVersion="201903"
                                ism:DESVersion="202111.202211"
                                ism:ISMCATCESVersion="202211">
                    <icid:Identifier xmlns:icid="urn:us:gov:ic:id">guide://999990/something</icid:Identifier>
                    <edh:DataItemCreateDateTime>2012-05-28T15:06:00Z</edh:DataItemCreateDateTime>
                    <edh:ResponsibleEntity edh:role="Custodian">
                        <edh:Country>USA</edh:Country>
                        <edh:Organization>USA.DNI</edh:Organization>
                    </edh:ResponsibleEntity>
```

```xml
                    <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                          ism:compliesWith="USGov USIC"
                                          ism:resourceElement="true"
                                          ism:createDate="2012-05-28"
                                          ism:classification="U"
                                          ism:ownerProducer="USA"
                                          ism:excludeFromRollup="true"/>
                </edh:ExternalEdh>
            </tdf:StatementMetadata>
            <tdf:EncryptionInformation>
                <tdf:KeyAccess>
                    <tdf:AttachedKey>
                        <tdf:KeyValue>Jk6Jmdo7FwnbuIk/vHkjxQ==</tdf:KeyValue>
                    </tdf:AttachedKey>
                </tdf:KeyAccess>
                <tdf:EncryptionMethod tdf:algorithm="AES">
                    <tdf:KeySize>16</tdf:KeySize>
                </tdf:EncryptionMethod>
            </tdf:EncryptionInformation>
            <tdf:Base64BinaryStatement tdf:filename="binVal.xml"
                                       tdf:isEncrypted="true"
                                       tdf:mediaType="application/octet-stream">VGhpcyBpcyBhIHRlc3Qu</tdf:Base64BinaryStatement>
        </tdf:Assertion>
        <tdf:StringPayload tdf:filename="myText.txt" tdf:id="org.java" tdf:isEncrypted="false">This is a text document</tdf:StringPayload>
    </TrustedDataObject>
```

2.7 - IC-TDF-example.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
        This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
      for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataCollection xmlns="urn:us:gov:ic:tdf"
                             xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                             xmlns:tdf="urn:us:gov:ic:tdf"
                             xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                             tdf:version="202111-IC-TDF.202111">
          <tdf:HandlingAssertion tdf:scope="TDC">
            <tdf:HandlingStatement>
              <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                       xmlns:usagency="urn:us:gov:ic:usagency"
                       xmlns:icid="urn:us:gov:ic:id"
                       usagency:CESVersion="202207"
                       icid:DESVersion="202111"
                       edh:DESVersion="201903"
                       ism:DESVersion="202111.202211"
                       ism:ISMCATCESVersion="202211">
                <icid:Identifier>guide://999003/EdhExample001</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                  <edh:Country>USA</edh:Country>
                  <edh:Organization>USA.DNI</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:compliesWith="USGov USIC"
                              ism:resourceElement="true"
                              ism:createDate="2012-05-29"
                              ism:classification="U"
                              ism:ownerProducer="USA">
                  <ntk:Access xmlns:ntk="urn:us:gov:ic:ntk"
                              ism:classification="U"
                              ism:ownerProducer="USA">
                    <ntk:RequiresAnyOf>
                      <ntk:AccessProfileList>
                        <ntk:AccessProfile ism:classification="U" ism:ownerProducer="USA">
                          <ntk:AccessPolicy>urn:us:gov:ic:aces:ntk:permissive</ntk:AccessPolicy>
                          <ntk:ProfileDes>urn:us:gov:ic:ntk:profile:grp-ind</ntk:ProfileDes>
                          <ntk:VocabularyType ntk:name="group:system" ntk:source="system"/>
                          <ntk:AccessProfileValue ntk:vocabulary="group:system">exampleValue</ntk:AccessProfileValue>
                        </ntk:AccessProfile>
                        <ntk:AccessProfile ism:classification="U" ism:ownerProducer="USA">
                          <ntk:AccessPolicy>urn:us:gov:ic:aces:ntk:permissive</ntk:AccessPolicy>
                          <ntk:ProfileDes>urn:us:gov:ic:ntk:profile:grp-ind</ntk:ProfileDes>
                          <ntk:VocabularyType ntk:name="individual:system" ntk:source="system"/>
