



# **XML Examples for DHZM-TDF**

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## **DHZM-TDF-Examples**

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## **Chapter 1 - Introduction**

### **1.1 - Purpose**

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

Chapter 2 - Example Files

2.1 - DHZM-TDF-MultipleAssertions-TDO.xml

```
<?xml-model href="../../../Schematron/DHZM/DHZM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/DHZM-TDF/DHZM-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/BASE-TDF/BASE-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/ANLYS/ANLYS_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/IC-SF/IC-SF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?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/USAgency/USAgency_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/ISMCAT/ISMCAT_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><?xml-model href="../../../Schematron/RevRecall/RevRecall_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?><tdf:TrustedDataObject xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:tdf="urn:us:gov:ic:tdf" xmlns:dhzm="urn:us:gov:ic:digitalhazmat" xmlns:sign="http://www.w3.org/2000/09/xmldsig#" xmlns:sfhashv="urn:us:gov:ic:sf:hashverification" xmlns:sf="urn:us:gov:ic:sf" xmlns:anlys="urn:us:gov:ic:anlysassert" xmlns="urn:us:gov:ic:tdf" xsi:schemaLocation="urn:us:gov:ic:tdf ../../Schema/DHZM-TDF/DHZM-TDF.xsd urn:us:gov:ic:digitalhazmat ../../Schema/DHZM/DHZM.xsd urn:us:gov:ic:anlysassert ../../Schema/ANLYS/ANLYS.xsd urn:us:gov:ic:sf:hashverification ../../Schema/IC-SF/HashVerification.xsd" tdf:version="202111-DHZM-TDF.202111" sf:DESVersion="202111">
  <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>
</HandlingAssertion tdf:scope="TDO">
  <HandlingStatement>
    <RevisionRecall xmlns="urn:us:gov:ic:revrecall" xmlns:rr="urn:us:gov:ic:revrecall">
```

```

        rr:DESVersion="202111.202205"
        rr:id="1"
        rr:type="ADMINISTRATIVE_RECALL"
        rr:dateTime="2009-11-10T12:00:00.0-04:00"
        rr:action="PURGE">
<Security xmlns="urn:us:gov:ic:arh"
    ism:resourceElement="true"
    ism:createDate="2006-07-29"
    ism:ownerProducer="USA"
    ism:classification="U"
    ism:compliesWith="USGov USIC"/>
<rr:ProductTitle ism:classification="U" ism:ownerProducer="USA">Some Title</rr:ProductTitle>
<rr:Reason ism:classification="U" ism:ownerProducer="USA">This document should be purged for some reason.</rr:Reason>
<rr:POC ism:classification="U" ism:ownerProducer="USA">John Doe, john.doe@org.gov, 555-555-5555</rr:POC>
<rr:Link ism:classification="U"
    ism:ownerProducer="USA"
    xlink:href="guide://9991/kd923pms93KDw934"
    xlink:type="locator"/>
<rr:Link ism:classification="U"
    ism:ownerProducer="USA"
    xlink:href="guide://9991/48fj48df08jxE342"
    xlink:type="locator"/>
<rr:Link ism:classification="U"
    ism:ownerProducer="USA"
    xlink:href="guide://9991/9fmN4Iuf84mf94kr"
    xlink:type="locator"/>
</RevisionRecall>
</HandlingStatement>
</HandlingAssertion>
<tdf:Assertion tdf:scope="PAYL">
    <tdf:StructuredStatement>
        <dhzm:DigitalHazMatAssertion dhzm:DESVersion="202111">
            <dhzm:DigitalHazMat>This element describes an obfuscated payload which is either known or suspected to contain software or similar
