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    "errorMessage" : null,
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      "message" : null
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      "type" : "SIGNED_PROPERTIES",
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      "keyLengthUsedToSignThisToken" : "2048",
      "digestAlgoUsedToSignThisToken": "SHA256",
      "maskGenerationFunctionUsedToSignThisToken" : null,
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      "signatureValid" : true
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      "digestValuePresent" : true,
      "digestValueMatch" : true,
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        "name" : "sample.xml",
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      "counterSignature" : null
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        "format" : "CANONICAL"
      }, {
        "value" : "C=LU,OU=PKI-TEST,O=Nowina Solutions,CN=good-ca",
        "format" : "RFC2253"
      } ],
      "issuerDistinguishedName" : [ {
        "value" : "c=lu,ou=pki-test,o=nowina solutions,cn=root-ca",
        "format" : "CANONICAL"
     }, {
        "value" : "C=LU,OU=PKI-TEST,O=Nowina Solutions,CN=root-ca",
        "format": "RFC2253"
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      "commonName" : "good-ca",
      "locality" : null,
      "state" : null,
      "countryName" : "LU",
      "organizationName" : "Nowina Solutions",
      "givenName" : null,
      "organizationalUnit" : "PKI-TEST",
      "surname" : null,
      "pseudonym" : null,
      "email" : null,
      "authorityInformationAccessUrls" : [ "http://dss.nowina.lu/pki-factory/crt/root-
ca.crt" ],
      "digestAlgoAndValues" : [ ],
      "notAfter" : 1535270070000,
      "notBefore": 1477468470000,
      "publicKeySize" : 2048,
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"publicKeyEncryptionAlgo" : "RSA",
      "keyUsageBits" : [ "digitalSignature" ],
      "extendedKeyUsages" : [ ],
      "idPkixOcspNoCheck" : false,
      "basicSignature" : {
        "encryptionAlgoUsedToSignThisToken": "RSA",
        "keyLengthUsedToSignThisToken": "?",
        "digestAlgoUsedToSignThisToken": "SHA256",
        "maskGenerationFunctionUsedToSignThisToken" : null,
        "signatureIntact" : false,
        "signatureValid" : false
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      "signingCertificate" : null,
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        "format" : "CANONICAL"
      }, {
        "value" : "C=LU,OU=PKI-TEST,O=Nowina Solutions,CN=root-ca",
        "format" : "RFC2253"
      }],
      "issuerDistinguishedName" : [ {
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"value" : "c=lu,ou=pki-test,o=nowina solutions,cn=root-ca",
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        "format" : "RFC2253"
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      "serialNumber" : 1,
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      "state" : null,
      "countryName" : "LU",
      "organizationName" : "Nowina Solutions",
      "givenName" : null,
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      "surname" : null,
      "pseudonym" : null,
      "email" : null,
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      "extendedKeyUsages" : [ ],
      "idPkixOcspNoCheck" : false,
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      "crldistributionPoints" : [ ],
      "qcstatementIds" : [ ]
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      "organizationName" : "Nowina Solutions",
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      "surname" : null,
      "pseudonym" : null,
      "email" : null,
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      "notBefore": 1477468471000,
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      "idPkixOcspNoCheck" : false,
      "basicSignature" : {
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        "keyLengthUsedToSignThisToken": "2048",
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      "crldistributionPoints" : [ ],
      "qcstatementIds" : [ ]
    }, {
      "subjectDistinguishedName" : [ {
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        "format" : "CANONICAL"
      }, {
        "value" : "C=LU,OU=PKI-TEST,O=Nowina Solutions,CN=good-ca",
        "format" : "RFC2253"
      }],
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"issuerDistinguishedName" : [{