                          <ntk:AccessProfileValue ntk:vocabulary="individual:system">John Doe</ntk:AccessProfileValue>
                        </ntk:AccessProfile>
```

```xml
                        <ntk:AccessProfile ism:classification="U" ism:ownerProducer="USA">
                            <ntk:AccessPolicy>urn:us:gov:ic:aces:ntk:permissive</ntk:AccessPolicy>
                            <ntk:ProfileDes>urn:us:gov:ic:ntk:profile:grp-ind</ntk:ProfileDes>
                            <ntk:VocabularyType ntk:name="individual:system" ntk:source="system"/>
                            <ntk:AccessProfileValue ntk:vocabulary="individual:system">Jane Doe</ntk:AccessProfileValue>
                        </ntk:AccessProfile>
                    </ntk:AccessProfileList>
                </ntk:RequiresAnyOf>
            </ntk:Access>
        </arh:Security>
    </edh:Edh>
</tdf:HandlingStatement>
</tdf:HandlingAssertion>
<tdf:Assertion tdf:scope="TDC">
    <tdf:StringStatement>I am an example assertion about this TDC</tdf:StringStatement>
</tdf:Assertion>
<TrustedDataObject>
    <tdf:HandlingAssertion tdf:scope="TDO">
        <tdf:HandlingStatement>
            <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                     xmlns:usagency="urn:us:gov:ic:usagency"
                     xmlns:icid="urn:us:gov:ic:id"
                     ism:ISMCATCESVersion="202211"
                     usagency:CESVersion="202207"
                     icid:DESVersion="202111">
                <icid:Identifier>guide://999002/EdhExample003</icid:Identifier>
                <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                <edh:ResponsibleEntity edh:role="Custodian">
                    <edh:Country>USA</edh:Country>
                    <edh:Organization>USA.NRO</edh:Organization>
                </edh:ResponsibleEntity>
                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                              ism:compliesWith="USGov USIC"
                              ism:resourceElement="true"
                              ism:createDate="2012-05-29"
                              ism:classification="U"
                              ism:ownerProducer="USA">
                    <ntk:Access xmlns:ntk="urn:us:gov:ic:ntk"
                                ism:classification="U"
                                ism:ownerProducer="USA">
                        <ntk:RequiresAnyOf>
                            <ntk:AccessProfileList>
                                <ntk:AccessProfile ism:classification="U" ism:ownerProducer="USA">
                                    <ntk:AccessPolicy>urn:us:gov:ic:aces:ntk:permissive</ntk:AccessPolicy>
                                    <ntk:ProfileDes>urn:us:gov:ic:ntk:profile:grp-ind</ntk:ProfileDes>
                                    <ntk:VocabularyType ntk:name="group:system" ntk:source="system"/>
                                    <ntk:AccessProfileValue ntk:vocabulary="group:system">exampleValue</ntk:AccessProfileValue>
                                </ntk:AccessProfile>
                                <ntk:AccessProfile ism:classification="U" ism:ownerProducer="USA">
                                    <ntk:AccessPolicy>urn:us:gov:ic:aces:ntk:permissive</ntk:AccessPolicy>
                                    <ntk:ProfileDes>urn:us:gov:ic:ntk:profile:grp-ind</ntk:ProfileDes>
                                    <ntk:VocabularyType ntk:name="individual:system" ntk:source="system"/>
                                    <ntk:AccessProfileValue ntk:vocabulary="individual:system">John Doe</ntk:AccessProfileValue>
                                </ntk:AccessProfile>
```

```xml
                              <ntk:AccessProfile ism:classification="U" ism:ownerProducer="USA">
                                  <ntk:AccessPolicy>urn:us:gov:ic:aces:ntk:permissive</ntk:AccessPolicy>
                                  <ntk:ProfileDes>urn:us:gov:ic:ntk:profile:grp-ind</ntk:ProfileDes>
                                  <ntk:VocabularyType ntk:name="individual:system" ntk:source="system"/>
                                  <ntk:AccessProfileValue ntk:vocabulary="individual:system">Jane Doe</ntk:AccessProfileValue>
                              </ntk:AccessProfile>
                          </ntk:AccessProfileList>
                      </ntk:RequiresAnyOf>
                  </ntk:Access>
              </arh:Security>
          </edh:Edh>
      </tdf:HandlingStatement>
  </tdf:HandlingAssertion>
  <tdf:HandlingAssertion tdf:scope="PAYL">
      <tdf:HandlingStatement>
          <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                   xmlns:usagency="urn:us:gov:ic:usagency"
                   xmlns:icid="urn:us:gov:ic:id"
                   ism:ISMCATCESVersion="202211"
                   usagency:CESVersion="202207"