data which could cause harm to information processing systems. It has been encapsulated to render it inert. Any attempt to decode
this payload outside a safe analysis environment may pose a danger to your system.</dhzm:DigitalHazMat>
            </dhzm:DigitalHazMatAssertion>
        </tdf:StructuredStatement>
    </tdf:Assertion>
    <tdf:Assertion tdf:scope="PAYL">
        <tdf:StructuredStatement>
            <dhzm:ProvenanceAssertion dhzm:DESVersion="202111">
                <dhzm:ContentCollectionTimestamp>2019-01-17T09:00:00Z</dhzm:ContentCollectionTimestamp>
                <dhzm:ContentSize>100</dhzm:ContentSize>
                <dhzm:ContentEncodedSize>100</dhzm:ContentEncodedSize>
                <dhzm:ContentEncodingMethod>XOR</dhzm:ContentEncodingMethod>
            </dhzm:ProvenanceAssertion>
        </tdf:StructuredStatement>
    </tdf:Assertion>
    <tdf:Assertion tdf:scope="PAYL">
        <tdf:StructuredStatement>
            <anlys:AnalysisAssertion analys:DESVersion="202111">
                <anlys:OriginContentFilename>SuperBadDigitalHazMat</anlys:OriginContentFilename>
                <anlys:KnownMalicious>true</anlys:KnownMalicious>
                <anlys:AnalysisMethodList>
```

```

    <anlys:AnalysisMethod>Virus_Scan</anlys:AnalysisMethod>
  </anlys:AnalysisMethodList>
  <anlys:AnalysisMethodToolList>
    <anlys:AnalysisMethodTool>
      <anlys:AnalysisMethodToolName>ManualAnalysis</anlys:AnalysisMethodToolName>
    </anlys:AnalysisMethodTool>
    <anlys:AnalysisMethodTool>
      <anlys:AnalysisMethodToolName>cpe:/a:nsa:ghidra:9.0</anlys:AnalysisMethodToolName>
    </anlys:AnalysisMethodTool>
    <anlys:AnalysisMethodTool>
      <anlys:AnalysisMethodToolName>Other:cpe:/a:nsa:superghidra:10.0</anlys:AnalysisMethodToolName>
    </anlys:AnalysisMethodTool>
  </anlys:AnalysisMethodToolList>
</anlys:AnalysisAssertion>
</tdf:StructuredStatement>
</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:ReferenceValuePayload tdf:uri="bitcionstealer.gz.enc"
  tdf:mediaType="application/octet-stream"
  tdf:isEncrypted="true">
  <tdf:ReferenceValueBlock tdf:uri="bitcionstealer.gz.enc.p01" sfhashv:block="1"/>
  <tdf:ReferenceValueBlock tdf:uri="bitcionstealer.gz.enc.p02" sfhashv:block="2"/>
  <sfhashv:ContentEncodedHashVerification sfhashv:hashType="SHA-256">
    <sfhashv:TotalHash sfhashv:blockSize="134217728" sfhashv:totalBlocks="2">a8cd34e5e8472b6ac51c1ae1cab3fe06fad053beb8ebfd8977b010655bfdd3c3</sfhashv:TotalHash>
    <sfhashv:BlockHash sfhashv:block="1">e1232c608aa3e28350cebc98e47dfe784f966bd027ea376b7d4700fe6b07ea3d</sfhashv:BlockHash>
    <sfhashv:BlockHash sfhashv:block="2">f9fa8e46bd027ea376b7d47dc0758a48a4f96e68fe78e064700f700fe6b07ea3</sfhashv:BlockHash>
  </sfhashv:ContentEncodedHashVerification>
  <sfhashv:ContentDecodedHashVerification sfhashv:hashType="SHA-256">
    <sfhashv:TotalHash sfhashv:blockSize="134217728" sfhashv:totalBlocks="2">1e9e34e5e8472b6ac51c1ae1cab3fe06fad053beb8ebfd8977b010655bfdd3c3</sfhashv:TotalHash>
    <sfhashv:BlockHash sfhashv:block="1">4e5e608aa3e28350cebc98e47dfe784f966bd027ea376b7d4700fe6b07ea3d</sfhashv:BlockHash>
    <sfhashv:BlockHash sfhashv:block="2">2e3e8e46bd027ea376b7d47dc0758a48a4f96e68fe78e064700f700fe6b07ea3</sfhashv:BlockHash>
  </sfhashv:ContentDecodedHashVerification>
</tdf:ReferenceValuePayload>
</tdf:TrustedDataObject>
```