"value" : "c=lu,ou=pki-test,o=nowina solutions,cn=root-ca",

```
"format" : "CANONICAL"
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      "extendedKeyUsages" : [ ],
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        "keyLengthUsedToSignThisToken": "2048",
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        "attributePresent" : null,
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        "digestValueMatch" : null,
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      "trustedServiceProviders": [],
      "revocations" : [ ],
      "base64Encoded":
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"MIID6jCCAtKgAwIBAgIBBDANBgkqhki69w0BAQsFADBNMRAwDgYDVQQDDAdyb290LWNhMRkwFwYDVQQKDBBOb3dpbmEgU29sdXRpb25zMREwDwYDVQQLDAhQS0ktVEVTVDELMAkGA1UEBhMCTFUwHhcNMTcxMTI0MTQ0MzI0WhcNMTkwOTI0MTM0MzI0WjBNMRAwDgYDVQQDDAdnb29kLWNhMRkwFwYDVQQKDBBOb3dpbmEgU29sdXRpb25zMREwDwYDVQQLDAhQS0ktVEVTVDELMAkGA1UEBhMCTFUwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDE0JtjEg9q26lR5tJnvPLkgtWaMrRkeDfABta1qI3XLC2+AwLketU11PuwK5HopmHkSTpXFE/cWfGmbgsHSkYlfcsXD6CKtYtinjzeekMQE7xiPWM5b9QtyGoh6BZUyydw934LnNjJNHfMgQVtyVnQ8L6SwFhyT3BTWU9SzVCNSlyUSJCAEsNQrFP1mxiHsdXJ1UUykqxhaLC0gGZhIyhTZB3qNaRSIcGr4IlXTCXUkB8oaWNqwe/sS1+JlkiGdGED3NR9Zh4SBAk65wfL1xjzN+JgDrTTbPoKJ0lqeTrv3NMsW9rzG/Fx4AlJgA7Lo+ujrHwggyC9zg3pRRQaH+LpAgMBAAGjgdQwgdEwDgYDVR0PAQH/BAQDAgeAMEEGA1UdHwQ6MDgwNqA0oDKGMGh0dHA6Ly9kc3Mubm93aW5hLmx1L3BraS1mYWN0b3J5L2NybC9yb290LWNhLmNybDBMBggrBgEFBQcBAQRAMD4wPAYIKwYBBQUHMAKGMGh0dHA6Ly9kc3Mubm93aW5hLmx1L3BraS1mYWN0b3J5L2NybC9yb290LWNhLmNydDAdBgNVHQ4EFgQUYEoTfXrajcuuURqGnbZIZlxBRQ0wDwYDVR0TAQH/BAUwAwEB/zANBgkqhki69w0BAQsFAAOCAQEAMEZzOXyFl4FEUrOXIaI2ha74zIbGsmtKdk2p801cYh4vrsldN8hbXUu7sbWTJ9BP6HdFJ+89fP+OUbyHm1NwFYf+BN11+NFKQoDniheezha9Z08m0aKSTQvt/J3SHr/Ui7F00cDZhPa4SNHWdt12capxYUY0o7ww/WpI+z5bIUauwiimBEqK2Dr2jwxbztM0qlDjKgHpCtriW48e5NmT9IBnJhMqqLLJpt9/AwepRMakcz65/wu40YcPd42TINMWwcIAWAZLPxdemIuwMrCQnGKZSmi1GkCWuMOwFcHXk7Yb2xku6PQPvcLWqSRMjD0RzVy8G2kK52VMwwwjoDi+Gg==",

```
iW48e5NmT9IBnJhMqqlLJpt9/AwepRMakcz65/wu40YcPd42TINMWwcIAWAZLPxdemIuwMrCQnGKZSmi1GkCWu
MOwFcHXk7Yb2xku6PQPvcLWqSRMjD0RzVy8G2kK52VMwwwjoDi+Gg==",
      "id": "AB3AE83863C1B024F54BFCCB363792CD9051E540853820756EA46D2A2E2B9E43",
      "qctypes" : [ ],
      "ocspaccessUrls" : [ ],
      "crldistributionPoints" : [ "http://dss.nowina.lu/pki-factory/crl/root-ca.crl"
],
      "qcstatementIds" : [ ]
    }],
    "trustedLists" : [ ],
    "listOfTrustedLists" : null
 },
  "simpleReport" : {
    "policy" : {
      "policyName" : "QES AdESQC TL based",
      "policyDescription" : "Validate electronic signatures and indicates whether they
are Advanced electronic Signatures (AdES), AdES supported by a Qualified Certificate
(AdES/QC) or a\n\t\tQualified electronic Signature (QES). All certificates and their
related chains supporting the signatures are validated against the EU Member State
Trusted Lists (this includes\n\t\tsigner's certificate and certificates used to
validate certificate validity status services - CRLs, OCSP, and time-stamps).\n\t"
    "validationTime" : 1542794106830,
    "documentName" : "xades-detached.xml",
    "validSignaturesCount" : 0,
    "signaturesCount" : 1,
    "containerType" : null,
    "signature" : [ {
      "filename" : null,
      "signingTime" : 1506596944000,
      "bestSignatureTime" : 1542794106830,
      "signedBy" : "good-user",
      "certificateChain" : {
        "certificate" : [ {
          "id": "F0FF0B4514D316304F2817DBA0BFB05DEDB98527C0E47C73E8D8FDFE16DF267E",
          "qualifiedName" : "good-user"
        }, {
```