                   icid:DESVersion="202111">
              <icid:Identifier>guide://999002/EdhExample004</icid:Identifier>
              <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
              <edh:ResponsibleEntity edh:role="Custodian">
                  <edh:Country>USA</edh:Country>
                  <edh:Organization>USA.DNI</edh:Organization>
              </edh:ResponsibleEntity>
              <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                            ism:resourceElement="true"
                            ism:createDate="2012-05-29"
                            ism:classification="U"
                            ism:ownerProducer="USA"
                            ism:compliesWith="USGov USIC">
                  <ntk:Access xmlns:ntk="urn:us:gov:ic:ntk"
                              ism:classification="U"
                              ism:ownerProducer="USA">
                      <ntk:RequiresAnyOf>
                          <ntk:AccessProfileList>
                              <ntk:AccessProfile ism:classification="U" ism:ownerProducer="USA">
                                  <ntk:AccessPolicy>urn:us:gov:ic:aces:ntk:permissive</ntk:AccessPolicy>
                                  <ntk:ProfileDes>urn:us:gov:ic:ntk:profile:grp-ind</ntk:ProfileDes>
                                  <ntk:VocabularyType ntk:name="individual:system" ntk:source="system"/>
                                  <ntk:AccessProfileValue ntk:vocabulary="individual:system">John Doe</ntk:AccessProfileValue>
                              </ntk:AccessProfile>
                          </ntk:AccessProfileList>
                      </ntk:RequiresAnyOf>
                  </ntk:Access>
              </arh:Security>
          </edh:Edh>
      </tdf:HandlingStatement>
  </tdf:HandlingAssertion>
  <tdf:StringPayload>I am an example payload</tdf:StringPayload>
</TrustedDataObject>
<TrustedDataObject>
```

```
                    <tdf:HandlingAssertion tdf:scope="TDO">
                        <tdf:HandlingStatement>
                            <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                                    xmlns:usagency="urn:us:gov:ic:usagency"
                                    xmlns:icid="urn:us:gov:ic:id"
                                    ism:ISMCATCESVersion="202211"
                                    usagency:CESVersion="202207"
                                    icid:DESVersion="202111">
                                <icid:Identifier>guide://999990/TdoExample2</icid:Identifier>
                                <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                                <edh:ResponsibleEntity edh:role="Custodian">
                                    <edh:Country>USA</edh:Country>
                                    <edh:Organization>USA.DIA</edh:Organization>
                                </edh:ResponsibleEntity>
                                <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                            ism:compliesWith="USGov USIC"
                                            ism:resourceElement="true"
                                            ism:createDate="2012-05-29"
                                            ism:classification="U"
                                            ism:ownerProducer="USA"/>
                            </edh:Edh>
                        </tdf:HandlingStatement>
                    </tdf:HandlingAssertion>
                    <tdf:HandlingAssertion tdf:scope="PAYL">
                        <tdf:HandlingStatement>
                            <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                                    xmlns:usagency="urn:us:gov:ic:usagency"
                                    xmlns:icid="urn:us:gov:ic:id"
                                    ism:ISMCATCESVersion="202211"
                                    usagency:CESVersion="202207"
                                    icid:DESVersion="202111">
                                <icid:Identifier>guide://999990/EdhExample2</icid:Identifier>
                                <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                                <edh:ResponsibleEntity edh:role="Custodian">
                                    <edh:Country>USA</edh:Country>
                                    <edh:Organization>USA.DIA</edh:Organization>
                                </edh:ResponsibleEntity>
                                <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                                ism:compliesWith="USGov USIC"
                                                ism:resourceElement="true"
                                                ism:createDate="2012-05-29"
