



# **XML Examples for DHZM**

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## **DHZM-Examples**

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## **Chapter 1 - Introduction**

### **1.1 - Purpose**

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

Chapter 2 - Example Files

2.1 - DHZM\_TDO\_commercial.xml

```
<?xml-model href="../../../Schematron/DHZM/DHZM_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?>
<?xml-model href="../../../Schematron/DHZMC-TDF/DHZMC-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?>
<?xml-model href="../../../Schematron/BASE-TDF/BASE-TDF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?>
<?xml-model href="../../../Schematron/IC-SF/IC-SF_XML.sch" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"?>
<tdf:TrustedDataObject xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:tdf="urn:us:gov:ic:tdf"
    xmlns:dhzm="urn:us:gov:ic:digitalhazmat"
    xmlns:sign="http://www.w3.org/2000/09/xmldsig#"
    xmlns:icsfhashv="urn:us:gov:ic:sf:hashverification"
    xmlns:icsf="urn:us:gov:ic:sf"
    xmlns="urn:us:gov:ic:tdf"
    xsi:schemaLocation="urn:us:gov:ic:tdf ../../../Schema/DHZMC-TDF/DHZMC-TDF.xsd urn:us:gov:ic:sf:hashverification ../../../Schema/IC-SF/HashVerification.xsd"
    tdf:version="202101-DHZMC-TDF.202101">
    <tdf:Assertion tdf:scope="PAYL">
        <tdf:StructuredStatement>
            <dhzm:ProvenanceAssertion dhzm:DESVersion="202101" icsf:DESVersion="202101">
                <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:ContentCollectionTimestamp>2019-01-17T09:00:00Z</dhzm:ContentCollectionTimestamp>
                <dhzm:ContentSize>100</dhzm:ContentSize>
                <icsfhashv:ContentDecodedHashVerification icsfhashv:hashType="SHA-256">
                    <icsfhashv:PayloadHash>4355a46b19d348dc2f57c046f8ef63d4538ebb936000f3c9ee954a27460dd865</icsfhashv:PayloadHash>
                </icsfhashv:ContentDecodedHashVerification>
                <dhzm:ContentEncodedSize>100</dhzm:ContentEncodedSize>
                <dhzm:ContentEncodingMethod>XOR</dhzm:ContentEncodingMethod>
                <icsfhashv:ContentEncodedHashVerification icsfhashv:hashType="SHA-256">
                    <icsfhashv:TotalHash icsfhashv:blockSize="134217728" icsfhashv:totalBlocks="2">53c234e5e8472b6ac51c1ae1cab3fe06fad053beb8ebfd8977b010655bfdd3c3</
icsfhashv:TotalHash>
                    <icsfhashv:BlockHash icsfhashv:block="1">e0642c608aa3e28350cebc98e47dfe784f966bd027ea376b7d4700fe6b07ea3d</icsfhashv:BlockHash>
                    <icsfhashv:BlockHash icsfhashv:block="2">e6b98e46bd027ea376b7d47dc0758a48a4f96e68fe78e064700f700fe6b07ea3</icsfhashv:BlockHash>
                </icsfhashv:ContentEncodedHashVerification>
            </dhzm:ProvenanceAssertion>
        </tdf:StructuredStatement>
    </tdf:Assertion>
    <tdf:Assertion tdf:scope="PAYL">
        <tdf:StructuredStatement>
            <dhzm:AnalysisAssertion dhzm:DESVersion="202101" icsf:DESVersion="202101">
                <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:OriginContentFilename>SuperBadDigitalHazMat</dhzm:OriginContentFilename>
                <icsfhashv:ContentDecodedHashVerification icsfhashv:hashType="SHA-256">
                    <icsfhashv:PayloadHash>839ba46b19d348dc2f57c046f8ef63d4538ebb936000f3c9ee954a27460dd865</icsfhashv:PayloadHash>
                </icsfhashv:ContentDecodedHashVerification>
```

```
<dhzm:KnownMalicious>true</dhzm:KnownMalicious>
<dhzm:AnalysisMethod>Virus_Scan</dhzm:AnalysisMethod>
<dhzm:AnalysisMethodToolList>
  <dhzm:AnalysisMethodTool>
    <dhzm:AnalysisMethodToolName>ManualAnalysis</dhzm:AnalysisMethodToolName>
  </dhzm:AnalysisMethodTool>
  <dhzm:AnalysisMethodTool>
    <dhzm:AnalysisMethodToolName>cpe:/a:nsa:ghidra:9.0</dhzm:AnalysisMethodToolName>
  </dhzm:AnalysisMethodTool>
  <dhzm:AnalysisMethodTool>
    <dhzm:AnalysisMethodToolName>Other:cpe:/a:nsa:superghidra:10.0</dhzm:AnalysisMethodToolName>
  </dhzm:AnalysisMethodTool>
</dhzm:AnalysisMethodToolList>
</dhzm: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">
  <ReferenceValueBlock tdf:uri="bitcionstealer.gz.enc.p01" icsfhashv:block="1"/>
  <ReferenceValueBlock tdf:uri="bitcionstealer.gz.enc.p02" icsfhashv:block="2"/>
  <icsfhashv:ContentEncodedHashVerification icsfhashv:hashType="SHA-256">
    <icsfhashv:TotalHash icsfhashv:blockSize="134217728" icsfhashv:totalBlocks="2">a8cd34e5e8472b6ac51clae1cab3fe06fad053beb8ebfd8977b010655bfd3c3</icsfhashv:TotalHash>
    <icsfhashv:BlockHash icsfhashv:block="1">e1232c608aa3e28350cebc98e47dfe784f966bd027ea376b7d4700fe6b07ea3d</icsfhashv:BlockHash>
    <icsfhashv:BlockHash icsfhashv:block="2">f9fa8e46bd027ea376b7d47dc0758a48a4f96e68fe78e064700f700fe6b07ea3</icsfhashv:BlockHash>
  </icsfhashv:ContentEncodedHashVerification>
  <icsfhashv:ContentDecodedHashVerification icsfhashv:hashType="SHA-256">
    <icsfhashv:TotalHash icsfhashv:blockSize="134217728" icsfhashv:totalBlocks="2">1e9e34e5e8472b6ac51clae1cab3fe06fad053beb8ebfd8977b010655bfd3c3</icsfhashv:TotalHash>
    <icsfhashv:BlockHash icsfhashv:block="1">4e5e608aa3e28350cebc98e47dfe784f966bd027ea376b7d4700fe6b07ea3d</icsfhashv:BlockHash>
    <icsfhashv:BlockHash icsfhashv:block="2">2e3e8e46bd027ea376b7d47dc0758a48a4f96e68fe78e064700f700fe6b07ea3</icsfhashv:BlockHash>
  </icsfhashv:ContentDecodedHashVerification>
</tdf:ReferenceValuePayload>
</tdf:TrustedDataObject>
```