```
"id": "6F35DE3965B9A69BC3661D1A355B0AE60907ADB741CC1911EFD0F3BE72D6A6E9",
          "qualifiedName" : "good-ca"
        } ]
     },
      "signatureLevel" : {
       "value" : "NA",
        "description" : "Not applicable"
     },
     "indication" : "INDETERMINATE",
      "subIndication" : "NO_CERTIFICATE_CHAIN_FOUND",
      "errors" : [ "The certificate path is not trusted!", "The result of the LTV
validation process is not acceptable to continue the process!" ],
      "warnings" : [ "The signature/seal is an INDETERMINATE AdES!" ],
      "infos" : [ ],
      "signatureScope" : [ {
        "value" : "Full document",
        "name" : "sample.xml",
       "scope" : "FULL"
     } ],
      "id": "id-afde782436468dd74eeb181f7ce110e1",
     "counterSignature" : null,
      "parentId" : null,
     "signatureFormat" : "XAdES-BASELINE-B"
   } ]
 },
  "detailedReport" : {
    "signatures" : [ {
      "validationProcessBasicSignatures" : {
        "constraint" : [ {
          "name" : {
            "value": "Is the result of the Basic Validation Process conclusive?",
            "nameId" : "ADEST_ROBVPIIC"
          },
          "status" : "NOT_OK",
          "error" : {
            "value": "The result of the Basic validation process is not conclusive!",
            "nameId" : "ADEST_ROBVPIIC_ANS"
          },
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id": "id-afde782436468dd74eeb181f7ce110e1"
        "conclusion" : {
          "indication" : "INDETERMINATE",
          "subIndication" : "NO_CERTIFICATE_CHAIN_FOUND",
          "errors" : [ {
            "value" : "The certificate chain for signature is not trusted, there is no
trusted anchor.",
            "nameId" : "BBB_XCV_CCCBB_SIG_ANS"
          } ],
```

```
"warnings" : [ ],
          "infos" : [ ]
        },
        "bestSignatureTime" : 1542794106830
      "validationProcessTimestamps" : [ ],
      "validationProcessLongTermData" : {
        "constraint" : [ {
          "name" : {
            "value": "Is the result of the Basic Validation Process acceptable?",
            "nameId" : "LTV_ABSV"
          },
          "status" : "NOT_OK",
          "error" : {
            "value": "The result of the Basic validation process is not acceptable to
continue the process!",
            "nameId" : "LTV_ABSV_ANS"
          },
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        }],
        "conclusion" : {
          "indication": "INDETERMINATE",
          "subIndication" : "NO_CERTIFICATE_CHAIN_FOUND",
          "errors" : [ {
            "value" : "The certificate chain for signature is not trusted, there is no
trusted anchor.",
            "nameId" : "BBB_XCV_CCCBB_SIG_ANS"
          "warnings" : [ ],
          "infos" : [ ]
        },
        "bestSignatureTime" : 1542794106830
      "validationProcessArchivalData" : {
        "constraint" : [ {
          "name" : {
            "value" : "Is the result of the LTV validation process acceptable?",
            "nameId" : "ARCH_LTVV"
          },
          "status" : "NOT_OK",
          "error" : {
            "value" : "The result of the LTV validation process is not acceptable to
continue the process!",
            "nameId" : "ARCH_LTVV_ANS"
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
```