                                                ism:classification="S"
                                                ism:ownerProducer="USA"
                                                ism:declassDate="2035-10-10"
                                                ism:derivedFrom="multiple sources"
                                                ism:derivativelyClassifiedBy="1.4(c)"
                                                ism:excludeFromRollup="true"
                                                ism:disseminationControls="RELIDO"/>
                            </edh:ExternalEdh>
                        </tdf:HandlingStatement>
                    </tdf:HandlingAssertion>
                    <tdf:Assertion tdf:scope="PAYL">
                        <tdf:StringStatement>I am assertion about the payload. This payload is just an example to show usage of the IC-TDF
        schema</tdf:StringStatement>
```

```
                 </tdf:Assertion>
                 <tdf:ReferenceValuePayload tdf:uri="http://example/reference/payload"/>
              </TrustedDataObject>
           </TrustedDataCollection>
```

2.8 - IC-TDF-minimal-case.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
        This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
    for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                        xmlns:tdf="urn:us:gov:ic:tdf"
                        xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                        tdf:version="202111-IC-TDF.202111">
            <tdf:HandlingAssertion tdf:scope="TDO">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                            xmlns:usagency="urn:us:gov:ic:usagency"
                            xmlns:icid="urn:us:gov:ic:id"
                            usagency:CESVersion="202207"
                            icid:DESVersion="202111"
                            edh:DESVersion="201903"
                            ism:DESVersion="202111.202211"
                            ism:ISMCATCESVersion="202211">
                        <icid:Identifier>guide://999001/EdhExample</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DIA</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                    ism:compliesWith="OtherAuthority"
                                    ism:resourceElement="true"
                                    ism:createDate="2012-05-29"
                                    ism:classification="U"
                                    ism:ownerProducer="ABW"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:HandlingAssertion tdf:scope="PAYL">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                            xmlns:usagency="urn:us:gov:ic:usagency"
                            xmlns:icid="urn:us:gov:ic:id"
                            usagency:CESVersion="202207"
                            icid:DESVersion="202111"
                            edh:DESVersion="201903"
                            ism:DESVersion="202111.202211"
                            ism:ISMCATCESVersion="202211">
                        <icid:Identifier>guide://999001/EdhExample</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
```

```
                        <edh:Organization>USA.DIA</edh:Organization>
                    </edh:ResponsibleEntity>
                    <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                  ism:compliesWith="OtherAuthority"
                                  ism:resourceElement="true"
                                  ism:createDate="2012-05-29"
                                  ism:classification="U"
                                  ism:ownerProducer="ABW"/>
                </edh:Edh>
            </tdf:HandlingStatement>
        </tdf:HandlingAssertion>
        <tdf:StringPayload>I am an example payload of a string within</tdf:StringPayload>
    </TrustedDataObject>
```

2.9 - IC-TDF-multiple-bindings.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
          This document has been approved for Public Release and is available for use without restriction.
    --><!-- All classification marks in this example are
        for illustrative purposes only, there are no
      actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                                      xmlns:tdf="urn:us:gov:ic:tdf"
                                      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                                      tdf:version="202111-IC-TDF.202111"
                                      xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd">
            <tdf:HandlingAssertion tdf:id="handlingAssertion1" tdf:scope="TDO">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             xmlns:icid="urn:us:gov:ic:id"
                             ism:ISMCATCESVersion="202211"
                             usagency:CESVersion="202207"
                             icid:DESVersion="202111"
                             edh:DESVersion="201903">
                        <icid:Identifier>guide://999999/uuid</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-06-20T00:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DEA</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:DESVersion="202111.202211"
                                      ism:ISMCATCESVersion="202211"
                                      ism:classification="U"
                                      ism:createDate="2012-06-26"
                                      ism:ownerProducer="USA"
                                      ism:resourceElement="true"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
                <tdf:Binding>
                    <tdf:Signer tdf:subject="firstPersonDN" tdf:issuer="C=US"/>
                    <tdf:SignatureValue tdf:normalizationMethod="Normalization Method"
                                        tdf:includesStatementMetadata="true"
                                        tdf:signatureAlgorithm="SHA256withECDSA">RXhwZWN0ZWQgU3RyaW5nIFZhbHVl</tdf:SignatureValue>
                </tdf:Binding>
                <tdf:Binding>
                    <tdf:Signer tdf:subject="secondPersonDN" tdf:issuer="C=US"/>
                    <tdf:SignatureValue tdf:normalizationMethod="Normalization Method"
                                        tdf:includesStatementMetadata="true"
                                        tdf:signatureAlgorithm="SHA256withECDSA">RXhwZWN0ZWQgU3RyaW5nIFZhbHVl</tdf:SignatureValue>
                </tdf:Binding>
            </tdf:HandlingAssertion>
            <tdf:HandlingAssertion tdf:id="handlingAssertion2" tdf:scope="PAYL">
```

```xml
            <tdf:HandlingStatement>
                <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                         xmlns:usagency="urn:us:gov:ic:usagency"
                         xmlns:icid="urn:us:gov:ic:id"
                         ism:ISMCATCESVersion="202211"
                         usagency:CESVersion="202207"
                         icid:DESVersion="202111"
                         edh:DESVersion="201903">
                    <icid:Identifier>guide://999999/uuid</icid:Identifier>
                    <edh:DataItemCreateDateTime>2012-06-20T00:00:00Z</edh:DataItemCreateDateTime>
                    <edh:ResponsibleEntity edh:role="Custodian">
                        <edh:Country>USA</edh:Country>
                        <edh:Organization>USA.DEA</edh:Organization>
                    </edh:ResponsibleEntity>
                    <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                  ism:compliesWith="USGov USIC"
                                  ism:DESVersion="202111.202211"
                                  ism:ISMCATCESVersion="202211"
                                  ism:classification="U"
                                  ism:createDate="2012-06-26"
                                  ism:ownerProducer="USA"
                                  ism:resourceElement="true"/>
                </edh:Edh>
            </tdf:HandlingStatement>
            <tdf:Binding>
                <tdf:Signer tdf:subject="firstPersonDN" tdf:issuer="C=US"/>
                <tdf:SignatureValue tdf:normalizationMethod="Normalization Method"
                                    tdf:includesStatementMetadata="false"
                                    tdf:signatureAlgorithm="SHA256withECDSA">RXhwZWN0ZWQgU3RyaW5nIFZhbHVl</tdf:SignatureValue>
            </tdf:Binding>
            <tdf:Binding>
                <tdf:Signer tdf:subject="secondPersonDN" tdf:issuer="C=US"/>
                <tdf:SignatureValue tdf:normalizationMethod="Normalization Method"
                                    tdf:includesStatementMetadata="false"
                                    tdf:signatureAlgorithm="SHA256withECDSA">RXhwZWN0ZWQgU3RyaW5nIFZhbHVl</tdf:SignatureValue>
            </tdf:Binding>
        </tdf:HandlingAssertion>
        <tdf:Assertion tdf:id="assertion1" tdf:scope="TDO">
            <tdf:StringStatement tdf:isEncrypted="false">This is the first assertion</tdf:StringStatement>
        </tdf:Assertion>
        <tdf:Assertion tdf:id="assertion2" tdf:scope="TDO">
            <tdf:Base64BinaryStatement tdf:isEncrypted="false">VGhpcyBpcyBhIGJpbmFyeSBzdGF0ZW1lbnQ=</tdf:Base64BinaryStatement>
        </tdf:Assertion>
        <tdf:StringPayload tdf:filename="myText.txt" tdf:id="org.java" tdf:isEncrypted="false">This is a text document</tdf:StringPayload>
    </TrustedDataObject>
```

2.10 - IC-TDF-object.xml

```
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
          This document has been approved for Public Release and is available for use without restriction.