```
"id" : null
        }],
        "conclusion" : {
          "indication" : "INDETERMINATE",
          "subIndication": "NO_CERTIFICATE_CHAIN_FOUND",
          "errors" : [ {
            "value" : "The certificate chain for signature is not trusted, there is no
trusted anchor.",
            "nameId" : "BBB XCV CCCBB SIG ANS"
          } ],
          "warnings" : [ ],
          "infos" : [ ]
        },
        "bestSignatureTime" : 1542794106830
      },
      "validationSignatureQualification" : {
        "constraint" : [ {
          "name" : {
            "value" : "Is the signature/seal an acceptable AdES (ETSI EN 319 102-1)
?",
            "nameId" : "QUAL_IS_ADES"
          },
          "status" : "WARNING",
          "error" : null,
          "warning" : {
            "value" : "The signature/seal is an INDETERMINATE AdES!",
            "nameId" : "QUAL IS ADES IND"
          },
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        }, {
          "name" : {
            "value": "Is the certificate path trusted?",
            "nameId": "QUAL TRUSTED CERT PATH"
          },
          "status" : "NOT_OK",
          "error" : {
            "value": "The certificate path is not trusted!",
            "nameId" : "QUAL_TRUSTED_CERT_PATH_ANS"
          },
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        }],
        "conclusion" : {
          "indication" : "FAILED",
          "subIndication" : null,
          "errors" : [ {
            "value": "The certificate path is not trusted!",
```

```
"nameId" : "QUAL_TRUSTED_CERT_PATH_ANS"
      }, {
        "value" : "The certificate path is not trusted!",
        "nameId" : "QUAL_TRUSTED_CERT_PATH_ANS"
      }],
      "warnings" : [ {
        "value" : "The signature/seal is an INDETERMINATE AdES!",
        "nameId" : "QUAL_IS_ADES_IND"
      } ],
      "infos" : [ ]
    "validationCertificateQualification" : [ ],
    "id" : null,
    "signatureQualification" : "NA"
 },
  "id": "id-afde782436468dd74eeb181f7ce110e1",
 "counterSignature" : null
}],
"certificate" : null,
"basicBuildingBlocks" : [ {
  "fc" : {
    "constraint" : [ {
      "name" : {
        "value": "Is the expected format found?",
        "nameId" : "BBB_FC_IEFF"
      },
      "status" : "OK",
      "error" : null,
      "warning" : null,
      "info" : null,
      "additionalInfo" : null,
      "id" : null
    } ],
    "conclusion" : {
      "indication": "PASSED",
      "subIndication" : null,
      "errors" : [ ],
      "warnings" : [ ],
      "infos" : [ ]
   }
 },
  "isc" : {
    "constraint" : [ {
      "name" : {
        "value": "Is there an identified candidate for the signing certificate?",
       "nameId" : "BBB_ICS_ISCI"
      },
      "status" : "OK",
      "error" : null,
      "warning" : null,
      "info" : null,
```

```
"additionalInfo" : null,
          "id" : null
        }, {
          "name" : {
            "value" : "Is the signed attribute: 'signing-certificate' present?",
            "nameId" : "BBB ICS ISASCP"
          },
          "status" : "OK",
          "error" : null,
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        }, {
          "name" : {
            "value" : "Is the signed attribute: 'cert-digest' of the certificate
present?",
            "nameId" : "BBB_ICS_ISACDP"
          "status" : "OK",
          "error" : null,
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        }, {
            "value" : "Is the certificate's digest value valid?",
            "nameId" : "BBB_ICS_ICDVV"
          },
          "status" : "OK",
          "error" : null,
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        }, {
          "name" : {
            "value" : "Are the issuer distinguished name and the serial number
equal?",
            "nameId" : "BBB_ICS_AIDNASNE"
          },
          "status" : "OK",
          "error" : null,
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        } ],
        "conclusion" : {
          "indication" : "PASSED",
```

```
"subIndication" : null,
    "errors" : [ ],
    "warnings" : [ ],
    "infos" : [ ]
  },
  "certificateChain" : {
    "chainItem" : [ {
      "source": "SIGNATURE",
      "id": "F0FF0B4514D316304F2817DBA0BFB05DEDB98527C0E47C73E8D8FDFE16DF267E"
      "source": "SIGNATURE",
      "id": "6F35DE3965B9A69BC3661D1A355B0AE60907ADB741CC1911EFD0F3BE72D6A6E9"
    } ]
  }
},
"vci" : {
  "constraint" : [ {
    "name" : {
      "value": "Is the signature policy known?",
      "nameId" : "BBB_VCI_ISPK"
    },
    "status" : "OK",
    "error" : null,
    "warning" : null,
    "info" : null,
    "additionalInfo" : null,
    "id" : null
  }],
  "conclusion" : {
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    "subIndication" : null,
    "errors" : [ ],
    "warnings" : [ ],
    "infos" : [ ]
  }
},
"cv" : {
  "constraint" : [ {
    "name" : {
      "value" : "Is the reference data object found?",
      "nameId" : "BBB_CV_IRDOF"
    },
    "status" : "OK",
    "error" : null,
    "warning" : null,
    "info" : null,
    "additionalInfo": "Reference: r-id-1",
    "id" : null
  }, {
      "value" : "Is the reference data object intact?",
```

```
"nameId" : "BBB_CV_IRDOI"
    },
    "status" : "OK",
    "error" : null,
    "warning" : null,
    "info" : null,
    "additionalInfo": "Reference: r-id-1",
    "id" : null
  }, {
    "name" : {
      "value": "Is the reference data object found?",
      "nameId" : "BBB CV IRDOF"
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    "error" : null,
    "warning" : null,
    "info" : null,
    "additionalInfo": "Reference: #xades-id-afde782436468dd74eeb181f7ce110e1",
    "id" : null
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    "name" : {
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      "nameId" : "BBB_CV_IRDOI"
    },
    "status" : "OK",
    "error" : null,
    "warning" : null,
    "info" : null,
    "additionalInfo": "Reference: #xades-id-afde782436468dd74eeb181f7ce110e1",
    "id" : null
  }, {
    "name" : {
      "value" : "Is the signature intact?",
      "nameId" : "BBB_CV_ISI"
    },
    "status" : "OK",
    "error" : null,
    "warning" : null,
    "info" : null,
    "additionalInfo" : null,
    "id" : null
  } ],
  "conclusion" : {
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    "subIndication" : null,
    "errors" : [ ],
    "warnings" : [ ],
    "infos" : [ ]
 }
},
"sav" : {
```

```
"constraint" : [ {
          "name" : {
            "value": "Is signed qualifying property: 'signing-time' present?",
            "nameId" : "BBB_SAV_ISQPSTP"
          },
          "status" : "OK",
          "error" : null,
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        }, {
          "name" : {
            "value" : "Are signature cryptographic constraints met?",
            "nameId" : "ASCCM"
          "status" : "OK",
          "error" : null,
          "warning" : null,
          "info" : null,
          "additionalInfo": "Validation time: 2018-11-21 09:55",
          "id" : null
        }],
        "conclusion" : {
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          "subIndication" : null,
          "errors" : [ ],
          "warnings" : [ ],
          "infos" : [ ]
       }
      },
      "xcv" : {
        "constraint" : [ {
          "name" : {
            "value": "Can the certificate chain be built till the trust anchor?",
            "nameId" : "BBB XCV CCCBB"
          },
          "status" : "NOT_OK",
          "error" : {
            "value" : "The certificate chain for signature is not trusted, there is no
trusted anchor.",
            "nameId" : "BBB_XCV_CCCBB_SIG_ANS"
          "warning" : null,
          "info" : null,
          "additionalInfo" : null,
          "id" : null
        } ],
        "conclusion" : {
          "indication" : "INDETERMINATE",
          "subIndication" : "NO_CERTIFICATE_CHAIN_FOUND",
```

```
"errors" : [ {
            "value" : "The certificate chain for signature is not trusted, there is no
trusted anchor.",
            "nameId" : "BBB_XCV_CCCBB_SIG_ANS"
          "warnings" : [ ],
          "infos" : [ ]
        },
        "subXCV" : [ ]
      },
      "psv" : null,
      "pcv" : null,
      "vts" : null,
      "certificateChain" : {
        "chainItem" : [ {
          "source": "SIGNATURE",
          "id": "F0FF0B4514D316304F2817DBA0BFB05DEDB98527C0E47C73E8D8FDFE16DF267E"
        }, {
          "source": "SIGNATURE",
          "id": "6F35DE3965B9A69BC3661D1A355B0AE60907ADB741CC1911EFD0F3BE72D6A6E9"
       } ]
      },
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        "subIndication": "NO_CERTIFICATE_CHAIN_FOUND",
        "errors" : [ {
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trusted anchor.",
          "nameId" : "BBB_XCV_CCCBB_SIG_ANS"
        } ],
        "warnings" : [ ],
        "infos" : [ ]
      },
      "id" : "id-afde782436468dd74eeb181f7ce110e1",
      "type" : "SIGNATURE"
    } ],
    "tlanalysis" : [ ]
 }
}
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