      --><!-- All classification marks in this example are
      for illustrative purposes only, there are no
    actual classified data contained in this example --><TrustedDataObject xmlns="urn:us:gov:ic:tdf"
                                  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                                  xmlns:tdf="urn:us:gov:ic:tdf"
                                  xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                                  tdf:version="202111-IC-TDF.202111">
            <tdf:HandlingAssertion tdf:scope="TDO">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             xmlns:icid="urn:us:gov:ic:id"
                             usagency:CESVersion="202207"
                             icid:DESVersion="202111"
                             edh:DESVersion="201903"
                             ism:DESVersion="202111.202211"
                             ism:ISMCATCESVersion="202211">
                        <icid:Identifier>guide://999001/EdhExample1</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DIA</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-29"
                                      ism:classification="U"
                                      ism:ownerProducer="USA"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:HandlingAssertion tdf:scope="PAYL">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             xmlns:icid="urn:us:gov:ic:id"
                             usagency:CESVersion="202207"
                             icid:DESVersion="202111"
                             edh:DESVersion="201903"
                             ism:DESVersion="202111.202211"
                             ism:ISMCATCESVersion="202211">
                        <icid:Identifier>guide://999001/EdhExample2</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
```

```
                        <edh:Organization>USA.DIA</edh:Organization>
                    </edh:ResponsibleEntity>
                    <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                  ism:compliesWith="USGov USIC"
                                  ism:resourceElement="true"
                                  ism:createDate="2012-05-29"
                                  ism:classification="U"
                                  ism:ownerProducer="USA"/>
                </edh:Edh>
            </tdf:HandlingStatement>
        </tdf:HandlingAssertion>
        <tdf:Assertion tdf:scope="PAYL">
            <tdf:StringStatement>I am assertion about the payload. This payload is just an example to show usage of the IC-TDF
schema</tdf:StringStatement>
        </tdf:Assertion>
        <tdf:StringPayload>I am an example payload of a string within</tdf:StringPayload>
    </TrustedDataObject>
```

2.11 - IC-TDF-payload.xml

```xml
<?xml-model href="../../Schematron/IC-EDH/IC-EDH_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-ID/IC-ID_XML.sch"
type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/ISM/ISM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/
schematron"?><?xml-model href="../../Schematron/USAgency/USAgency_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../Schematron/IC-
TDF/IC-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"?><!-- Distro Statement: Distribution Notice:
          This document has been approved for Public Release and is available for use without restriction.
     --><!-- All classification marks in this example are
       for illustrative purposes only, there are no
     actual classified data contained in this example --><TrustedDataCollection xmlns="urn:us:gov:ic:tdf"
                                    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                                    xmlns:tdf="urn:us:gov:ic:tdf"
                                    xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/IC-TDF/IC-TDF.xsd"
                                    tdf:version="202111-IC-TDF.202111">
              <tdf:HandlingAssertion tdf:scope="TDC">
                 <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             xmlns:icid="urn:us:gov:ic:id"
                             usagency:CESVersion="202207"
                             icid:DESVersion="202111"
                             edh:DESVersion="201903"
                             ism:DESVersion="202111.202211"
                             ism:ISMCATCESVersion="202211">
                       <icid:Identifier>guide://999004/EdhExample001</icid:Identifier>
                       <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                       <edh:ResponsibleEntity edh:role="Custodian">
                          <edh:Country>USA</edh:Country>
                          <edh:Organization>USA.DNI</edh:Organization>
                       </edh:ResponsibleEntity>
                       <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                     ism:compliesWith="USGov USIC"
                                     ism:resourceElement="true"
                                     ism:createDate="2012-05-29"
                                     ism:classification="U"
                                     ism:ownerProducer="USA"/>
                    </edh:Edh>
                 </tdf:HandlingStatement>
              </tdf:HandlingAssertion>
              <tdf:Assertion tdf:scope="TDC">
                 <tdf:StringStatement>I am an example assertion about this TDC</tdf:StringStatement>
              </tdf:Assertion>
              <TrustedDataObject>
                 <tdf:HandlingAssertion tdf:scope="TDO">
                    <tdf:HandlingStatement>
                       <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                                xmlns:usagency="urn:us:gov:ic:usagency"
                                xmlns:icid="urn:us:gov:ic:id"
                                ism:ISMCATCESVersion="202211"
                                usagency:CESVersion="202207"
                                icid:DESVersion="202111">
                          <icid:Identifier>guide://999004/EdhExample003</icid:Identifier>
                          <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
```

```xml
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DNI</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                      ism:compliesWith="USGov USIC"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-29"
                                      ism:classification="U"
                                      ism:ownerProducer="USA"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:HandlingAssertion tdf:scope="PAYL">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             xmlns:icid="urn:us:gov:ic:id"
                             ism:ISMCATCESVersion="202211"
                             usagency:CESVersion="202207"
                             icid:DESVersion="202111">
                        <icid:Identifier>guide://999004/EdhExample004</icid:Identifier>
                        <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                        <edh:ResponsibleEntity edh:role="Custodian">
                            <edh:Country>USA</edh:Country>
                            <edh:Organization>USA.DNI</edh:Organization>
                        </edh:ResponsibleEntity>
                        <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                      ism:resourceElement="true"
                                      ism:createDate="2012-05-29"
                                      ism:classification="U"
                                      ism:ownerProducer="USA"
                                      ism:compliesWith="USGov USIC"/>
                    </edh:Edh>
                </tdf:HandlingStatement>
            </tdf:HandlingAssertion>
            <tdf:StructuredPayload>
                <smpl:samplePayload xmlns:smpl="exampleStructuredPayload"
                                    xsi:schemaLocation="exampleStructuredPayload sampleStructured.xsd"
                                    smpl:sampleAttribute="exampleAttribute text">
                    <smpl:someInformation>I am information within a structured payload</smpl:someInformation>
                    <smpl:moreInformation smpl:sampleAttribute2="attribute">
                        <smpl:informationElement>More information within a payload</smpl:informationElement>
                        <smpl:informationElement>More information within a payload</smpl:informationElement>
                    </smpl:moreInformation>
                </smpl:samplePayload>
            </tdf:StructuredPayload>
        </TrustedDataObject>
        <TrustedDataObject>
            <tdf:HandlingAssertion tdf:scope="TDO">
                <tdf:HandlingStatement>
                    <edh:Edh xmlns:edh="urn:us:gov:ic:edh"
                             xmlns:usagency="urn:us:gov:ic:usagency"
                             xmlns:icid="urn:us:gov:ic:id"
```

```
                             ism:ISMCATCESVersion="202211"
                             usagency:CESVersion="202207"
                             icid:DESVersion="202111">
                    <icid:Identifier>guide://999990/TdoExample2</icid:Identifier>
                    <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                    <edh:ResponsibleEntity edh:role="Custodian">
                        <edh:Country>USA</edh:Country>
                        <edh:Organization>USA.DIA</edh:Organization>
                    </edh:ResponsibleEntity>
                    <arh:Security xmlns:arh="urn:us:gov:ic:arh"
                                  ism:compliesWith="USGov USIC"
                                  ism:resourceElement="true"
                                  ism:createDate="2012-05-29"
                                  ism:classification="U"
                                  ism:ownerProducer="USA"/>
                </edh:Edh>
            </tdf:HandlingStatement>
        </tdf:HandlingAssertion>
        <tdf:HandlingAssertion tdf:scope="PAYL">
            <tdf:HandlingStatement>
                <edh:ExternalEdh xmlns:edh="urn:us:gov:ic:edh"
                                 xmlns:usagency="urn:us:gov:ic:usagency"
                                 xmlns:icid="urn:us:gov:ic:id"
                                 ism:ISMCATCESVersion="202211"
                                 usagency:CESVersion="202207"
                                 icid:DESVersion="202111">
                    <icid:Identifier>guide://999990/EdhExample2</icid:Identifier>
                    <edh:DataItemCreateDateTime>2012-05-29T09:00:00Z</edh:DataItemCreateDateTime>
                    <edh:ResponsibleEntity edh:role="Custodian">
                        <edh:Country>USA</edh:Country>
                        <edh:Organization>USA.DIA</edh:Organization>
                    </edh:ResponsibleEntity>
                    <arh:ExternalSecurity xmlns:arh="urn:us:gov:ic:arh"
                                          ism:compliesWith="USGov USIC"
                                          ism:resourceElement="true"
                                          ism:createDate="2012-05-29"
                                          ism:classification="S"
                                          ism:ownerProducer="USA"
                                          ism:declassDate="2035-10-10"
                                          ism:derivedFrom="multiple sources"
                                          ism:derivativelyClassifiedBy="1.4(c)"
                                          ism:excludeFromRollup="true"
                                          ism:disseminationControls="RELIDO"/>
                </edh:ExternalEdh>
            </tdf:HandlingStatement>
        </tdf:HandlingAssertion>
        <tdf:Assertion tdf:scope="PAYL">
            <tdf:StringStatement>I am assertion about the payload. This payload is just an example to show usage of the IC-TDF
schema</tdf:StringStatement>
        </tdf:Assertion>
        <tdf:ReferenceValuePayload tdf:uri="http://example/reference/payload"/>
    </TrustedDataObject>
</TrustedDataCollection>
```